# Olson

## PACO

## FM STEREO TUNER KIT



Price In 1062 Cat.
~~$63.98~~
**$39.99** LESS COVER
No. KB-148

Made In U.S.A.

★ With Multiplex
★ Prealigned Front End
★ Magic Eye Tuning

A complete FM Stereo Multiplex tuner kit, budget priced, with the features, and performance of much higher priced units. With well illustrated instruction manual and prealigned shielded front end. Check these specifications—Freq. response: 20-15,000 cps±2 DB. Distortion, less than 1% at 100 micro-volts input. Wide Band Ratio Detector, Dual Limiters. AM Suppression; better than 25 DB. IHFM Sensitivity: 4 microvolts. Quieting Sensitivity 1.5 microvolts for 30 DB, 1.5 microvolts for 50 DB. AFC defeat. Eye type tuning indicator, and smooth fly wheel tuning. Size: 13" Wide x 8⅝" Deep x 3⅞" High. For 110-125 volts AC, 60 CPS. Shipping weight 10 lbs.

Metal cabinet for KB-148 ..... No. CA-261 ..... $4.95

# Norelco

## STEREO Changer

Ronette STEREO CARTRIDGE

4-Speed Automatic



No. RP-275
**$29.99**

★ Speeds 16, 33⅓, 45 & 78 RPM
★ Automatic Intermix
★ Balanced Turntable
★ Push-Button Operation

World famous Norelco, one of Europe's finest changers now available from Olson at a rock-bottom price. Plays all four standard speeds (16, 33⅓, 45 and 78 RPM) manually or automatically. Plays 7", 10" and 12" records in any order of size (automatic intermix). Shaded pole motor and dynamically balanced turntable for smooth constant speed. Automatic shut-off after last record. Plug-in head has standard ½" mounting centers to accept any popular cartridge. Genuine Ronette stereo cartridge included. Heavy duty rubber mat cushions record drop. Finished in attractive two-tone tan. Includes all AC and audio cables plus instructions. Size: 15¾" x 11⅞". For 110-125 volts AC 60 cps. Shipping weight 12 lbs.

45 RPM Spindle, No. RP-273 ..... $2.75
Mounting Base, No. CA-306 ..... $4.88

Cadet Wm. E. Lyons, UK 20 SCC, West Point, N. Y., wins choice of merchandise worth $5 from Olson's "Treasure Hunt." See back cover for details.

Catalog 364. Copyrighted 1962, OLSON ELECTRONICS, INC.

# Phono TRIX

## All Transistor "Executive"

# TAPE RECORDER

SMALL ENOUGH TO FIT THE PALM OF YOUR HAND




Made In West Germany

BRAND NEW
★
FACTORY BOXED

Play Back Through Mike Without Removing From Red Socket!

With Microphone/Speaker

Push-Button OPERATION

MODEL 88

Ever Hear A Memo Pad
**TALK BACK?**

- Plays 70 Minutes
- Fast Rewind
- Automatic Erase
- Weighs Only 2¾ lbs.
- One Piece Cast Frame
- True Fidelity
- Made In West Germany
- Talk/Listen Thru Mike




Mfgr's 1962 List Price
~~$149.95~~
**$49.99**
No. RA-634

Olson Actual Selling Price Was $99.95

The infinite memory. Small enough to fit into your coat pocket but big enough to do a king size job of recording. Take notes as you travel for business or pleasure . . . take Phono Trix with you to lectures and conferences. Works anywhere with enough sensitivity to hear what you hear. Push button operation is made easier by color coded buttons. Red for record, blue for playback. No chance for error . . . recorder switches from record to play automatically when you rewind. Push-button or mike starts and stops motion . . . ideal for dictation. Uses standard ¼" magnetic recording tape on special 7" reels. Each recorder is equipped with a reel adapter so that tapes may be played back on any standard recorder. Runs at standard 1⅞ ips speed. Dual track recording doubles total recording time. Records up to 70 minutes in true voice fidelity. Operates on D-C roll batteries and 3-Penlight batteries (not included) for greatest operating economy. The Phono Trix 88 recorder comes to you complete with tape, reel, push-to-talk mike, earphone and reel adapter. Size: 7⅛" x 4⅛" x 1⅝", shipping weight 3 lbs.

### ACCESSORIES

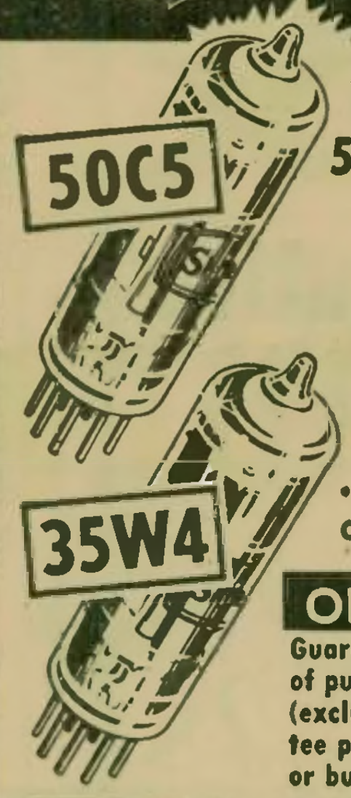
Batteries, No. BA-47 (3 req'd.) ..... ea. 13¢
Batteries, No. BA-67 (3 req'd.) ..... 6 for 39¢
Empty Reel, No. TA-126 ..... 69¢
300 Ft. Recording Tape, No. TA-127 ..... $2.59
Leather Carrying Case, No. CA-309 ..... $9.95

# OLSON ELECTRONICS

260 S. FORGE ST.
AKRON, OHIO 44308

# Shield TUBES

MADE IN U.S.A.




YOUR CHOICE
50C5 or 35W4

# FREE

. . . with each purchase of any 8 Shield Brand Tubes!

## ONE YEAR GUARANTEE

**Guaranteed for a full 12 months from the date of purchase. We will replace any defective tube (exclusive of freight charges) within the guarantee period. This does not apply to broken tubes or burned out filaments.**

| TUBE TYPE | PRICE EACH | TUBE TYPE | PRICE EACH | TUBE TYPE | PRICE EACH | TUBE TYPE | PRICE EACH | TUBE TYPE | PRICE EACH |
|---|---|---|---|---|---|---|---|---|---|
| 1B3/1G3 | $ .89 | 5U4GB | $ .60 | 6BQ6 | $1.12 | 6GX6 | $ .66 | 12BE6 | $ .38 |
| 1J3 | .79 | 5U8 | .84 | 6BQ7 | 1.30 | 6H58 | .82 | 12BH7 | .77 |
| 1K3 | .79 | 5Y3 | .46 | 6BS8 | 1.60 | 6J6 | .71 | 12BL6 | .57 |
| 1R5 | .77 | 6AB4 | .54 | 6BU8 | .70 | 6S4 | .62 | 12BQ6 | 1.36 |
| 1U5 | .65 | 6AC7 | 1.22 | 6BX7 | 1.32 | 6SL7GT | .84 | 12BY7 | .77 |
| 1X2 | .95 | 6AF4 | 1.01 | 6BZ6 | .55 | 6SN7GTB | .79 | 12BZ7 | .86 |
| 2AF4 | 1.14 | 6AG5 | .70 | 6BZ7 | 1.20 | 6T8 | .98 | 12D4 | .82 |
| 2CY5 | .71 | 6AH4 | .81 | 6C4 | .45 | 6U8 | .83 | 12DQ6 | 1.06 |
| 3A3 | .76 | 6AH6 | 1.10 | 6CB6 | .55 | 6V6 | .53 | 12SN7GT | .81 |
| 3AL5 | .46 | 6AK5 | 1.20 | 6CD6GA | 1.51 | 6W4 | .75 | 12V6 | .63 |
| 3AU6 | .56 | 6AK6 | .98 | 6CG7 | .61 | 6W6 | .80 | 12W6 | .71 |
| 3AV6 | .42 | 6AL5 | .52 | 6CG8 | .80 | 6X4 | .41 | 12X4 | .56 |
| 3BC5 | .63 | 6AM8 | .78 | 6CL8 | 1.00 | 6X8 | .97 | 13EM7 | 1.08 |
| 3BN6 | .76 | 6AN8 | .93 | 6CM7 | .80 | 7AU7 | .65 | 17AX4 | .67 |
| 3BU8 | .71 | 6AQ5 | .53 | 6CN7 | .70 | 8FQ7 | .74 | 17DQ6 | 1.06 |
| 3BY6 | .58 | 6AS5 | .96 | 6CQ8 | .92 | 12AB5 | .72 | 19AU4 | .87 |
| 3BZ6 | .56 | 6AU4 | 1.10 | 6CS6 | .68 | 12AD6 | .57 | 19T8 | 1.02 |
| 3CB6 | .56 | 6AU6 | .65 | 6CU5 | .70 | 12AE6 | .50 | 25BQ6 | 1.40 |
| 3DG4 | .85 | 6AU8 | .88 | 6CY5 | .70 | 12AQ5 | .72 | 25C5 | .58 |
| 3DK6 | .72 | 6AV6 | .53 | 6CY7 | .86 | 12AT6 | .60 | 25CD6GB | 1.52 |
| 3DT6 | .54 | 6AW8 | .90 | 6DA4 | .68 | 12AT7 | .75 | 25DN6 | 1.70 |
| 4AU6 | .64 | 6AX4 | .83 | 6DE6 | .61 | 12AU6 | .48 | 25L6 | .57 |
| 4BC8 | 1.29 | 6BA6 | .56 | 6DK6 | .59 | 12AU7 | .75 | 35C5 | .48 |
| 4BQ7 | 1.29 | 6BC5 | .62 | 6DQ5 | 2.28 | 12AV6 | .38 | 35W4 | .42 |
| 4BZ6 | .56 | 6BC8 | 1.14 | 6DQ6 | 1.05 | 12AV7 | .98 | 35Z5GT | .60 |
| 4BZ7 | 1.29 | 6BE6 | .55 | 6DT6 | .53 | 12AX4 | .85 | 50C5 | .63 |
| 4CB6 | .56 | 6BG6GB | 1.70 | 6EA8 | .67 | 12AX7 | .61 | 50EH5 | .53 |
| 5AM8 | .79 | 6BH6 | .68 | 6EB8 | .94 | 12AZ7 | .82 | 50L6 | .60 |
| 5AN8 | .90 | 6BH8 | .98 | 6EM7 | 1.08 | 12B4 | .68 | 7025 | .82 |
| 5AQ5 | .54 | 6BJ6 | .65 | 6EW6 | .57 | 12BA6 | .38 | | |
| 5AT8 | .83 | 6BK7 | .85 | 6FQ7 | .76 | | | | |
| 5BK7 | .86 | 6BL7 | 1.09 | 6GH8 | .67 | | | | |
| 5BQ7 | 1.20 | 6BN6 | .74 | 6GK5 | .82 | | | | |
| 5CG8 | .81 | 6BN8 | .80 | 6GM6 | .68 | | | | |
| 5CL8 | .76 | 6BQ5 | .59 | 6GN8 | 1.20 | | | | |

## ORDER NOW!



# NE-2

Neon Lamp

No. PL-51

**9c** Ea.

15 for $1.00
100 for $5.88

Use with dropping resistor of 55,000 to 100,000 ohms. 1/25 watt. For 110-120 V. AC.

## 20 TIMES BRIGHTER!



NE-2P High Brightness Neon Lamps

**15c** ea.

No. PL-106
10 for $1.45
100 for $12.00

Bulb size ¾" long with 1" wire leads. Operates on 95 to 135 volts with dropping resistor. Shipping weight ¼ lb.

# Olson

## No. 47 PILOT LAMPS



• 6-8 Volts • .15 Amps
3 Boxes for $1.75
No. PL-53, Box of 10
**59c**

# Westinghouse

## No. 47 PILOT LAMPS

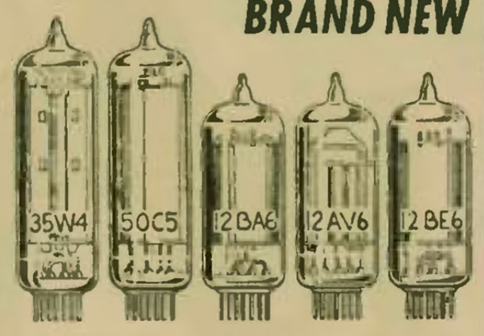
• 6-8 Volts • .15 Amps
3 Boxes for $2 — No. PL-87 Box of 10
**69c**

# Westinghouse / Olson

5 Pack

# TUBE KIT

BRAND NEW




**Westinghouse**
No. AS-817
LOTS OF 3 KITS, EACH
**$2.50**
Single Kit, $2.99

**OLSON**
No. AS-533
**$2**
PER KIT

Each kit contains 5 brand new tubes—1 each as listed: 35W4, 50C5, 12BA6, 12AV6, 12BE6. Most common types for AC DC home radios. Shipping weight ½ lb.

# LIMITED OFFER!

# Westinghouse

JOBBER BOXED




# 5U4

# 64¢

Genuine WESTINGHOUSE 5U4 tube for only 64¢ with every 6 WESTINGHOUSE tubes you buy from list below. (AS-817 tube kit not included). Tubes may be assorted.

## BRAND NEW - FACTORY SEALED

# Westinghouse TUBES

## ONE YEAR GUARANTEE

Brand new. All tubes are guaranteed for a full 12 months from the date of purchase. We will replace any defective tube (exclusive of freight charges) within the GUARANTEE period. This does not apply to broken tubes or burned out filaments.

| TUBE TYPES | MFRS. LIST PRICE | YOUR COST 1 - 10 Each | YOUR COST 11 - Up Each | TUBE TYPES | MFRS. LIST PRICE | YOUR COST 1 - 10 Each | YOUR COST 11 - Up Each | TUBE TYPES | MFRS. LIST PRICE | YOUR COST 1 - 10 Each | YOUR COST 11 - Up Each |
|---|---|---|---|---|---|---|---|---|---|---|---|
| OZ4 | 2.40 | 1.18 | 1.01 | 6AV5GA | 4.20 | 2.06 | 1.76 | 6SN7GTB | 2.60 | 1.27 | 1.09 |
| 1B3/1G3/GT | 2.90 | 1.42 | 1.21 | 6AV6 | 1.65 | .80 | .69 | 6SQ7 | 3.80 | 1.86 | 1.59 |
| 1K3 | 2.90 | 1.42 | 1.21 | 6AW8A | 3.70 | 1.81 | 1.55 | 6T8A | 3.35 | 1.64 | 1.40 |
| 1R5 | 3.05 | 1.50 | 1.28 | 6AX4GTB | 2.65 | 1.30 | 1.11 | 6U8A | 3.30 | 1.62 | 1.38 |
| 1S5 | 2.90 | 1.42 | 1.21 | 6BA6 | 2.00 | .98 | .84 | 6V3A | 4.55 | 2.23 | 1.91 |
| 1T4 | 2.90 | 1.42 | 1.21 | 6BA8A | 3.85 | 1.89 | 1.61 | 6V6GT | 2.20 | 1.08 | .92 |
| 1U4 | 2.90 | 1.42 | 1.21 | 6BC5 | 2.35 | 1.15 | .98 | 6W4GT | 2.40 | 1.18 | 1.01 |
| 1U5 | 2.65 | 1.30 | 1.11 | 6BC8 | 4.00 | 1.96 | 1.68 | 6W6GT | 2.80 | 1.37 | 1.17 |
| 1V2 | 2.10 | 1.03 | .88 | 6BE6 | 2.20 | 1.08 | .92 | 6X4 | 1.65 | .80 | .65 |
| 1X2B | 3.05 | 1.50 | 1.28 | 6BF5 | 3.55 | 1.74 | 1.49 | 6X5GT | 2.05 | 1.00 | .86 |
| 2AF4-A | 4.05 | 1.98 | 1.70 | 6BF6 | 1.80 | .88 | .75 | 6X8 | 3.15 | 1.54 | 1.32 |
| 2BN4 | 2.55 | 1.25 | 1.07 | 6BG6GA | 6.50 | 3.20 | 2.72 | 7AU7 | 2.60 | 1.27 | 1.09 |
| 2CY5 | 3.05 | 1.50 | 1.28 | 6BH8 | 3.65 | 1.79 | 1.53 | 7N7 | 7.55 | 3.70 | 3.16 |
| 3A3 | 3.40 | 1.66 | 1.42 | 6BJ6 | 2.60 | 1.27 | 1.09 | 8AW8A | 3.65 | 1.79 | 1.53 |
| 3AL5 | 2.05 | 1.00 | .86 | 6BK5 | 3.70 | 1.81 | 1.55 | 10DE7 | 3.40 | 1.66 | 1.42 |
| 3AU6 | 2.35 | 1.15 | .98 | 6BK7B | 3.35 | 1.64 | 1.40 | 12AB5 | 3.50 | 1.71 | 1.47 |
| 3BC5 | 2.35 | 1.15 | .98 | 6BL7GTA | 3.95 | 1.94 | 1.66 | 12AD6 | 2.40 | 1.18 | 1.01 |
| 3BN6 | 3.85 | 1.89 | 1.61 | 6BN4A | 2.50 | 1.22 | 1.05 | 12AQ5 | 2.60 | 1.27 | 1.09 |
| 3BU8 | 3.10 | 1.51 | 1.29 | 6BN6 | 3.20 | 1.56 | 1.33 | 12AT6 | 1.85 | .91 | .78 |
| 3BZ6 | 2.30 | 1.13 | .97 | 6BQ5 | 2.40 | 1.18 | 1.01 | 12AT7 | 3.05 | 1.49 | 1.28 |
| 3CB6 | 2.25 | 1.10 | .94 | 6BQ6GTB | 4.35 | 2.13 | 1.82 | 12AU6 | 2.15 | 1.05 | .90 |
| 3DG4 | 3.40 | 1.66 | 1.42 | 6BQ7A | 3.95 | 1.93 | 1.65 | 12AU7A | 2.45 | 1.20 | 1.03 |
| 3DT6 | 2.20 | 1.08 | .92 | 6BS8 | 3.75 | 1.84 | 1.57 | 12AV5GA | 3.85 | 1.89 | 1.61 |
| 3S4 | 3.20 | 1.56 | 1.33 | 6BU8 | 2.80 | 1.37 | 1.17 | 12AV6 | 1.65 | .80 | .69 |
| 3V4 | 2.50 | 1.22 | 1.05 | 6BX7GT | 4.35 | 2.13 | 1.82 | 12AV7 | 3.55 | 1.74 | 1.49 |
| 4BC8 | 4.05 | 1.98 | 1.70 | 6BY6 | 2.50 | 1.22 | 1.05 | 12AX4GTA | 2.70 | 1.32 | 1.13 |
| 4BQ7-A | 4.00 | 1.96 | 1.68 | 6BY8 | 2.65 | 1.30 | 1.11 | 12AX7 | 2.90 | 1.23 | 1.05 |
| 4BZ6 | 2.25 | 1.10 | .94 | 6BZ6 | 2.25 | 1.10 | .94 | 12AZ7A | 2.75 | 1.35 | 1.15 |
| 4CB6 | 2.30 | 1.13 | .96 | 6BZ7 | 4.00 | 1.96 | 1.68 | 12B4A | 2.70 | 1.33 | 1.14 |
| 5AM8 | 3.55 | 1.74 | 1.49 | 6C4 | 1.85 | .91 | .78 | 12BA6 | 1.65 | .80 | .69 |
| 5AQ5 | 2.20 | 1.08 | .92 | 6CB6A | 2.25 | 1.10 | .94 | 12BE6 | 1.75 | .86 | .73 |
| 5AT8 | 3.70 | 1.81 | 1.55 | 6CD6GA | 5.80 | 2.84 | 2.43 | 12BH7A | 3.05 | 1.49 | 1.28 |
| 5B8 | 5.30 | 2.60 | 2.22 | 6CF6 | 2.55 | 1.25 | 1.07 | 12BQ6GTB | 4.45 | 2.18 | 1.86 |
| 5BK7A | 3.40 | 1.66 | 1.42 | 6CG7 | 2.45 | 1.20 | 1.03 | 12BR7 | 3.20 | 1.56 | 1.33 |
| 5BR8 | 3.65 | 1.79 | 1.53 | 6CG8A | 3.30 | 1.62 | 1.38 | 12BY7A | 3.05 | 1.50 | 1.28 |
| 5CG8 | 3.35 | 1.64 | 1.40 | 6CL6 | 3.75 | 1.84 | 1.57 | 12C5/12CU5 | 2.45 | 1.20 | 1.03 |
| 5CL8A | 3.35 | 1.64 | 1.40 | 6CL8A | 3.15 | 1.54 | 1.32 | 12CA5 | 2.85 | 1.39 | 1.17 |
| 5T8 | 3.40 | 1.66 | 1.42 | 6CM7 | 2.90 | 1.42 | 1.21 | 12D4 | 2.75 | 1.35 | 1.15 |
| 5U4-GB | 2.10 | 1.03 | .88 | 6CN7 | 2.90 | 1.42 | 1.21 | 12DQ6B/A | 4.20 | 2.06 | 1.76 |
| | | | | 6CQ8 | 3.50 | 1.71 | 1.47 | 12L6GT | 2.75 | 1.35 | 1.15 |
| 5U8 | 3.30 | 1.62 | 1.38 | 6CS6 | 3.35 | 1.15 | .98 | 12SA7 | 4.30 | 2.11 | 1.80 |
| 5V4GA | 3.50 | 1.71 | 1.47 | 6CS7 | 2.95 | 1.44 | 1.24 | 12SK7 | 3.90 | 1.91 | 1.63 |
| 5X8 | 3.45 | 1.69 | 1.45 | 6CU8 | 4.15 | 2.03 | 1.74 | 12SN7GTA | 2.70 | 1.32 | 1.13 |
| 5Y3GT | 1.75 | .86 | .73 | 6CY5 | 2.75 | 1.35 | 1.15 | 12SQ7 | 3.75 | 1.84 | 1.57 |
| 6AB4 | 2.15 | 1.05 | .90 | 6CW4 | 4.45 | 2.18 | 1.86 | 12V6GT | 2.40 | 1.18 | 1.01 |
| 6AC7 | 5.10 | 2.50 | 2.14 | 6CX8 | 3.85 | 1.89 | 1.61 | 12W6GT | 3.00 | 1.47 | 1.26 |
| 6AF4-A | 4.00 | 1.96 | 1.68 | 6DE4 | 2.85 | 1.39 | 1.17 | 12X4 | 1.90 | .93 | .80 |
| 6AG5 | 2.75 | 1.35 | 1.15 | 6DE6 | 2.55 | 1.25 | 1.07 | 17D4 | 2.75 | 1.35 | 1.15 |
| 6AH4GT | 3.45 | 1.69 | 1.45 | 6DQ6 | 4.10 | 2.01 | 1.72 | 17DQ6B | 4.20 | 2.06 | 1.76 |
| 6AH6 | 4.65 | 2.28 | 1.95 | 6EA8 | 3.20 | 1.56 | 1.33 | 19AU4GTA | 3.45 | 1.69 | 1.45 |
| 6AK5 | 4.40 | 2.15 | 1.84 | 6EB8 | 4.00 | 1.97 | 1.68 | 19T8 | 3.50 | 1.71 | 1.47 |
| 6AK6 | 2.90 | 1.42 | 1.21 | 6EM7 | 5.10 | 2.50 | 2.14 | 25DN6 | 4.60 | 2.26 | 1.93 |
| 6AL5 | 1.85 | .91 | .78 | 6H6 | 4.00 | 1.96 | 1.68 | 25BQ6GTB | 6.80 | 3.34 | 2.76 |
| 6AM3A | 3.45 | 1.69 | 1.45 | 6J5 | 3.65 | 1.79 | 1.53 | 25L6GT | 2.35 | 1.15 | .98 |
| 6AN8A | 4.00 | 1.96 | 1.68 | 6J6 | 2.80 | 1.37 | 1.17 | 25Z6GT | 3.50 | 1.71 | 1.47 |
| 6AQ5A | 2.35 | 1.15 | .98 | 6J7 | 4.95 | 2.43 | 2.07 | 35C5 | 2.15 | 1.05 | .90 |
| 6AQ7GT | 4.00 | 1.96 | 1.68 | 6K6GT | 2.65 | 1.30 | 1.11 | 35L6GT | 2.40 | 1.18 | 1.01 |
| 6AS5 | 2.40 | 1.18 | 1.01 | 6L6 | 8.60 | 4.21 | 3.60 | 35W4 | 1.10 | .53 | .47 |
| 6AS8 | 3.80 | 1.86 | 1.59 | 6L6GC | 4.20 | 2.06 | 1.76 | 35Y4 | 4.80 | 2.35 | 2.01 |
| 6AT6 | 1.90 | .93 | .80 | 6S4A | 2.45 | 1.20 | 1.03 | 35Z5GT | 1.85 | .91 | .78 |
| 6AT8A | 3.80 | 1.86 | 1.59 | 6SA7 | 4.30 | 2.11 | 1.80 | 50B5 | 2.95 | 1.45 | 1.24 |
| 6AU4GTA | 3.55 | 1.74 | 1.49 | 6SC7 | 4.20 | 2.06 | 1.76 | 50C5 | 2.15 | 1.05 | .90 |
| 6AU5GT | 4.30 | 2.11 | 1.80 | 6SJ7 | 4.15 | 2.03 | 1.74 | 50EH5 | 2.30 | 1.13 | .96 |
| 6AU6A | 2.10 | 1.03 | .88 | 6SK7 | 3.95 | 1.93 | 1.65 | 50L6GT | 2.55 | 1.25 | 1.07 |
| 6AU8A | 3.50 | 1.71 | 1.47 | 6SL7GT | 3.50 | 1.71 | 1.47 | 117Z3 | 4.35 | 2.13 | 1.82 |

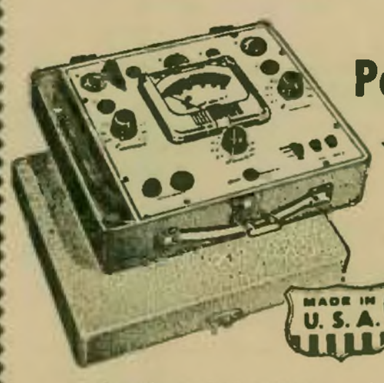
**TUBE TYPES MAY BE ASSORTED FOR QUANTITY PRICE**

**TUBE TYPES MAY BE ASSORTED FOR QUANTITY PRICE**

**TUBE TYPES MAY BE ASSORTED FOR QUANTITY PRICE**

# Olson
## Portable TUBE TESTER KIT

PRE-FAB KIT CONSTRUCTION




No. KB-142
**$17.95**

★ All Major Components Premounted & Tested
★ Checks All Modern Tubes
★ Checks Shorts & Leakage Between all elements
★ Fun To Build

Designed to test modern tubes in radio, TV and Hi-Fi equipment. Single rotary switch speeds operation over slow cumbersome single slide switches. Simply plug tube into appropriate socket, set filament switch for proper voltage and rotate element switch, shorts show on leakage indicator. Tube emission is read on large easy to read meter face as good, ?, bad. Olson's easy to read step-by-step instruction manual with large, clear diagrams assure professional style construction and performance. Housed in handsome, rugged carrying case with removable cover. For 110-125 volts AC 60 CPS. Size: 10½" x 8¾" x 3½". Shipping weight 6 lbs.

Picture Tube Test Adaptor, No. TE-154 ..... $3.83

# UNIVERSAL BOOSTER



Increases brightness on old or dim picture tubes. Works with series, parallel, conventional 70°, 90° or 110° tubes. Shipping weight ¼ lb.

4 FOR $3.50 — No. T-335 **99c**

# GIANT SURPRISE KIT




No. AS-700 ONLY **$5**

★ TREMENDOUS VALUE

A deluxe HIGH VALUE Surprise Kit worth MANY TIMES Olson's low, low price! Kit may contain transformers, meters, relays, capacitors, resistors, controls, wire and countless other valuable components. Shipping weight 20 lbs.

5-LB. SURPRISE KIT
Shipping Weight 7½ lbs.
No. AS-137 ..... **$1.98**

# 4-WAY BOOSTER



Adds months to any picture tube life. Connects between picture tube base and socket. 2½" x 1½".

3 FOR $5
12 @ $1.40 Each

No. T-276 **$1.77**

# TUBE CADDY

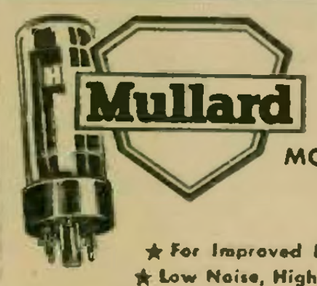
★ HANDY TOOL COMPARTMENT



No. CA-125
2 FOR $15
**$7.97**

★ HOLDS UP TO 143 TUBES

Durable heavy grey covering. Size: 14¾" W x 12½" H x 8" D. Shpg. wt. 9 lbs.




Made In England

MOST POPULAR TYPES

★ For Improved Performance
★ Low Noise, High Gain, Less M

| Mullard Types | Replaces | Net Each |
|---|---|---|
| EL-84 | 6BQ5 | 1.25 |
| EZ-81 | 6CA4 | 1.14 |
| ECC-82 | 12AU7 | 1.27 |
| ECC-83 | 12AX7 | 1.29 |
| ECC-85 | 6AQ8 | 1.41 |
| GZ-34 | 5AR4 | 2.28 |
| EL-84MP | 6BQ5 | 2.84 Pr. |

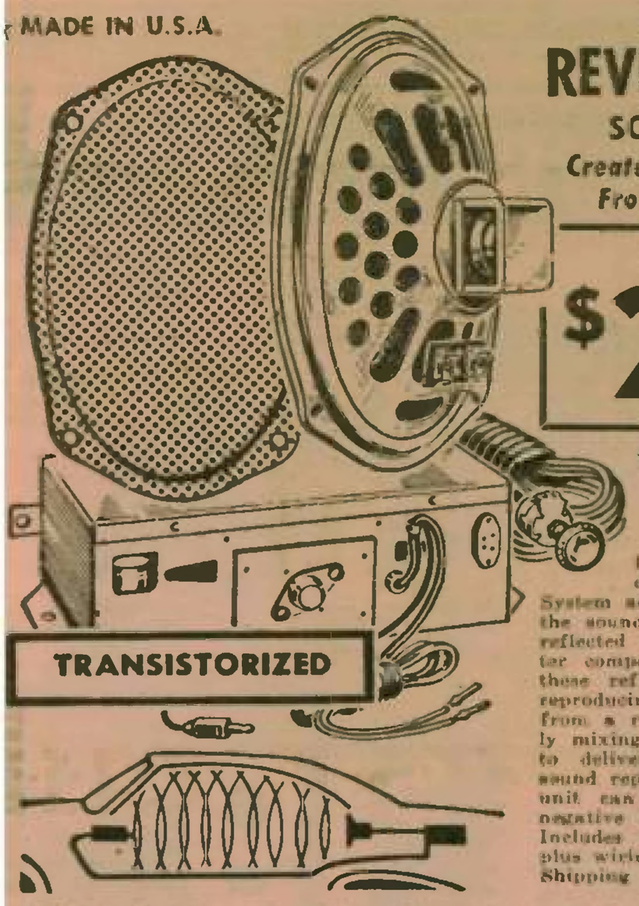
Bill Weeks, Box No. 33, Diboll, Te wins choice of merchandise worth $5 fr Olson's "Treasure Hunt." See back co for instructions.

MADE IN U.S.A.

Concert Master

# REVERBERATION SOUND SYSTEM

*Creates Concert Hall Sound From Your Auto Radio*




No. RA-577

**$26.97**

★ Use with Any 12-volt, Negative Ground Auto Radio—AM-FM

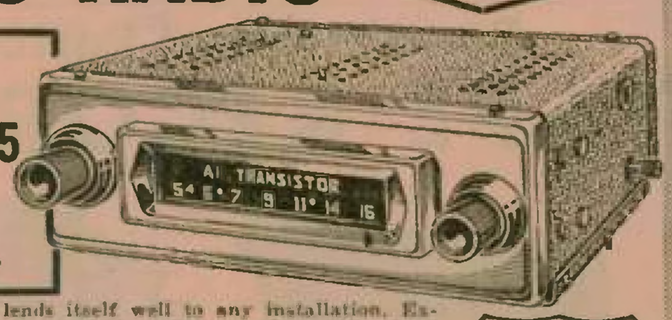
Add "life" to the sound from your car radio. Concert-Master Reverberation System adds depth and dimension to the sound by electronically creating reflected sound waves. Concert-Master compensates for the absence of those reflected waves in a car by reproducing a second set of waves from a rear speaker and acoustically mixing both sets of sound waves to deliver this new dimension in sound reproduction in your car. This unit can be added to any 12-volt negative ground radio—AM or FM. Includes 6x9" speaker with grille plus wiring harness and instructions. Shipping weight 6 lbs.

ARC, TV & Appl. Serv., 2168 St. Stephens Rd., Mobile, Ala., wins choice of merchandise worth $5 from Olson's "Treasure Hunt." See back cover for instructions.

# 12 Volt All Transistor AUTO RADIO

★ With Built-In 4" Speaker

★ Slide Rule Dial Tuning




No. RA-450

**$29.95**

3 @ $28.50 ea.

Low silhouette lends itself well to any installation. Excellent sensitivity and stability plus effective AVC assure steady clear reception in any area. All transistor circuit for greatest economy. No warm up. Radio is "instant-on." Compact size: 6½" x 2¾" x 8¾". With hardware and instructions. For use on 12-Volt negative ground systems. Shipping weight 8 lbs.

MADE IN U.S.A.

## TECHNICAL BOOKS

**A TUBE MANUAL.** Latest edition. 480 pages. 480 receiving tubes plus 200 picture tubes.
No. B-275 ..... $1.25

**WS MAGNETIC RECORDING FOR THE HOBBYIST.** How to record from phonographs, copying old records, how to record broadcasts and many more.
No. B-287 ..... $2.50

**WS 101 USES FOR VOM-VTVM.** By Robert G. Middleton. Over 150 illustrations. 116 pgs.
No. B-278 ..... $2.00

**WS TUBE SUBSTITUTION HANDBOOK TUB-7** 96 pages of substitutions for American, industrial European receiving, picture tubes.
No. B-271 ..... $1.50

**WS TRANSISTOR SUBSTITUTION HANDBOOK VOL. SSH-4.** 6500 Direct Substitutions. 668 U. S. Substitutions for Japanese Transistors. 530 Semiconductor Diode Substitutes.
No. B-273 ..... $1.50

**WS HOW TO READ SCHEMATIC DIAGRAMS.** Contains all types of schematic symbols and diagrams including tubes, transistors, capacitors, resistors, microphones, etc. 96 pages.
No. B-280 ..... $1.50

**WS TV SERVICING GUIDE BY SYMPTOMS.** Explains trouble shooting techniques based on analysis of symptoms. 132 pages. 8½" x 11".
No. B-281 ..... $2.00

**WS ABC'S OF TRANSISTORS. TRA-1.** By George B. Mann. Construction, basic circuits, temperature considerations, training and servicing procedures. Illustrated, 96 pages.
No. B-282 ..... $1.25

**WS UNDERSTANDING CAPACITORS AND THEIR USES. CAP-1.** A 96 page book that makes it easy to understand capacitors.
No. B-274 ..... $1.95

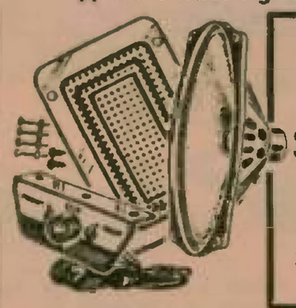
**P RADIO SERVICING COURSE.** A practical radio training course for home study. The course covers basic electricity, including ohms law, coils, transformers, etc.
No. B-285 ..... $2.50

**P TELEVISION SERVICING COURSE.** A complete home study course covering the basic essentials of TV servicing.
No. B-284 ..... $3.00

**E TRANSISTOR MANUAL.** New 6th edition includes theory and specifications.
No. B-276 ..... $2.00

# 6x9" Rear Deck SPEAKER KIT

★ No Soldering Required



No. S-333

**$3.63**

3 for $10.00

No soldering required. Speaker has Fahnestock clips and wire is pretinned. Fader control enables volume to be adjusted to any desired level. Includes 6x9 speaker, fader control, wire, chromed grille, hardware and easy to follow instructions. Shipping weight 2 lbs.

Miniature Rear Seat

# SPEAKER KIT

★ Prewired—Install in Minutes




No. S-501

**$2.29**

This prewired kit can be installed in minutes in any car. Selector switch permits selection of front, rear or both speakers. Mirror-finish steel case can be installed in any auto, convertible, foreign car or station wagon. Size: 2¼" sq. x 1¼" deep. Shipping weight ½ lb.

## BEACON LANTERN

★ With Red Flasher



No. X-784

**99c**

3 for $2.70

Lots of 12, Ea. 85c

Use as lantern, flasher - beacon or both. Shipping wt. 1 lbs.

Batteries (4 req'd) No. BA-53 ..... Ea. 13c
Extra Lantern bulb No. PL-45 ..... Ea. 15c
Extra Flasher bulb No. PL-44 ..... Ea. 15c

## 5 POWER Flashlight MAGNIFIER



No. X-900

**$1.71**

3 for $4.50

12 @ $1.25 ea.

Polished chrome with ivory plastic trim. Uses two "C" cells (not included). Size 6¾" long. Shpg. wt. ¾ pound.

BATTERIES (2 req'd)
No. BA-41 ..... Ea. 13c

## Workman TRANSCEIVER KIT

★ Transistorized



No. KB-163 ONLY **$22.95**

Supplies 117 volt AC 60 cycle voltage at 100 watts from 12 V. DC battery. Size: 5½" x 5½" x 4". Shipping weight 5 lbs.

**Factory Assembled Transverter**
125 watts continuous.
No. RA-584 ..... **$29.95**

Jeweled Swiss

## Stop (n' Go) Watch



**$8.99** No. X-531

Scale divided in 1/10 seconds up to 30 seconds on outer dial. Inner dial registers up to 15 minutes. Side and crown push buttons for starting and stopping action, plus continuing action, from point where stopped; 1¾" dial. Shipping weight ½ lb.



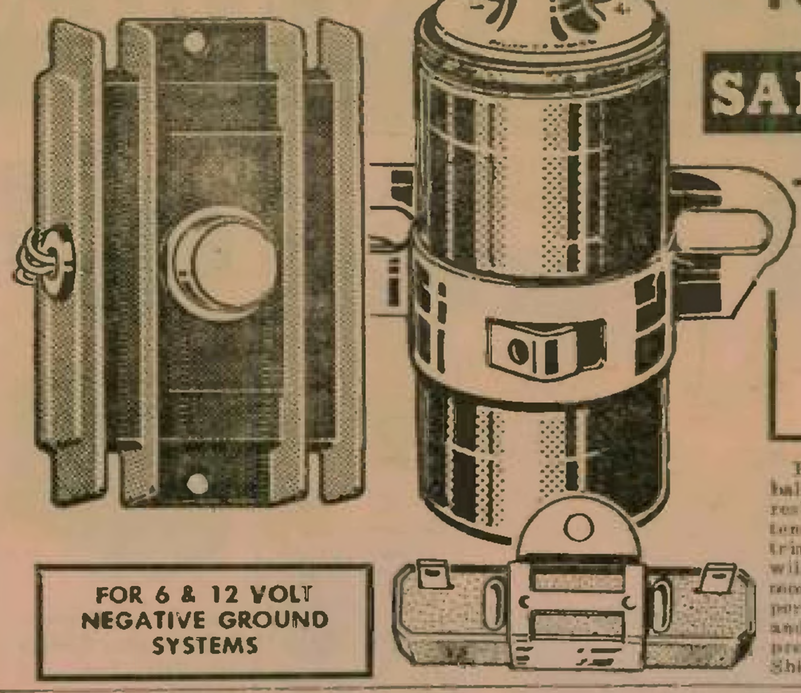
# Spring TUNE-UP TIME

MADE IN U.S.A.

## Olson Transistor IGNITION SYSTEM

SALE!

★ New—Easier Installation
★ Saves Gas, Plugs and Points
★ Insures Quick Starts
★ Eliminates Misfire
★ Reduces Maintenance Costs
★ Improves Engine Performance



FOR 6 & 12 VOLT NEGATIVE GROUND SYSTEMS

No. AM-243

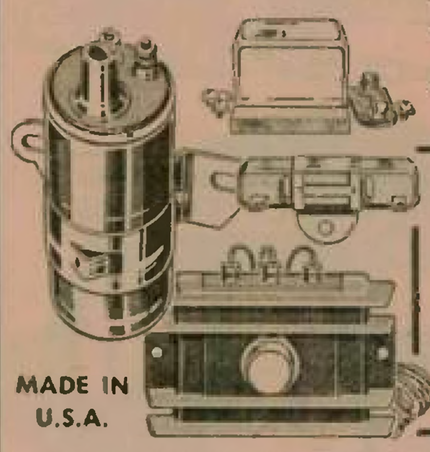
**$16.88**

For quick, easy installation on 6 volt cars with no ballast resistor and 12 volt cars with ceramic ballast resistor mounted in the engine compartment. This system is also recommended for boats, farm and industrial equipment. The advanced type ignition system will save you money in gas and tune-up costs, and most of all, it will give your engine that "just-tuned" performance every day. Features single transistor and heavy duty coil for most efficient operation. Neoprene coated wires resist oils, acids, heat and weather. Shipping weight 5 lbs.

## Olson Deluxe Transistor IGNITION SYSTEM

For All 12 Volt Negative Ground Systems

★ 400:1 Ratio Coil
★ Molded Ceramic Resistor
★ Heavy Duty Primary Relay



MADE IN U.S.A.

No. AM-244

ONLY **$24.98**

This deluxe transistor ignition system is recommended for use on all 12 volt negative ground systems. The heavy duty primary relay eliminates by-passing or rewiring of present ignition switch circuit. This makes installation particularly easy on cars which have the ignition resistance wire built into the wiring harness. Only two wires need to be changed from original wiring. Features a single high voltage 15 ampere transistor for more reliable operation. Heavy duty 400:1 ratio coil has extremely low primary resistance which reduces coil temperature. Universal mounting bracket can be used with any car. Neoprene covered wires resist oils, acids, heat and weather. Shipping weight 5 lbs.

Transistorized

## TACHOMETER

★ Illuminated Dial




No. X-941 ONLY **$19.95**

Jewel bearing D'Arsonval meter and modern zener regulated transistor circuit provide reliable, trouble-free performance. Adjustable reference pointer can be set for correct shifting speed or maximum safe RPM. Works with regular and dual-point ignition systems, magnetos and transistor ignition systems. With hardware and instructions. For 12 volt negative ground. Size: 3½" W. x 3⅝" H. x 3" D. Shipping weight 2½ lbs.

*Accurate*

## AMMETER-OIL PRESSURE GAUGE



(Non-Illuminated) No. ME-117 **$4.99**

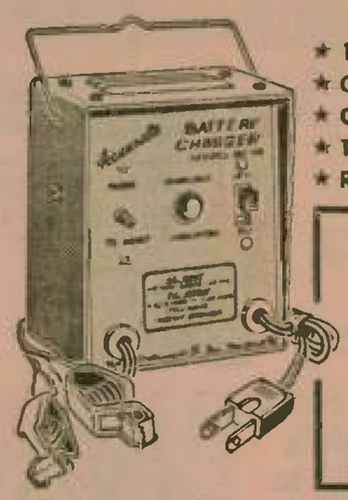
Illuminated, ME-118 $6.10

Can be mounted in any location that offers easy readability. Eliminates guesswork resulting from red indicator lights now used in most cars. Easy to connect to any car. Complete with all fittings and connectors. Oil pressure range: 0 to 80 pounds. Ammeter range: 60-0-60 amps. Both meters are mounted on a universal mounting, chrome panel. Illuminated model includes socket, bulb. Can be used in any 6 or 12-volt system. Shipping weight 3 lbs.

Superior

## SIGMA BATTERY CHARGER

6 AND 12 VOLT




★ 1.25 Amp.
★ Overload Circuit Breaker
★ Can Not Overcharge
★ Two 4½ Foot Cables
★ Rugged Metal Case

No. RA-617

**$3.99**

3 for $11.50

Keep your car battery charged ready to deliver full power when you need it. Battery may become discharged even while standing idle. With charger attached, battery remains fully charged at all times. Switch on front panel selects 6 or 12 volt batteries. Has 4½ foot charging cables with 25 amp. easy-to-attach clips. Charging rate tapers off as battery becomes charged. Can't overcharge. Re-set circuit breaker trips automatically if an overload should occur for any reason. Indicator light tells you if circuit breaker has been tripped. Features rugged metal cabinet for lifetime use. Size: 3" x 3½" x 5". For 110-125 volts A.C., 60 cps. Don't miss this tremendous value! Shipping weight 4 lbs.

Superior

## Electronic CAR STARTER




★ Helps Start Wet, Cold, Over-Heated or Sluggish Car Engines—Instantly!

**$2.99** Mfgrs. 1963 List $8.95

No. AM-246

Two simple connections can make the difference . . . whether your car starts instantly, or you have to grind away at the battery and your temper. In just a few minutes, you can connect this amazing device to your car, 6 or 12 volt. Electronic Car Starter sends FIVE TIMES the normal amount of spark from your plugs, insuring a positive start every time. This device disconnects itself automatically the instant the engine begins running. Electronic Car Starter will never damage the plugs. Size: 6½" x 3½" x 1½". Includes wire leads. Shipping weight 1 lb.

## RADAR SENTRY

Warns of Radar Zones



**$34.95** No. RA-627




★ 8 Transistors & 5 Diodes
★ "S" & "X" Bands—No External Wires
★ Complete With Built-In Antenna

An electronic receiver which produces an audible signal to indicate the presence of radar signals used for traffic control speed meters and traffic signal control. Constructed of high quality components, including 8 transistors and 5 diodes. The batteries (included) will last hundreds of hours. Size: 3½" x 2¾" x 3½". Shipping weight 2 lbs.

Extra Batteries (2 req'd) No. BA-88 (Mercury Cell) ..... Ea. 45c

LUX

MARINE Accessory

## CLOCK

★ Luminous 24-hr. Dial



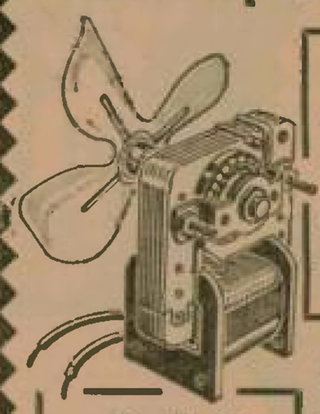
No. EA-70

Plus 90c F.E.T.

**$9**

Lux Precision movement with jeweled balance stud and screw. This handsome clock is moisture and shock resistant. Practical and nautical at home, in runabout, cruiser, or landlubber's den. Can be surface or flush mounted. Requires 3⅛" hole for flush mounting. Sweep second hand. 24 hr. mechanical mechanism. Shipping weight 1½ lbs.

## 1 and 2 Speed FAN MOTORS & BLADES



AS LOW AS **$1.98**

**Your Choice of Motors**

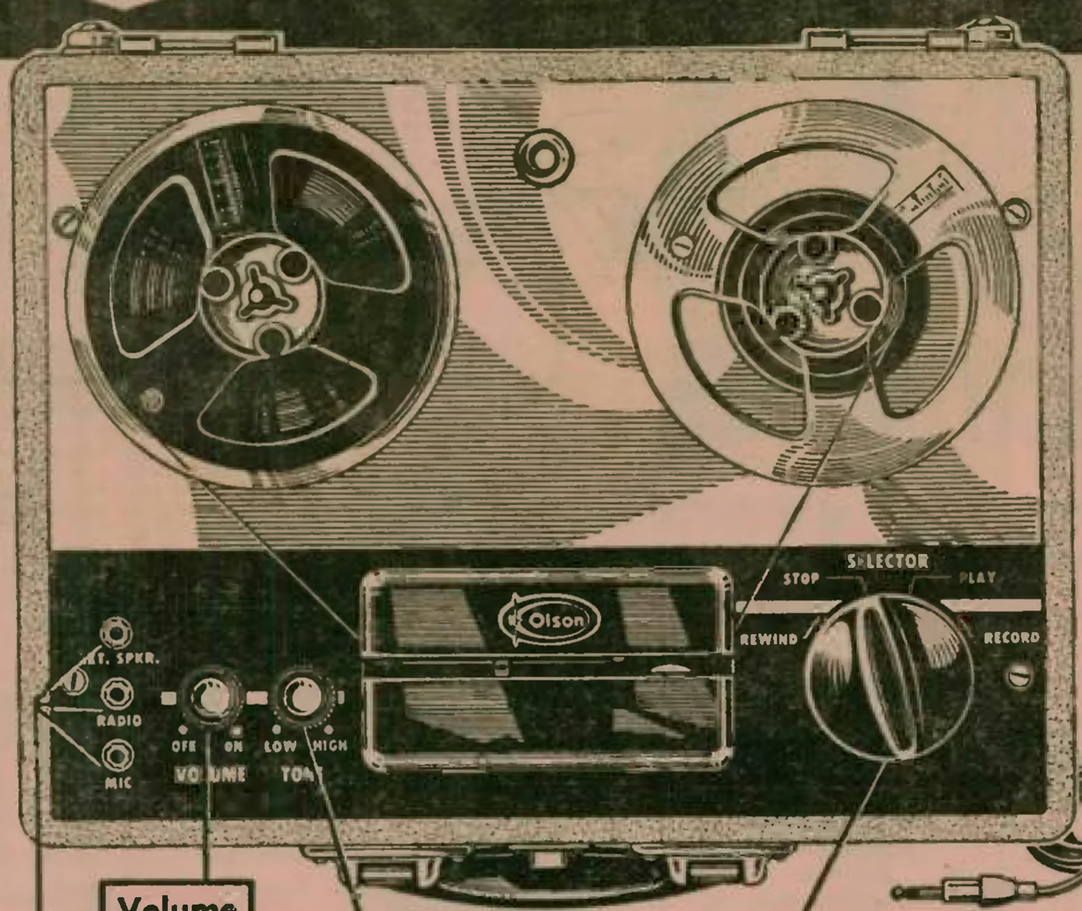
| 1-SPEED | | 2-SPEED | |
|---|---|---|---|
| 4" BLADE No. MO-98 | $1.98 | 4" BLADE No. MO-101 | $2.96 |
| 6" BLADE No. MO-99 | $2.59 | 6" BLADE No. MO-102 | $3.31 |
| 8" BLADE No. MO-100 | $2.98 | 8" BLADE No. MO-103 | $3.97 |

Motors deliver up to 1550 rpm. Ideal for cooling and ventilating all types of electronic equipment. Motors are of the squirrel cage induction type with shaded poles for self starting. Your choice of one or two speed motor with 4", 6" or 8" blade. Shipping weight 2 lbs. For 110-125 volts AC 60 cps.

SWITCHES FOR ABOVE:
For Two Speed Motor, No. SW-275 ..... 59c
For One Speed Motor, No. SW-239 ..... 29c
A.C. Line Cord, No. W-43 ..... 39c

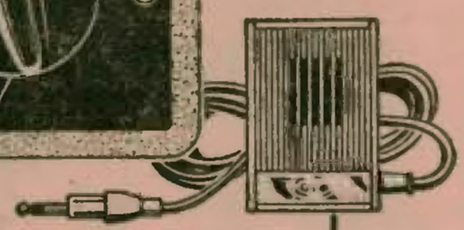
FULL SIZE
Not a "compact"

# Olson 2-Speed Dual Track TAPE RECORDER






Handsome Brown Leatherette Carrying Case for Lasting Good Looks!



Volume Control

Extension Speaker Radio and Microphone Inputs

Tone Control

Easy to Operate — ONE KNOB CONTROL

No. AM-232

Complete With CRYSTAL Mike

**$54.98**

2 FOR $105

$7 MONTHLY



"World's Easiest to Operate"

"MAGIC EYE" Record Level Indicator

## ★Uses 3", 5" and 7" Reels

High fidelity recording and playback at a budget price. This quality recorder operates at two standard speeds 3¾ IPS and 7½ IPS. The faster speed gives greater fidelity for recording music. Speed change is quick and positive, simply remove capstan sleeve and store on post provided. Tone control permits adjustments of playback tone to suit your listening taste. Has external speaker jack for the connection of a larger speaker or headphones if desired. A highly sensitive crystal mike and a recording patch cord are included along with an empty take-up reel. Proper recording level is indicated on a magic eye type indicator. Handsome luggage type case comes in brown leatherette. Size 13½" x 10" x 7". 110-125 volts AC. Shipping weight 21 lbs.

Hughes TV & Radio Serv., Box 378, Bronte, Tex., wins choice of merchandise worth $5 from Olson's "Treasure Hunt." See back cover for instructions.

# Dual Speed TAPE RECORDER

★ Equipped with New "Sing-A-Long" Feature



**$69.98** No. AM-233 2 for $130

★ Magic Eye Level Indicator

★ Response 50 - 15,000 cps

The new De-Luxe Olson tape recorder is designed to record and play high fidelity tapes and is equipped with a new "Sing-a-Long" feature which enables you to sing along with prerecorded tapes. Simply plug mike (included) into special sing-a-long jack and adjust volume control. Your voice is electronically mixed with the sound coming from the tape. Then both the pre-recorded sound and your voice come through the loudspeaker. Recorder uses all standard size reels including 7". Tape speeds are 3¾ and 7½ IPS. Magic eye recording level indicator assures sharp clear recordings. Response: 50-15,000 CPS. Recorder is complete with microphone and patchcord plus complete instruction book. Size: 14½ x 11¼ x 6½ for 110-125 volts AC 60 CPS. Shipping weight 26 lbs.

# SALE STUZZI Universal TAPE RECORDER

Made in Western Europe



Rugged! Lightweight! Portable!

OLSON SELLING PRICE WAS... $79.99

NOW **$59.99** NO. RA-619

MFGR'S 1963 LIST PRICE... $149.50

- Records Sound-On-Sound
- Die-Cast Uniframe Construction
- Speeds: 3¾ and 7½ IPS
- Frequency Response: 80 to 15,000 CPS

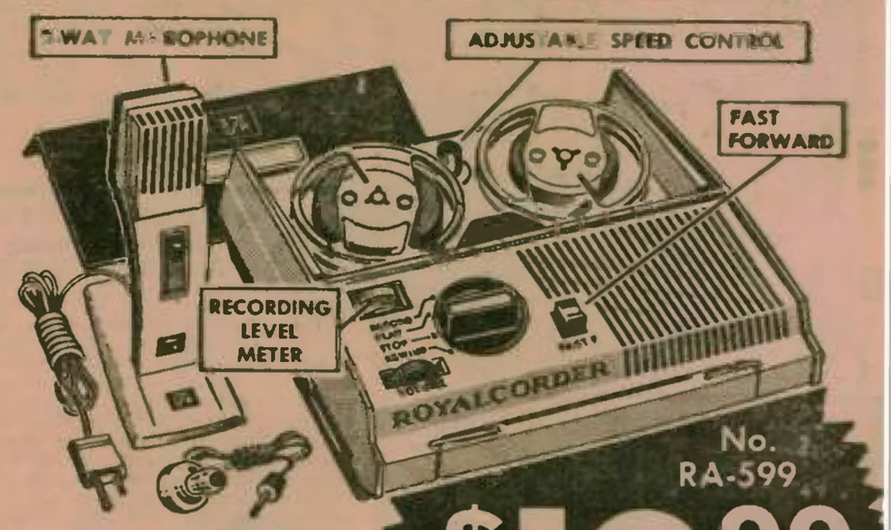
Unique professional features such as the die-cast frame construction, the external-rotor type motor and the dynamically balanced flywheel provide exceptional mechanical stability. Combined with a superior electronic recording and playback system, these features guarantee highest fidelity. Built-in public address system permits monitoring while recordings are being made, with an independent volume control for loudspeaker or headphone listening. Accepts all standard size reels up to 7" diameter. Two-track record and playback head doubles recording time. Sound-On-Sound facility permits adding one recording to another, without erasing the original recording. Size: 13" x 10½" x 6". For 110-125 volts AC, 60 cps. Less microphone. Shipping weight 19 lbs.

ELECTRO VOICE CERAMIC MICROPHONE, No. M-178 ..... $4.99



ROYALCORDER

# Portable TAPE RECORDER




No. RA-599

**$19.99**

Was ~~$24.99~~ In 164 CAT.

Accepts up to 5½ inch reels. Dual track head permits two-track recording which doubles recording time. Push button switch on mike starts and stops recorder . . . ideal for dictation. 6 transistor amplifier and 2¼ inch PM speaker produce loud clear tones. Speed control adjusts speed as batteries become weak. Recording level meter indicates proper recording level for best fidelity. This meter also measures battery voltage when function switch is in play back position. Recorder also has a monitor jack and an earphone for monitoring tapes as you record. A jack is provided for an external speaker if desired. Complete with: batteries, earphone, mike, empty reel and a roll of tape. Shipping weight 6 lbs.

EXTRA BATTERIES:
BA-67 (6 req'd.) ..... 8 for
BA-41 (4 req'd.) ..... ea.
Extra Tape, No. TA-107 ..... $1

## Transistorized Portable TAPE RECORDER



No. RA-594

**$49.98**

Was ~~$59.98~~ In 164 CAT.

- Capstan Drive
- Ideal for Dictation
- Two Speeds: 1⅞ & 3¾

This all transistor recorder features capstan drive for constant speed. Two standard speeds, 1⅞ and 3¾ IPS are selected by removing a sleeve on the capstan. Tapes recorded on this machine may be played back on any other tape recorder having the same standard speeds. Dual track record/playback head gives double the recording time. Push button on microphone starts and stops machine . . . ideal for dictation. Safety interlock button prevents accidental erasure of recorded tape. Proper recording level in indicated by a level meter to assure the utmost in clarity. Uses popular 5-inch reels. Operates on 6 standard penlight batteries (included) for greatest economy. Includes mike, batteries, earphone, tape and reel. Size: 7⅞" x 2[illegible] Shipping weight 6 lbs.

Extra Batteries (6 req'd.) No. BA-67 ..... 8 for

## Mayfair Transistor TAPE RECORDER



No. RA-607
2 for $86

**$44.98**

★ 2-Speed 3¾ I.P.S. and 7½ I.P.S.
★ Capstan Drive ★ Dual Track

The first high-fidelity, battery operated recorder at a moderate price. Records and plays at 7½ and 3¾ I.P.S. Fast speed (7½ I.P.S.) is ideal for recording music. Uses standard 5" reel. Push buttons make recording and playback foolproof. Record interlock switch prevents accidental erasure of tapes. Handsome luggage type leather case has metal trim and [illegible] guards. Five transistor circuit and 3" speaker deliver maximum volume and clear tone. Complete with: batteries, earphone, microphone, 5" reel of tape, empty reel and instruction manual. Size: 8" x 11" x 3½" Shipping weight 9 lbs.

EXTRA BATTERIES
BA-53, 3 req'd (1½ volt) ..... ea.
BA-89, 1 req'd (9 volt) .....

CONCORD 440

## Transistorized STEREO TAPE RECORDER



No. RA-624

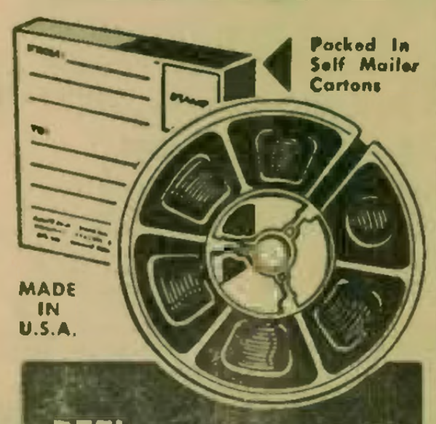
**$199.95**

★ STEREO RECORD AND PLAYBACK

The new Concord 440 is a rugged, transistorized tape recorder that will please the most critical connoisseurs of sound. The model 440 achieves a true major performance breakthrough in quality stereo reproduction—quality found only in professional recorders at twice the price. The 440 records Stereo—plays Stereo . . . through its own amplifiers and stereo-separated speakers, or through your high fidelity system. The transistorized pre-amps provide superior recording and playback sound quality and utmost reliability. Features simple fool-proof push-button operation . . . no jamming of any type. The 440 is multiplex ready and comes equipped with two matched dynamic microphones. Specifications: 3 speeds: 7½, 3¾, and 1⅞ IPS. Plays standard size reels up to 7" diameter. Wow & Flutter: less than 0.2% at 7½ ips. Frequency response: 50 to 15,000 cps at 7½ ips. Four inputs high-impedance and two low impedance. Output: high impedance to external amplifier, dual 8 ohm for external speakers. Level indicators operate in record and playback. Tape Counter: Digital type counter. Transistor and Tube Complement: 2-2SB171A, 2-2SB175A, 2-2SB177A, 3-30A5, 2-OA70 and 1-KCC[illegible] Speakers: 1-4"x6" (channel one) 1-6½" (channel two). Power Output 10 watts. Size: 20" x 20" x [illegible] For 110-125 volts AC, 60 cps. Shipping weight 43 [illegible]

# Fantastic RECORDING TAPE BARGAINS

## DICTAPE




REEL OF TAPE AS LOW AS **55c**

Ideal for all miniature and battery operated tape recorders and dictating machines, except those using a custom reel. Packed in self mailer cartons. Shipping weight ¼ lb. Ideal for voice letters. Costs only pennies to mail.

| Stk. No. | Backing | Ft. | Reel Size | Lots of 1 - 9 Each | Lots of 10 or more Each |
|---|---|---|---|---|---|
| TA-10 | Mylar | 225' | 3" | 63c | 55c |
| TA-18 | Mylar | 300' | 3" | 69c | 64c |
| TA-49 | Mylar | 600' | 3½" | 1.35 | 1.20 |

## 750 FT. RECORDING TAPE




No. TA-107 ALL 3 FOR... **$1.19**

Three reels of high quality, 1 mil, acetate recording tape. Each in its own mailing box. Ideal for tape letters or dictation. Standard 3" reel fits most miniature and battery operated recorders. Ship. wt. ½ lb.

Wayne Drzewicki, B. P.O. Box 48, Craig AFB, Ala., wins choice of merchandise worth $5 from Olson's "Treasure Hunt." See back cover for instructions.

## 1800' ACETATE RECORDING TAPE

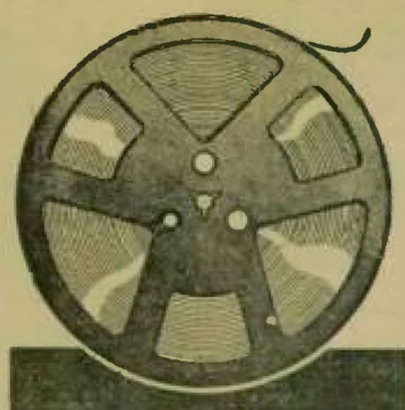


No. X-670 3 TO 95 $1.33 ea. 96 OR MORE ea. 1.25 **$1.73** EACH

★ MADE IN U.S.A.
★ INDIVIDUALLY BOXED

Finest quality recording tape made by leading U.S.A. manufacturers. Standard ¼" width on 7" reel. Each reel comes in it's own box. 1800 ft. plays or records 45 min. at 7½ IPS or 1½ hr. at 3¾ IPS. Each reel may contain one or more splices. Shipping weight ½ lbs.

## 1200' ACETATE RECORDING TAPE



No. X-673 EACH... **99c**

★ MADE IN U.S.A.
★ INDIVIDUALLY BOXED

1200 ft. of first quality recording tape on standard 7" reels. Strong 1½ mil acetate resists stretching and breaking. Uniform oxide coating for high signal to noise ratio. Each reel is packed in it's own standard size box. Plays 30 minutes at 7½ IPS. May contain one or more splices. Shipping weight ½ lb.

## 1200' MYLAR RECORDING TAPE




No. TA-75 3 @ $1.19 ea. Single, ea. $1.29 Lots of 10, ea. .. **99c**

Olson purchased another entire lot of top quality U.S.A. manufactured, recording tape and now passes the savings on to you. Features a uniform coating of oxide bonded to a tough mylar base. High signal to noise ratio, low distortion and uniform output. Standard ¼" width for all recorders. Shipping wt. 1 lb.

## Tape Head DEMAGNETIZER

★ Prevents Noisy Tapes
★ Instructions Included
★ Many Applications



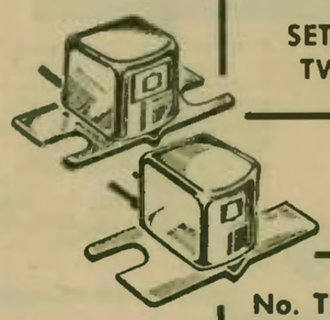
No. RP-248 **$3.19**

3 for $9.40

Just connect to 117 volts AC and move tip against tape head. Removes head magnetism and protects tapes from partial erasures or noise insertions. Will demagnetize many small parts. Shpg. wt. 1 lb.

## Tape Recorder HEADS

★ Record/Play & Erase
★ Instructions & Hardware Incl.



SET OF TWO

No. TA-111 BOTH FOR **$4.45**

A two-piece set consisting of one record / playback and erase head. Mounting centers: ¾" to 1" with bracket. Has ½" mtg. centers on bottom of head. Specifications: Record/Play: ½ track, DC Res. 560 ohms, Impedance 3500 ohms. Bias Current 0.2 ma. Erase: 320 ohms. Erase current 4 ma. Shipping weight ¼ lb.

## Empty Plastic TAPE REELS

**BARGAINS**



3" REELS
★ Kit of 5

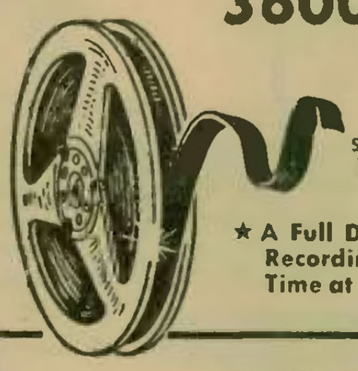
Fits all miniature and standard tape recorders.

No. AS-614 4 FOR $3.50 EACH... **99c**

MORE REEL BARGAINS

| Stock No. | Size Reel | Lots of 1 - 9 | Lots of 10 - 99 | 100 or MORE |
|---|---|---|---|---|
| X-250 | 5" | 29c Ea. | 25c Ea. | 20c Ea. |
| X-251 | 7" | 45c Ea. | 35c Ea. | 25c Ea. |

## American Triple Length RECORDING TAPE 3600 FT.



★ Standard 7" Reel

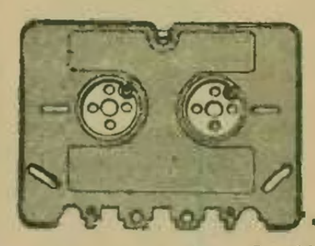
★ A Full Day of Recording Time at 1⅞ IPS

No. TA-109 EACH .. **$6.95**

12 or more Ea. $6.57

Extra-play, extra-strength 3600' of Tensilized mylar base recording tape on standard 7" reel. Given three times the playing time of standard 1½ mil tape. Super strong tensilized mylar prevents breakage, lasts extra long. Shipping weight ¾ lb.

## Olson Tape CARTRIDGE KIT



NOW! Assemble your own tape cartridge in minutes — and save.

All mechanical parts and materials to make a standard tape cartridge. Cartridge fits all standard cartridge recorders such as Viking, RCA, Bell and others. Complete with easy to follow instructions. Shipping weight ½ lb.

No. TA-48 **$1** PER KIT ..

(Less Tape)

Write for special large quantity prices

4 TAPE CARTRIDGE KITS plus 2400 FT. MYLAR TAPE. Shipping weight 3 lbs.

No. A5-734 **$5.91**

BLANK TAPE CARTRIDGE ASSEMBLED Loaded with 900 ft. 3M No. 150 Mylar.

No. TA-22 **$2.97**

## Recording Tape SPLICER

★ Steel Construction
★ Precision Made

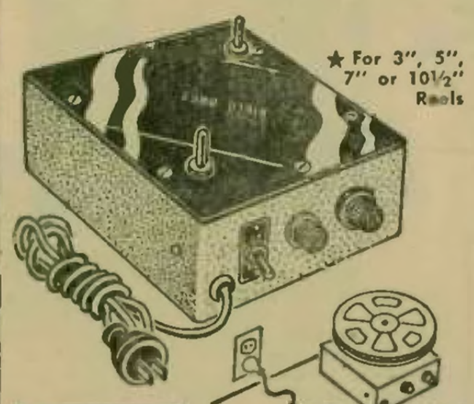


No. TA-117 **$2.49**

★ MADE IN ENGLAND

Made in England of the finest quality materials to give many years of trouble free use. Produces speedy, high quality splices with minimum effort. Convenient snap-tight clips hold tape firmly in place and perfectly aligned for strong noise-free splices. Cutting block has permanent guides for accurate trimming of splicing tape. All metal cutters and holder are mounted on wood base with heavy felt flocking, will not scratch or mar fine wood finishes. Size: 4⅝" x 1⅝" x 1". Shipping weight ¼ lb.

## Olson Bulk TAPE ERASER



★ For 3", 5", 7" or 10½" Reels

3 FOR $55 No. TA-7 **$18.95**

Will erase any magnetic recording tape from ¼" to 1" width. Just place the reel on spindle of the demagnetizer, slowly rotate 2 or 3 turns and tape is completely erased. Housed in rugged case with Power Switch. Fuse, Pilot Light, Spindle and A.C. cord. For 110-125 volts A.C. Size: 6¼" x 7¾" x 3". Shipping weight 10 lbs.

## Olson Bulk TAPE ERASER

★ Erase reel of tape instantly



3 FOR $35 No. TA-8 **$11.91**

Quickly and efficiently erases your recording tape to provide better, noise free recordings. Lowers signal-to-noise ratio and erases tape fully, without having to rewind on tape recorder. Can also demagnetize record and playback heads. For 110-125 volts A.C. Size: 4¾" dia. Shipping weight 6 lbs.

## Recording TAPE

Shield

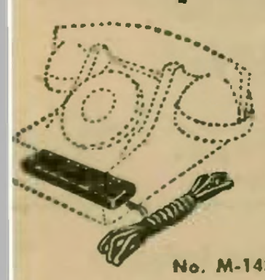
Finest mirror polished red oxide bonded to strong base. Response 50-15,000 cps. High Signal to noise ratio, low distortion and uniform output. Standard ¼" width on 7" reel for all recorders. Boxed. Shipping weight ¾ lb.




MADE IN U.S.A.

| Stock No. | Backing | Footage | Reel Size | 1 - 5 | 6 - 11 | 12 - 95 | 96 or more |
|---|---|---|---|---|---|---|---|
| X-249 | Acetate | 1200 Ft. | 7" | $1.99 Ea. | $1.69 Ea. | $1.49 Ea. | $1.30 Ea. |
| X-583 | Acetate | 1800 Ft. | 7" | 2.69 Ea. | 2.39 Ea. | 2.25 Ea. | 1.85 Ea. |
| X-692 | Mylar | 2400 Ft. | 7" | 3.99 Ea. | 3.79 Ea. | 3.69 Ea. | 3.00 Ea. |

## Flat Telephone PICKUP



Place under phone to hear both sides of telephone conversation. Connects to magnetic input of any amplifier or tape recorder. Size: 2½" x 1½" x ¾". Shipping weight ¼ lb.

No. M-143 Ea. **1.79**

## Telephone PICKUP

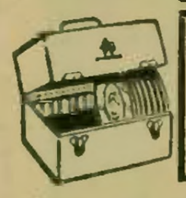
★ With Plug



Record or amplify both sides of a telephone conversation. No connection to telephone necessary. Has 6 ft. shielded lead ⅝" dia. x 2". Shipping weight ¼ lb.

No. M-133, 3 for $5.50 Ea. **1.89**

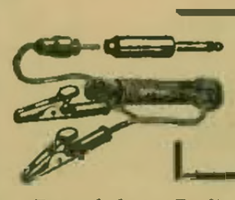
## Recording TAPE CHEST



No. X-547 **$2.99**

Holds 12-7" reels or cans. All steel, grey enamel. Double safety catch, folding handle. Shipping weight 4¾ lbs.

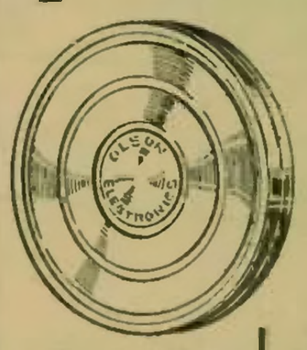
## Recorder PATCH CORD



No. W-269 **69c** 3 for $2.00

Record from Radio, TV or Phono. With pin plug, adapter & 2 clips. 6' long. Shipping weight ¼ lb.

## 7" Tape STORAGE CAN



Made in U.S.A.
★ STEEL CONTRUCTION

No. X-546 **ONLY 39c**

3 for $1.00
12 @ 30c ea.

Metal storage cans for popular 7" reels. Protects tape and seals out dust and moisture. Cans have interlocking rings so that they may be stacked on top of each other. Finished in blue enamel. Shipping weight ½ lb.

WRH

## Scotch

### SCOTCH RECORDING TAPE

No. 120 HIGH OUTPUT—Replaces 111A at no additional cost, gives higher signal, less noise.

No. 190 EXTRA PLAY—Gives 50% more recording time from standard reel, 1 mil platic base.

No. 150 EXTRA PLAY—1800', supersensitive, high potency oxide, on polyester mylar backing.

SAVE—ORDER BY THE DOZEN

| STOCK NO. | MFG. TYPE | SIZE | DIAM. | LOTS OF 1 - 11 EA. | LOTS OF 12 OR MORE |
|---|---|---|---|---|---|
| TA-13 | 120-6 | 600' | 5" | $1.47 | $1.32 |
| TA-14 | 120-12 | 1200' | 7" | 2.29 | 2.06 |
| X-468 | 190-18 | 1800' | 7" | 3.60 | 3.23 |
| X-707 | 150-18 | 1800' | 7" | 4.05 | 3.65 |

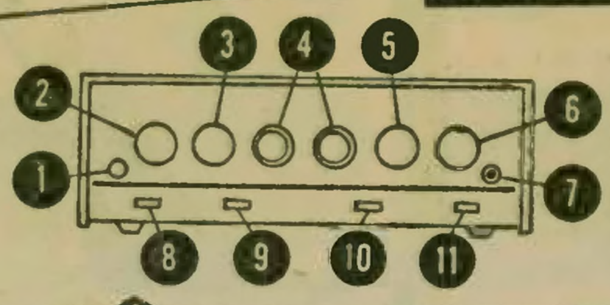
★ MADE IN U.S.A.

Olson Electronics AKRON, OHIO




Complete Set of Metal Knobs to Match Tuner Below
No. KN-19
$1.99

1—Pilot Lamp
2—Input Selector
3—Balance
4—Tone
5—Volume
6—Mode Selector
7—Stereo Headphone Jack
8—Rumble Filter
9—Loudness
10—Speaker—Earphone Selector
11—Power OFF-ON



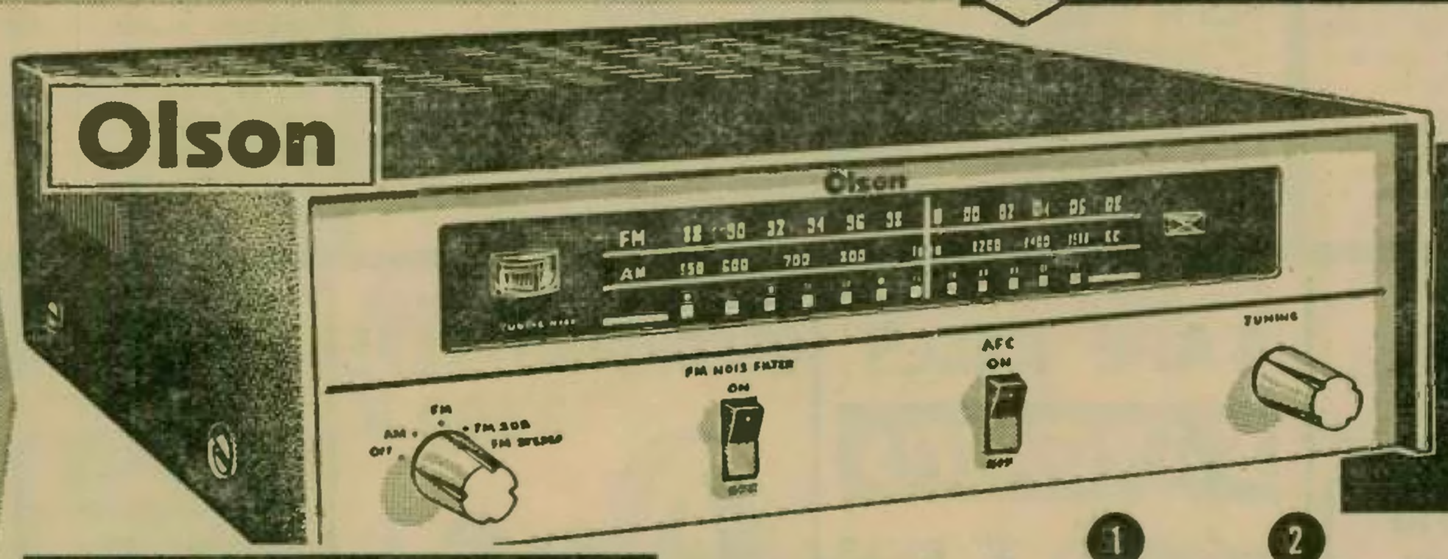

## "Classic" 30 WATT STEREO AMPLIFIER

No. AM-229
$69.98 WITH COVER
$7 MONTHLY

★ Stereo Headphone Jack
★ Resp.: 30-25,000 CPS

Olson's buying know-how and on-the-spot follow-through in manufacturing result in styling and performance that is second to none. Superior quality is evident even before you turn on the switch. One look at the elegant styling . . . the brushed aluminum panel . . . the handsome, textured finish cabinet and you know that here is an outstanding value. But appearance is only half of the story. This "Classic" amplifier has all the features and performance of amplifiers selling for much more than Olson's low price. Specifications: Power Output 30 watts, 15 watts per channel. Frequency response: ± 0.5 db., 30 to 25,000 cps. Harmonic distortion: less than 1% at 10 watts. Hum and Noise: more than 40 db. below rated output. Output Impedance: 4, 8, and 16 ohms. Tape Output: high impedance. Tube Complement: 2-12AX7, 4-6BH8, and 1-6CA4. Power Supply: 110-120 volts A.C. 60 cps. Dimensions: 14¾" W. x 9⅜" D. x 5⅛" H. with legs. Shipping weight 23 lbs.

BOTH FOR $142 ORDER No. AS-861




## "Classic" FM-AM-FM STEREO TUNER

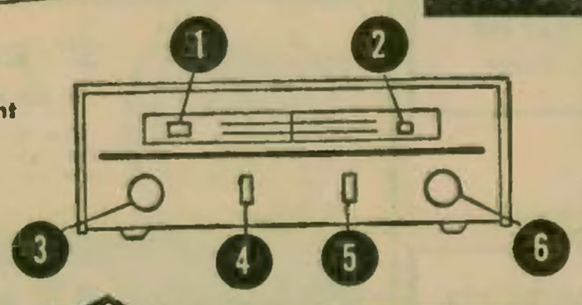
No. RA-580
$79.98 WITH COVER
$8 MONTHLY

★ Brushed Aluminum Panel
★ Built-In Tuning Meter

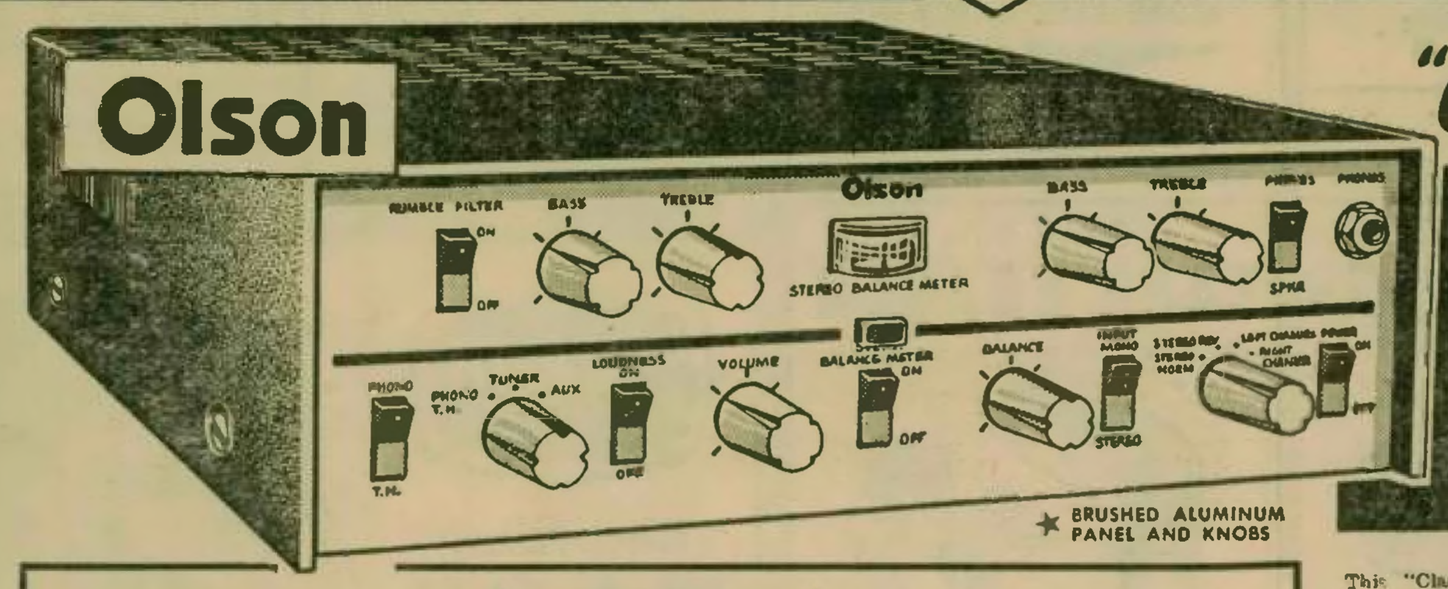
Stereo station selector lets you select only those stations that are broadcasting stereo. No more guess work, no lights, no meters to watch. Just turn to "FM-SUB" and tune across the dial . . . Only stereo stations will be heard. An excellent multiplex circuit has been incorporated into the design in order to make possible the finest reception of FM Multiplex Stereo Broadcasts. Also receives standard FM and AM broadcasts with utmost clarity. Truly effective AFC locks in even the most difficult stations. FM noise filter eliminates hum and noise caused by reflected radio waves. Specifications: Sensitivity: 2uv. for 20 db signal to noise ratio. FM, IF Band Width: 200 KC. Response: FM, 20-20,000 cps. Image Rejection: better than 40 db. Ferrite loopstick antenna for AM. Tubes: 1-6AL5, 3-6AU6, 1-6X4, 2-6BA6, 1-12AT7, 1-6BE6, 1-6BN8, 1-12AU7 and one 6R-HH2. Size: 14¾" W. x 10⅝" D. x 5⅛" H. with legs. For 110-125 volts AC, 60 cps. Shipping weight 18 lbs.

OLSON EXCLUSIVE!
OLSON Exclusive Stereo Station Selector. No lights, no whistles, no fumbles. Turn on switch, tune only Multiplex (Stereo) Stations.
BUILT-IN MULTIPLEX

1—Tuning Meter
2—Stereo Pilot Light
3—Stereo Station Selector
4—FM Noise Filter
5—AFC
6—Tuning




BOTH FOR $172 ORDER No. AS-862




★ BRUSHED ALUMINUM PANEL AND KNOBS

## "Classic" 50 WATT STEREO AMPLIFIER

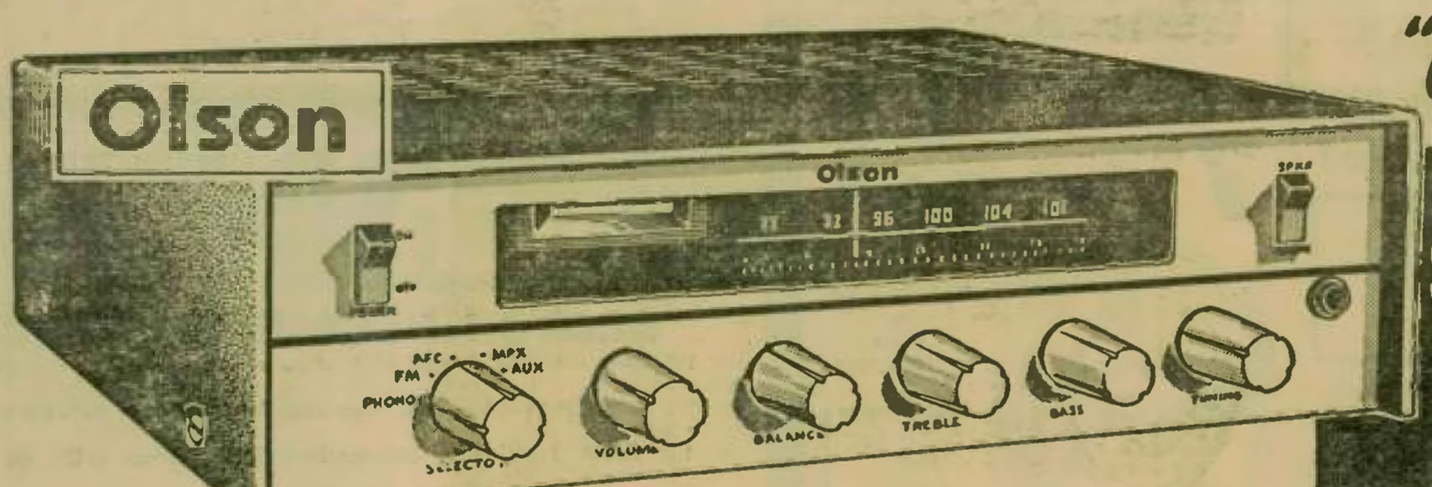
No. AM-240
$99.98 WITH COVER
$10 MONTHLY

★ Brushed Aluminum Panel
★ Response 15 to 40,000 CPS
★ Stereo Headphone Jack
★ Balance Meter

This "Classic" stereo amplifier is completely new from cover to output terminals. Truly an outstanding example of advanced style and design. Handsome front panel of brushed aluminum is accented by polished aluminum knobs and all new rocker switches. Cabinet is texture finished in gray with ventilating louvers for cool efficient operation. Electronically this is one of the finest amplifiers we have ever had the pleasure of listening to. Features individual treble and bass controls for each channel plus volume and balance. Selector switch selects: magnetic phono, tape head, tuner and aux. New easy to use rocker switches operate: loudness, meter (off-on), mono/stereo, earphone/speaker, rumble and phono/tape head. Shipping weight 30 lbs.

★ SPECIFICATIONS ★

- POWER OUTPUT: 50 watts, 25 per channel
- HARMONIC DISTORTION: less than 1%
- OUTPUT IMPEDANCE: 4, 8, and 16 ohms
- CHANNEL SEPARATION: Greater than 50 db.
- HUM & NOISE: 75 db. below rated output
- TUBES: 5—12AX7, 4—7189 plus silicon rectifiers
- SIZE: 14¾" W. x 10⅝" D. x 5⅛" H. with legs
- POWER SUPPLY: 110-125 volts A.C. 60 cps.




## "Classic" FM-FM STEREO TUNER & STEREO AMPLIFIER

No. RA-581
$89.98 WITH COVER
$9 MONTHLY

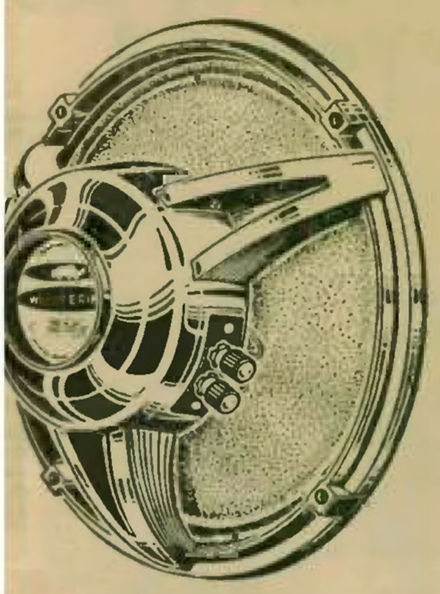
11 Tubes—18 Tube Performance

★ Magic-Bar Tuning Indicator
★ 15 Watt Stereo Amplifier
★ Built-in Multiplex Stereo
★ Stereo Headphone Jack

Studio quality and elegant styling combined at a unbeatable Olson price. 15 Watts Stereo music power combined with an extremely sensitive FM tuner provides the basis for the finest home or professional music system. Every styling appointment and every advancement in electronic circuitry has been designed into this stereo receiver to give you the utmost in beauty and performance. Super sensitive tuner receives FM and FM multiplex. Magic bar tuning indicator assures positive on-station tuning. 8 controls provide every desired adjustment for the most critical listener, 11 tubes give 18 tube performance. Power supply uses silicon diodes for cool efficient operation. Specifications: POWER OUTPUT: 15 watts, 7½ watts per channel. FREQUENCY RESPONSE: ±3 db, 50 to 20,000 cps. HARMONIC DISTORTION: less than 2%. OUTPUT IMPEDANCE: 4, 8 and 16 ohms. CONTROLS: Selector: phono, FM, FM/AFC, MPX, AUX. Volume, balance, treble, bass, tuning, power and speaker/headphone. POWER SUPPLY: 110-125 volts A.C. 60 cps. TUBE COMPLEMENT: 2—6AQ8, 1—6BA6, 2—12AX7, 2—6AU6, 1—12AU7, 2—6BN8 and 1—6RE13. Size: 15⅞" W. x 10½" D. x 5" H. Shipping weight 19 lbs.

Paul Bizjak, 2924 Olive St., Racine, Wis., wins choice of merchandise worth $5 from Olson's "Treasure Hunt." See back cover for instructions.

# Electro-Voice

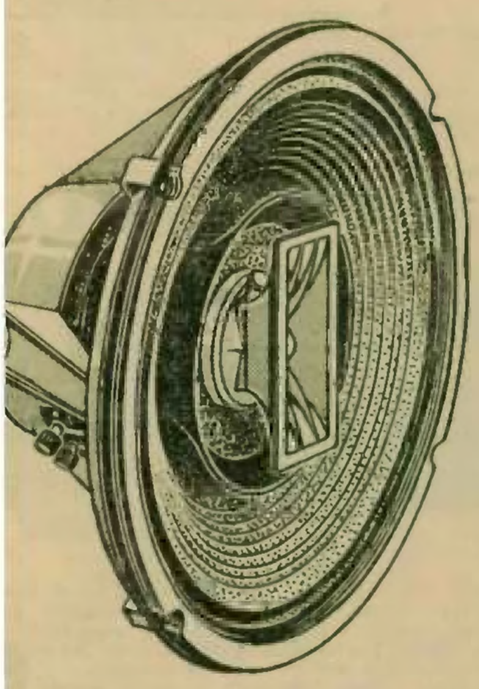


## Electro-Voice
## 12" WOLVERINE
MODEL LS-12

Mfgr's 1964 List $20.58

**$16.46** No. S-338

BUY NOW DURING THIS SENSATIONAL SALE! Features dual cone design which delivers a clean, smooth response of 40 to 14,000 cps. Powerful, boom-free woofer cone has a resonant frequency of 65 cps. Power capacity, 20 watts. Mechanical crossover, 4500 cps. Impedance, 8 ohms. Low-silhouette, heavy-duty frame results in permanent centering of all elements for distortion-free sound. Depth, 3⅝". Shpg. wt. 10 lbs.



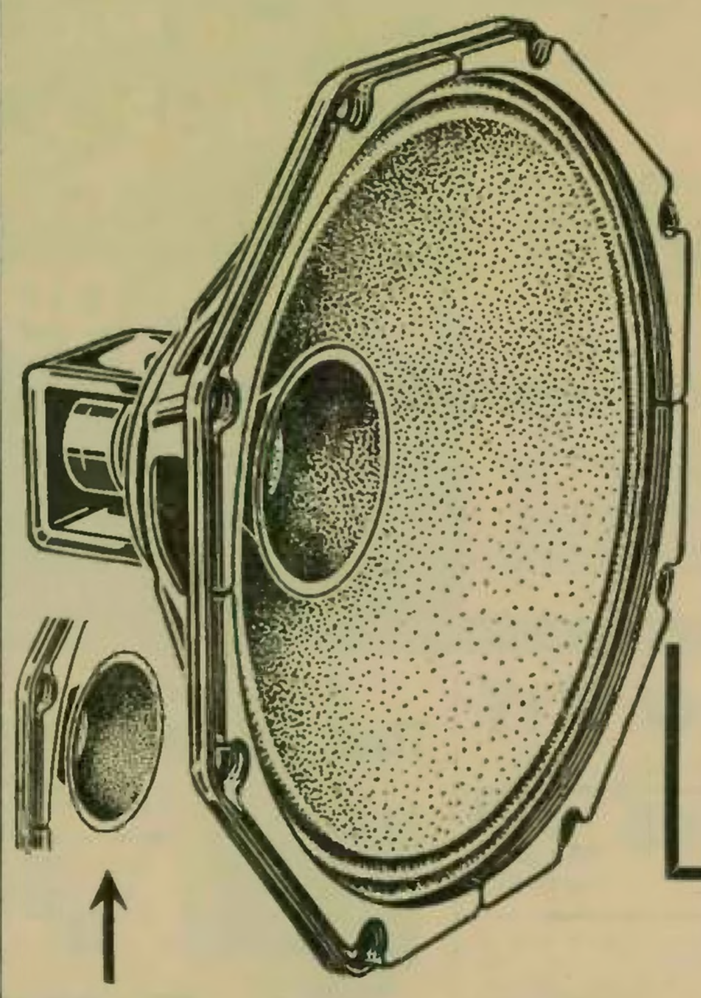
## Electro-Voice
## 12" 3-Way Wolverine
MODEL LT-12

Mfgr's 1964 List $31.36

**$24.99** No. S-473

Features the integral sonophase VHF driver which furnishes the highest audible frequencies. Response 40 to 18,000 cps with crossover point of 3500 cps. 8 ohms. Woofer voice coil 2" diameter, tweeter 1". Handles 20 watts of music program, 40 watt peak. Rigid die-cast frame with 12 oz. magnet. Built-in high frequency control with horn type tweeter. Use two for a balanced stereo system. Shipping weight 14 lbs.

# Norelco
# 8" SPEAKER



## WHIZZER CONE

## MODEL AD-3800

★ Response: 60-19,000 CPS

★ Ticonal Magnet

★ Power Capacity: 8 Watts

No. S-278

**$4.99**

STEREO PAIR $9

Precision made 8" speaker with coaxially mounted dispersion cone. Imported from Holland. Ideal for stereo and hi-fi extension speakers or PA and intercom installations. Size: 8" x 3⅜". Impedance: 8 ohms. Shipping weight 3 lbs.

24 Ga. Speaker Cable, 53 Ft. No. W-361 ..... 99c

Crossover Capacitor Kit, No. AS-552 ..... $1.50

Walt Radio Shop, PO Box 609, Chester, Calif., wins choice of merchandise worth $5 from Olson's "Treasure Hunt." See back cover for instructions.

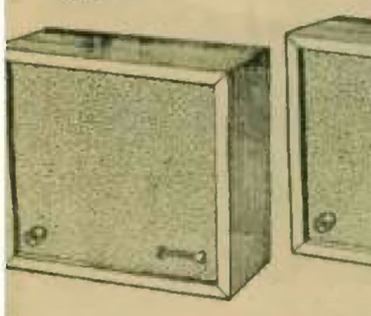


# STEREO
## ON A BUDGET

No. AS-841

**$69.99**

$7 MONTHLY



### HERE'S WHAT YOU GET:

| | |
|---|---|
| 1—15 Watt Stereo Amp. No. AM-217 (below) | $34.98 |
| 1—PE 4-speed Changer No. RP-250 (pg. 9) | 18.00 |
| 2—Sonora 8" Speakers & Baffles No. S-539 (pg. 11) | 23.00 |
| Total Regular Catalog Price | $75.98 |

★ Accessories ★

| | |
|---|---|
| Changer mounting base, CA-260 | $3.88 |
| 45 RPM adpt. spindle, No. RP-240 | 2.49 |
| A.C. line cord, No. W-43 | .29 |
| 2—5-ft. Audio cables, W-321 2 for | 1.30 |



## Olson 15 WATT STEREO AMPLIFIER

This compact stereo amplifier really packs a punch. All the features—all the flexibility of the "BIG ONES" at a fraction of the price. Built-in pre-amps to accommodate any magnetic cartridge. Output impedance 4, 8 d 16 ohms. Has standard 3 circuit jack for most stereo headphones. Handsomely styled, ein finished in gold and contrasting brown. With metal cabinet. SPECIFICATIONS: utput: 15 watts, 7.5 watts per channel. Frequency Response: 20-20,000 CPS. Power upply. 110-125 volts 50/60 CPS. Dimensions: 12⅝" x 3¼" x 8⅛". Shpg. wt. 16 lbs.

AM-217 ..... **$34.98**

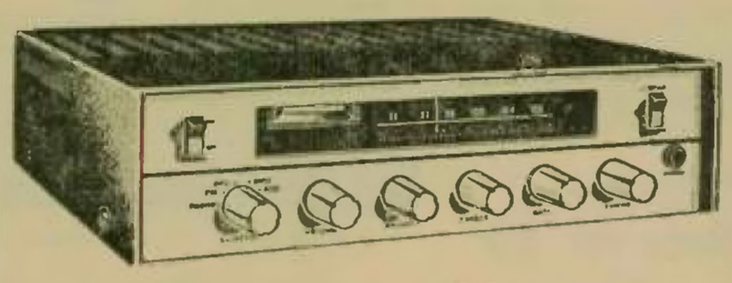
## Olson/Perpetuum-Ebner/Sonora
# 15 Watt STEREO SYSTEM

### ALL NAME BRANDS

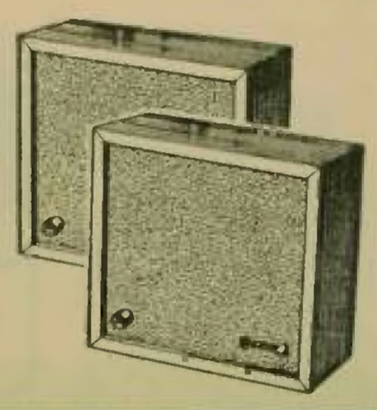
★ Olson FM-FM-Stereo Receiver

★ Perpetuum-Ebner 4-Speed Automatic Changer

★ Sonora 8" Speakers & Oiled Walnut Cabinets







## COMPLETE
## $124

No. AS-909

No Money Down — $8 Monthly

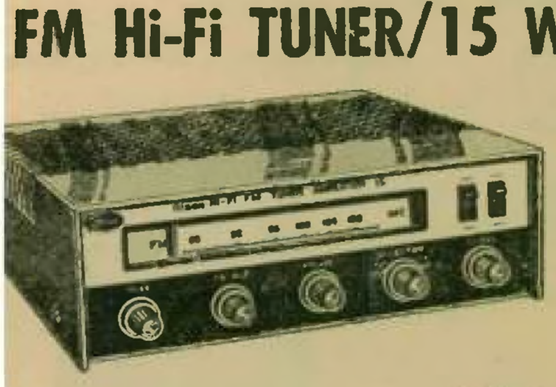
### System Consists Of:

| | |
|---|---|
| 1—15 Watt Tuner/Amp. No. RA-581 (pg. 4) | $89.98 |
| 1—Stereo Changer, No. RP-250 (pg. 9) | 18.00 |
| 2—8" Speakers & Baffle, No. S-539 (pg. 11) | 23.00 |
| Total Regular Catalog Price | $130.98 |

★ ACCESSORIES ★

| | |
|---|---|
| Mounting Base, No. CA-151 | 4.88 |
| 45 RPM Spindle, No. RP-228 | 3.80 |

## Olson
# FM Hi-Fi TUNER/15 Watt AMPLIFIER



**$69.95** No. RA-550

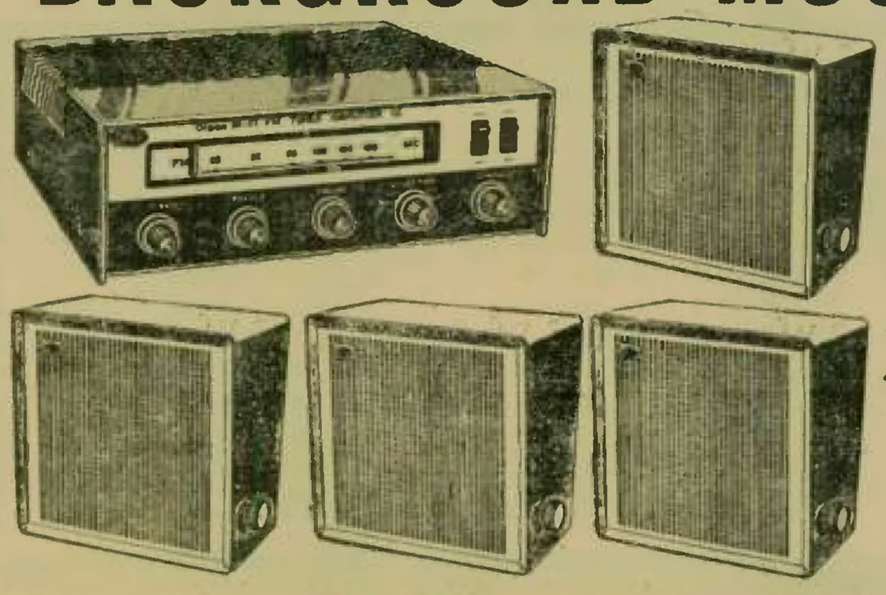
$7 MONTHLY

The flawless styling and brilliant performance makes this FM tuner-amplifier an ideal unit for any home music system. Olson FM tuner-amplifier is also ideally suited for background music in doctor or dentist's office and waiting rooms or can be used in factories or restaurants. The FM reception provides a constant source of ever changing high fidelity music. You can plug in your record changer or tape recorder to play your choice of music. The amplifier is equipped with input for ceramic cartridge and pre-amplified input for magnetic phono cartridges. Tuner has Multiplex jack for FM stereo reception. Add this to your present high fidelity system to convert to stereo. Shipping weight 18 lbs.

**Provisions for Multiplex**
**Switchable A.F.C. —**

Sensitivy: 3 microvolt for 20 db quieting
A.F.C.: Reactance tube system
INPUTS: Mag. 5MV., Tape Aux. 100 MV.
OUTPUTS: 8 Ohms and 70.7 V. line
Resp.: ± 1 db 20-20,000 CPS at 1 Watt
POWER SUPPLY: 110-125 V. AC, 60 CPS
SIZE: 11⅞" W x 9¼" D x 4⅛" H

# BACKGROUND MUSIC SYSTEM



*Save Real $$$ on Olson's Low Prices!*

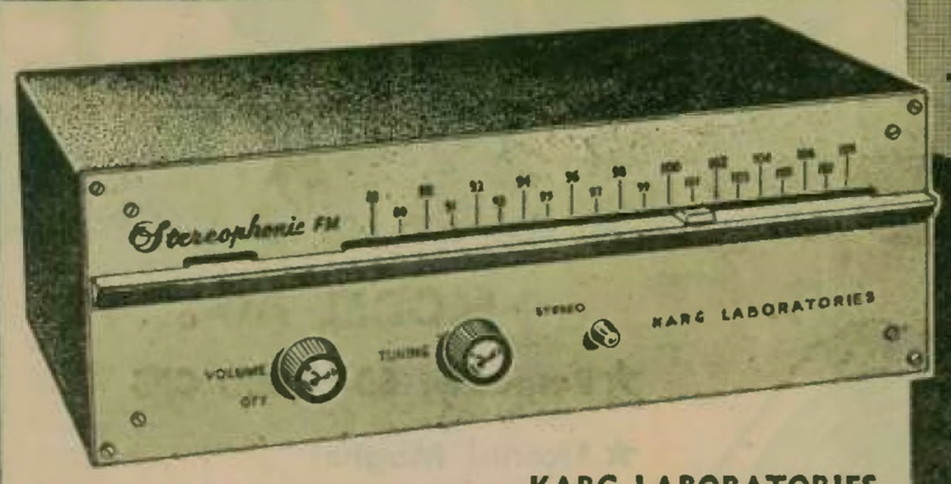
No. AS-843
$10 MONTHLY
ALL 5 UNITS
**$94**

### HERE'S WHAT YOU GET:

| | |
|---|---|
| 1—RA-550 FM Turner & Amplifer (at left) | $69.95 |
| 4—S-409 8" Speaker & Baffle (pg. 14) | 4 for $34.66 |
| Total Regular Catalog Price | $104.61 |

**Olson Electronics**
AKRON, OHIO 7

# EXCLUSIVE *Special Purchase*




**LESS THAN HALF OF THE MANUFACTURERS ORIGINAL PRICE**

Mfgr's 1963 SELLING PRICE ~~$149.50~~

No. RA-622

**$69.99**

$7 MONTHLY

NO MONEY DOWN

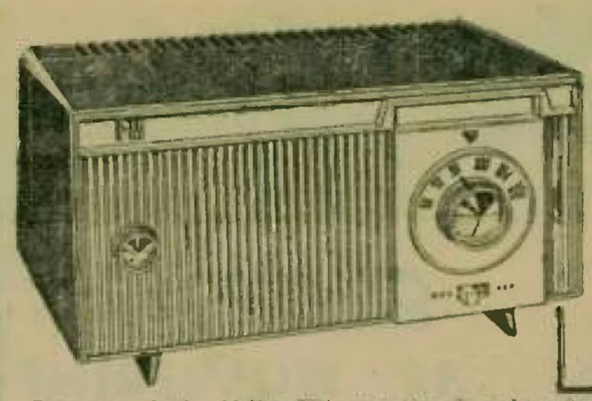
KARG LABORATORIES

## FM/FM STEREO TUNER

★ Gold Anodized Panel ★ Award Winning Design
★ Latest Multiplex Circuitry ★ Made In U.S.A.

Only a limited number are available and they won't last long at this low, low price. From the award winning styling to the outstanding performance, this is truly the most outstanding value anywhere. Features an automatic indicator which lights up when you tune in a multiplex (stereo) FM station. Automatic switching makes changeover from regular FM to FM stereo automatically. Low noise RF amplifier brings in even the distant stations with ease. Smooth action flywheel tuning on 9" slide-rule dial provides unusual accuracy. This fine tuner is equipped with a separate monophonic output jack as well as stereo outputs. Has built-in antenna plus provisions for external antenna. Specifications: Sensitivity: 2.2 uv, IHFM; 0.8 uv. for 20 db. quieting. Response ± 1 db, 40-15,000 cps. Hum and noise: —48 db. with 50 mv. input. Distortion: less than 1.5%. Separation: 30 db. Size: 13⅝" W. x 5½" D. x 5" H. For 110-125 volts A.C. 60 cps. Includes metal cover. Shipping weight 13 lbs.

## FM TABLE RADIO

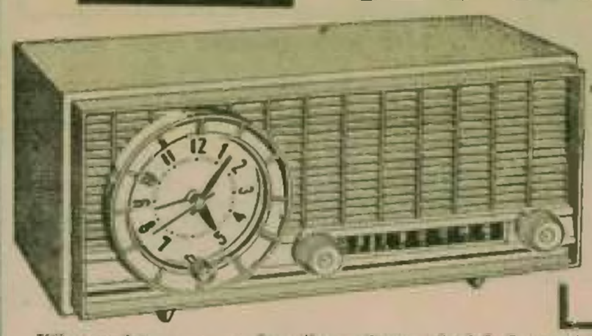


★ 5 Tubes Plus 2 Diodes
★ AFC with Defeat Switch

No. RA-606 ONLY **$17.88**

Luxurious high fidelity FM reception is achieved by use of the latest engineering advancements. Employs 5 tubes, 2 diodes, 1 AFC silicon diode and 1 silicon rectifier. AFC with defeat switch makes tuning easy and eliminates drift. Handsome neutral tone cabinet with gold inlay knobs is accented by red pilot light. Complete with antenna and UL approved safety interlock type linecord. Don't pass up this fantastic FM radio value—at this low, low price you can have FM at your finger tips in every room of the home. Size: 9½" W. x 5" H. x 4½" D. For 110-125 volts AC, 60 cps. Shipping weight 4 lbs.

## TRAVLER CLOCK RADIO

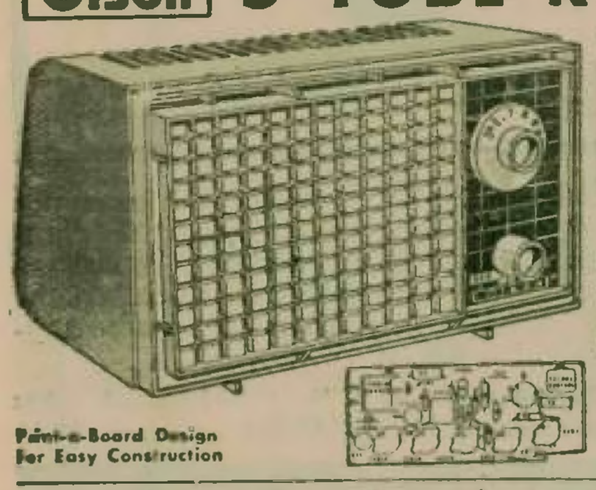


★ "Quick Tune" Slide Rule Dial
★ Alnico V Speaker

No. RA-597 **$14.99**

Why wake up to a jangling alarm clock? Instead, wake up gently to your favorite music. Powerful superheterodyne circuit for unmatched sensitivity. "Quick-Tune" slide rule vernier dial provides easy accurate tuning. Improved automatic volume control circuit insures steady, clear tone. Features built-in precision loop antenna for strong pickup. Genuine Telechron clock automatically turns on radio at preset time. Beautiful slim-line styled cabinet. Size: 5⅜" H. x 12¾" W. x 6" D. For 110-125 volts A.C. 60 cps. Shipping weight 5 lbs.

## Olson 5 TUBE RADIO KIT



Print-a-Board Design for Easy Construction

★ Printed Circuit

**$8.98** No. KB-150 (Less Tubes)

The mounting of each part is a simple operation because of the specially designed "Print-a-Board" circuit board layout employed, coupled with the easy to follow "Quick-Step" instructions. The high gain tubes, IF transformers and ferrite bar antenna result in excellent sensitivity. 4" PM speaker. 110-125 volts AC or DC. Shipping weight 5 lbs.

KIT OF 5 TUBES FOR ABOVE No. AS-533 ..... Per Kit **$2**

## Sonora—Telechron Timer – ALARM CLOCK



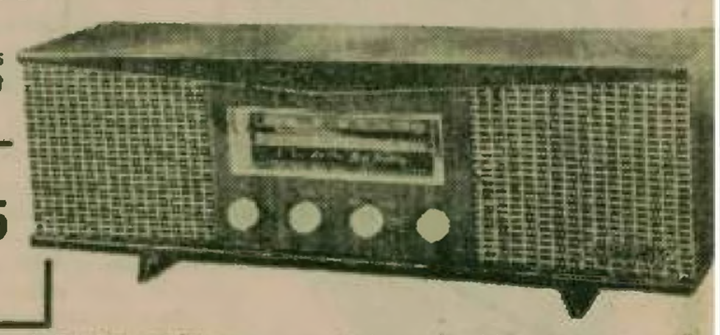
★ Walnut Cabinet
★ Luminous Hands

No. X-930 **$11.95** Plus 10% F.E.T.

Deluxe timer switch handles up to 1000 watts. Has 60 minute timer which shuts off automatically at the end of time cycle. Timer can also be set to turn on appliance or radio at any pre-set time. Can be used with or without built in alarm. Beautiful handrubbed oiled walnut cabinet. Size: 4¾" x 4¾" x 2½". 110-125 v. AC, 60 cps. Shipping weight 3 lbs.

## Marvel FM-AM RADIO

★ AFC
★ Dual Speakers
★ Wood Cabinet
★ Tone Control

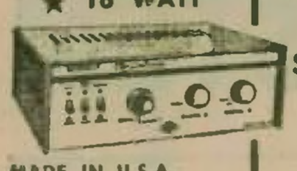


No. RA-618 **$29.95**

Beautiful styling and flawless performance are combined in this unusual value from Olson. Genuine wood cabinet is finished in gleaming walnut, accented with black and gold trim. 5½" slide-rule dial makes tuning your favorite stations quick and positive. Tone control adjusts to suit your individual taste. Features AFC to "lock-in" even the weakest FM stations. Has built-in antenna for AM and short wire antenna for FM. No outside antenna is necessary for most areas. Dual four inch speakers deliver full rich tone at room filling volume. Size: 19⅝" W. x 7" H. x 5¼" D. For 110-125 volts AC, 60 cps. Shipping weight 9 lbs.

## MERRELL Stereo Amplifier Kit

★ 16 WATT



MADE IN U.S.A.

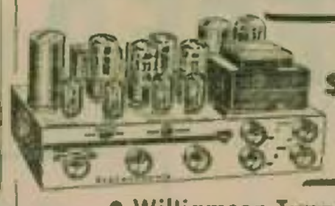
No. KB-151 **$29.95** Lots of 3, Ea. $29 (Less Cover)

Complete with large, clear, step-by-step instructions. Power Output: 8 watts per channel. Peak Power Output: 16 watts each channel; 32 watts combined peak power. Frequency Response: 20 to 20,000 CPS. Inputs: 4 (3 pairs) mag. phono/tape, tuner, crystal phono. Output Impedance: 8 ohms. Tubes: 2—7025/ECC83/12AX7; 2—EL84/6BQ5; 1—5Y3 rectifier. Size: 12¾" wide x 8" deep x 4¼" high. 110-125 Volts AC, 50-60 CPS. With tubes and instructions. Shipping weight 13 lbs.

COVER FOR AMPLIFIER No. CA-268 ..... $4.95

## MERRELL Stereo Amplifier Kit

★ 30 Watts ★ Made In U.S.A.



No. KB-84 **$39.95** Lots of 3, Ea. $39

• Williamson Type Circuit
• 15 Watts Per Channel

Response 20 to 20,000 CPS. Separate bass and treble controls, balance blend control, dual ganged loudness control, and input selector control. Front panel stereo reverse and equalization switches. Inputs for magnetic phono, tape, crystal phono, tuner, and aux. Williamson design output transformers are taped at 4, 8, and 16 ohms. Tubes 2—12AX7, 2—12AT7, 4—7408, 1—5U4. Size: 14" W x 8" D x 6" H. For 110-125 volts A.C. 50-60 CPS. With tubes and instructions. Shipping weight 15 lbs.

## Sonora Timer – ALARM CLOCK

★ Dependable Telechron Movement
★ Controlled Outlet

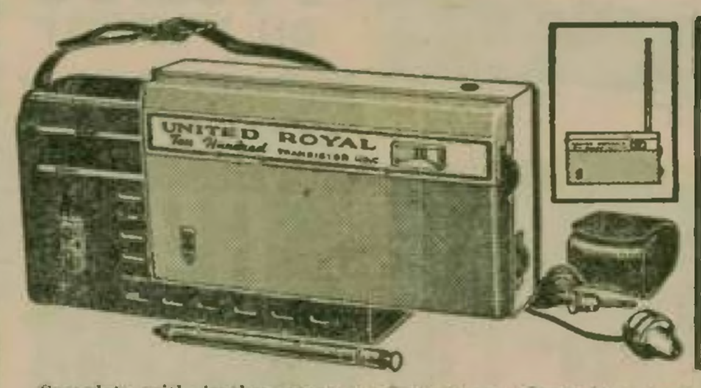


No. X-901 **$8.80** Plus 10% F.E.T.

Can be used as timer only or timer with alarm. Has 60 minute timer for automatic shut-off of radio or appliance. Appliance will come back on at any pre-set time with or without alarm. For 110-125 volts AC, 60 cps. Shpg. wt. 3 lbs.

## 9 TRANSISTOR RADIO

• Earphones, Batteries & Case
• Telescoping Antenna



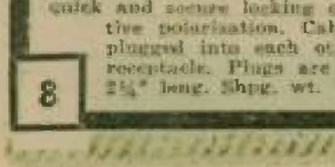

No. RA-578 **SALE** reg. $13.66 **$11.99**

Complete with leather case, earphone case, telescoping antenna and batteries. Latest superheterodyne circuit with 9 transistors and one diode give superior selectivity and sensitivity. Telescoping antenna can be attached to top of radio for really distant stations. Acoustically matched, powerful 2¾ in. PM speakers delivers clear undistorted sound. Operates on 4 standard pentlight cells (included). Size: 5⅞" W x 3½" H x 1¾" D. Shipping weight 5 lbs.

Extra Batteries for above (4 req'd) No. BA-67 ..... 8 for 59

## MERRELL 12-Watt Amplifier Kit

★ Williamson Type Circuit



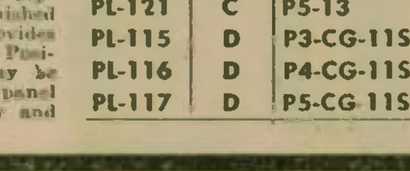
MADE IN U.S.A.

No. KB-68 **$19.66** Lots of 3, Ea. $19

Response ± 1DB 20 to 20,000 CPS, 4 inputs: magnetic phono; tape; crystal phono; tuner/radio; mike/aux. Output impedances: 4, 8, and 16 ohms, special design Williamson type output transformer, 4 controls, function, loudness, bass, treble/power switch. 8 tubes: 1—12AX7/ECC83, 1—12AT7, 2—6V6 and Rectifier Tubes. Size: 14" x 7". 110-125 V. A.C., 50-60 CPS. With tubes and instructions. Shipping weight 11 lbs.

## MERRELL Stereo Receiver Kit

• Made in U.S.A.



No. KB-165 **$89.95**

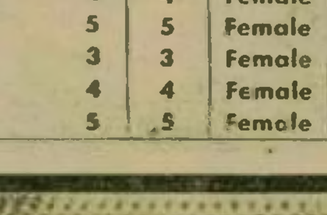
• 20 Watt Stereo Amplifier
• Prewired Multiplex Circuit

A complete stereo center in easy-to-build kit form. Power output 20 watts (10 per channel). Frequency response of tuner 20-20,000 cps. Amplifier, 20-18,000 cps. Tuner sensitivity: 1.4 uv. for 20 db. quieting. Tubes: 1-ECL85/6AQ8, 1-6BA6, 2-6AU6, 3-EL84/6BQ5, 1-7025/ECC83/12AX7, 4 diodes. For 110-125 volts AC, 50-60 cps. Shipping weight 25 lbs.

Metal Cabinet for above, No. CA-303 ..... $8.95

## FM Monitoring Receiver

• 4" PM SPKR. • 152-174 MC

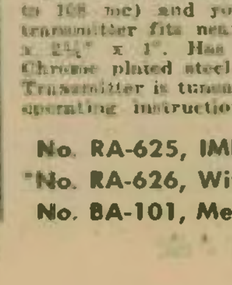


TUNE IN: Police Calls, Mobile Telephone Calls, Fire Department Calls

No. RA-561 **$50**

You will hear the news in the making. Features temperature compensated superheterodyne circuit for no drift. Ratio detector circuit minimizes noise under "no signal" conditions. Size: 9½" x 6" x 5½". For 110-125 volts AC, 60 cps. Shpg. weight 9 lbs.

## FM-AM Transistor Portable RADIO



• 10 TRANSISTORS
• Telescoping Antenna

No. RA-613 **$34.88**

Features: sturdy telescoping antenna, signal locking AFC, deluxe heavy magnet speaker, high-impact leather-finish cabinet, pop-up carrying handle and earphone. Operates on four standard pen-light batteries (included). Size: 4½" x 6½" x 2¼". Shp. wt. 2¾ lbs.

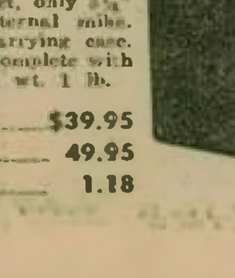
Extra Batteries (4 req'd) No. BA-67 ..... 8 for 59c

12 TRANSISTOR FM-AM PORTABLE RADIO

Similar to above but has greater sensitivity.

No. RA-614 ..... **$39.88**

## 6 Transistor RADIO



★ Built-in Speaker
★ With Battery, Earphone & Case

No. RA-544 **$8**

A handsome personal radio with 6 transistors and germanium diode in a powerful superheterodyne circuit—a total of 7 semi-conductors. Features push-pull audio output, built-in PM speaker, personal earphone jack and carrying case. Tunes standard broadcast band. Size: 2⅝" W x 4⅞" H x 1¼" D. Styles may vary slightly. Shipping weight 2 lbs.

## ELCO AUDIO PLUGS

(Equivalent to Cannon P and PCG Series)




Will handle up to 20 amps. Contacts are silver-plated brass, with a silver-plated beryllium copper spring added to the female contacts. Finished in satin chrome. A latch lock device provides quick and secure locking of a mated pair. Positive polarization. Cable connectors may be plugged into each other or into the panel receptacle. Plugs are 1⅛" in diameter and 2¼" long. Shpg. wt. ½ lb. ea.

| OLSON STK. NO. | FIG. | EQUIVALENT CANNON NO. | ELCO NO. | PINS | TYPE | OLSON PRICE |
|---|---|---|---|---|---|---|
| PL-110 | A | P3-14 | 3 | 3 | Male | 1.15 |
| PL-111 | A | P4-14 | 4 | 4 | Male | 1.30 |
| PL-123 | B | P2-CG-12S | B-2212-2 | 2 | Male | 1.65 |
| PL-124 | B | P3-CG-12S | 3 | 3 | Male | 1.75 |
| PL-125 | B | P4-CG-12S | 4 | 4 | Male | 1.85 |
| PL-126 | B | P5-CG-12S | 5 | 5 | Male | 1.95 |
| PL-119 | C | P3-13 | 3 | 3 | Female | 1.70 |
| PL-120 | C | P4-13 | 4 | 4 | Female | 1.80 |
| PL-121 | C | P5-13 | 5 | 5 | Female | 1.90 |
| PL-115 | D | P3-CG-11S | 3 | 3 | Female | 2.20 |
| PL-116 | D | P4-CG-11S | 4 | 4 | Female | 2.30 |
| PL-117 | D | P5-CG-11S | 5 | 5 | Female | 2.40 |



## KX Kinematix 'IMP II' FM WIRELESS *MIKE






Use With Any FM Radio

**$39.95**

★ Response 30-20,000 cps.
★ Completely Transistorized
★ Made in U.S.A.

Just tune any blank spot on the standard FM dial (88 to 108 mc) and you're on the air. This complete FM transmitter fits neatly into your shirt pocket, only 3⅛" x 2¼" x 1". Has input for optional external mike. Chrome plated steel case includes leather carrying case. Transmitter is tunable from 88 to 108 mc. Complete with operating instructions (less battery). Shpg. wt. 1 lb.

No. RA-625, IMP-"II" (Less Mike) ..... $39.95
*No. RA-626, With Built-In Mike ..... 49.95
No. BA-101, Mercury H-133 Battery ..... 1.18

# 45 RPM Portable TURNTABLE




MADE IN ENGLAND

**No. RP-252**

**$4.99**

- ★ 6 VOLT DC MOTOR
- ★ CERAMIC CARTRIDGE
- ★ DUAL LP STYLUS

C. H. Henry, HF & Co A-201, St. Maint DN, Ft. Campbell, Ky., wins choice of merchandise worth $5 from Olson's "Treasure Hunt." See back cover for instructions.

The most unusual turntable we have ever offered. Ideal for use in portable or mobile equipment. Motor operates on one 6 volt battery or 4 flashlight batteries in series. It can also be used on 12 volts DC by inserting a 10 watt 100 ohm resistor in series with the motor lead. Plug-in ceramic cartridge is equipped with 2 sapphire needles. When one side wears out you just unplug the cartridge, turn it over and plug back in and you have a brand new needle. To start turntable you flip needle guard back which brings tone arm up to play position, move tone arm to right which turns on power and place the arm on the record. The motor will turn off automatically at the end of the record. Size: 7⅝" W. x 5⅞" D. x 2¾" H. Shipping weight 2 lbs.

PLASTIC DOME PROTECTS CARTRIDGE WHEN NOT IN USE

NEEDLE GUARD AND BRUSH

NEEDLE POINT BEARING

AUTOMATIC SHUT-OFF LEVER

## ★ BUILD YOUR OWN PORTABLE PHONO ★




| | |
|---|---|
| 2-Watt All Transistor AMPLIFIER No. AM-218 (page 10) | 8.40 |
| 6-Volt BATTERY, No. BA-90 | 90c |
| 4" PM SPEAKER No. S-564 (Page 12) | 99c |






Design and build your own portable 45 RPM Phono ... A PERFECT KIT PROJECT!



PERPETUUM-EBNER

## STEREO CHANGER

**No. RP-250**

**$18**

- ★ 4-Speed Automatic
- ★ Rugged 4-Pole Motor
- ★ Imported from Western Germany
- ★ With Ceramic Turnover Cartridge

Made in Europe by carftsmen who take great pride in quality workmanship. Every detail of construction is painstakingly followed to give you absolutely flawless performance. Change cycle is carefully timed to handle your records with the utmost care. Balanced tone arm equipped with stereo ceramic turnover cartridge, gives light, skip-free tracking. Easily adjusted to meet any cartridge compliance requirement. Large turntable and heavy-duty 4-pole motor give smooth, quiet operation that is free from rumble or wow. Turntable top has non-slip foam-rubber mat. Neutral position on speed selector disengages drive wheel to prevent flat spots. Plays all size records, both stereo and monaural with utmost clarity and fidelity. Automatic shut-off after last record. Four speeds 78, 45, 33⅓ and 16 RPM. Size: 13" x 10⅝" x 5¾" above mounting board and 3¾" below. 110 to 125 volts AC 60 CPS. Shipping weight 12 lbs.

| | | | |
|---|---|---|---|
| Mounting Base, No. CA-260 | $3.88 | AC Line Cord, No. W-43 | .29 |
| 45 RPM Spindle, No. RP-240 | 2.49 | 2-5 Ft. Audio Cables, No. W-321 | 2 For 1.30 |

# Garrard STEREO Record Changers

Garrard Changer & Cartridge

## COMBINATION DEALS

Your Choice of Stereo Cartridge Below Only 1c Extra With Purchase of Any GARRARD CHANGER!

| SHURE M3D | PICKERING U38/AT | EMPIRE 880 |
|---|---|---|
| Reg. $15.88 | Reg. $16.88 | Reg. $17.95 |

★ See Page 10 For Specifications

## VM Stereo CHANGER

MADE IN U.S.A.



**No. RP-176**

**$24.95**

**3 for $69**

Famous VM four-speed record changer with stereo cartridge. Plays manually or automatically and shuts off after last record has played. Heavy duty motor drives large, rubber matted, weighted turntable. Plays all 7", 10" and 12" records at all four speeds. (16⅔, 33⅓, 45 and 78 RPM). Size: 11⅜" x 13⅛". For 110-125 volts A.C., 60 CPS. Shipping weight 13 lbs.

★ ACCESSORIES ★

| | |
|---|---|
| Mounting Base, No. CA-65 | 4.88 |
| 45 RPM Spindle, No. RP-106 | 2.99 |
| Line Cord, No. W-43 | .29 |
| Phono Cord, No. W-321 | .65 |

## BSR STEREO CHANGER

Model UA-15 ★ MADE IN ENGLAND



**No. RP-222**

**$19.95**

**3 for $59**

Plays stereo and monaural discs any size up to 12" in diameter, automatically. 4 speeds. Rubber padded, weighted turntable is driven by oversize induction motor. Has turnover hi-fi crystal stereo cartridge with dual sapphire styli. Handsome tan finish. Size: 13¼" x 11¼". Height above: 5½" x 2½" below. Operates on 110-125 volts AC 60 cps. Shipping weight 12 lbs.

★ ACCESSORIES ★

| | |
|---|---|
| 45 RPM Spindle, No. RP-7 | $2.37 |
| Mounting Base, No. CA-212 | 4.88 |
| Line Cord, No. W-43 | .29 |
| Phono Cord, No. W-321 | .65 |

MADE IN ENGLAND



## Garrard TYPE "A"

| | |
|---|---|
| No. AS-532, Combination Changer & Cartridge | $79.51 |
| No. RP-202, Changer Only | $79.50 |

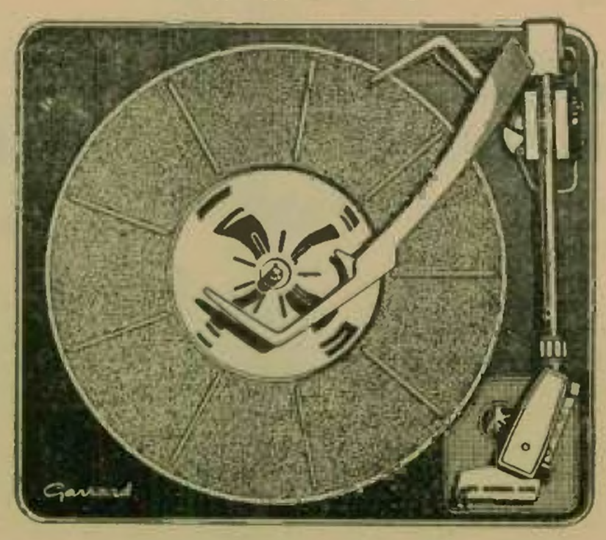
NO MONEY DOWN—$8 MONTHLY

Garrard's finest changer, a full size, two piece professional turntable, with unique foam disc for damping noise and vibration. Exclusive pusher-type mechanism. Simple one knob leveling device, laboratory-balanced motor for low rumble. Dynamically balanced tone arm. Plays all 4 speeds, 7—10—12" records monaural or stereo. Size: 16" x 13½" x 2⅝" below mtg. board, 6" above mtg. board. 110-125 volts AC, 60 cps. Shipping weight 25 lbs.

ACCESSORIES

| | |
|---|---|
| Molded, Plastic Dust Cover, No. CA-299 | $4.95 |
| Extra Plug-In-Head, No. RP-204 | 1.50 |
| 45 RPM Spindle, No. RP-41 | 3.80 |
| Mounting Base, No. CA-40 (Sold Separately) | 4.88 |

MADE IN ENGLAND



## Garrard AT6

| | |
|---|---|
| No. AS-695 Combination Changer & Cartridge | $54.51 |
| No. RP-225, Changer Only | $54.50 |

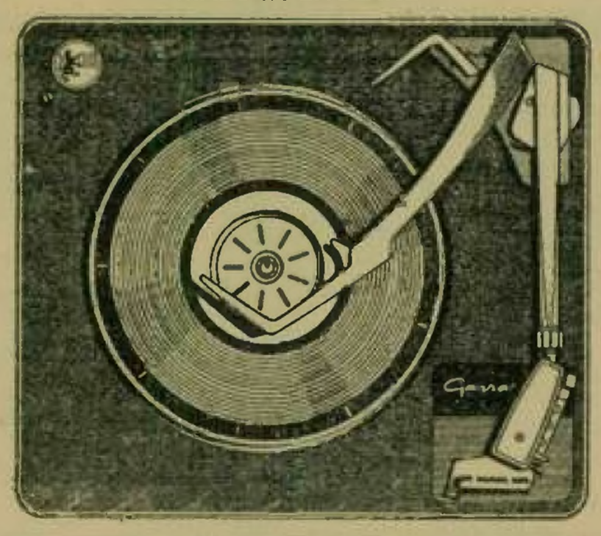
NO MONEY DOWN — $6 MONTHLY

Moderately priced automatic turntable for those who want the professional features of a turntable with the convenience of a changer. Plays all sizes and speeds, stereo or monaural. Oversize turntable assures a smooth, silent, accurate operation. Dynamically counterbalanced adjustable tubular tone arm. Quiet 4 pole shaded motor. Size: 14½" x 12½", 4½" above mounting board, 2⅝" below, 1½" required at rear and arm side of base for counter weight. 110-125 volts AC, 60 cps. Shipping weight 14 lbs.

ACCESSORIES

| | |
|---|---|
| Molded, Plastic Dust Cover, No. CA-300 | $4.95 |
| 45 RPM Spindle, No. RP-235 | 3.80 |
| Mounting Base, No. CA-151 (Page 10) | 4.88 |

MADE IN ENGLAND



## Garrard Mark II AUTOSLIM/P

| | |
|---|---|
| No. AS-651 Combination Changer & Cartridge | $39.51 |
| No. RP-224, Changer Only | $39.50 |

This versatile automatic-manual intermix changer has numerous new features. New, two piece tone arm, specially designed 4 pole motor. Separate manual and automatic controls. Changer is designed to give you perfect torque, balance and quiet running. Compact clean simple design in grey with white trim. Plays all sizes and speeds, stereo or monaural. Size: 14¼" x 12½" x 2⅝" below mtg. board, 4½" above mtg. board. 110-125 volts A. C. 60 CPS. Shpg. wt. 12 lbs.

ACCESSORIES

| | |
|---|---|
| Molded, Plastic Dust Cover, No. CA-301 | $4.95 |
| 45 RPM Spindle, No. RP-228 | 3.80 |
| Mounting Base, No. CA-151 (Pg. 10) | 4.88 |

## Olson STEREO HEADPHONE

★ Cushioned for Comfort




**No. PH-82**

**ONLY $14.98**

Enjoy your stereo system to the fullest with fidelity and dynamic range not possible with speakers.

Individual volume controls on each phone make balance and volume adjustments easy and convenient. Phones are padded for extra comfort and are equipped with a 7-ft. flexible cord and standard three-circuit plug. Response 30 to 15,000 cps. Impedance 8 ohms. Shipping weight 5 lbs.



Stereo Headphone

## JUNCTION BOX

Junction box for above headphones with 36" leads has selector switch to select headphones or speakers. Connect to any amplifier. Shpg. wt. ½ lb.

No. PH-83 ..... **$1.98**



25 Ft. Stereo Headphone

## EXTENSION CORD

Three conductor cable with grey vinyl jacket. ⅛" 3 circuit plug on one end, 3 circuit jack on the other end. Shipping weight 1 lb.

No. W-447, 3 for $6 ..... **$2.29**

## Koss STEREO HEADPHONES



Includes FREE T-2 Headphone JACK

**No. PH-30**

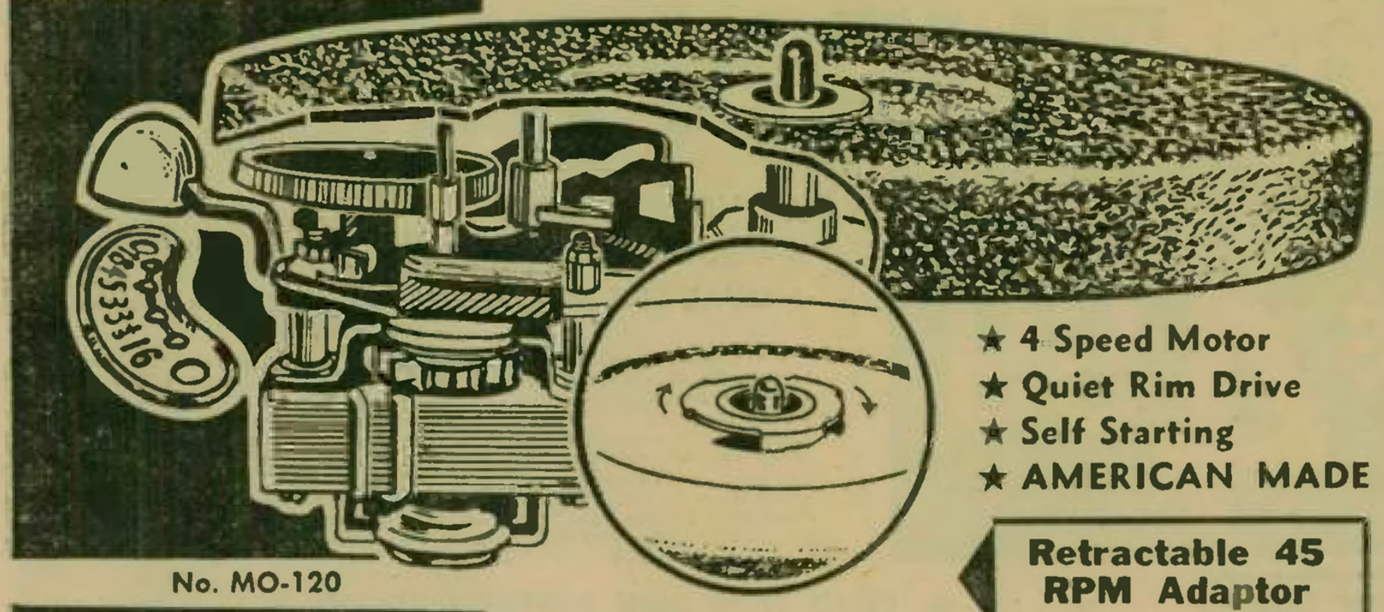
**$24.95** Lots of 3, Ea. $21.00

**'Double Slide' Comfort Adjustment**

Response 30 to 15,000 CPS. Provides complete separation of both channels. May be used with any monaural or stereophonic hi-fi equipment. Impedance 4 ohms. Equipped with eight foot cord and stereo plug. Shipping weight 4 lbs.

# alliance

## 4-Speed MOTOR & TURNTABLE



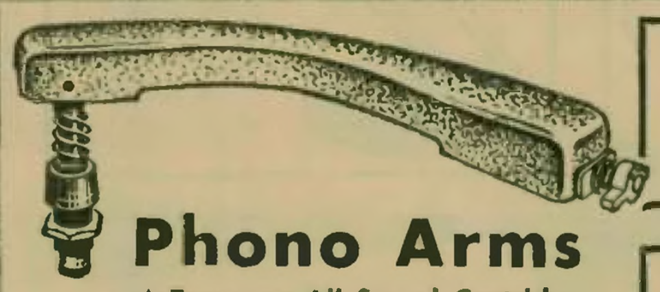
★ 4 Speed Motor
★ Quiet Rim Drive
★ Self Starting
★ AMERICAN MADE

**Retractable 45 RPM Adaptor**

No. MO-120

**$4**

Genuine Alliance, 4-Speed phono motor with heavy, non-slip turntable. Self-starting, precision built motor drives turntable through large rubber idler wheel to keep noise and vibration to a minimum. All 4 popular speeds, 16⅔, 33⅓, 45 and 78 RPM can be played on this fine turntable without an adaptor. Retractable disc in center of turntable fits large hole in 45 RPM records. Complete with selector arm and index plate for speed change. Operates on 110-125 volts AC, 60 cps. Write for special large quantity prices. Shipping weight 6 lbs.



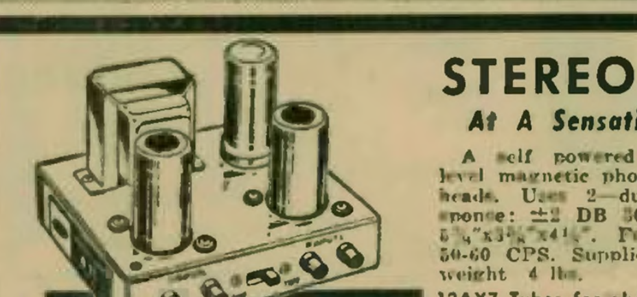
## Phono Arms

★ Turnover All Speed Cartridge

Response 30 to 15,000 CPS. Lightweight tone arm, spring counter balanced for use in manual players, plays all 4 speeds. Output—.5 volts. Dual sapphire styli. Complete with mounting hardware, 8" long. Shipping weight ½ lb.

**STEREO** $2 No. RP-220 — 3 for $5.50

**Monaural** $1.59 No. RP-236 — 3 for $4.50



## STEREO PREAMP

*At A Sensational Low Price!*

A self powered preamplifier for low level magnetic phono cartridges, and tape heads. Uses 2—dual triode 12AX7. Response: ±2 DB 30 to 20,000 CPS. Size: 5¾"x3⅝"x4½". For 110-125 volts A.C., 50-60 CPS. Supplied less tubes. Shipping weight 4 lbs.

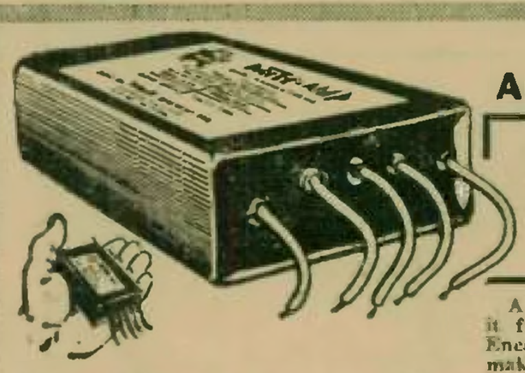
12AX7 Tubes for above (2 req'd) ..... $1.23

MONAURAL PHONO PREAMP less tube. Size: 3¾" x 3⅝" x 3 1/16". Shipping weight 4 lbs.

No. AM-220 ..... $5.95

12AX7 Tube for above (1 req'd) Ea. ..... $1.23

No. AM-221 ONLY... $9.49



MITY-AMP 2-WATT
## AUDIO AMPLIFIER

$8.40 No. AM-218

A power packed amplifier so small it fits into the palm of your hand. Encapsulated in high grade epoxy making it waterproof and shock proof. Applications: phono amp., intercom amp., public address amp., signal tracer amp., and many, many more. Operates on 6 to 12 volts D.C. Delivers 2 watts of audio with ½ volt input. Hi or Lo impedance input. Frequency Response: 20-15,000 CPS. Size: 2" x 3½" x ⅞". Shipping weight 1 lb.



## PHONO AMPLIFIER

★ 110-125 Volt A.C.
★ Made in U.S.A.

Easily attached to any phono. Equipped with tone and volume controls. Size: 4¼" x 2½" x 3". Less output transformer. 110-125 V. AC. Shipping weight 3 lbs.

SHIELD TUBES FOR ABOVE
12AV6, 38c; 50C5, 63c; 35W4, 42c
OUTPUT TRANSFORMER

No. T-92 ..... ea. 49c

No. AM 16 STEREO PR. $7.50 (Less Tubes) $3.95

## Crystal HEADPHONES

NEW! ★ Resp. 100 to 10,000 CPS ★ 85,000 OHMS



No. PH-87 — $4.99 — Lots of 3, $4.50 ea.

85,000 ohms impedance. Response: 100 to 10,000 cps. Spring steel adjustable headband, covered with soft cushion plastic. 3 ft. cord with phone plug. Complete with instructions. Shipping weight ½ lb.

## HEADPHONES

Olson ★ Adjustable



No. PH-71 — $1.99

New headphones. 4,000 ohm impedance. Spring steel headband, fully adjustable, flexible cord over 5 feet long, useful for schools, home, etc. Shipping weight ½ lb.

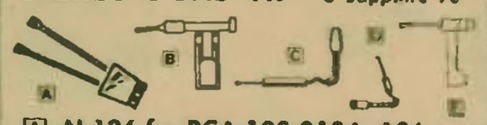
8 Ohm Phones with ¼" Phone Plug
Shipping wt. ½ lb.
No. PH-27—Lots of 12, $2 Ea. $2.86



Olson Electronics
AKRON, OHIO

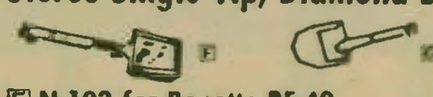
## DIAMOND NEEDLES

### STEREO DUAL TIP — ● Diamond LP ● Sapphire 78



A N-126 for RCA 108-213A, 106-960A, 106-770A, 106771A ..... $1.69
B N-150 for Sonotone 9T ..... $1.69
C N-129 for Sonotone 8T ..... $1.69
D N-130 for Sonotone 8TA ..... $1.69
E N-151 for Astatic 17 ..... $1.69

### Stereo Single Tip, Diamond LP



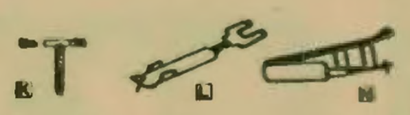
F N-102 for Ronette BF-40, 105, 106 ..... $1.69
G N-149 for Euphonics E-1 ..... $1.69

### MONAURAL DUAL TIP — ● Diamond LP ● Sapphire 78



H N-71 for Sonotone 2TS ..... $1.69
I N-91 for Sonotone 3TS ..... $1.69
J N-95 for Shure Cartridge ..... $1.69

### Mono Single Tip, Diamond LP



K N-77 for GE RPX ..... $1.69
L N-70 for Ronette ..... $1.69
M N-78 for GE RPJO1D ..... $1.69

## Olson PHONO ARM

★ For Stereo or Monaural Use!



No. RP-237

2 HEADS INCLUDED

$9.95

This new 12" phono arm is dynamically balanced, and will track at lowest pressure recommended by cartridge manufacturers. May be mounted on any turntable. Shipping weight 2 lbs.

Harrington's Serv., 16 10th St., Fall River, Mass., wins choice of merchandise worth $5 from Olson's "Treasure Hunt." See back cover for instructions.

CHANGER
## BASES



★ Made In U.S.A.

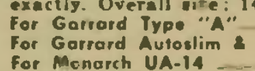
YOUR CHOICE $4.88

Solid wood construction with handsome darkwood finish. Pre-cut to match changer exactly. Overall size: 14¾" x 13¾" x 2⅜".

For Garrard Type "A" ..... No. CA-40
For Garrard Autoslim & AT-6 ..... No. CA-151
For Monarch UA-14 ..... No. CA-212
For VM 1200 ..... No. CA-65

Shipping Wt. 3 lbs.

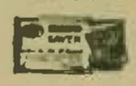
## PHONO SLIDES



Ball bearing slides extend to 15". Capacity 50 lbs. Lots of 12 pr., ea. pr. $1.25. Shipping wt. 3 lbs.

No. X-642, 3 pr. for $4.50 ..... pr. $1.69

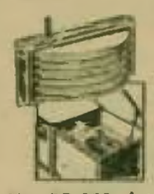
## RECORD KLEENER CLOTH



Silicon treated. Eliminates static charges, also lubricates. Shipping wt. ½ lb.

Lots of 12, ea. 30c.
No. RP-51, 3 for $1.00 ..... Ea. 44c

## PHONO LIGHT



Illuminates record changer when cabinet lid is raised. Chrome frame with opaque white lens. Size: 3¾" x 1⅝". For 115 volts AC. With bulb. Shipping weight ½ lb.

3 for $3.00
No. RP-181, lots of 12, ea. 75c ..... $1.29

## STYLUS MICROSCOPE



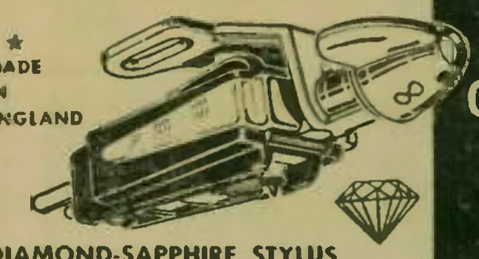
3¾" x ⅜". 40 power. Lots of 12, ea. 80c.

No. N-92
3 for $3.00 ..... $1.19

# PHONO CARTRIDGES

MONAURAL TURNOVER
## CARTRIDGE

★ MADE IN ENGLAND



DIAMOND-SAPPHIRE STYLUS

3-5 Volts Output. ½" mounting centers, and European inline mounting. This cartridge with its high output and low distortion, is an ideal replacement in almost any monaural phonograph, or European changer. Plays all four speeds. Response 30 to well above 6000 CPS. Complete with plug in type solder lugs. Shipping weight ½ lb.

WAS ~~$2.59~~ IN 164 CAT.
OLSON LOW PRICE
ONLY
**$1.99**
No. PC-97

MONAURAL TURNOVER CARTRIDGE
Same as above but with dual sapphire stylus
No. PC-89, 3 for $3.00 ..... Ea. $1.29

EMPIRE 880
## STEREO
Cartridge
WITH DIAMOND STYLUS

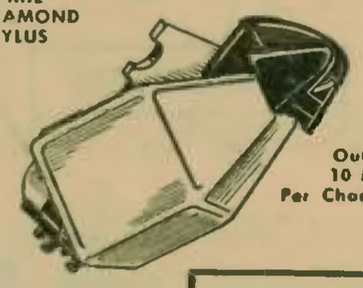


$42.50 in 363 Cat.
**$17.95**
No. PC-102

Magnetic mono/stereo cartridge with .7 mil diamond stylus. Response: 10 to 28,000 CPS. Channel separation: More than 30 DB. Tracking force ¾ gram. Balanced high output 10 millivolts per channel ± ½db. Mounting—standard ½" mounting centers. Shpg. wt. ½ lb.

## Pickering U38/AT STEREO Cartridge

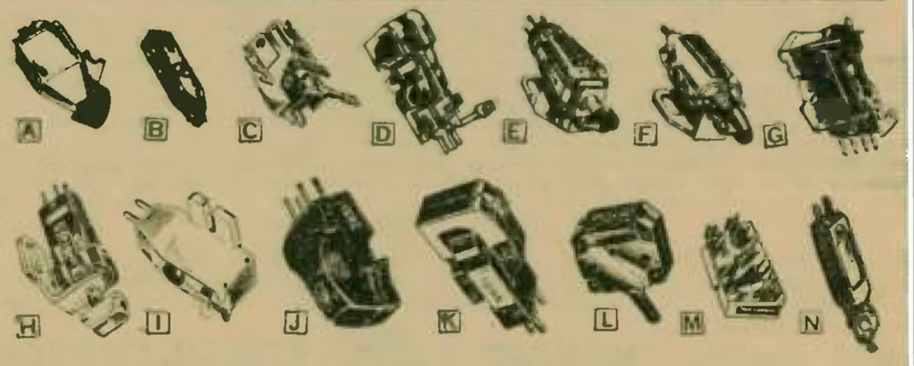
7 MIL DIAMOND STYLUS



Output 10 MV. Per Channel

MAGNETIC CARTRIDGE Response ± 2 DB 20 20,000 CPS. Channel separation 35 DB. Tracking force 2-5 grams. Impedance 47,000 ohms. Shipping weight ¼ lb.

$46.50 in 363 Cat.
**$16.88**
No. PC-96



Shipping weight on all cartridges ¼ lb.

### A—PICKERING 380C STEREO

MAGNETIC CARTRIDGE with .7 Mil Diamond Stylus. Response ± 2 DB 20 to 20,000 CPS. Channel separation 35 DB. Tracking force 2-5 grams. Output 10 mv. per channel. Impedance 47,000 ohms.

No. PC-68 ..... $11.76

### B—Electro-Voice Stereo

★ Replaces Astatic 13T

Dual sapphire tips plays all 4 speeds (78, 45, 33⅓, and 16 RPM). Response: 20-15,000 CPS. Output .5 volts.

No. XC-66 ..... $3.33
With Diamond Tip No. PC-74 ..... $6.57

### C—Sonotone 3TS Ceramic

Response 20 to 20,000 CPS. Turnover type with standard ½" mounting centers. Dual sapphire styli. Output .5 volts.

No. PC-17, 3 for $11.00
Lots of 12, Ea. $3.00 ..... $3.98

### C—Sonotone 2T-S Ceramic

Turnover type with Dual Sapphire Styli. Response: ± 3DB 30-15,000 CPS. 1 volt output. Standard ½" mounting centers.

No. PC-93, 3 for $9.25 ..... $3.32

### D—Sonotone 8TA4-SD Stereo

With .7 mil diamond, 3 mil sapphire stylus. Response ± 2.5 DB: 20 to 18,000 CPS. Compliance 3.0 x 10-6 cm/dyne. 20 DB channel separation. ½" mounting centers.

No. PC-92 ..... $7.64

### E—Ronette 106 Stereo Cartridge

Turnover type. Plays stereo or monaural records. Has standard ½" mounting centers. Output 1.5 volts. Response 50 to 11,000 cps. Plays all 4 speeds.

No. PC-70 ..... $2.99

### F—BSR TC-8S Stereo Cartridge

Turnover type. Mounts on ½" mounting centers. Response 40 to 12,000 cps. Plays all 4 speeds. Output .15 volts. Sapphire Styli.

No. PC-72,
3 for $6.00 ..... $2.09

### G—OLSON Turnover STEREO

UNIVERSAL MTG. Dual Sapphire Stylus. Response: 40 to 10,000 cps. Output: 1 volt. Separation 12 DB. Tracking force: 6-8 grams. Size: 1¼" long x ⅜" wide. Made in England.

No. PC-110 ..... $1.89

### H—ASTATIC 76-TS STEREO

This crystal turnover cartridge is equipped with .7 mil and 3 mil sapphire styli to play Stereo, LP and standard 78 rpm records with utmost clarity. Standard ½" mounting centers. Output 2 v. Response: 50 to 10,000 cps.

No. PC-106, Was $3 in 164 Cat. ..... $1.99

### I—OLSON Mono CRYSTAL

1 mil. sapphire Stylus. Response 40 to 10,000 CPS. Output 1 volt. Tracking weight 6-8 grams. Std. ½" Mounting Centers. Made in England.

No. PC-109 ..... 99c

### J—SHURE M3D STEREO

Professional Stereo magnetic Cartridge with .0007" DIAMOND STYLUS. Separation: 20 DB at 1,000 cps. Response: 20-15,000 cps. Recommended load 47,000 ohms. Tracking force: 2-6 grams. Compliance: 4x10-6 centimeters per dyne ½" mounting centers.

No. PC-95, $45.00 in 363 Cat. ..... $15.88
Replacement Diamond Stylus, N-152 $4.50

### K—SHURE M-7D STEREO

Stereo magnetic cartridge with .0007" DIAMOND STYLUS. Response: 20 to 15,000 CPS. Recommended load impedance: 47,000 ohms. Tracking force: 3-6 grams. ½" mounting centers.

No. PC-56 ..... $11.76
Replacement Diamond Stylus, N-131 $4.50

### L—PHILCO CARTRIDGE

Dual Sapphire Styli for Philco part numbers 425-0011 and 425-0016. Fits changer models: M-20, M-22, M-24, M-24A, M-25, M-26 and others.

No. PC-20 3 for $17.00
Lots of 12, Ea. $5.00 ..... $6.20

### M—ZENITH Cobra Cartridge

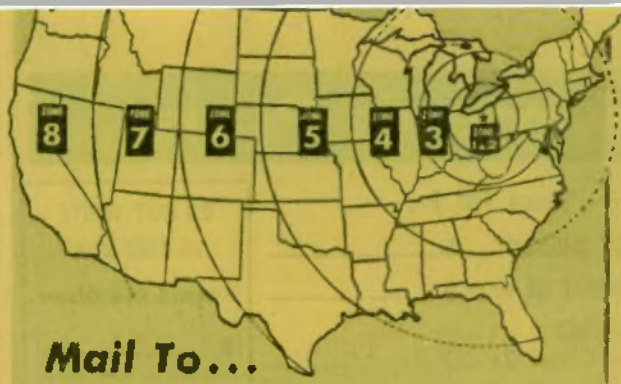
Exact replacement for No. S-16780 Red & green. Monaural. Sapphire styli.

No. PC-71 ..... $2.06

### N—Universal Phono Cartridge

Aluminum case for single needle type arms. 50-8,000 cps. 4-5 volt output. Weight 17 grams., needle force 3¼ oz. ½" mtg. ctr. Monaural.

No. XC-50 3 for $3.50
Lots of 12, Ea. $1.00 ..... $1.29




**Mail To...**

**OLSON ELECTRONICS, INC.**
**260 S. Forge St.**
**Akron, Ohio 44308**

## PARCEL POST RATE TABLE

Postal Regulations limit Parcel Post shipments to 70 lbs. EXCEPTION: Those addressed for city delivery to a first class post office limit shipments to 20 lbs. to zones 3 to 8 and 40 lbs. to zones 1 and 2. All shipments will be via Parcel Post except those which postal regulations will not permit. In such cases, shipment will be via truck or express.

| Weight | Local | Zone 1 & 2 | Zone 3 | Zone 4 | Zone 5 | Zone 6 | Zone 7 | Zone 8 |
|---|---|---|---|---|---|---|---|---|
| 1 lb. | $0.28 | $0.40 | $0.42 | $0.44 | $0.52 | $0.58 | $0.66 | $0.72 |
| 2 lbs. | .28 | .46 | .49 | .55 | .66 | .73 | .83 | .93 |
| 3 lbs. | .28 | .52 | .55 | .66 | .79 | .88 | 1.01 | 1.13 |
| 4 lbs. | .28 | .58 | .61 | .77 | .92 | 1.03 | 1.18 | 1.34 |
| 5 lbs. | .31 | .64 | .68 | .88 | 1.05 | 1.18 | 1.34 | 1.53 |
| 6 lbs. | .34 | .70 | .75 | .99 | 1.18 | 1.33 | 1.50 | 1.73 |
| 7 lbs. | .37 | .76 | .81 | 1.10 | 1.31 | 1.48 | 1.66 | 1.92 |
| 8 lbs. | .40 | .82 | .87 | 1.21 | 1.44 | 1.63 | 1.82 | 2.12 |
| 9 lbs. | .43 | .88 | .93 | 1.32 | 1.58 | 1.78 | 1.98 | 2.31 |
| 10 lbs. | .46 | .94 | 1.00 | 1.43 | 1.71 | 1.93 | 2.14 | 2.50 |
| 11 lbs. | .47 | .96 | 1.02 | 1.46 | 1.74 | 1.96 | 2.17 | 2.53 |
| 12 lbs. | .48 | .98 | 1.04 | 1.49 | 1.77 | 2.00 | 2.21 | 2.57 |
| 13 lbs. | .49 | 1.00 | 1.06 | 1.52 | 1.80 | 2.03 | 2.24 | 2.61 |
| 14 lbs. | .50 | 1.02 | 1.08 | 1.55 | 1.83 | 2.06 | 2.28 | 2.65 |
| 15 lbs. | .51 | 1.04 | 1.10 | 1.58 | 1.86 | 2.09 | 2.31 | 2.69 |
| 16 lbs. | .52 | 1.06 | 1.12 | 1.61 | 1.89 | 2.12 | 2.34 | 2.73 |
| 17 lbs. | .53 | 1.08 | 1.14 | 1.64 | 1.92 | 2.15 | 2.37 | 2.76 |
| 18 lbs. | .54 | 1.10 | 1.16 | 1.67 | 1.95 | 2.18 | 2.40 | 2.80 |
| 19 lbs. | .55 | 1.12 | 1.18 | 1.70 | 1.98 | 2.21 | 2.43 | 2.84 |
| 20 lbs. | .56 | 1.14 | 1.20 | 1.73 | 2.01 | 2.24 | 2.46 | 2.88 |
| 21 to 70 lbs. | ADD FOR EACH POUND OVER 20 LBS. | | | | | | | |
| | .01 | .04 | .04 | .06 | .08 | .11 | .14 | .17 |

## PARCEL POST INSURANCE

| UP TO | FEE |
|---|---|
| $10.00 | 10¢ |
| $10.01 TO $50.00 | 20¢ |
| $50.01 TO $100.00 | 30¢ |
| $100.01 TO $200.00 | 40¢ |

Send ADEQUATE amount by check or Money Order for merchandise, postage, etc.

**WE REFUND EVERY CENT NOT USED**

**IF A LETTER APPEARS IN THIS COLUMN, SEE INVOICE FOR "CHANGES IN FILLING YOUR ORDER"**

| DO NOT USE | QUANTITY | STOCK NO. | DESCRIPTION | SHIP. WT. | PRICE EACH | TOTAL | DO NOT USE |
|---|---|---|---|---|---|---|---|
| | | | | | | $ | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

ADD 50¢ HANDLING CHARGE IF ORDER IS UNDER $5.00

## ★NOTICE★

Save! No need to guess about postage. Pay by check. Make your check payable to "Olson Electronics." Leave the amount blank; we'll fill in the exact cost for goods and postage. Eliminates paying us small balances. Eliminates Refund Vouchers.

| | | |
|---|---|---|
| 1 | TOTAL POUNDS | PRICE TOTAL |
| 2 | SEE CHART ABOVE POSTAGE $ _____ PLUS + INSURANCE _____¢ | |
| 3 | ADD SALES TAX (Not applicable if shipment is interstate) | |
| 4 | **TOTAL AMOUNT** | |

Send adequate amount ... WE REFUND EVERY CENT NOT USED

5 ☐ REMITTANCE ENCLOSED

☐ SEND C.O.D. $2.00 DEPOSIT ENCLOSED

☐ EASY PAY PLAN (See Other Side)

IF YOU HAVE MOVED PLEASE WRITE YOUR OLD ADDRESS HERE

6 Print Name & Address in Boxes Below ▼ Ship Via _____

COMPANY

FIRST INITIAL | MIDDLE INITIAL | LAST NAME

ADDRESS

TOWN OR POST OFFICE | STATE

**364 LMNOP**

# OLSON Easy Payment Plan

## MINIMUM EASY PAY BALANCE $50

**ADDITIONAL PURCHASES:** Once you establish credit, you can "add-on" to your account with purchases of $25.00 or more. Just list the items you want on the order blank, check ADD TO MY ACCOUNT, and give your account number.

### HERE IS ALL YOU DO . . .

1. Fill out Order Blank on reverse side.
2. Complete "Agreement" at right.
3. First-time applicants for "Olson's Easy Pay Plan" complete application form at bottom of page.
4. Previously approved "Olson Easy Pay Plan" customers complete above steps 1 and 2 only.

MAIL TO:

**OLSON ELECTRONICS, INC.**
**260 S. Forge Street**
**Akron, Ohio 44308**

### TAKE UP TO 24 MONTHS TO PAY

### EASY PAYMENT CHART

| | Standard Terms | | Extended Terms | |
|---|---|---|---|---|
| UNPAID BALANCE | CREDIT SERVICE CHARGE | MONTHLY PAYMENTS | CREDIT SERVICE CHARGE | MONTHLY PAYMENTS |
| $50.00 — $60.00 | $ 6.00 | $ 7.00 | | |
| 60.01 — 70.00 | 7.00 | 7.00 | | |
| 70.01 — 80.00 | 8.00 | 8.00 | | |
| 80.01 — 90.00 | 9.00 | 9.00 | | |
| 90.01 — 100.00 | 10.00 | 10.00 | | |
| 100.01 — 110.00 | 11.00 | 10.00 | $16.00 | $ 7.00 |
| 110.01 — 120.00 | 12.00 | 11.00 | 18.00 | 7.00 |
| 120.01 — 130.00 | 13.00 | 11.00 | 19.00 | 8.00 |
| 130.01 — 140.00 | 14.00 | 12.00 | 21.00 | 8.00 |
| 140.01 — 150.00 | 15.00 | 13.00 | 22.00 | 9.00 |
| 150.01 — 160.00 | 16.00 | 14.00 | 24.00 | 10.00 |
| 160.01 — 170.00 | 17.00 | 15.00 | 25.00 | 11.00 |
| 170.01 — 180.00 | 18.00 | 16.00 | 27.00 | 11.00 |
| 180.01 — 190.00 | 19.00 | 17.00 | 28.00 | 12.00 |
| 190.01 — 200.00 | 20.00 | 18.00 | 30.00 | 13.00 |
| 200.01 — 250.00 | 23.00 | 20.00 | 45.00 | 13.00 |
| 250.01 — 300.00 | 28.00 | 25.00 | 55.00 | 15.00 |
| 300.01 — 350.00 | 33.00 | 30.00 | 65.00 | 17.00 |
| 350.01 — 400.00 | 38.00 | 35.00 | 75.00 | 19.00 |
| 400.01 — 450.00 | 43.00 | 40.00 | 85.00 | 22.00 |
| 450.01 — 500.00 | 48.00 | 45.00 | 95.00 | 25.00 |

**OVER $500.00 WRITE FOR DETAILS**

### AGREEMENT—Please Fill In:

1. **TOTAL CASH AMOUNT** ___ $_____
2. **DOWN PAYMENT (if any)** $_____
3. **UNPAID BALANCE (Item 1 Minus Item 2)** ___ $_____
4. **CREDIT SERVICE CHARGE (See Easy Payment Chart)** $_____
5. **EASY PAY BALANCE (Item 3 Plus 4)** _____ $_____

☐ New Account

☐ Add to my account No. _____

☐ Make this a separate account

BE SURE TO SIGN BELOW AT X

**DO NOT WRITE IN THIS BOX**

**Amount Due Olson:**

$_____

(Includes delivery, insurance, tax, etc., if any. See invoice included with merchandise.)

**Credit Service Charge:**

$_____

**Adjusted Easy Pay Balance:**

$_____

Buyer agrees to pay the Adjusted Easy Pay Balance in _____ consecutive monthly installments beginning 30 days from the date hereof unless a different first payment date is inserted at this point _____ Each installment shall be in the amount of $_____ EXCEPT the final installment which shall be $_____, payments to be made at the place designated by the Seller or its assignee.

If payments are not made within 10 days after date Buyer agrees to pay late charges of 5 cents per dollar in addition to the regular installment, but not to exceed the lawful maximum. Seller shall retain title to and right to possession of merchandise until fully paid. Upon default of any payment Seller may declare entire unpaid balance due at once and may also repossess merchandise retaining previous payments as compensation for the use thereof. If proceeds of resale of merchandise are insufficient to cover Buyer's obligation, Buyer will pay the deficiency to Seller; if proceeds result in overage, Seller will pay such overage to buyer. This agreement may be assigned without notice to Buyer and when assigned shall be free from any defense, counterclaim or cross complaint by Buyer. It is agreed that the Seller shall have the authority to add delivery, insurance, tax, etc., if any, to the Total Cash Amount and to correspondingly increase the Credit Service Charge and Adjusted Easy Pay Balance. It is also agreed that the Seller, in the event it is unable to ship any part of the named merchandise for any reason whatsoever, may change the Easy Pay Balance by the appropriate sum and to correspondingly decrease the Credit Service Charge and Adjusted Easy Pay Balance. A copy of this agreement shall be forwarded to the Buyer by the Seller. This agreement shall not be binding on the parties until accepted by the Seller at its offices in Akron, Ohio. This agreement shall be governed by the Laws of the State of Ohio.

Buyer Sign Here X _____ Date _____

Buyer Sign Here X _____ Date _____

**Accepted by OLSON ELECTRONICS, INC., at Akron, Ohio (Seller)**

Signature of Officer _____ Date _____

## APPLICATION FOR EASY PAYMENT PLAN

Please answer by printing all questions fully to help establish your credit promptly. Omissions and errors cause delays. **NOTE:** Easy payment contracts cannot be accepted from persons under 21 years of age. If you are under 21, have this form filled out by a person of legal age, regularly employed or engaged in business. He can make the purchase for you, and will be responsible for payment. Credit available only to residents of the continental United States.

Purchaser's Name _____ Age _____ Married ☐ Single ☐ No. Dependents _____

Street No. _____ Employer _____

City _____ Zone _____ State _____ Address _____

How Long At This Address _____ Yrs. _____ Phone No. _____ How Long Employed _____ Yrs. Monthly Income _____ Dept. _____

If Rent:— (Mo. Rental $_____) Landlord's Name _____ Present Occupation _____

Landlord's Address _____ Previous Employer _____

If Buying or Own:— (Value $_____) Mortgagee's Name _____ Address _____

Previous Address _____ How Long Employed _____ Yrs. Wife's Name _____

Name of Nearest Relative Not Living With Purchaser _____ Wife's Employer _____

Address _____ Address _____

Bank Account With _____ Address _____ Savings ☐ Checking ☐

First Credit Reference _____ Account Open ☐ Account Closed ☐

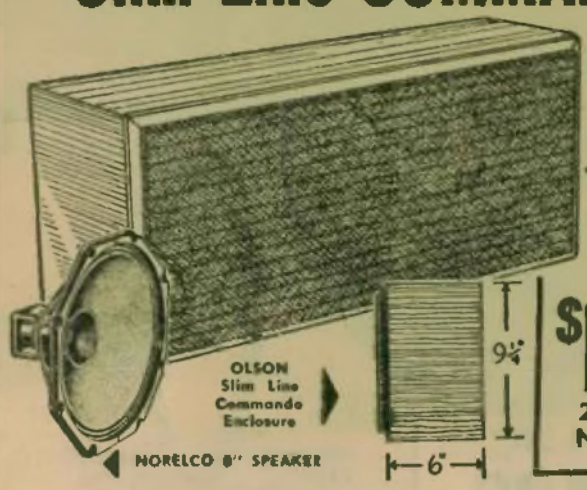
Second Credit Reference _____ (Name) _____ (Address) _____ (City and State) _____ Account Open ☐ Account Closed ☐

(Name) _____ (Address) _____ (City and State) _____

# SPEAKERS and ENCLOSURES / NEW

Norelco - Olson

## "Slim-Line COMMANDO"



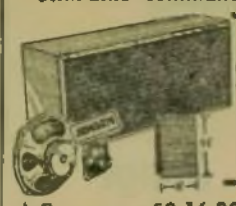

SPEAKER & ENCLOSURE
★ READY TO PLAY

LOW PRICED
$10.98
2 for $21
No. S-580

★ No Finish Required
★ Full ½" Acoustic Wood Construction
★ Response 45 to 19,000 CPS
★ Space Saving Design

Famous Norelco 8" speaker AD-3800 SS mounted and wired in a custom shelf size enclosure. Ready to connect and use. Size: 6" x 23⅝" x 9¾". Although no finish is required, cabinet may be painted, waxed, varnished, etc. Impedance 8 ohms, 6 watts. Shipping weight 21 lbs.

## JENSEN SPEAKERS IN OLSON
Slim-Line Commando Enclosure

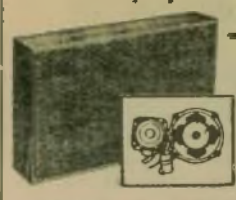


No. S-581
$17.98
STEREO PAIR $32

★ Response: 50-16,000 cps
★ Impedance: 8 ohms

Superb listening enjoyment at a very low cost, is yours through the Jensen 8" Woofer and 3½" Cone Tweeter. Speakers are matched and mounted—ready to play. Size: 4" x 25⅛" x 9¼". Shpg. wt. 22 lbs.

## JENSEN SPEAKERS IN OLSON
2-Way Speaker System
★ 3¾" THIN



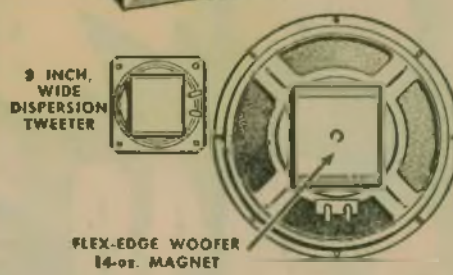
No. S-477
$13.75
2 for $27

Two-way system with full rich sound. 8" Jensen Woofer with 6-oz. ceramic magnet and 3½" Jensen Tweeter with crossover. Wall mounting puts it out of the way but at ideal listening level. Attractive mahogany grained fabric covered cabinet with cane type grill. Impedance 8 ohms, with screw terminals. Size: 16" x 12" x 3¾". Shipping weight 7 lbs.

## Olson
Deluxe 2-WAY Speaker SYSTEM



No. S-590
$44.88




- 10" Flex-edge Woofer
- 3" Wide Dispersion Tweeter
- High Pass Filter and Balance Control
- ¾" Oiled Walnut Cabinet
- Response: 25-18,000 cps

This elegantly styled speaker features highest quality construction throughout plus tone quality that is unmatched by any other system in its price range. Features 10" low frequency woofer with corrugated cambric suspension and 14 oz. magnet plus a 3" wide dispersion high frequency speaker and "high pass filter" type crossover. Balance control permits adjustment to suit your individual taste. Cabinet is constructed of ¾" wood finished in beautiful oiled walnut and fully acoustically lined. Overall frequency response 26 to 14,000 cps. Power capacity 25 watts. Impedance: 8 ohms. Size: 14¾" x 14½" x 11½". Shipping weight 24 lbs. Shipped P.P. except shipped Railway Express to 1st Class Post Offices.

## Sonora
2 SPEAKER SYSTEM

★ OILED WALNUT
★ RESPONSE: 20-20,000 CPS
★ 15 WATTS

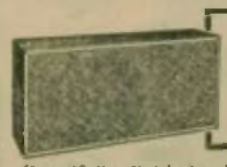


$17.98
No. S-537
2 for $34.00

Completely assembled and ready to connect to any stereo or monaural amplifier, speaker system with one 8" low frequency speaker and one 3½" tweeter, 8 ohm impedance. Handsome oiled walnut cabinet 18" x 9½" x 6½". Buy two for stereo. Shipping weight 11 lbs.

## Sonora
3 SPEAKER SYSTEM

● 20–20,000 CPS ● 15 Watts



No. S-578
$24.95
2 for $47

Beautifully finished cabinet and matching grille cloth reflect the excellent craftsmanship throughout. Three matched speakers deliver flawless reproduction. Slimline styling blends tastefully with any decor. System contains one 8" speaker for bass tones, one 6" speaker for midrange tones and a 4" speaker for high frequencies. Oiled walnut enclosure is ported in back to eliminate speaker loading. Size: 24" W. x 11¼" H. x 6" D. Shipping weight 15 lbs.

## Sonora
8" SPEAKER & CABINET

- Oiled Walnut
- Volume Control
- Wire Included



No. S-539
$11.98
2 for $23

Extension speaker for stereo or hi-fi. Built-in volume control permits adjustment of balance or volume without changing controls on main unit. Full range frequency response. 10 watts. 8 ohms. Size: 11⅞" x 11⅞" x 4½". Shpg. wt. 8 lbs.

## 2 GIANT 15 INCH
Full Range SPEAKERS




★ STEREO MATCHED
★ MADE IN U.S.A.

★ Response: 30-13,000 cps
★ Power Cap.: 25 watts

8 ohm. Size: 15" dia. x 5½" deep. Shipping weight 12 lbs. per pair.

No. S-526
Two For
$15.95
Single No. S-530, $9.95

Crossover Capacitor Kit ..... No. AS-552, $1.90

## 2-WAY SPEAKER SYSTEM

No. S-530 Olson 15" Woofer (left)
No. S-547 Horn Tweeter (pg. 13)
No. T-294 Spkr. Crossover (pg. 14)



No. AS-823
$13.00
Stereo Pr. $25.50

Delivers full rich tone impossible to achieve with smaller speaker systems. The heavy duty 15" woofer faithfully reproduces clean rich bass tones to 30 cps. Compression horn tweeter adds smooth, transient, free flow frequencies to the limits of audibility. Shipping weight 11½ lbs.

# STEREO/HI-FI Console CABINET

## ONLY CABINET WHICH WILL HOUSE ANY STEREO SYSTEM

★ Oiled Walnut Finish
★ Fits Any Decor

The unique design of this cabinet centers around the tuner and amplifier compartment. Two pre-finished shelves, each fully adjustable, are provided for tuner and amplifier placement within the center compartment. Also, two panel boards are included—one for the top center section (under hinged lid) if you wish to hang your equipment down with the controls horizontal facing up. (This board can be used to mount your tape deck inverted if you desire). The other board is for mounting control panels when custom installing your equipment in the front center section. You may wish only to set your tuner and amplifier on the shelves and forget the "custom mounting"—this is fine since the shelves and compartment are completely pre-finished and will retain a built-in look. The remaining area below is for record or tape storage.

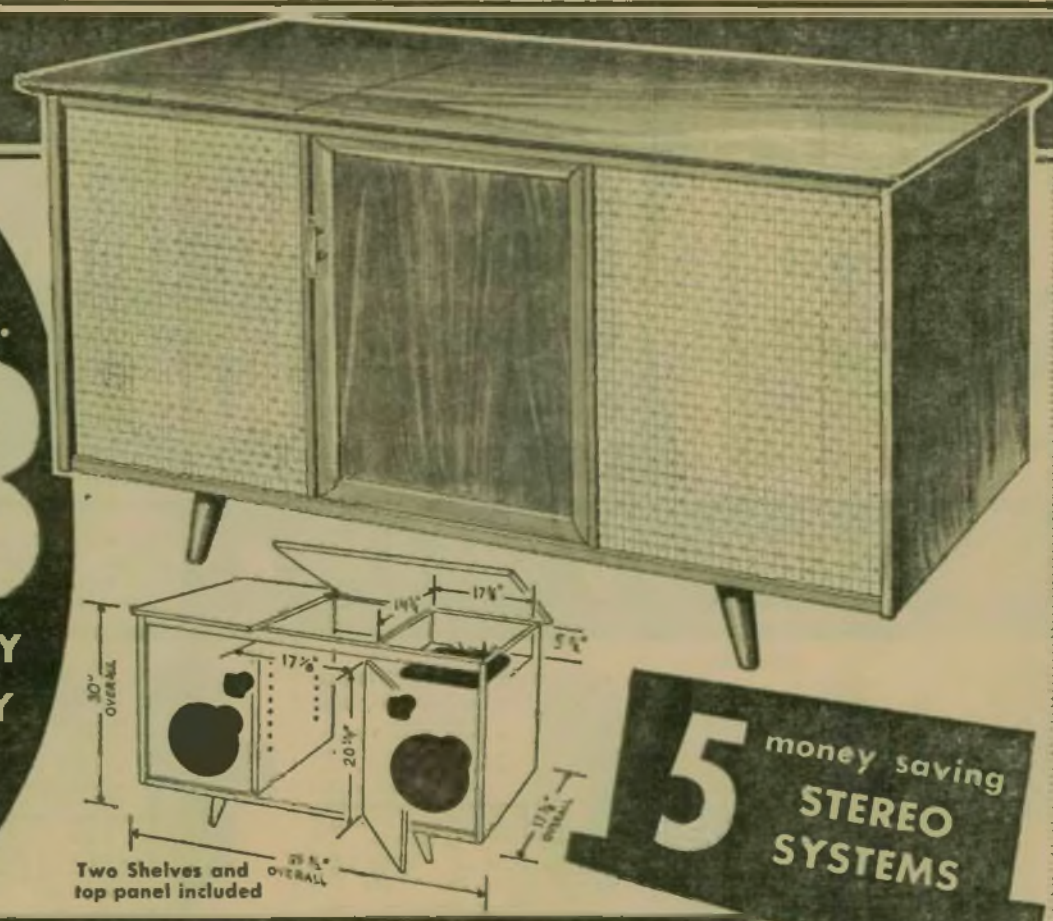
The record changer mounting board is easily removed and can be cut to fit your particular changer. The area above changer board is 6" and the area below top of mounting board is 3".

Each speaker compartment is present for a 3" round tweeter and a 12" speaker. Also included with each cabinet are two 8" speaker adapter boards. Speaker compartments are completely enclosed in back for better acoustic characteristics.

The elegant hardwood walnut veneer finish, the contrasting cane grille cloth, even the adjustable changer lid holding mechanism all attest to the excellent furniture craftsmanship. Complete cabinet measurements are shown in diagram at right. Cabinet comes with 2 shelves, top panel, front panel and 2 eight inch speaker adapter boards. Speaker mtg. studs installed. Shipped by truck or express from Batavia, N. Y. Shipping weight 126 lbs.

Rod. Arntz, 1065 Pine Rd., Alpena, Mich., wins choice of merchandise worth $5 from Olson's "Treasure Hunt." See back cover for instructions.

WAS ~~$99~~
IN 164 CAT.
$88
$9 MONTHLY
NO MONEY DOWN
No. CA-275




Two Shelves and top panel included

5 money saving STEREO SYSTEMS

### STEREO SYSTEM I

1-Stereo Console Cabinet (above) No. CA-275 ..... $88.00
1-Perpetuum Ebner Changer (pg. 9) RP-250 ..... 18.00
2-Jensen 12" Speakers (pg. 14) No. S-551 ..... 17.76
1-Stereo Amplifier (pg. 6) No. AM-217 ..... 34.98
TOTAL REG. PRICE .... $158.74
No. AS-835
SYSTEM PRICE $149
SYSTEM Less Cabinet No. AS-873 $41.89

### STEREO SYSTEM III

1-Stereo Console Cabinet (above) No. CA-275 ..... $88.00
1-FM-FM/MPX Tuner & 15 Watt Stereo Amp. (pg. 6) No. RA-581 ..... 89.98
2-Jensen 12" Speakers (pg. 14) No. S-551 ..... 17.76
1-Garrard "Autoslim" Changer (pg. 9) RP-224 ..... 39.50
1-Pickering Stereo Cart. (pg. 10) No. PC-96 ..... 16.88
TOTAL REG. PRICE .... $252.12
No. AS-905
SYSTEM PRICE $227
SYSTEM Less Cabinet No. AS-906 $139.39

### STEREO SYSTEM II

1—Stereo Console Cabinet (above) No. CA-275 ..... $88.00
1—50 Watt Stereo Amp. (pg. 6) No. AM-240 ..... 99.98
2—12" Full-Range Speakers (pg. 13) No. S-495 ..... 26.50
1—Garrard "Autoslim" Changer (pg. 9) No. RP-224 ..... 39.50
1—Pickering Stereo Cart. (pg. 10) No. PC-96 ..... 16.88
TOTAL REG. PRICE .... $270.86
No. AS-869
SYSTEM PRICE $242
SYSTEM Less Cabinet No. AS-874 $155.39

### STEREO SYSTEM V

1-Stereo Console Cabinet (above) No. CA-275 $88.00
1-FM-FM/MPX Tuner & 15 Watt Stereo Amp. (pg. 6) No. RA-581 ..... 89.98
2-12" 3-way Speakers (pg. 15) No. S-600 ..... 39.00
1-Garrard "Autoslim" Changer (pg. 9) RP-224 ..... 39.50
1-Pickering Stereo Cart. (pg. 10) No. PC-96 ..... 16.88
TOTAL REG. PRICE ... $273.36
No. AS-907
SYSTEM PRICE $246
System less cabinet No. AS-908 $158.39

### STEREO SYSTEM IV

1—Stereo Console Cabinet (above) No. CA-275 ..... $88.00
1—30 Watt Stereo Amplifier (pg. 6) No. AM-229 ..... 69.98
1—FM-AM-FM/MPX Tuner (pg. 6) No. RA-580 ..... 79.98
2—12" Full-Range Speakers (pg. 13) No. S-495 ..... 26.50
1—Garrard "Autoslim" Changer (pg. 9) No. RP-224 ..... 39.50
1—Pickering Stereo Cart. (pg. 10) No. PC-96 ..... 16.88
TOTAL REG. PRICE .... $320.84
No. AS-868
SYSTEM PRICE $288
SYSTEM Less Cabinet No. AS-876 $201.39




Imported from ENGLAND

**No. S-517**

**$3.49**

**2 FOR $6.50**

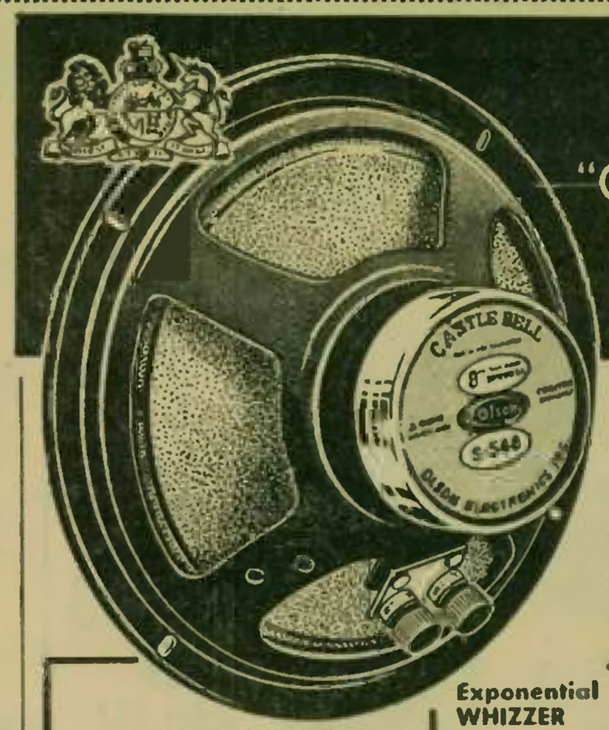
ELAC

# 8" Full Range SPEAKER

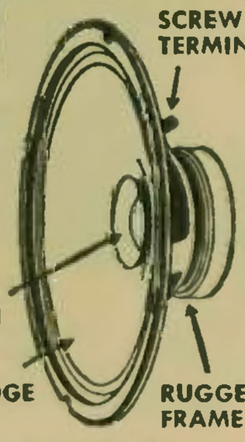
★ 15 Watts Power
★ Response 40-15,000 CPS

This beautifully crafted loudspeaker has a richness of tone which belies its size. A one inch, 8 ohm double wound voice coil with special felt centering, excellent quality fibre cone, and concentric exponential high frequency whizzer. Heavy duty ticonal magnet. Priced at far less than its worth due to an OLSON mass purchase. Use for main system or as add-on speakers in den, bedroom, etc. Size: 8" diam. x 2¾" deep. Shipping weight 3 lbs.

Anthony F. Geiger, Box 925, 321 W. Benham, Glendive, Mont., wins choice of merchandise worth $5 from Olson's "Treasure Hunt." See back cover for instructions.




# Olson "Castle Bell" 8" Full Range SPEAKER



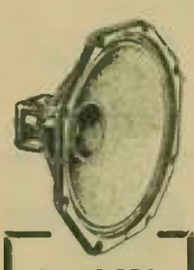

**No. S-548**

**$5.98**

**2 for $11.50**

★ Heavy Duty Ceramic Magnet
★ Resp.: 30-16,000 CPS
★ Imported From England

Made in England by unhurried craftsmen who are proud to produce precision speakers to exacting specifications. A full range, heavy duty 8" speaker featuring a rugged ceramic magnet and double wound voice coil. The flexedge cone and exponential high frequency whizzer deliver smooth rich bass and crisp clean highs. Ideal for space saving stereo systems or extension speakers for stereo or hi-fi. Don't miss this TOP VALUE! Response 30 to 16,000 cps. Impedance 8 ohms. Shipping weight 4 lbs. **Write for special large quantity prices.**



## Norelco 8" Hi-Fi SPEAKER

Model AD-3800

★ 60-19,000 CPS
★ Ticonal Magnet
★ Power Cap. 8 Watts

**No. S-278**

**$4.99**

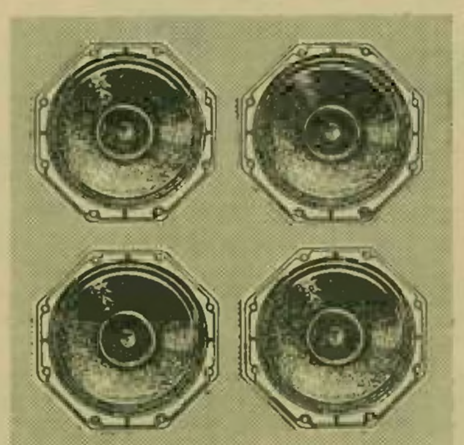
**2 For $9**

Precision made 8" speaker with coaxially mounted dispersion cone. Imported from Holland. Ideal for stereo and hi-fi extension speakers or PA and intercom installations. Size: 8" x 3⅜". Impedance: 8 ohms. Shpg. weight 3 lbs.

24 Ga. Speaker Cable, 53 Ft. No. W-361 ..... 99c
Crossover Capacitor Kit No. AS-552 ..... $1.50

# SAVE "HI-FI FOUR"

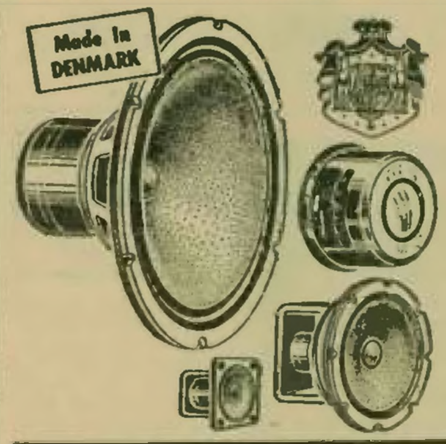
Norelco



**No. AS-892**

**ALL FOUR $16**

Added cone area improves bass response. Get big speaker sound at small speaker costs. Buy now and take advantage of this special low price. Shipping weight 12 lbs.




"Shield Crest"

# SPEAKER SYSTEM

• Response 25 to 18,000 CPS; ± 4DB
• Power Handling Capacity 25 watts

**No. S-566 ALL 3 SPEAKERS (PLUS) Crossover Network**

**$24.98**

**2 SYSTEMS $48**

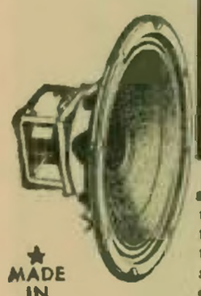
Rarely are we able to offer a set of Danish speakers as fine as these. Made by the largest and best Danish speaker manufacturer. Consists of a 12" woofer, a 5" midrange and a 2" tweeter. Also included is a precision crossover network which matches these speakers exactly and gives electronic cross-over frequencies at 750 cps and 4000 cps. Overall impedance 8 ohm matches any amplifier. Easy to hook up instructions supplied. Shipping weight 14 lbs.

## INDIVIDUAL UNITS AVAILABLE

| | |
|---|---|
| 2" TWEETER: Resp. 3,000—18,000 CPS Power 5 Watts, No. S-345 | ea. $ 3.49 |
| 5" MID-RANGE: Resp. 750—6,000 CPS; Power 5 Watts, No. S-346 | ea. $ 5.98 |
| 12" WOOFER; Resp. 25-900 CPS; Power 20 Watts, No. S-347 | ea. $13.98 |
| CROSSOVER NETWORK No. T-257 | ea. $ 8.98 |
| LEVEL CONTROLS (Optional, 2 Required) No. VC-204 | ea. $1.39 |

"Sweet Sixteen"

# 5" SPEAKER



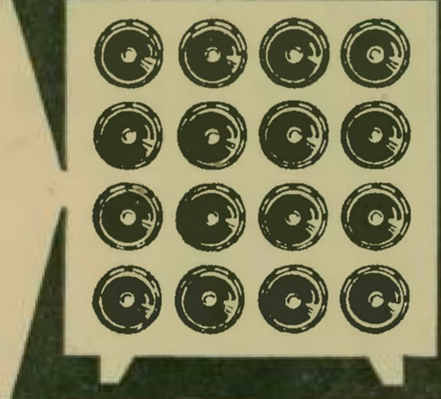
**No. S-340**

**$1.19**

**3 for $3.50**

The perfect 5" PM speaker for building the popular "sweet sixteen" system. (Instructions included.) Impedance 3.2 ohms. Weighs ½ lb each. Shipping weight ½ lb each.

★ MADE IN U.S.A.



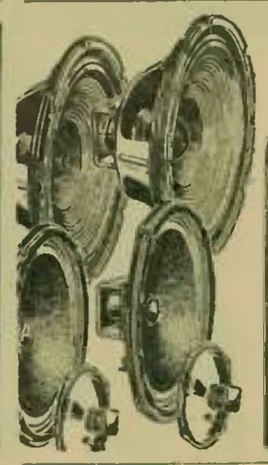
"SWEET SIXTEEN" Five - Inch

# 16 Speakers

**ALL 16 ONLY $17**

Big speaker sound at small speaker price. Speakers are the S-340 at left. A best seller. Shpg. wt. 5½ lbs.

24 Ga. Speaker Cable, 53 ft., W-361 ..... 99c



# Custom STEREO SPEAKER SYSTEM

## TWO 3-Way Speaker Systems

• 2—12" Woofers
• 2—6x9 Midranges
• 2—3x5 Tweeters

WAS ~~$30~~ in Cat. 363

ALL 6 SPEAKERS

**$19.95**

**No. S-509**

12" woofers contain phenolic voice coil forms for extreme low frequency. The 6" x 9" "Heart of the System" speakers provide the all important midrange while the 3" x 5" tweeters go up to a smooth and clean 18,000 cps. 8 ohm, 30 watt music power. System consists of two 12" woofers, two 6x9 super flex-edge midrange speakers, and two 3x5 totally enclosed tweeters, complete crossover networks, and all necessary wire, and hardware. Ideal for custom installations and built-in systems. Shpg. wt. 14 lbs.

Olson

# ALNICO V SPEAKERS

★ MAY BE ASSORTED FOR QUANTITY PRICES

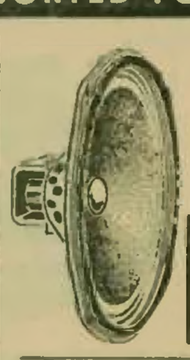
High quality PM speaker for replacements and original equipment applications.



4"x6" PM SPEAKER
• Compact
• Application: Extension or Replacement
• Ribbed Cone
• 3.2 Ohm
Shipping wt. 3 lbs.

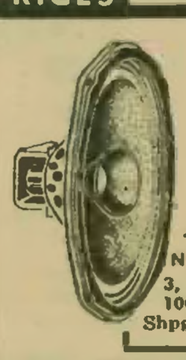
MADE IN U.S.A.

No. S-579 — 3 for $3.00 — **$1.19 EA.**



6" x 9" PM SPEAKER
• Application: Auto radios, etc.
• Voice Coil: 8 ohms
• Magnet wt.: 1.47 oz.
• Power: 8 watts
Shipping wt. 3 lbs.

No. S-224 — Each 3 @ $2.50 Ea. — 100, @ $2.16 Ea. — **$2.76**



6" x 9" HI-FI PM
• Aluminum Voice Coil
• Hi-Frequency Whizzer
• Application: Rear deck speaker, auto radio, etc.
• Voice Coil: 8 ohms
• Magnet wt.: 2.15 oz.
• Power: 8 watts

No. S-280 — 3, @ $3.33 Ea. — 100, @ $2.73 Ea. — Shpg. wt. 4 lbs. — **$3.69 Each**



2" PM SPEAKER

BARGAIN!

★ Replacement Spkr.
★ Experimental Use

Imp. 8 ohms, 0.5 oz. mag. 2" dia. x ⅞" deep. Shpg. wt. ¼ lb. Write for special large quantity prices.

**No. S-433**

**69c**

3 @ 63c each
100 @ 59c each



6" PM SPEAKER

For general replacement. Voice coil 3.2 ohms. 1.47 oz. magnet. Rated 5 watts. Shpg. wt. 3 lbs.

LOTS OF 100, EA. $1.73

No. S-7, Lots of 3, Ea. $2.09 ..... Ea. $2.29



5" x 7" PM SPEAKER

For replacement in auto radios, etc. Voice Coil: 8 ohms. 1.0 oz. magnet. Power: 6 watts. Shipping weight 3 lbs.

100, @ $1.99 Ea.
No. S-113, 3 @ $2.19 Ea., Ea. 2.49



8" PM SPEAKER

For general replacement. Voice coil 8 ohms. 2.15 oz. magnet. Rated 7 watts. Shpg. wt. 3 lbs.

LOTS OF 100, EA. $2.32

No. S-86, Lots of 3, Ea. $3.29 ..... Ea. $3.49



5" PM SPEAKER

For general replacement. Voice coil 3.2 ohms 1.0 oz. magnet. Rated 4 watts. Shp. wt. ¾ lb.

LOTS OF 100, EACH $1.47

No. S-336, 3 @ $1.67, ea., Ea. $1.79



4" PM SPEAKER

Ideal for replacement in radio, TV, or phono. Alnico 5 magnet. Shpg. wt. ¼ lb.

3 @ 80c
No. S-568, 100 @ 70c, ea. 89c



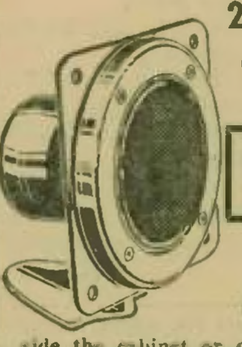
4" SPEAKER

• 3.2 ohm Voice Coil. .68 oz. magnet. Ideal for replacement in radio or phono. Shpg. wt. ¼ lb.

No. S-564 (3 @ 90c) ea. 99c

2" PM SPEAKER, Impedance 8 ohms, 0.5 oz. mag. 2" dia. x ⅞" deep. Shpg. wt. ¼ lb. Write for special large quantity prices.

3 for $2.30
12 @ 70c ea.
No. S-532 ..... Ea. **88c**



# JENSEN 12" Hi-Fi SPEAKER

with WHIZZER CONE

Was ~~$12.95~~ in 563 Cat. only **$8.88**

**No. S-551**

• Resp. 40-15,000 CPS • 20 Watt

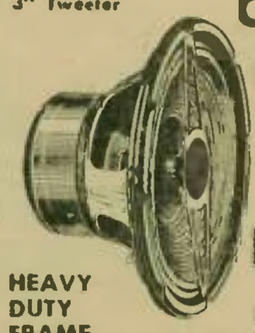
Integrated woofer and tweeter gives perfect balance of both high and low tones. Woofer cone radiates full rich bass while whizzer cone gives wide angle dispersion to high frequencies. 8 ohms. Crossover: 2000 CPS. Magnet: Ceramic (flux density 9500). Shipping weight 7 lbs.

Crossover Capacitor Kit, No. AS-552 ..... **$1.50**

"Golden Classic"

# 12" COAXIAL

12" Woofer
3" Tweeter



**No. S-311**

**$7.99**

**2 for $15.50**

HEAVY DUTY FRAME

Heavy frame, built-in crossover network, frequency response from 30 to 15,000 cycles. Capacity full 12 watts. Voice coil 8 ohms. 12" WOOFER SECTION faithfully delivers all the true natural bass and middle register tone. 3" TWEETER SECTION faithfully reproduces all the clean and brilliant highs, features the latest parabolic cone. Shipping weight 8 lbs.

# 2¾" HARD CONE TWEETER



**$2.49 No. S-297**

Ideal for "Sweet 16" plus 4". Finished in gleaming gold enamel, can be mounted inside the cabinet or on top. 15 watts. Response 1200 to 15,000 cps. 8 ohms. Size: 3x3x2". Shipping weight ¾ lb.

Crossover Capacitor Kit ..... No. AS-552, $1.50

# CROSSOVER CAPACITOR KIT



KIT OF 5

**No. AS-552 $1.50**

2 Kits for $2.95

This kit contains 5 popular values of non-polarized electrolytic capacitors. Ideal for crossovers in two or three speaker systems. Kit includes one each of the following values: 4, 10, 25, 50, and 100 mfd., plus a circuit diagram of two and three speaker systems. Shpg. wt. ¼ lb.

# Only The Sound Is Expensive!



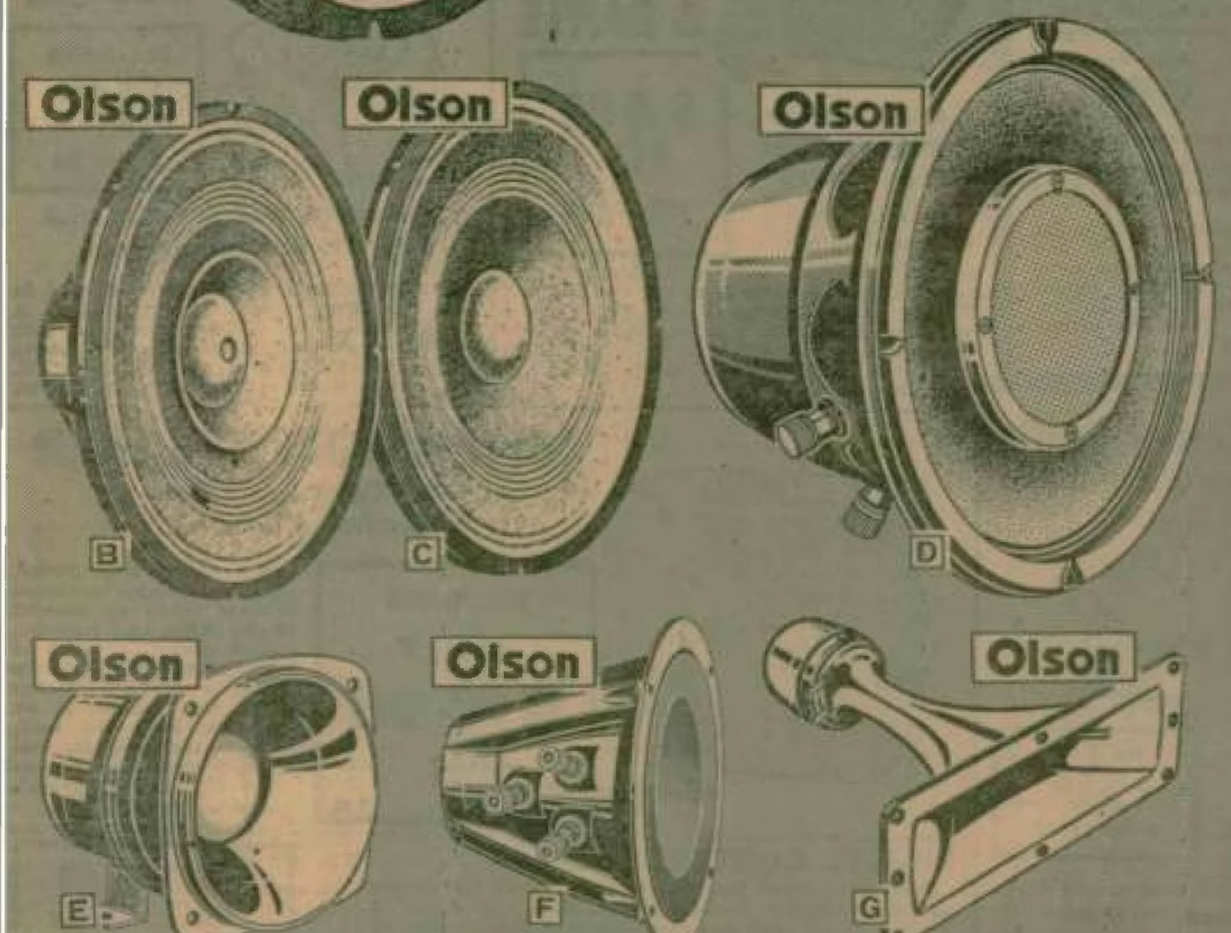

**$19.98** ★ No. S-600 — STEREO PAIR $39

## A 12" 3-WAY SPEAKER

• Built-in Crossover • Response 30-16,000 CPS

All of the latest advances in speaker design have been incorporated in this revolutionary 3-way speaker. Phenomenal bass, full-bodied mid range and silky smooth upper octaves are reproduced with unusually pleasing musical balance. Features heavy-duty die cast frame plus ribbed cone construction and independent compression horn tweeter. Use two of these fine speakers for the ultimate in stereo reproduction. Response: 30-16,000 CPS. Mechanical crossover 1800 CPS, electrical crossover 1,000 CPS, power handling capacity: 20 watts, impedance 8 ohms. Shipping weight 11 lbs.

W. D. Peck, 262 Union St., Pennington, Vt., wins choice of merchandise worth $5 from Olson's "Treasure Hunt." See back cover for instructions.







## B 12" Full Range LOUDSPEAKER

★ Response: 30-16,000 CPS — No. S-495

Features a heavy duty die cast frame. The heavy magnet and ribbed cone contribute to the excellent sound of this speaker. Features whizzer cone for extended high frequency response. Frequency response 30-16,000 CPS, power handling capacity: 20 watts, impedance 8 ohms, rugged slimline design. Size: 12" dia. x 3½" D. Shipping weight 11 lbs.

$13.95 — 2 For $26.50

CROSSOVER CAPACITOR KIT, No. AS-552 $1.50

## C 12" WOOFER

★ Response: 30-3500 CPS — No. S-541

This superb speaker features remarkable transient response along with rich full-bodied bass. Rugged heavy-duty die cast frame plus an accordion edge cone assures greatly improved bass response. Use to assemble new 2 and 3 way high-quality speaker systems at a budget price or modernize your old hi-fi or stereo. Response 30-3500 CPS, power handling capacity: 20 watts. Impedance 8 ohms. Shipping weight 10 lbs.

$13.95 — 2 For $26.50

CROSSOVER CAPACITOR KIT, No. AS-552 $1.50

## D 6½" COAXIAL SPEAKER

★ Response: 50 to 16,000 CPS — No. S-496

Ideal for apartments or small rooms where space will not permit larger speakers. Features heavy duty magnet and 2" shielded tweeter with LC crossover network. Impedance: 8 ohms. Response: 50 to 16,000 CPS. Power capacity: 10 watts. Shipping weight 4 lbs.

$6.85 — 2 for $12.75

## E Deluxe HORN TWEETER

No. S-599

Entirely enclosed in metal case. Tweeter can be mounted to front of cabinet or on attached self-supporting stand. Response to 15,000 CPS. Requires 3" mounting hole. 8 ohm. Size: 4 x 3½". Shipping weight ¾ lb.

$3.49 — 2 For $6

Olson SPEAKER SYSTEM, S-541 Woofer (above) S-599 Tweeter (above) T-294 Crossover (pg. 14), No. AS-827 (Stereo Pair $32) ALL 3 FOR $16.28

## F HARD CONE TWEETER

No. S-533

Features built-in 2500 CPS crossover or it can be easily connected to your existing crossover network. Die cast frame. Resp.: 2,000-18,000 CPS; Impedance: 8 ohms, power cap. 15 watts; Diameter: 4 in. Shipping weight 1¼ lbs.

$5.95 — 2 For $10

Olson SPEAKER SYSTEM, S-541 Woofer (above) S-533 Tweeter (above), No. AS-758 (Stereo Pair $22), BOTH FOR $16.98

## G Compression HORN TWEETER

No. S-547

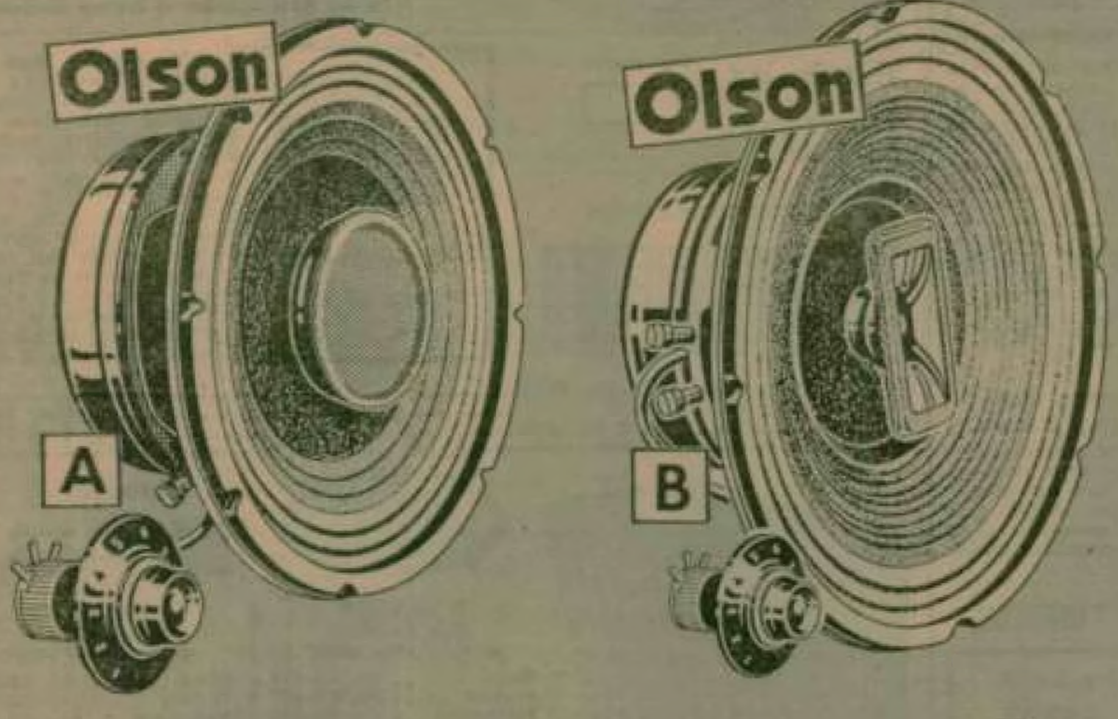
Electronically equivalent to: Electro-Voice MFT, Jensen ORP291, University 4401. Use with any 8, 12 or 15" speaker. 1,000 CPS to 18,000 CPS. Cast aluminum horn. 20 watts. 8 ohms. Size: 4" H x 10½" W x 11½" L. Shpg. wt. 5 lbs.

$7.99

Olson SPEAKER SYSTEM, S-541 Woofer (above) S-547 Tweeter (above) T-294 Crossover (pg. 14), No. AS-828 (Stereo Pair $37), ALL 3 FOR $19.85

# Quality Engineered High Fidelity Speakers

Designed And Built For Olson By A Leading U.S.A. Manufacturer.




## A 8" 2-WAY SPEAKER

• High-Compliance Woofer • High-Efficiency Tweeter • Crossover With Level Control

No. S-577

In the 8" Olson 2-way speaker a genuine, high-compliance woofer reproduces only the bass tones . . . and it does it so faithfully that you will think it is a much larger speaker. The cloth annulus allows complete freedom of movement so that woofer cone can follow intricate low frequency wave forms without distortion. Electrical crossover then channels the remainder of the sound to the tweeter where it is properly reproduced by the highly efficient tweeter. Thus complete musical balance and harmony is achieved in this Olson 2-way speaker system. Overall frequency response is 40 to 15,000 cps. Power capacity 10 watts. Impedance: 8 ohms. Magnet: (woofer) ceramic, 6 oz. (tweeter) Alnico, .5 oz. Built-in level control permits adjustment of tweeter to suit your taste. Has binding post connections for quick, no-solder hook-up. Shipping weight 6 lbs.

$16.98

★ SAVE — BUY A STEREO BALANCED PAIR — 2 FOR $30

## B 12" 3-WAY SPEAKER

• High-Compliance Woofer • Horn Loaded Supertweeter • Ceramic Magnet

No. S-573

Olson has combined, in a single compact speaker, the most desired features of the finest three-way systems. 3-in-1 concentric design incorporates a compression horn tweeter plus a midrange defuser and a high compliance woofer. Each element faithfully reproduces its own portion of the audio spectrum. Phenomenal bass response, full bodied mid-range and silky smooth upper octaves are reproduced with unusually pleasing musical balance. Handles 20 watts of program material with peaks to 40 watts. Frequency response 35 to 16,000 cps. Mechanical crossover at 2,000 cps, electrical crossover 3,500 cps. Level control on tweeter adjusts to suit your taste. Impedance 8 ohms. Magnet weight (woofer) 13 oz. (tweeter) 2.5 oz. Shipping weight 10 lbs.

$29.98

★ SAVE — BUY A STEREO BALANCED PAIR — 2 FOR $53

## C 12" 3-WAY SPEAKER

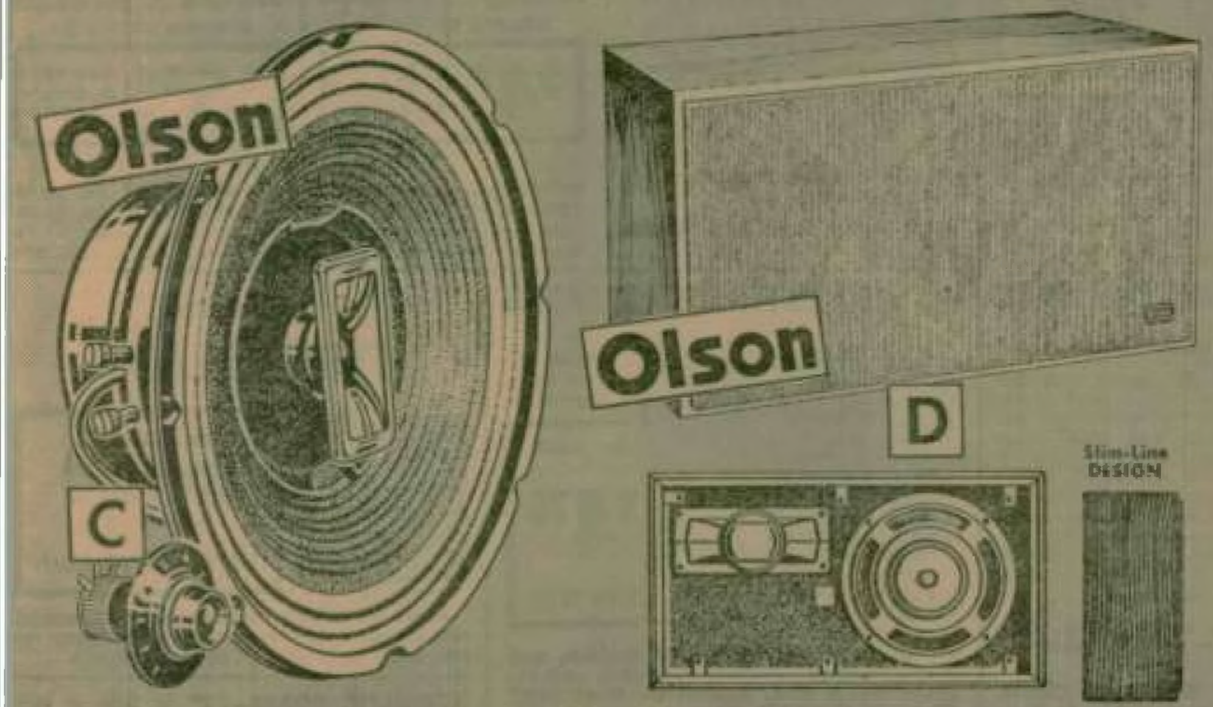
• High-Compliance Woofer • 1¾ lb. Ceramic Magnet • Horn Loaded Supertweeter

No. S-575

Manufactured by a world leader in quality loud speakers. This expertly designed speaker will prove its quality the moment you turn on your music system. From full rich bass to crisp clear highs every note is flawlessly brought to life. All frequencies below 3000 cps are reproduced by the powerful 12" woofer. With its cloth suspension and large 1¾ lb. magnet this is one of the finest woofers available at any price. Sounds above 2,000 cps are reproduced by an elliptical midrange element, at 4,800 cps the "supertweeter" takes effect and the result is an unbelievable balance from one end of the audio spectrum to the other. Response 30-18,000 cps. Power capacity 30 watts with 50 watt peaks. Impedance 8 ohms. Magnet weight: (woofer) 1¾ lb. (tweeter) 4.84 oz. Level control adjusts tweeter to suit your taste. Shipping weight 15 lbs.

$39.98

★ SAVE — BUY A STEREO BALANCED PAIR — 2 FOR $69.98




## D 2-WAY SPEAKER SYSTEM

• Genuine Oiled Walnut • 8" High Compliance Woofer • Horn Tweeter

No. S-570

In Olson's new two-way speaker system, full-range reproduction is achieved by expert blending of two high quality speakers: a high-compliance, long-travel 8" genuine woofer and a special horn loaded compression driver tweeter. This new system comes to you in a full size but gracefully slender cabinet that combines big speaker performance with elegant appearance. The wood is genuine walnut veneer in oiled finish. A new custom-woven grille fabric provides a distinguished decorator touch. Size: 10" x 16" x 6¼". Response: from smooth low frequencies thru 18,000 cps. Impedance: 8 ohms. Shipping weight 22 lbs.

$37.88

★ SAVE — BUY A STEREO BALANCED PAIR — 2 FOR $70

SAVE



# Olsontone 24"x36" GRILLE CLOTH

$1.39 IN 164 CATALOG

**99c**

Write for Special Large Quantity Prices

★ Will Not Snag, Scuff or Fade
★ EASY TO INSTALL

Mahogany ..... No. CA-214
Blonde ..... No. CA-213



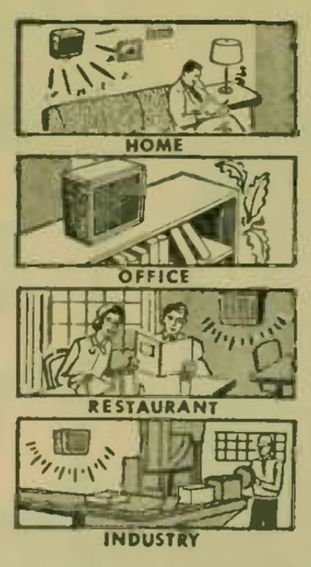
USE IN REMODELING

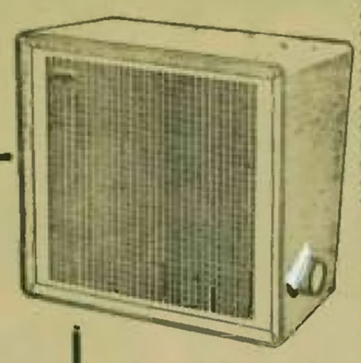


USE IN NEW CONSTRUCTION

Give those old enclosures a new look at a fraction of original cost. Pattern may vary from illustration. An OLSON BEST BUY! Shipping weight, 1¾ lbs.

# 8" & BAFFLE SPEAKER



$8.91

3 for $26
No. S-409

★ Level Control
★ Shelf-Wall Mounting

Satin Smooth hi-impact plastic baffle with level control and rugged 8" speaker wired and installed. Ideal for churches, schools, public buildings, or use around the house as an extension on radio, TV or phono. Attractively styled to match any decor. 4 watts 8 ohms. Response 50 to 9,000 CPS. Size: 10" x 9⅝" x 5 ⅞". Shipping weight 9 lbs.

SPEAKER CABLE, 53 ft., 24 Ga., No. W-361 ..... 99c



$1.99 ★

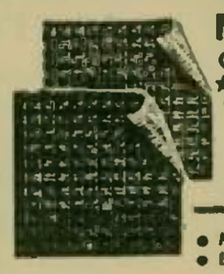
3 For $5.00
Write for Special Large Quantity Prices

## Olsontone GRILLE CLOTH

36"x36"
MAHOGANY
No. CA-71

BLONDE
No. CA-75

Ideal for modernizing old enclosures or in new construction. Pattern may vary from illustration. Shipping weight 1¾ lb.



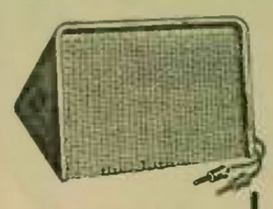
## MATCHED GRILLE CLOTH

★ 2 Pcs. 11" x 26"

Both For **99c**

● Mahog., No. CA-279
● Blonde, No. CA-278

Ideal for covering two cabinets for your stereo system. You get two pieces 11" x 26" of the same color and pattern. Each piece may be cut in two to cover four 8" wall baffles. Patterns may vary from illustration. Shipping weight ½ lb.



## Extension SPEAKER & BAFFLE

★ 4"x6" Speaker
★ Walnut Cabinet
★ Hang on Wall
★ Set on Desk
★ Cane Grille

$4.98
No. S-563

Attach to your transistor radio to get big set performance. Also ideal for any radio, TV or Phono. Equipped with 18" cables which are terminated with miniature phone plugs. One plug is ¼" in diameter and the other one is ⅛". Size: 5" x 5⅛" x 5½". Shipping weight 4 lbs.

## EXTENSION SPEAKER

★ 10 FOOT CABLE



No. S-584
$1.49
3 For $4

★ Hang On Wall or Set on Desk
★ For TV, Radios, or Phonos

Large magnet, PM speaker mounted in an attractive, molded plastic cabinet. A 10 ft. cable extends from bottom of case and is terminated in two miniature phone plugs. Size: 4⅛ W x 4⅛ D x 2 ⅝" H. Impedance 8 ohms. Shipping weight 2 lbs.

Olson — 8 Ohm Monaural
## LEVEL CONTROL



$1.39 No. VC-204
3 for $4.00
12 @ $1.25 ea.

For use with any speaker to provide separate and independent control of speaker volume, 20 watts. Shipping weight ¼ lb.

STEREO LEVEL CONTROL, Dual 8 ohm controls conveniently mounted on one panel, individual knobs. Shpg. wt ½ lb.

No. VC-269, 3 for $6.90, Ea. ..... $2.39

## OLSON POWER CONTROL BOX



Controls power separately to any 3 appliances. 6 foot cord. Size: 4" x 2⅝" x 1⅝". 5 amps @ 125 volts AC-DC. Shpg. wt. ¾ lbs.

No. SW-141 3 for $7.00 Ea. **$2.49**

## STEREO SPEAKER SWITCH



No. SW-234
$1.99

Dual 7 position switches permit the selection of all or 7 different combinations of any 3 pairs of speakers. Ivory knob with gold finish plates. Instructions included. Size 2¾" x 4½". Shipping weight ½ lb.

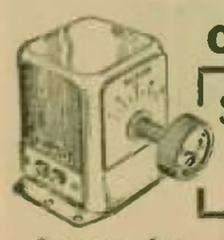
## 3-WAY Speaker Crossover



No. VC-208
$8

Separate controls for midrange and tweeter. Crossover frequencies 500 and 3100 CPS. Size 6" x 4½" x 3". Shipping weight 5 lbs.

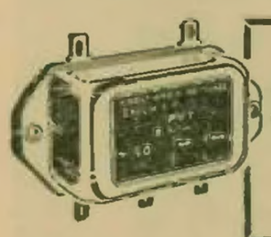
Speaker
## CROSSOVER



$5.97 No. VC-222
2 for $11
Lots of 6, Ea. $4.75

Crossover freq. 4000 CPS. Extra long shaft allows network to be mounted in wood panels up to ¾" thick. Features tweeter level control. Impedance 8 ohms. Size: 4 ⅝" W x 3" D x 2¼" H. Shipping wt. ¾ lbs. Made in U. S. A.

2-Way
## CROSSOVER



No. T-294
$2.97
3 for $8.50
12 @ $2.50 ea.

2,000 cps "LC" crossover, channels high frequencies to tweeter and low frequencies to woofer. Impedance 8 ohms. Size: 3⅛" W x 1⅝" x 1¾" Shipping weight ⅛ lb.

## BAFFLE & 8" SPEAKER



SAVE! No. CA-136
$6.51

3 for $18—Lots of 12, Ea. $5.00

Response: 50 to 10,000 CPS. Voice coil 8 ohms. Rated 6 watts. Speaker mounted. Size: 10" x 10" x 3¾". Shpg. wt. 4 lbs.
Speaker Cable, 53', 24 ga., No. W-361 ..... 99c

## Universal CABLE KIT

★ Makes Any Type of Connection

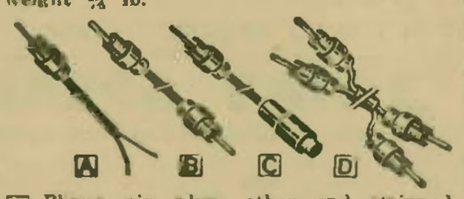


Includes phono and phono type plugs plus clips. Ideal for connecting tuner to amplifier or tape recorder to radio, TV or phono. Shipping weight ¼ lb.

No. W-422
$1.59
PER KIT

## AUDIO CABLES

For quick connection between phonos, amplifiers, tuners, etc. Shielded cable with grey plastic outer sheath. Shipping weight ¼ lb.




A Phono pin plug, other end stripped and tinned, 3-ft. cable.
No. W-325, 3 for $1.00 ..... 39c

B 2 phono pin plugs, one on each end. 5-ft. cable.
No. W-321, 3 for $1.79 ..... 65c

C Phono pin plug, other end phono pin jack. 5-ft. cable.
No. W-341, 3 for $1.79 ..... 65c

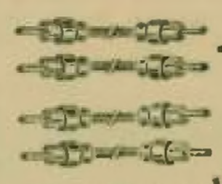
D Dual phono cable with pin plugs on each end. Color-coded for identification.

3-FT. DUAL CABLE, Color Coded
No. W-440, 3 for $3 ..... $1.17

6-FT. DUAL CABLE, Color Coded
No. W-441, 3 for $3.50 ..... $1.35

## 36" Audio Cables

★ KIT OF 4



No. W-450
$1.79

Color coded cables, RCA type plug on each end. Shipping weight ¼ lb.

## AUDIO CABLE KIT

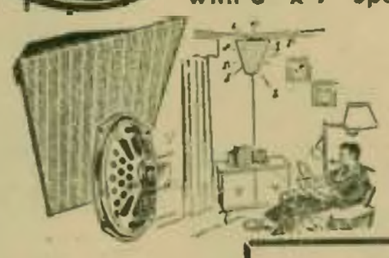


Consists of 3' audio lead with pin plug, other end tinned and stripped; 6' audio lead with pin plugs; 1 dual inline jack. Shipping weight: ¼ lb.

No. AS-481, 4 for $3.50 per kit ..... **99c**

Olson
## Corner Baffle

with 6" x 9" Speaker



Response: 50 to 11,000 CPS. Size: 14⅝" H x 10½" W x 5¾" D. Rated 6 watts. Voice coil 8 ohms. Speaker is mounted. Mahogany grained. Shipping weight 4 lbs.

No. S-419
$5.96
3 For $17.50

Speaker Cable, 53', 24 ga., No. W-361 ..... 99c

RCA
Extension
## SPEAKER

★ Includes 15 Ft. of Cable



No. S-586
$1.99

Heavy duty 4" PM speaker mounted in a leather carrying case. Ideal for extension on radio, TV, Phono or Tape Recorder. Case has convenient carrying handle. 15 foot 2 conductor cable is attached to speaker and anchored to inside of case. Size: 8¼" W. x 6" H. x 2⅞" D. Impedance 4 ohms. Shpg. wt. 3 lbs.

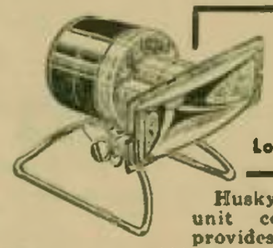
## Stereo/Mono Speaker Switch



No. SW-130
$1.69
3 for $5.00
12 @ $1.40 ea.

Control up to 3 pairs of stereo speakers or 1 to 6 monaural speakers. Remotes may be switched in or out of circuit without effecting amplifier load. Can be used with 4 or 8 ohm speakers. Gold panel 3⅝"x2¼". With instructions. Shipping weight ¼ lb.

Olson
## HORN TWEETER



No. S-307
$8.95
2 for $17.50
Lot of 6, Ea. $8.00

Husky 20 watt driver unit coupled to horn provides uniform response from 2000 cps to above audibility. For use with any 8", 10", 12", or 15" speaker. Heavy die cast frame. Stand may be removed for internal mounting. Impedance: 8 ohms. Shpg. wt. 4 lbs.

## STEREO SPEAKER WALL JACK



★ 2 Phone Plugs Included

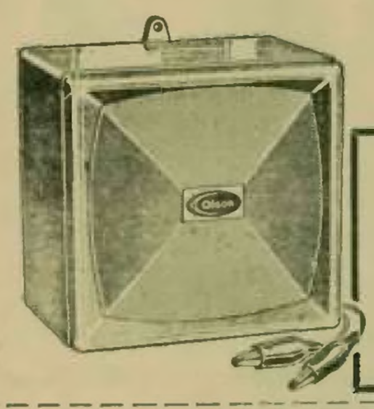
Two ¼" jacks mounted on a standard wall plate. Two ¼" phone plugs are included. The wall plate can be mounted on a standard electrical outlet box or mounted directly on the wall. All hardware and mounting brackets are included. Ivory finish. Size: 2¾" x 4½". Shp. wt. ½ lb.

3 for $4.00
No. PL-97 ..... **$1.49**

Jones Radio & TV Serv., 1400 Church St., Norfolk 4, Va., wins choice of merchandise worth $5 from Olson's "Treasure Hunt." See back cover for instructions.

## EXTENSION SPEAKER

★ 20' Cable and Clips
★ Handsome Cabinet



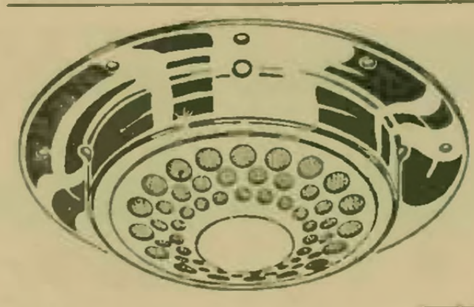
No. S-494
ONLY
$2.98

An attractively styled, easy to listen to extension speaker ready to connect to any radio, tape recorder, record player, or other sound source, just clip across present speaker leads. Can be placed on table or hung on wall, hanger included. Neutral color, 8 ohm. Plastic case. Size: 4½" x 4½" x 2½". Shipping weight 3 lbs.

## REMOTE CONTROL SPEAKER

Similar to above but has volume controls for remote and main speaker, bargain priced. Size: 4½" x 4½" x 2½". With 20' cable and instructions. 8 ohms. Shipping weight 3 lbs.

No. S-549 **$4**



Ceiling-Wall
Olson
## SPEAKER

Mounts Flush Without Cutting Hole!

★ 6" Speaker Factory Mounted
★ The Perfect Extension Speaker
★ Ready to Mount and Connect
★ For Rear Speaker in Station Wagons

Thin Design



Old Design



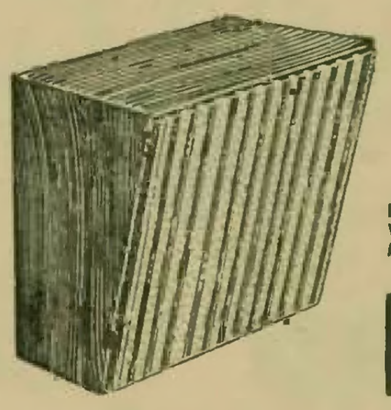
SPEAKER RESPONSE CURVE



No. S-394
$4.99
3 for $14.50
Lots of 12, Ea. $4.50

Mounts on wall or ceiling. Perfect for built-in Hi-Fi systems adding extensions to your present system. Ideal for all kinds of background music systems. Styled to blend tastefully with any decor. 6" speaker delivers rich full tone. Response: 60 to 13,000 cps. Voice coil 8 ohms. Overall depth is only 3". Finished in brushed gold. Shpg. wt. 2 lbs.

24 Ga. Speaker Cable, 53 ft. No. W-361 ..... 99c
Volume Control No. VC-204 ..... Only $1.39
Line Transformer No. T-110, 3 for $4.50 ..... Each $1.71



★ Scuff Resistant, Washable, Paintable, etc.
★ For Paging, P. A., School Rooms, Offices, etc.

Olson
Speaker
## BAFFLES

8" BAFFLE
(Less Speaker)
★ 10½"x9¾"x6½"
Blond ..... No. CA-216
Walnut ..... No. CA-259
Mahogany ..... No. CA-218
Shipping wt. 2½ lbs.

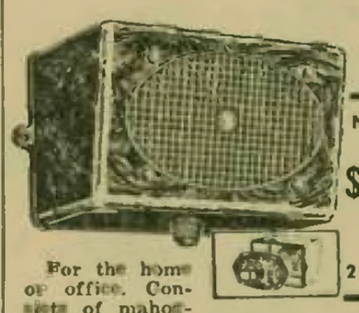
$4.89 Lots of 6, Each $4.19

12" BAFFLE
(Less Speaker)
★ 14"x13⅝"x9⅛"
Blond ..... No. CA-215
Walnut ..... No. CA-258
Mahogany ..... No. CA-217
Shipping wt. 2½ lbs.

$5.69 Lots of 6, Each $4.99

ACCESSORIES:
8" PM Speaker No. S-86, Shipping Wt. 2 lbs. ..... Ea. $3.49
12" RCA PM Speaker, S-442, Shpg. Wt. 5 lbs. ..... Ea. $5.98
Line Transformer No. T-110 ..... Ea. $1.71
Speaker Cable No. W-361 (53 ft.) ..... 99c

## 6" x 9" EXTENSION SPEAKER



★ With Volume Control

No. S-408
$4.70
2 for $9.00

For the home or office. Consists of mahogany color molded baffle, 6x9 speaker, and speaker volume control, hardware and instructions. 8 ohm. Assembled. Size: 10¾" W x 4½" D x 8" H. Shipping weight 4 lbs.

Speaker Cable, 53' 24 ga., No. W-361 ..... 99c

Acoustical
## FIBERGLASS



No. CA-256
$1.29
12 @ $1.00 Each

Ideal for lining speaker cabinets, sound insulating motor compartments. Easy to cut, glue, or staple. 9 sq. ft. package.

ACOUSTIC FOAM—72" x 18" x ½"
Easily Cut To Any Size
No. CA-62, 3 for $6 ..... $2.57

# GIANT SURPRISE KIT




BUY NOW!

A deluxe HIGH VALUE Surprise Kit worth MANY TIMES Olson's low, low price! Kit may contain transformers, motors, relays, capacitors, resistors, controls, wire and countless other valuable components. Shipping weight 20 lbs.

No. AS-700 ONLY $5

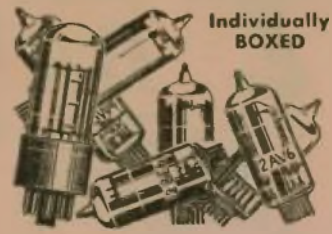
## 5 LB. SURPRISE KIT

★ Many Valuable Components
Shipping Weight 7½ lbs.

No. AS-137 ..... $1.98

# TUBE BARGAINS

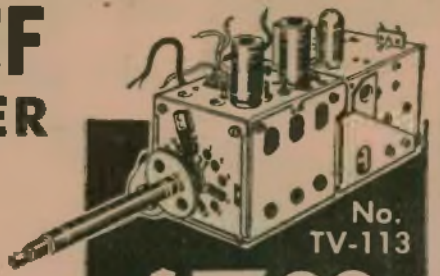
★ *Famous Brands*




| TUBE TYPE | ORDER STOCK NO. | PRICE EACH |
|---|---|---|
| 0A2 | Z-312 | $ .75 |
| 1AG5 | Z-317 | 1.00 |
| 1L6 | Z-293 | 2.00 |
| 1K3 | Z-308 | .69 |
| 1U4 | Z-291 | 1.00 |
| 1U5 | Z-314 | .59 |
| 2AF4 | Z-288 | 1.25 |
| 3AL5 | Z-326 | .39 |
| 3BC5 | Z-278 | .59 |
| 4DT6 | Z-294 | .79 |
| 5AN8 | Z-319 | .79 |
| 5AV8 | Z-300 | 1.25 |
| 5AT8 | Z-286 | .79 |
| 5EA8 | Z-299 | 1.00 |
| 5U8 | Z-292 | .79 |
| 5Y3 | Z-307 | .39 |
| 6AH6 | Z-279 | 1.00 |
| 6AN8 | Z-311 | .79 |
| 6AU5 | Z-276 | 1.50 |
| 6CL8 | Z-281 | .89 |
| 6CM7 | Z-320 | .69 |
| 6SF5 | Z-327 | 1.25 |
| 6SL7 | Z-324 | .79 |
| 7F7 | Z-290 | 2.75 |
| 8AW8 | Z-280 | 1.20 |
| 8CM7 | Z-277 | 1.00 |
| 10DE7 | Z-305 | 1.20 |
| 12AU7 | Z-306 | .69 |
| 12AX7 | Z-303 | .59 |
| 12BF6 | Z-310 | .79 |
| 17AX4 | Z-282 | .59 |
| 17DQ6 | Z-295 | 1.00 |
| 19T8 | Z-285 | 1.00 |
| 25CD6 | Z-297 | 1.25 |
| 25DN6 | Z-316 | 1.50 |
| 25Z6 | Z-321 | 1.00 |
| 35W4 | Z-289 | .42 |
| 117Z3 | Z-315 | 1.60 |
| 7189 | Z-298 | 1.00 |
| EF-86 | Z-318 | 1.00 |
| EM-84 | Z-325 | 1.00 |

# UHF/VHF TV TUNER

★ Includes Tubes
★ Switch Type



Popular switch type tuner for replacement in combination UHF-VHF TV sets. You may want to use this tuner to convert your old set for UHF reception. Includes one each of the following tubes: 6X8, 4B67A and 6T8. Size of tuner is 7⅛" x 3¼" x 8⅝". Shaft length 4". Shipping wt. 5 lbs.

No. TV-113 $7.99

# UHF/VHF TV TUNER

★ Includes Tubes
★ Standard Coil Type



Modernize your old VHF TV set by installing this new UHF-VHF Tuner. Popular standard coil type tuner. Includes one each of the following tubes: 2AF4A, 2BN4 and 6CG8. Size 4⅝" x 3¼" x 5½". Shaft length ⅞". Shipping weight 5 lbs.

No. TV-114 $7.99

# TV TUNERS

STOCK UP NOW

TOP VALUE

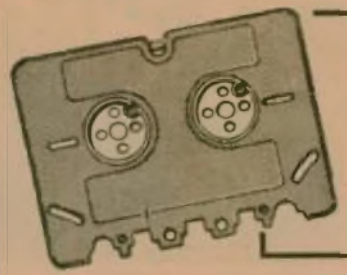
LIMITED QUANTITIES




OLSON TUNER
BARGAIN
NO. TV-109
$1.88

Popular Standard Coil Tuners. All kinds, all sizes, less tubes. Ideal for repair parts. Install new tubes and tuner may be in working order. Quantities are limited so stock up now. Shpg. wt. 3 lbs.

## Olson TAPE CARTRIDGE KIT



No. TA-48
(Less Tape)
PER KIT . . . **$1**
Write for special large quantity prices

4 KITS plus 2400 FT. MYLAR TAPE — No. AS-734 — $5.91
Shpg. wt. 3 lbs.



NOW! Assemble your own tape cartridge in minutes—and save.



All mechanical parts and materials to make a standard tape cartridge.



Cartridge fits all standard cartridge recorders such as Viking, RCA, Bell and others.



Complete with easy to follow instructions.

## 2" PM SPEAKER *BARGAIN!*

ACTUAL SIZE



No. S-433
**69c EA.**
3 @ 63c each
100 @ 59c each

- ★ Replacement Speaker
- ★ Miniature Microphone
- ★ Stereo Headphones
- ★ Experimental Use

A large volume purchase makes possible this unusually low price on this fine miniature speaker. Use anywhere sound reproduction is desired in a very limited space. Imp. 8 ohms, 0.5 oz. mag. 2" dia. x ⅝" deep. Shipping weight ¼ lb. Write for special large quantity prices.



HERE'S ANOTHER BARGAIN:

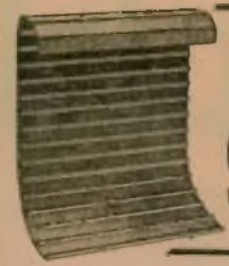
### 2¼" PM SPEAKER

Use as concealed microphone or simply as a replacement speaker in transistor radios and intercoms. Use anywhere sound reproduction is desired in a very limited space. Impedance 8 ohms, 0.5 oz. mag. 2⅛" dia. x ⅝" deep. Shpg. wt. ¼ lb. Write for special large quantity prices.

No. S-532, 3 for $2.30
12 @ 70c ea. — EACH **88c**

## TAMBOUR DOOR

★ 2 Sections 11¼" x 16½"
★ Expandable



No. X-947
ONLY
**99c**

Panel strips may be added or removed to adjust size. Perfect for making your own sliding doors or partitions. Each strip is made of flexible black plastic almost indestructable. Each 11¼" x 15½" section is composed of 9 interlocking strips. The two sections may be slipped together to make one 22½" x 16" door or you may connect many sections together to make door as large as desired. Shpg. weight ¼ lb.

Telechron
## CLOCK MOVEMENT

★ Sleep Switch



MADE IN U.S.A.

No. X-931
**2.99**

Automatic timer switch can be attached to any radio or appliance. Turns radio or appliance on at preset time. Sleep switch can be set to turn off appliance after 60 minutes. Ideal for radios so you can fall asleep to music. Switch rating 15 amps at 125 volts. Motor operates on 117 volts AC, 60 cps. Shipping weight 2 lbs.

## 3" FURNITURE LEGS

★ Wood & Plastic



YOUR CHOICE
SET OF 4 . . **88¢**

| WOOD | |
|---|---|
| STOCK NO. | FINISH |
| CA-285 | UNFINI. |
| PLASTIC | |
| CA-289 | BLONDE |
| CA-290 | WALNUT |
| CA-291 | MAHOG |

3" legs in many modern finishes ideal for building small tables, etc. Some are finished some are unfinished and can be painted to match your furniture. Approx. shipping weight 4 lbs. Made in U. S. A.



Cabinet
## HARDWARE KIT

★ 12 Pieces

No. AS-847
**99c**

Generous assortment of all kinds of cabinet hardware. You're sure to find just what you need to repair furniture or cabinets. Kit contains several kinds of hinges, hooks and fasteners. Shipping weight 2 lbs.

## PLUG & SOCKET KIT

★ 6 Pair



No. AS-850
6 PAIR . . . **99c**

Kit of 6 pair of two pin plugs and sockets. Plug size: 1" dia. Socket size: 1½" x ⅝". Pins are of different sizes so plug fits only one way. Ideal for speaker plugs. Shipping weight ¼ lb.

Pilot Lamp
## Socket Kits

★ 10 Assorted Sockets



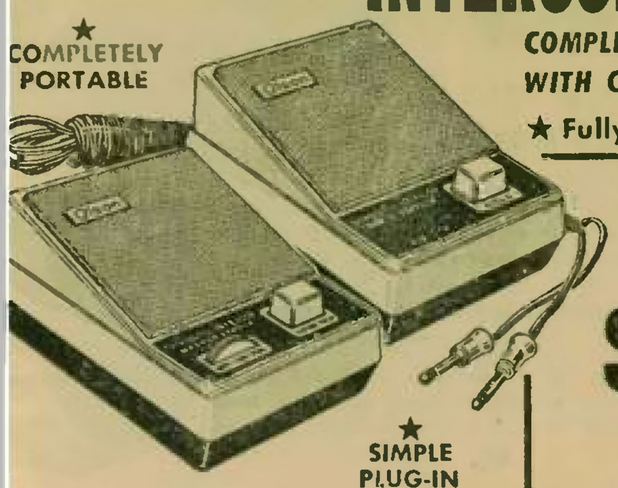
No. AS-848
**99c**

For bayonet type bulbs. Most often needed mountings. Many have long wire leads. Perfect for replacement in radio, TV or phone. Shipping weight ½ lb.

NEW

## Olson 2-Station INTERCOM SYSTEM

★ COMPLETELY PORTABLE



★ SIMPLE PLUG-IN CABLE

*COMPLETE FUNCTIONAL SYSTEM WITH CABLE AND BATTERY*

★ Fully Transistorized

No. AM-252

ONLY

**$9.95**

3 FOR $28.50

A beautifully styled intercom that is fully transistorized and operates on one 9 v. battery (included). The system consists of one master and one remote plus 66 ft. of light weight cable with plugs. Easy hook-up, no tools required. Simply plug cable into each unit and you are ready to operate. Also included with each kit is a roll of tape and wire tacks. Master station has switch and volume control. Special tone calling circuit permits remote station to call even when power is turned off. Size: (each unit) 7" w x 13¼" h x 4" d. Shipping weight 1½ lbs.

EXTRA BATTERY, No. BA-89 ..... Ea. **21c**




★ BUILD INTO WALL

Model 8406

## FASCO FM-AM RADIO INTERCOM SYSTEM

ALL STATIONS CAN INITIATE A CALL

No. AS-832

*COMPLETE SYSTEM*

**$99.99**

$10 MONTHLY
NO MONEY DOWN

Lots of 3, ea. $91.85

★ Phono Jack
★ 5 Remote Stations
★ Hardware & Wire Included

Master station panel is finished in brushed copper to blend with any decor. Complete system includes 1—master station with FM-AM radio and phono jack, 4—indoor remote stations with selector switches and one door remote station plus all hardware, wire and complete instructions. Master can call all remotes or play radio or phono through remotes. Remotes can call master or other remotes and can also answer door remote. Each remote is equipped with a hi-lo volume and selector switch. Radio features vernier tuning dial for easy tuning. All wiring is color coded and requires no soldering. Exclusive "Automatic Station Control" eliminates the complicated switching arrangements found on most radio intercoms. Remote stations may be operated as private or non-private units depending upon the setting of the selector switch. Size: Master, 15⅜" x 10¼" x 4". Indoor remotes: 8" x 8" x 1½". Outdoor remote 6" x 4" x 1½". For 110-125 v. AC. 60 cps. Shpg. wt. 26 lbs.

## BATTERIES




A B C D

BEST BUY!

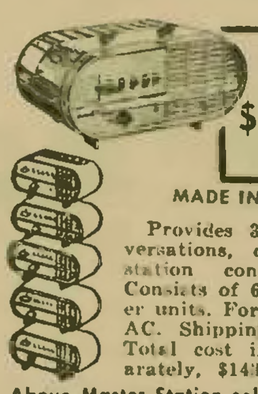
| | Stock No. | Volts | Replaces | Each | Lots of 10, ea. | Lots of 100, ea. |
|---|---|---|---|---|---|---|
| A | BA-85 | 9 | Burgess P-6, P-6M, RCA, VS-300, VS-314 and Eveready 226 ¼ lb. | 39c | 34c | 29c |
| B | BA-89 | 9 | Burgess, 2U6, RCA, VS-312, ¼ lb. Eveready 216, and NEDA 1604 | 21c | 20c | 19c |
| C | BA-99 | 67½ | Eveready 467, Burgess XX-45, and RCA VSO-16 ¾ lb. | $2.94 | $2.94 | $2.94 |
| D | BA-53 | 1½ | Burgess 2R, Eveready 950 or RCA VSO-36 ¼ lb. | 13c | 9c | 9c |

Clarence Barcus, Comm. Dept. USAAS, Ft. Knox, Ky., wins choice of merchandise worth $5 from Olson's "Treasure Hunt." See back cover for instructions.

Fanon-Masco ALL MASTER

## 6-STATION INTERCOM

Model FX-6B



No. AS-729
All 6 Units
**$135.00**

MADE IN U. S. A.

Provides 3 private conversations, or up to six station conference talk. Consists of 6 FX-6B master units. For 110-125 Volts AC. Shipping wt. 29 lbs. Total cost if bought separately, $148.40.

Above Master Station sold separately, No. AM-212, Shpg. wt. 4 lbs ..... $23.90

11 Conductor Universal Cable
No. W-354 ..... Ft. 7c

Remote station for use with above master unit for master remote intercom. Model FTB. Up to five remotes may be used with a master. Shipping weight 2 lbs.

No. AM-226 ..... $8.40

Fanon-Masco 2-STATION

## Wireless Intercom

★ Model FW 50 B



No. AM-227
BOTH FOR
**$49.95**

★ 3½" ALNICO MAGNET SPEAKER

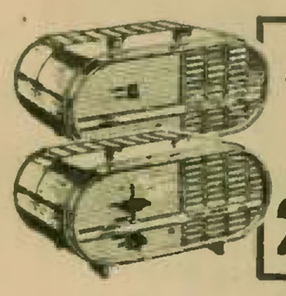
No wires to connect, just plug in and use. Features powerful 4 tube plus silicon rectifier amplifier . . . picks up at considerable distances. "Dictate" position on talk-listen switch permits operation as a baby sitter. Noise silencing control eliminates interference of power lines. Several stations may be added to any system. Size: 8¾" W x 4¾" H x 5¾" D. For 110-125 volts AC. Shipping weight 7 lbs.

Extra station for above. Shpg. wt. 3½ lbs.
No. AM-228 ..... $25.45

Fanon-Masco DELUXE

## TWO STATION INTERCOM

Model FX-2B



No. AM-211
BOTH FOR
**23.90**

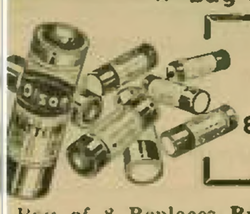
MADE IN U. S. A.

Sub-station can "originate" calls, or can be left open for baby sitting, dictation etc. or receive calls from master. Cabinet is 8¾" W. 4¾" H. 5¾" D. of high impact styrene. Black and gold trim. Complete with 50 ft. of 3 conductor cable. For 110-125 volts AC. Shipping weight 7 lbs.

Extra Cable—100 ft. Shpg. wt. 2 lbs.
No. W-105 ..... $1.50

## PEN-LITE CELLS

★ Bag of 8

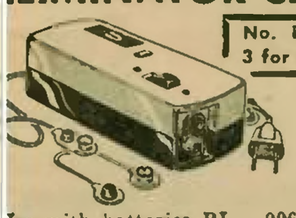


No. BA-67
8 for **59c**
24 for $1.50

Bag of 8 Replaces Burgess Z, Eveready 15, Ray-O-Vac 7R, etc. 1.5 volts. Shpg. wt. ¼ lb.

Transistor Radio Battery

## ELIMINATOR-CHARGER



No. BA-78, $2.93
3 for $8 Ea.

Charge batteries in 1 to 1½ hours. Converts transistor portables to AC. Use with batteries BL - 006P, MV - 006P, Burgess 2U6. For 110-125 volts. AC. Size, design may vary from picture. Shipping weight ½ lb.

Nickel Cadmium

## BATTERY CHARGER

★ Charge 1 to 10 Cells in Series



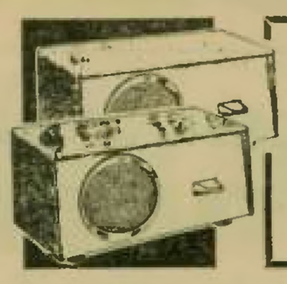
No. RA-602
**$9.95**

This unit will charge from 1 to 10 cells in series up to a maximum of 250 milliamperes. Battery manufacturers recommended charging rate is 10 per cent of rated cell capacity. Simply select correct charging rate in MA and read correct pointer aetting beneath the number of cells being charged. Size: 6¼" x 2" x 3¾". Shipping weight 3 lbs.

Portable 2-Station

## INTERCOM KIT

★ 3 Transistors



No. KB-95
ONLY
**$9.99**

Handsome gold enamel finish. Operates on 4 size "C" cells. Size: 7⅛" x 5½" x 3¼". Less batteries and transistors. Shipping weight 7 lbs.

★ ACCESSORIES FOR KB-95 ★

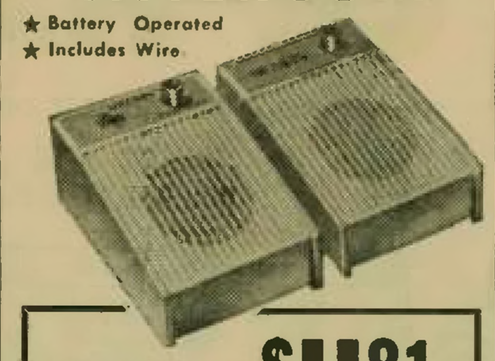
Batteries (4 req'd) No. BA-41 ..... Ea. 13c
Transistors No. X-857 (2 req'd) ..... Ea. 50c
Transistors No. TR-13 (1 req'd) ..... Ea. 69c
Extra Cable No. W-103 ..... Per 100 ft. 89c

Russell Mahoney, RR No. 1, LaFaontaine, Ind., wins choice of merchandise worth $5 from Olson's "Treasure Hunt." See back cover for instructions.

3-Transistor

## INTERCOM

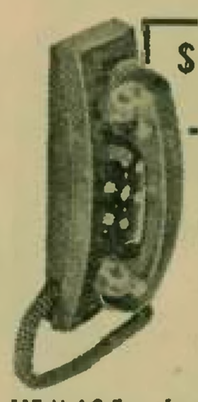
★ Battery Operated
★ Includes Wire



No. AM-241
ONLY . . **$11.81**

Operates on one standard, self-contained battery (included). Sub-station can call master even when master is turned off, saves battery life. Complete with battery and 60 feet of 2 conductor wire. Size: 3⅛" x 4-6/8" x 1-6/8". Shipping weight 3 lbs.

## Bogen ALL MASTER TELEPHONE INTERCOM SYSTEM



**$20.95** No. AM-156

Model TQ-6. A total of 7 instruments can be used in a system. Any station can call any other station. (6 pushbuttons). Grey, high impact polystyrene case, with coil-cord. For desk or wall mounting. Less cable and power supply. Shipping weight 5 lbs.

117 V AC Transformer Power Supply (1 req'd). Shpg. Wt. 4 lbs.
No. AM-157 ..... $ 22.50

Complete System (7-AM-156, 1-AM-157). Shpg. Wt. 40 lbs.
No. AS-657, $9 monthly ..... $148.00

Cable (11 conductors) No. W-354 Per Ft. 7c

Precision Radiation Instruments

## PRI GEIGER COUNTER AND RADIATION DETECTOR!

*The Model 107C "Professional"*

SCHOOLS
C. D. UNITS
LABORATORIES
HOSPITALS
INDUSTRY
HOBBYISTS
"ROCK HOUNDS"

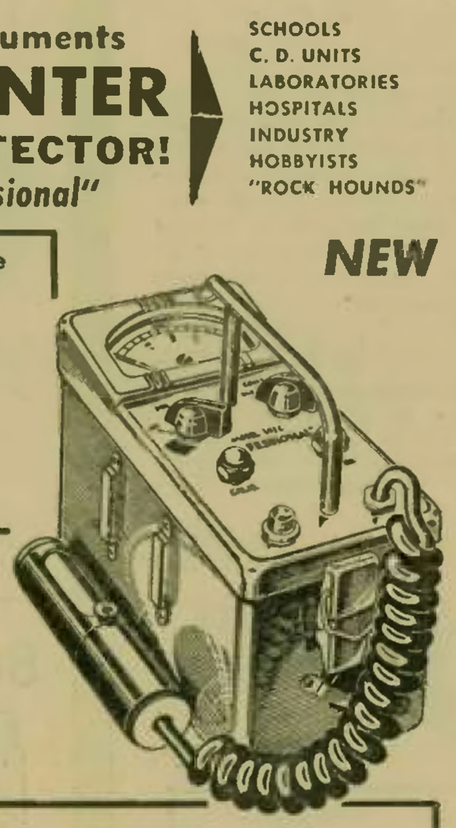
★ [ Orignal Factory Cartons ] ★

Mfgr's 1955 List Price ~~$149.50~~

**$27**

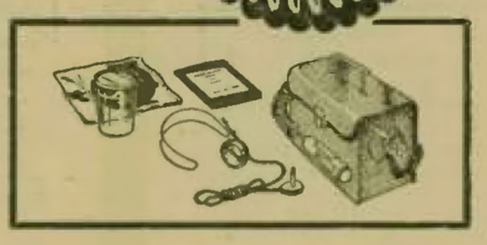
No. ME-120

NEW



INCLUDES:

- Assay Container
- Instruction Book
- Ore Sample Bag
- Headphone
- Leather Carrying Case



The model 107C "Professional" has four ranges of sensitivity: .04, .2, 2.0 and 20 milliroentgens per hour full scale. Two time constants are provided. The extra fast time constant makes it easier to essay ore in the field. Features a Dyna-Mu circuit which utilizes the latest type of low current subminiature tubes. Tube compliment: one 1B85, four 6007, two NE-2 and one NE-51. The sensitive Geiger Mueller tube is enclosed in a sturdy metal probe housing with sliding door and three foot shielded cable. A calibrated control is provided on the top panel and a calibrated radio active sample is supplied, making it possible to calibrate the instrument in the field with no additional equipment. A handsome saddle grain leather carrying case with shoulder strap plus assay container, headphone, ore sample bag and instructions is included. (less batteries). Size: 3⅝" x 4⅝" x 7⅝". Shipping weight 11 lbs.

COMPLETE SET OF BATTERIES for model 107C Geiger Counter. Contains: 2—1½ volt, Neda No. 813, 1—67½ volt, Neda No. 200, 1—45 volt Burgess No. XX-30.

NO AS-831 ..... **$5.35**

Precision Radiation Instruments

## PRI SCINTILLATOR

*60 TIMES* *The Sensitivity Of A Geiger Counter*

NEW ORIGINAL FACTORY CARTONS

*The Model 117 B "Special"*

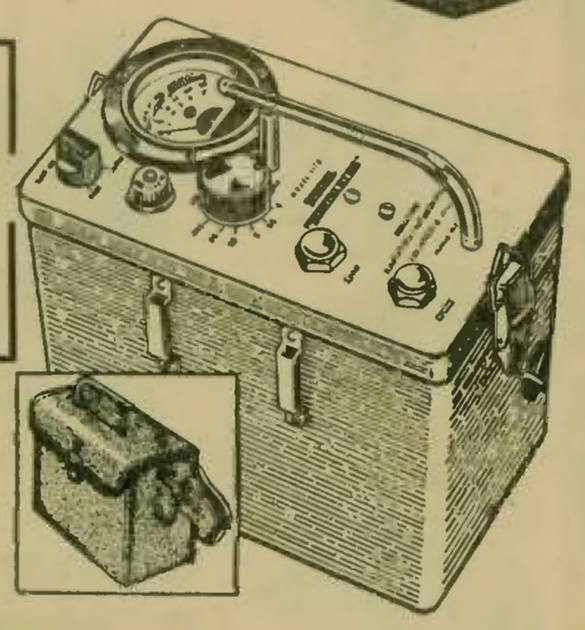
★ Completely Self Contained

★ Steadier Meter Reading

Mfgr's 1955 List Price ~~$299.50~~

**$75**

No. ME-121



The Model 117B has sixty times the sensitivity of a geiger counter. The detecting element is a 1" diameter x ½" thick Thallium activated Sodium Iodide crystal hermetically sealed and optically coupled to an RCA 6199 photomultiplier tube. The tube and crystal assembly is enclosed within the instrument case and is magnetically shielded. Operating ranges of the Model 117B are .025, .05, .25, .5, 2.5 and 5 milliroentgens per hour. It has an accuracy of 95 per cent on all ranges except the 5 MR/HR range. The counting rate of the 117B is in excess of 65,000 counts per minute in a one milliroentgen field. The photo tube and crystal are shock mounted. This instrument is complete with saddle grain leather carrying case with shoulder strap plus a calibrated ore sample. Shpg. wt. 11 lbs.

Complete Set of Batteries for Model 117B Scintillator. Contains: 2 - 45 volt Burgess No. XX-30, 1 - 22½ volt, Neda No. 215, 4 - 1½ volt, Neda No. 813.

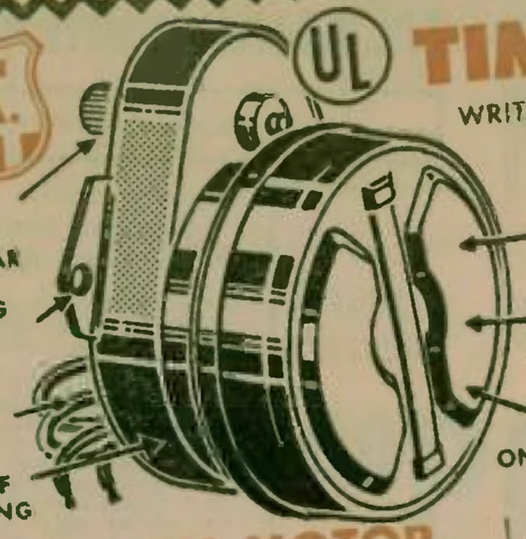
No. AS-846
**$6.38**

# TIMING MOTORS

MADE IN U.S.A.

UL

WRITE FOR SPECIAL 100 to 1000 PRICES!



BRASS PINION GEAR

MOUNTING BRACKET

5" LEADS

DUSTPROOF GEAR HOUSING

SELF STARTING

SIZE: 2½" x 1¼" x 2"

OPERATES ON 125 V. AC

## 1/60 RPM MOTOR

One revolution per hour. Ideal for making clocks, equipped with clutch so motion can be reset while shaft is turning. 110-125 v. AC 60 cps. Shipping weight ½ lb.

No. MO-71 Ea. 39¢

3 for $1.00

## 1/37.5 RPM MOTOR

Incorporates all fine features of MO-71 except clutch. Many uses for the experimenter. 110-125 v. AC 60 cps. Shipping weight ½ lb.

59¢

No. MO-72, 2 for $1.00 ea.

## 5 RPM MOTOR

300 revolutions per hour. The ideal timing motor to perform perfectly for years under tough conditions. 110-125 v. AC 60 cps. Shipping weight ½ lb.

69¢

No. MO-74, 3 for $2.00 ea.

## 1 RPM

$1.19

No. MO-118

3 for $3 Ea.

Shipping weight ½ lb.

## 1/4 RPM

59¢

No. MO-115

2 for $1 Ea.

Shipping weight ½ lb.

## 2 RPM

69¢

No. MO-119

3 for $2 Ea.

Shipping weight ½ lb.

## 1/10 RPM

59¢

No. MO-114

2 for $1 Ea.

Shipping weight ½ lb.

## 4 RPM

69¢

No. MO-116

3 for $2 Ea.

Shipping weight ½ lb.

## 1/45 RPM

59¢

No. MO-117

2 for $1 Ea.

Shipping weight ½ lb.

## KIT of 7 MOTORS



Stock up NOW!

$2 No. AS-767

Kit contains 7 assorted motors of various speeds and voltages. A rare opportunity to stock up for your every experimental need. Shipping weight 3½ lbs. Similar in design and construction as above. Shpg. wt. 3 lbs.

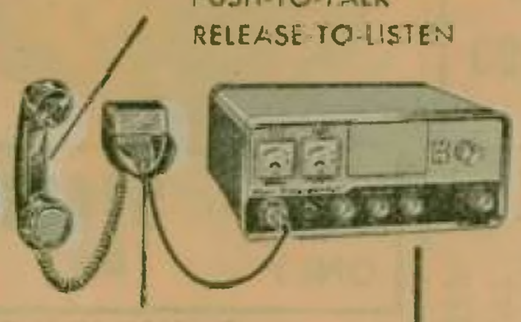
# CB HANDSET



MODERN HANDSET DESIGN

PUSH-TO-TALK

RELEASE-TO-LISTEN



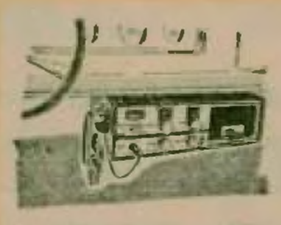
SWITCH IN HANGER DISCONNECTS SPEAKER IN CB TRANSCEIVER

ATTACH TO ANY CB TRANSCEIVER

OLSON PRICE

ONLY $19.99

No. CB-6



MOUNT ON UNIT

MOUNT ON DASH



HOME



MOBILE

Add this handset to your CB transceiver for ultimate in modern convenience. Features latest G1 type handset with push-button conveniently located on the inside of the handset. Switch built in to the hanger automatically cuts off the speaker in the transceiver when you lift the handset. At the same time this switch turns on the sensitive earphone in the handset. When you return the handset to its hanger it automatically switches the speaker back on so you never miss a call. Ideal for mobile rigs to overcome background noise. Perfect for use in office or at home to prevent disturbing others. High output ceramic mike element assures 100% modulation of your transmitter. System can easily be modified so that speaker in set remains on when handset is lifted from hanger if desired. Easy hook-up . . . plugs into your mike jack. Only two wires connect to speaker circuit . . . its as easy as connecting a rear-seat speaker in your car. Unit comes complete with coil cord between handset and hanger plus standard mike cable from hanger to transceiver. Shipping weight 2 lbs.

SALE

## GENUINE TYMETER AUTOMATIC CLOCK

★ Factory Boxed
★ Made In U.S.A.



REG. $7.99

$4.99 Plus 50c F.E.T.

YOUR CHOICE
Walnut No. EA-71
Ebony No. EA-74

Beautiful Super Deluxe Model! Automatic and self-starting. Dials tell hour, ten minute, minute and second. For 110-125 volts AC, 60 cps. Shipping weight 3 lbs.

## TYMETER Automatic CLOCK



★ Made In U.S.A.

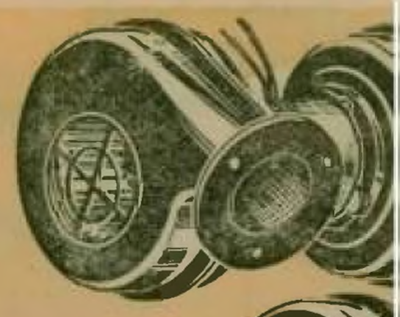
$4.99 Plus 50c F.E.T.

YOUR CHOICE
Walnut No. EA-72
Ebony No. EA-76

Self-starting clock with 4 revolving wheels that tell time directly in numbers. Dials tell you hour, ten minute, minute and second. Perfect for radio amateur, office desk, etc. U.L. listed motor and cord. For 110-125 volts AC, 60 cps. Shipping weight 3 lbs.



## Heavy Duty BLOWERS



★ TORRINGTON FANS
★ HIGH SPEED MOTORS

Ideal for ventilating or cooling all types of electronic equipment such as ham gear or commercial broadcast equipment. Write for special large quantity prices.

MADE IN U.S.A.



A.B.C. Electric, 213 Cornell SE, Albuquerque, N. Mex., wins choice of merchandise worth $5 from Olsen's "Treasure Hunt." See back cover for instructions.

Transistor Auto Radio Rear Seat

## SPEAKER KI



No. S-592 $5.98

★ 10-20 & 40 Impedance
★ Includes G Wire and

Transistor auto radios used in all newer cars require speakers with dances of 10-20 or 40 ohms. This new speaker kit offers all of these dances in one wide range speaker. Kit includes a heavy duty 6" x speaker, a gray metal grille, all wire and mounting bolts plus brac mounted on a plate with knob. Special adapter plugs have been incl fit the jack on most popular car radios. Complete instructions plus template are included with each speaker kit. Shipping weight 2 lbs.

FISHER

## DYNAMIC MI



No. M-181 $3.99

★ Dual Impedo
★ Swing-out St

This compact d mike is perfect dealer, P. A. a applications. The dynamic element nected to a m transformer to low impedance in

Impedance. Special 3-conductor shielded cable is connected to element and through transformer. Both high and low impedance terminals are a directly at the end of the cable. Swing-out stand on back of mike adj put mike at best angle for recording. Response: 100 to 13,000 cps. —56 db. Size: 2" x 1½" x 3". Has 58" cable attached. Shipping weigh

SHOP KING

## HEDGE TRIMMER Attachment

★ Fits Any ¼" Drill



Made In U.S.A.

No. TL-

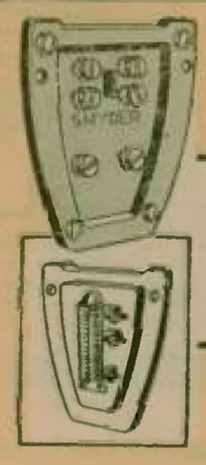
$8

★ Permanently Lubricated Gear Housing

Give that professional look to your hedges or shrubs with this universal hedge trimmer attachment. 14" beveled edge, tool steel blade stays sharp, for fast cutting action. Features permanently lubricated gear h for lasting dependability. Converts any ¼" electric drill into an efficien trimmer. Shipping weight 5 lbs.

SNYDER

## 2-Set Antenna Coup



No. AA-112 $1.39

★ Screw Type Terminals
★ One Piece Molded Base
★ Balun Coil Operation

Save the cost of an antenn tem for your second TV set radio. Efficient balun coil op matches two TV sets or sets to one antenna with a minimum of loss. terminals make connection easy. Coil is mount sturdy molded base, easy to mount on wall or b set. For standard 300 ohm antenna systems. Size: 3½" x 1". Shipping weight ¼ lb.

## FM • A Table Rad



$24.99 No. RA-6

★ Non-Drift Reception
★ Slide Rule Tuning

Tunes broadcast band 535 to 1605 KC and FM band 88 to 108 Mc. Has ln loop-stick antenna for AM band which gives excellent station-free se and wonderful sensitivity. 4" FM speaker gives full resonant sound, th power that of much larger and more costly receivers. 9 tubes and 2 diode selenium rectifier. Has safety interlock cord plus 3 controls: volume, and band selector. Handsome two tone cabinet. For 110-125 volts AC 8" x 6¾" x 16". Shipping weight 8 lbs.

## 80-Pc. Jumbo Lug Terminal



No. TL-437 $1

★ ASSORTED TYPES

This large package contains the most popular solderless te lugs. Each kit contains a ge assortment of each of the foll types of lugs: Ring tongue, tongue and Rectangular tongue These lugs fit wire sizes from to No. 10. There's a type for every application. now while our inventory is complete. Shpg. wt. 1

FLANGED SPADE TERMINAL

★ For #5 or #6 Bolt

Pkg. of 50 No. TL-438 $2

ROUND TONGUE TERMIN

★ For #5 or #6

Pkg. of 50 No. TL-439

# DUAL BLOWER

★ 120 Cubic Ft. Per Min.



NO. MO-78

**$10.95**

A versatile blower unit for use where quiet circulation of a large volume of air is required. Features cool running, two pole motor. Size: 10⅜" x 6¾". Flange mounting. 110-125 v. AC 60 cps. Shpg. wt. 9 lbs.

# Heavy Duty Blower

★ 40 Cubic Ft. Per Min.



NO. MO-79

**$7.95**

For use where continuous circulation of air with minimum noise is required. Two pole, shaded-pole motor for cool, efficient, continuous duty. Size: 6⅛" x 6". 110-125 v. AC 60 cps. Shipping weight 5 lbs.

# RECHARGABLE Flashlight



No. X-943

**$4.98**

★ Built-in Charger
★ Spare Bulb
★ Focusing Lens

End battery problems forever. When special rechargable battery becomes weak, simply plug flashlight into any 117 V. AC outlet and in a few hours the flashlight is as strong as new. Modern slim styling slips easily into pocket or purse. Focusing lens concentrates light into a strong steady beam. Off-on switch is conveniently located on the top of the case. A spare bulb is included inside each flashlight just to be sure you never run out of light. Order several, keep one in your car, tool box and around the house. Size: 5" x 1⅝" x ⅝". Shipping weight ¼ lb.

# Sonocolor TAPE SPLICING KIT



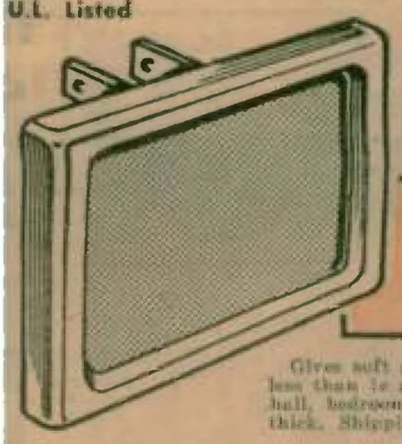
★ Made in West Europe
★ Color Coded Leader Tape
★ Splicing Tape Included

No. TA-121

**$5.98**

A really complete tape splicing kit. Contains everything you need to make professional tape splices. Cutter has movable arms to hold tape in place while splicing and trimming to insure perfect alignment. Center arm has cutting blade to trim ends of tape to 45° angle. Then arm is raised and the splicing tape applied. After tape is applied the center arm is brought down to trim off the end of the splicing tape. This fine kit also includes a generous supply of leader tape, in three colors, plus reel labels and extra cutting blade and block. Size: 6½" x 3⅝" x 2⅝". Shipping weight 1 lb.

U.L. Listed



# Westinghouse NITE LITE

Mfgr's. 1963 List Price $1.19

**53¢**

No. X-850

2 for $1

Gives soft green light. Lasts for over 5 years—cost less than 1¢ a year to operate. Ideal for child's room, hall, bedroom or bath. Size: 2⅝" W x 2½" H x ¼" thick. Shipping weight ½ lb.

# SCOURMASTER



★ Complete With Eveready Batteries
★ Mfgr's 1963 List Price $29.95

No. MO-112

**$4.99**

Scourmaster not only scours and scrubs dirty pots and pans but also shines and polishes silverware and copperware, cleans dishes and glassware. Operates on self contained batteries (included). The exclusive "Pow-R-Pack" handle contains a highly efficient motor that gives just the right amount of cleaning power and it's completely water-proof. Scourmaster is automatically self-starting, just lift the handle from its cradle. Complete with batteries, 6 heavy duty scouring pads, 2 nylon fiber pads, 1 soft plastic brush and wall mounting plate. Size: 6¼" H x 9" W x 3" D. Shipping weight 10 lbs.

EXTRA BATTERIES, (2 req'd.) 6V EVEREADY 509, No. BA-93 ..... Ea. $1.19

BRAND NEW!



# 5" C.R.T. TEST TUBE

With FREE Adaptor

**$4.99**

No. TV-112

★ Ideal for Bench Tests

This new 5" Test Tube is easily transportable. It is the perfect answer for bench work or field video check of TV receiving sets—a must for the upright chassis. It is as efficient as any of the well known test tubes such as type 6AXP4 etc., and only ⅓ the price. The adaptor (included free) converts the tube to a magnetically focused test tube. No ion trap is needed. This test tube and adaptor will be your most versatile piece of equipment. Order now—quantities are limited. Shipping weight 2 lbs.

# 8" Oxford Speaker ★ Plus 100 Precision RESISTORS



★ Speaker Impedance 8 ohms
★ Speaker Power Cap. 10 Watts
★ Selected Assortment of Resistors
★ Resistor Wattages ½ to 2 Watts

ALL FOR **$3**

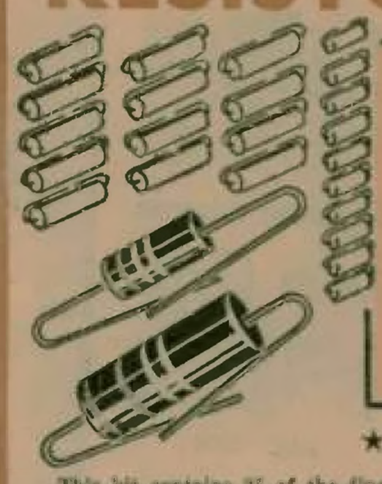
No. AS-863

Here's a real "top-value" You get a genuine 8" Oxford speaker suitable for replacement in radio, TV, phono, or extension speaker for your stereo. Precision resistors are ideal for all kinds of experimental circuits as multipliers, voltage dividers, etc. Resistance values marked on each resistor. Resistors range from very small ½ watt sizes to larger 2 watt sizes. Shipping weight 4 lbs.

# RESISTOR KITS ...From Great Britain

**Recognized For Fine Quality the World Over!**

## ¼ and ½ Watt RESISTOR KIT



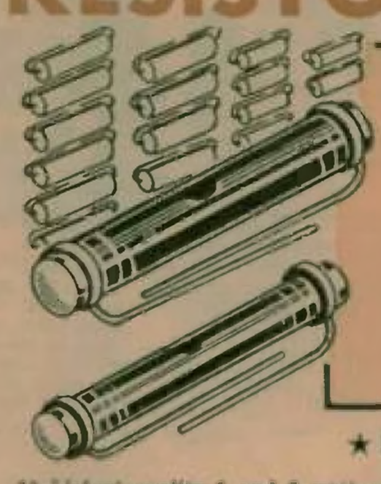
**25 PIECES $1**

No. R-74

★ Standard Color Codes

This kit contains 25 of the finest quality ¼ and ½ watt resistors available anywhere. Made in England by skilled craftsmen whose years of experience and training result in the finest quality components at any price. Olson brings you this unusual quality kit at an unbelievably low price because of a special large quantity purchase. Order several of these kits today, while assortments are complete. Shipping weight ¼ lb.

## 1 and 2 Watt RESISTOR KIT



**18 PIECES $1**

No. R-75

★ FULL LENGTH LEADS

18 highest quality 1 and 2 watt carbon resistors, generously assorted. Each resistor has the resistance value clearly marked in standard color codes. Made in England by skilled craftsmen whose years of experience and training result in the finest quality components available at any price. Order several of these kits today while assortments are complete. Shipping weight ¼ lb.

## 100 PIECE RESISTOR KIT



¼ - ½ - 1 & 2 Watt Sizes

No. R-76 All 100 ..... **$3.50**

This kit is a must for every service man or experimenter's tool box and work bench. Contains 100 of the above resistors in a generous assortment of ¼-½-1 and 2 watt sizes. This unusual kit value won't last long so be sure to order several kits today. Shipping weight 1 lb.

Bogarts Lawnmower Serv. & Repair Shop, 92 Meltower St., Greenville, N. Y., wins choice of merchandise worth $5 from Olson's "Treasure Hunt." See back cover for instructions.

## COMBINATION OFFER

★ All 3 Kits

| | |
|---|---|
| 1—25 Pc. ¼ - ½ Watt Kit (above) | $1.00 |
| 1—18 Pc. 1 - 2 Watt Kit (above) | 1.00 |
| 1—100 Pc. ¼ - ½ - 1 & 2 Watt Kit (left) | 3.50 |
| TOTAL REG. PRICE | $5.50 |

No. AS-894

COMBINATION PRICE ONLY **$4.99**

# SALE

## BELL-O-MATIC TAPE RECORDER

★ 2-SPEED
★ Microphone Included
★ Handles Tape Cartridges
★ Handles Reels
★ Records Up To 2 Hours
★ Factory Sealed Cartons
★ Automatic Shut-Off

Brand new, latest model 601 Bell-O-Matic recorder plays and records from your favorite records, off the air or make your own live recordings. Uses the latest, most popular tape cartridge now available from all major tape brands. Each blank cartridge contains 600 ft. of recording tape, enough for two full hours of recording. Bell-O-Matic has fast forward and fast rewind plus automatic shut-off that turns off the entire machine. Recorder is complete with a hermetically sealed crystal microphone. Case is made of durable brushed aluminum. Size 8½H x 10½W x 10½D. Freq. Response 50—12,000 cps. Speeds 3¾ and 1⅞. Shpg. wt. 28 lbs. For 110-125 Volt AC.

ACCESSORIES:

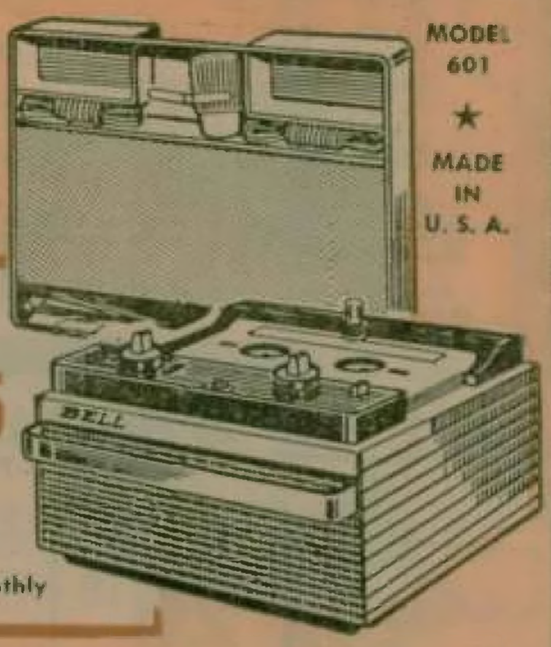
| | | |
|---|---|---|
| 3" EMPTY Reels | No. TA-124 | .30 |
| 3" Reels Loaded | No. TA-123 | .98 |
| Blank Tape Cartridge | No. TA-22 | $2.97 |

REG. $75.00

**$59.95**

No. RA-621

No Money Down—$7 Monthly




MODEL 601 ★ MADE IN U. S. A.

Mfgr's 1963 List $199.95



## BELL-O-MATIC 4-Track STEREO TAPE RECORDER

No. RA-620

**$88.88**

$9 MONTHLY

★ Records & Plays Back Stereo & Mono

Brand new, latest model 603 Bell-O-Matic recorder plays and records stereo from your favorite records, off the air or make your own live stereo recordings. Olson's actual selling price was $139.00. Uses the latest, most popular tape cartridge now available from all major tape brands: Bel Canto, Audio-tape, RCA, Minnesota Mining. Complete with two hermetically sealed crystal microphones, one pre-recorded tape cartridge, two full-range speakers (one in detachable lid). Case is made of durable brushed aluminum. Size: 8½H x 10½W x 10½D. Freq. Response 50-12,000 cps. Speeds 3¾ and 1⅞. For 110-125 Volt AC. Shipping weight 20 lbs.




## 4-Track Pre-Recorded Stereo Tape Cartridges

All Famous Mfgr's

Mfgr's '62 List Up To $9.95

Your Choice 3 for $11 **$3.99**

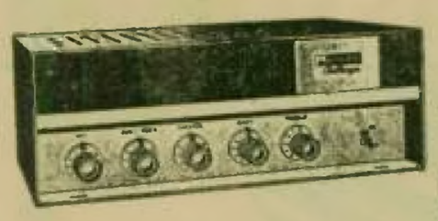
BLANK TAPE CARTRIDGE
Loaded with 600 ft. 3M No. 150 Mylar, No. TA-32 ..... Ea. $2.97

KST-20 AROUND THE WORLD IN 80 DAYS
KST-63 SOUL OF SPAIN—Volume 1, 101 Strings
KST-111 HAPPY MOODS—Jamal
KST-130 EXODUS—101 Strings
KST-131 CAMELOT—101 Strings
KST-133 EXODUS TO JAZZ—Eddie Harris
KST-134 AHMAD JAMAL'S ALHAMBRA—Ahmad Jamal
KDST-25266 ON STAGE—Louis Prima & Keely Smith
KPT-900-000 BIIZET, Concerto No. 1 & 2. London Symphony, Kyril Kardreshin
KLT-7158 SILVER SCREEN—Martin Denny
KLT-7164 AROUND MIDNIGHT—Julie London
KLT-14001 PARADISE FOUND—Felix Slatkin & Orch.
KLT-14005 50 GUITARS SOUTH OF THE BORDER—Tommy Garrett
ST-60068 OLDIES BUT GOODSES—Griff Williams
KLT-14019 INSPIRED THEMES—Felix Slatkin
KST-60000 LATIN PERCUSSION—David Carroll
KST-60009 NIGHT TRAIN—Buddy Morrow
KST-60038 VAUGHAN & VIOLINS—Sarah Vaughan
KST-60153 IN THE MOOD—Eddie Layton & Dick Contino
KST-60162 MORE SONGS FROM GREAT FILMS—Around the World, The High and the Mighty, others. Cleveneff
KST-60610 MELIS ON BROADWAY—Jose Melis
KST-60649 LET'S DANCE, DANCE, DANCE—David Carroll & His Orchestra

# BOGEN ★ Electro-Voice ★ RACON ★ Olson P.A. SYSTEMS

BOGEN ★ Olson

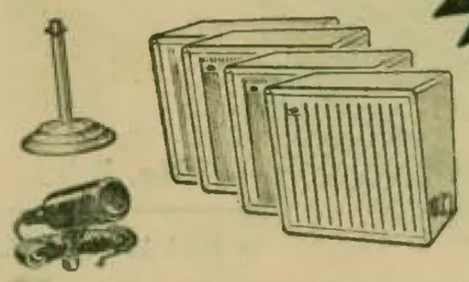
## 20 Watt P.A. SYSTEM



SAVE $20.30

COMPLETE SYSTEM

$99 No. AS-887 $10 MONTHLY

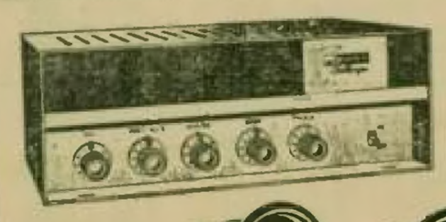


HERE'S WHAT YOU GET

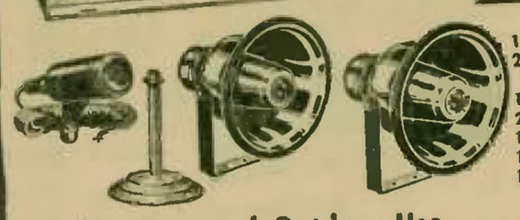
| | |
|---|---|
| 1—AM-247 20 Watt Amp. (below) | $59.95 |
| 4—S-409 8" Speaker/Baffle (pg. 14) | 34.66 |
| 1—M-164 Dynamic Mike (pg. 19) | 12.98 |
| 1—M-95 Mike Stand (pg. 19) | 1.97 |
| 4—T-110 Line Transformers | 6.84 |
| 1—W-318 100 Ft. Speaker Cable | 2.59 |
| 1—X-317 Microphone Connector | .31 |
| ★ TOTAL REGULAR CATALOG PRICE | $119.30 |

Bogen ★ Electro-Voice ★ Olson

## 20 Watt P.A. SYSTEM



$105 Save $19.14 $7 MONTHLY No. AS-884



HERE'S WHAT YOU GET:

| | |
|---|---|
| 1—AM-247 20 Watt Amp. (below) | $59.95 |
| 2—S-175 Electro-Voice Speakers (below) | 42.92 |
| 1—M-164 Dynamic Mike (pg. 19) | 12.98 |
| 2—T-110 Line Transformers | 3.42 |
| 1—W-318 100 Ft. Speaker Cable | 2.59 |
| 1—M-95 Mike Stand (pg. 19) | 1.97 |
| 1—X-317 Microphone Connector | .31 |
| ★ TOTAL REGULAR CATALOG PRICE | $124.14 |

★ Indoor and Outdoor Use



FOR ENTERTAINMENT



CHECK-OUT COUNTER



AUCTIONS



CHURCHES



SCHOOLS

Bogen, Electro-Voice, Olson

## 35 Watt P.A. System

SAVE $27.14



No. AS-888 $149 $9 MONTHLY

HERE'S WHAT YOU GET:

| | |
|---|---|
| 1—AM-248 35 Watt Amp. (below) | $71.95 |
| 4—S-409 8" Speaker/Baffle (pg. 14) | 34.66 |
| 1—M-140 Electro-Voice Mike (pg. 19) | 49.98 |
| 1—M-94 Floor Mike Stand (pg. 19) | 7.91 |
| 4—T-110, Line Transformers | 6.84 |
| 1—W-317, 250 Ft. Speaker Cable | 4.49 |
| 1—X-317, Microphone Connector | .31 |
| ★ TOTAL REGULAR CATALOG PRICE | $176.14 |

Bogen, Electro-Voice, Olson

## 100 Watt P.A. System

SAVE $29.14



No. AS-889 $229 $13 MONTHLY

HERE'S WHAT YOU GET:

| | |
|---|---|
| 1—AM-249 100 Watt Amp. (below) | $112.45 |
| 8—S-409 8" Speaker/Baffles (pg. 14) | 69.32 |
| 1—M-140 Electro-Voice Mike (pg. 19) | 49.98 |
| 8—T-110 Line Transformers | 13.68 |
| 1—M-94 Floor Mike Stand (pg. 19) | 7.91 |
| 1—W-317 250 Ft. Speaker Cable | 4.49 |
| 1—X-317 Microphone Connector | .31 |
| ★ TOTAL REGULAR CATALOG PRICE | $258.14 |

Bogen, Electro-Voice

## 35 Watt P.A. System

SAVE $35.15



No. AS-885 $169 $11 MONTHLY

HERE'S WHAT YOU GET:

| | |
|---|---|
| 1—AM-248 35 Watt Amp. (below) | $71.95 |
| 3—S-175 Electro-Voice Speakers (right) | 64.38 |
| 1—M-140 Electro-Voice Mike (pg. 19) | 49.98 |
| 1—M-94 Floor Mike Stand (pg. 19) | 7.91 |
| 3—T-110 Line Transformers | 5.13 |
| 1—W-317 250 Ft. Speaker Cable | 4.49 |
| 1—X-317 Microphone Connector | .31 |
| ★ TOTAL REGULAR CATALOG PRICE | $204.15 |

Bogen, Electro-Voice, Racon

## 100 Watt P.A. System

SAVE $11.58



No. AS-886 $296 $15 MONTHLY

HERE'S WHAT YOU GET:

| | |
|---|---|
| 1—AM-249 100 Watt Amp. (below) | $112.45 |
| 4—S-486 Racon Horns (below) | 65.80 |
| 4—S-487 Racon Drivers (below) | 59.80 |
| 1—M-140 Electro-Voice Mike (pg. 19) | 49.98 |
| 4—T-110 Line Transformers | 6.84 |
| 1—M-94 Floor Mike Stand (pg. 19) | 7.91 |
| 1—W-317 250 Ft. Speaker Cable | 4.49 |
| 1—X-317 Microphone Connector | .31 |
| ★ TOTAL REGULAR CATALOG PRICE | $307.58 |

## 70 VOLT LINE TRANSFORMER FOR AMPLIFIERS BELOW

Primary: 2½ to 10 watts. Secondary: 3.2 & 8 ohms. 2" x 1½" Mtg. Ctrs. 2⅝". Use one line transformer with each speaker. Shipping weight ½ lb.

No. T-110 3 for $4.50 $1.71 Lots of 12, Ea. $1.25

BOGEN

## 20 WATT P. A. AMPLIFIER



No. AM-247 $59.95 NO MONEY DOWN $7 MONTHLY

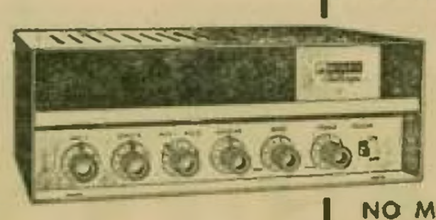
Model CH8-20A

MODEL CHB 20. POWER OUTPUT: 20 Watts @ 5% distortion. FREQUENCY RESPONSE: 20-20,000 cps ± 2db. INPUTS: 1-microphone (high impedance), 2 Aux. (high impedance). SENSITIVITY: Mic.: 3 mv; aux.: .5 volts. GAIN: Mic.: 125 db; aux.: 100 db. OUTPUT IMPEDANCE: 4, 8 and 16 ohms. 25 volt balanced line (31 ohm), 70 volt line (250 ohm). CONTROLS: Mike volume, fader for 2 aux. inputs, master volume, bass, treble, power switch. TONE CONTROL ACTION: Treble (10KC) + 10db to — 16 db; Bass (50 cps) — 14db to — 10 db. TUBES: 1-6EU7, 2-6GW8, 1-6CA4, 1-Silicon diode. POWER CONSUMPTION: 80 Watts, 105-125 V. AC, 50-60 cps. DIMENSIONS: 6⅝" H. 15¾" W. 10" D. SHIPPING WEIGHT 16 lbs.

B. L. Yarbrough, Rt. No. 3, Lindsay, Okla., wins choice of merchandise worth $5 from Olson's "Treasure Hunt." See back cover for instructions.

BOGEN

## 35 WATT P. A. AMPLIFIER Model CHB-35

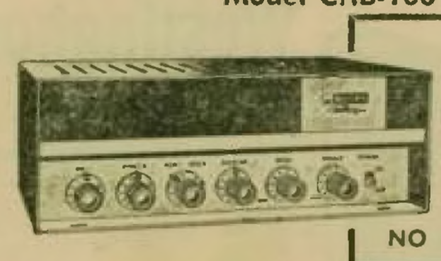


No. AM-248 ONLY $71.95 $8 MONTHLY NO MONEY DOWN

MODEL CHB 35. POWER OUTPUT: 35 Watts @ 5% distortion. FREQUENCY RESPONSE: 20-20,000 cps ± 2 db. INPUTS: 2 microphones (high-impedance), 1—Magnetic Phono, 2—Aux. (high-impedance). SENSITIVITY: Mic.: 4 mv.; Aux.: 2 volts; mag. phono: 12 mv. GAIN: Mic.: 125 db; Aux; 100 db; Mag. Phono, 115 db. OUTPUT IMPEDANCE: 4, 8 and 16 ohms, 25 volt line (18 ohm), 70 volt line (144 ohm). CONTROLS: Mike No. 1 and No. 2 volume, fader for 2 aux. inputs, master volume, bass, treble, power switch, mag. phono switch. TUBES: 1—6EU7, 2—7868, 1—12AX7, 1—6CA4, plus silicon rectifier. POWER CONSUMPTION: 125 watts, 105-125 V. AC, 50-60 cps. DIMENSIONS: 6¾" H. 15¾" W. 10" D. SHIPPING WEIGHT 18 lbs.

BOGEN

## 100 WATT P. A. AMPLIFIER Model CHB-100



No. AM-249 ONLY $112.45 $7 MONTHLY NO MONEY DOWN

Model CHB 100. POWER OUTPUT: 100 Watts @ 5% distortion. FREQUENCY RESPONSE: 20-20,000 cps ± 2db. INPUTS: 2 microphones (high-impedance), 1—Magnetic phono, 2—Aux. (high-impedance). SENSITIVITY: Mic: 5mv.; Aux.: 3 volts; Mag phono: 15 mv. GAIN: Mic.: 125 db; Aux.: 100 db; Mag. phono: 115db. OUTPUT IMPEDANCE: 4, 8 and 16 ohms, 25 volt line BALANCED (6 ohm), 70 volt line (50 ohm). CONTROLS: Mike No. 1 and No. 2 volume, fader for 2 aux. inputs, master volume, bass treble, power switch, magnetic phono switch. TUBES: 1—6EU7, 1—12AX7, 4—7868, 1—6C4 plus silicon rectifier. POWER CONSUMPTION: 150 watts, 105-125 V. AC, 50-60 cps. DIMENSIONS: 6¾" H. x 15¾" W. x 10" D. SHIPPING WEIGHT 21 lbs.

RACON

## 25 Watt P.A. & Paging Speaker

★ Weather-Proof Terminal Block



Made In U.S.A.

No. S-482 $20.70 Compare at $34.50

Complete with driver, universal mounting brackets, unibody construction, Fideliflare design and built-in terminal blocks with transparent covers. Speaker mechanism fully enclosed in all-cast housing. High power for P.A. Superb speech efficiency. 25 watt continuous: 50 watt peak. Response 250-13,000 CPS. Voice Coil impedance: 8 ohm. Length 9¼" diameter 10¼". Shipping weight 7 lbs.

RACON

## SPEECH & MUSIC



No. S-486 $16.45 2 for $32.00

● 3½ ft. Reentrant air column

True wide range reproduction of speech and music. Overall length 15", diameter 21". Supplied less driver. Shpg. wt. 13 lbs.

30 Watt Driver ● Model DA-30

For above speaker. Resp. 75-7500 CPS. 16 ohms. Shipping weight 7 lbs.

No. S-487, 2 for $29.00 ____ Ea. $14.95

## HI-FI MUSIC P. A. SPEAKERS

RACON

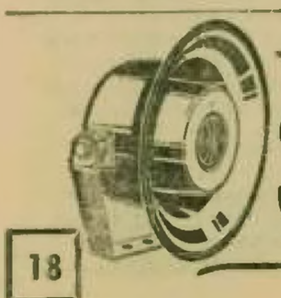


No. S-488 $19.95 2 for $39

★ 95-8000 CPS ★ 15 Watts Power

Low cost, but high in efficiency and realism. Single wide range speaker with 120° dispersion. Combination of horn and housing produces excellent sound. 8 ohms impedance. Size: 8¼" overall length, diameter 15". Shipping weight 13 lbs.

RACON



No. S-484 $37.75 2 for $74

★ 60-11,000 CPS ★ 30 Watts Power

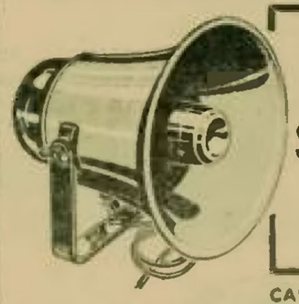
★ Fully weather-proof

In this excellent music coaxial reproducer, with 120 degrees dispersion, an 8" woofer handles lows down to 60 C.P.S. Separate cone tweeter gives clean, smooth high frequencies. 8 ohms impedance. Size: Length 12⅜" diameter 21½". Shipping weight 21 lbs.

Olson

## TRUMPET SPEAKER

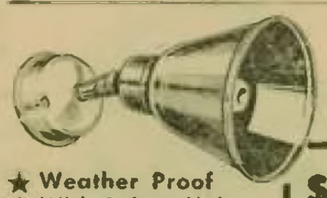
★ 5 WATT



No. S-453 ONLY $6.95 3 for $20

Clear even coverage can be gained with trumpet-type speakers. Cuts through background noise. Ideal extension speaker for CB transceivers. 8 ohms. Response: 400-8,000 CPS. Size: 5½" dia. x 5" deep. Shipping weight 4 lbs.

CABLE FOR ABOVE SPEAKER, SEE PAGE 25



Olson Paging & TALK BACK SPEAKER

★ Weather Proof
★ With Driver Unit
★ Resp.: 300-10,000 cps

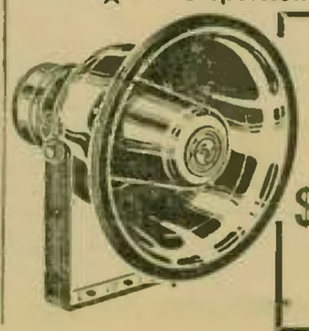
$12.98 No. S-565 2 for $25

Space is provided under the base of the speaker to house a line matching transformer if one is used. The base is designed to facilitate mounting to the standard 4" utility box or electrical lamp offset crossbar. Power rating 15 watt. Impedance: 8 ohms. Size: 6⅞" diameter x 15" long. Shipping weight 5 lbs.

Electro-Voice Model 844

33 Watt PAGING SPEAKER

★ 90° Dispersion ★ Made in U.S.A.



No. S-175 ONLY $21.46

Complete horn and driver unit for general purpose paging and talk-back. Weatherproof construction. Response 250 - 14,000 cps. Complete with tropicalized hermetically sealed driver unit and mounting bracket. Size: 9⅛" dia. x 8⅝" deep. 8 ohm impedance. Shpg. wt. 9 lbs.

BOGEN

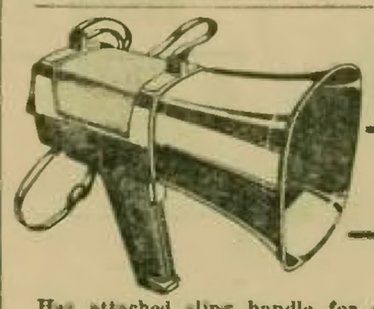
## PHONO TOP

Model LPC-4 ★ 4-SPEED



No. RP-270 ONLY $22.65

Attaches to top of Models CHB50, and CHB100 . . . with tone arm, cartridge, rubber turntable mat and Built-in 45 r.p.m. adapter. Dimensions: 4¾" H. x 13" W. x 9½" D. Shpg. wt. 8 lbs.



POWER Megaphone

★ Transistor Power Circu

$6.85 No. S-540

No warm up required. (A range range 100 yards). Ma of super high-impact plast Has attached sling handle for easy carrying. Operates on standard flashlight bateries (not included). Size: 12" long, ho mouth 6 square. Shipping weight 5 lbs.

BATTERIES (4 req'd) No. BA-53 ____ Ea. 1

Range Over 600'

Olson Self-Powered Megaphone



$29.88 No. S-426 3 for $87

No warm-up required—u instantly—trigger switch bu into handle. Press to talk, o hand operation. Operates on standard flashlight cells (n included) has power selector switch for high and low output. A metal construction in grey enamel finish. Size: 13½" long. Ha mouth 8⅝" diameter. Shipping weight 9 lbs.

BATTERIES (4 req'd) No. BA-53 ____ Ea. 1

# Exciting 2-WAY COMMUNICATION GEAR

## TELECON 1 Watt WALKIE-TALKIE

- ★ 2 Channels
- ★ 12 Transistors
- ★ Crystals Included
- ★ Weather Proofed




No. RA-612

**$79.98**

$8 MONTHLY
NO MONEY DOWN

CHANNEL SWITCH
SQUELCH CONTROL
BATTERY METER

**10 Times More Powerful Than 100 MW Units**

A full 1-watt RF input crystal controlled 2-way walkie talkie with 12 transistors, 3 diode and 1 thermister. Olson RA-612 is 10 times more powerful than 100 MW transceivers, but is still small enough to be hand held. Here's the answer to real portability without the usual sacrifice in operating range. Ideal for operation between base or mobile station and a man in the field. Equipped with 2 pair of crystals for operating on channels 2 and 3. Battery meter on front panel provides a constant check on battery condition. Squelch control eliminates unwanted background noise between transmissions. Sturdy metal case has push to talk button conveniently located on side. A jack is provided for earphones. Operates on 8 standard penlight type batteries (included). Also included at this low Olson price: earphone with plug, earphone case, and a leather shoulder strap. Size: 1¼" H, x 3¼" W, x 2" D. Shipping weight 2½ lbs. ea.

**Extra Batteries (8 req'd) No. BA-67, 8 for ..... 59c**

## Citizens Band 9 TRANSISTOR WALKIE - TALKIE



- ★ Crystal Controlled
- ★ Crystals Included

No. RA-446 **$29.99** | Matched Pair **$59.50** $7 Monthly

**No License Required**

For use on popular 27 MC citizen's band. Receiver is specially designed superheterodyne circuit for reliable two-way communications. Operating range 1 mile and up under ideal conditions. Built-in speaker. Push-to-talk switch and volume on-off switch all conveniently located for fingertip control. Operates on 9 volt-combined portable cells available anywhere. Jacks provide for earphone. Built-in telescoping antenna. Complete with batteries, earphone and case. Styles may vary slightly. Size 7½" x 2½" x 1¾". Shipping weight 6 lbs.

**Batteries (8 req'd) No. BA-67, 8 for ..... 59c**

## 2-Way WALKIE-TALKIE




**NO LICENSE REQUIRED**

★ Easy To Build Kit Form

No. RA-583
2 for $18.45

**OLSON PRICE... $9.70**

Anyone can build and operate this fully transistorized Space Age transceiver that transmits with the same power as America's "Explorer" Satellites! You can communicate, under ideal conditions, with family or friends up to ¼ mile away. 27 MC CITIZEN'S BAND SPACEPHONE REQUIRES NO LICENSE—NO EXAMINATION—NO AGE LIMIT! High impact, shock resistant case. Uses standard 9-volt transistor battery available everywhere, (less battery). Crystal included. Shipping weight 1½ lbs.

**Battery (1 req'd.) No. BA-89 ..... ea. 21c**

## Olson *Deluxe* 6 Meter TRANSCEIVER






★ Receives Single Side Band
★ Made In U.S.A.

- 15 Watts Input
- 100% Modulation
- Receives SSB, AM & CW
- Dual Conversion Superhet

No. RA-570

**$139.98**

$8 MONTHLY
NO MONEY DOWN

Olson brings you the utmost in flexibility and highest quality. Receiver features dual-conversion with crystal controlled local oscillator and ganged tuned second oscillator and mixer. Receiver tunes 49.8 to 52.2 MC with sensitivity of .5 μ for 6 db signal to noise ratio. Has tunable BFO for single-sideband reception. Image rejection is better than 35 db down. I.F. frequency is 12 MC for first I.F. and 465 KC for second I.F. Transmitter features 15 watts input with 100% modulation. Pi-network output tunes transmitter to match any antenna from 35 to 150 ohms. Spot switch provides a means for checking transmitter frequency. Dual purpose meter works as a receiver S-meter and transmitter tuning meter. Dual power supply, 117 volts AC (power cord included) and 12-volt DC. Complete with a Turner 350C push-to-talk mike with coiled cord. Size: 4½" H. x 12½" W. x 7" D. Shipping weight 22 lbs.

**12 V. D.C. Cable, No. W-430. Shpg. wt. ¼ lb ..... $2.95**
**Mobile Mounting Bracket, No. HW-46. Shpg. wt. ¼ lb. $2.95**

Dr. M. B. Jensen, V. A. Center Unit No. 53-C, Hot Springs, S. Dak., wins choice of merchandise worth $5 from Olson's "Treasure Hunt." See back cover for instructions.

## 2-WAY Speaker System

Olson



ACOUSTIC DAMPER

Made in U.S.A.
No. AS-895
ONLY. . . **$9**

12" WOOFER WITH ACOUSTIC DAMPER
3" CONE TWEETER
CROSSOVER CAPACITOR

Full range high fidelity sound to please the most discerning listner. Once again Olson brings you the finest at a terrific money saving price. System includes a heavy duty 12" woofer with "acoustic damper, 3" hard cone tweeter plus capacitor type crossover. The "acoustic damper" eliminates "booming" and "one-note" bass even in open-back cabinets. Now you get "clean" bass at any setting of the bass or loudness control of your amplifier. Overall system response 20 to 15,000 cps. Impedance 8 ohms. Power capacity 20 watts. Shipping weight 8 lbs.

## FREE FREE FREE 100 PIECE PARTS ASSORTMENT

GENERAL ELECTRIC Electric
**ALARM CLOCK**



WITH PURCHASE OF 100 PIECE PARTS ASSORTMENT AT RIGHT



YOU GET **33** 100 TO 1000 V. CAPACITORS

YOU GET **34** Disc & Tubular CAPACITORS

YOU GET **33** ½, 1 & 2 Watt RESISTORS

ALL 100 Pieces
**$3.99** No. AS-866

100 carefully selected components to fill most replacement and experimental needs. You get 33—½, 1 and 2 watt resistors. Also included are 33 tubular capacitors from 100 to 1,000 volts. To complete this fine kit, we have added 34 disc and tubular ceramic capacitors rated at 600 v. All parts in this kit are brand new with full length leads. All are made by leading manufacturers. Keep several of these kits handy in tool box or on your work bench, and you will always have the part you need when you need it. Shipping weight 3 lbs.

## 206 PIECES Capacitor & Resistor KIT




**$8**
No. AS-872

CONSISTS OF:

100—Assorted 100 to 1000 V. Capacitors
100—Assorted Carbon & Wire Wound Resistors
1—JENSEN 20 MFD 450 V. Electrolytic
1—JENSEN 40 MFD 450 V. Electrolytic
1—JENSEN 80 MFD 450 V. Electrolytic
1—JENSEN 40-40 MFD 450 V. Electrolytic
1—JENSEN 40-40-40 MFD 450 V. Electrolytic
1—JENSEN 200 MFD 200 V. Electrolytic

Each kit contains: 100 tubular capacitors from .001 to .5 mfd. at 100 to 1000 volts . . . 100 resistors including ½, 1 and 2 watt carbon type and a quantity of wirewound types, and six Jensen Electrolytics. PLUS a free Westinghouse tube coupon. The coupon is good for a Westinghouse tube worth up to $3.95 mfgs. list price. Shpg. weight 4 lbs.

## JENSEN CAPACITORS

**450 VOLT**

20 MFD
1¾" long x ⅝" dia.
No. C-152, 6 for $3 Ea. — **57c**

40 MFD
2⅜" long x 1" dia.
No. C-153, 5 for $3, Ea. — **85c**

80 MFD
2½" long x 1⅛" dia.
No. C-154, 4 for $3, Ea. — **$1.09**

**200 VOLT**

200 MFD
2⅜" long x 1" dia.
No. C-155, 4 for $3, Ea. — **$1.09**

**DUAL 450 VOLT**

20-20 MFD
2⅜" long x 1" dia.
No. C-156, 3 for $2, Ea. — **85c**

40-40 MFD
2⅝" long x 1⅛" dia.
No. C-157, 4 for $3, Ea. — **$1.09**

**TRIPLE 450 VOLT**

20-20-20 MFD
2⅜" long x 1⅛" dia.
No. C-158, 4 for $3, Ea. — **$1.09**

40-40-40 MFD
3" long x 1¼" dia.
No. C-159, 3 for $4, Ea. — **$1.49**



## 8" OXFORD SPEAKER

**$1.49** No. S-576
3 for $4.17

Genuine Oxford quality throughout at a real bargain price. Use as replacement in radio, TV or phono to improve tone quality. Alnico V magnet and ventilated, ribbed cone produce distortion-free sound throughout audio range. Frequency response 40 to 12,000 cps. Power capacity 10 watts. 3 ohms. Size: 8⅝" x 2¾". Shipping weight 2 lbs.



Record Changer
## 10 pc. KNOB KIT
Webcor, VM, Collaro, BSR

No. KN-20
ALL 10 FOR . . . **99c**
3 Kits (30 KNOBS) $2

Record changer knobs are often hard to find but Olson has them and in just the types you need. Each kit contains 10 brand new knobs in assorted colors to fit the following changers: VM, Webcor, Collaro and BSR (Monarch). Shipping weight ½ lb.

## Language TRAINER

★ 4-SPEED PHONOGRAPH
★ HI-FI HEADPHONES & MICROPHONE

MADE IN U.S.A.



Was ~~$49.99~~
in 164 Cat.
**$29.99**
No. RP-254

IDEAL FOR THE LANGUAGE STUDENT

The Pronunciator Language Trainer is a complete 4 speed phonograph with headphones and microphone. You repeat into the microphone a word or phrase you have heard on the record. Immediately you hear how closely your inflection, accent and rhythm approximate the pronunciation of the record-speaker. The exclusive "Aero-Set" tone arm lifts, gently raises and lowers the phono needle to the record surface by simply twisting a knob. Plays all four standard speeds, 16⅔, 33⅓, 45 and 78 r.p.m. In addition, the variable speed control accelerates or decelerates speed to the limits of intelligible reproduction. The scratch-proof case is covered with washable, scratch-resistant, fabrikoid with metal-guarded corners. Size: 9⅝" x 9¾" x 14¾". 110-125 Volts AC. Shipping weight 7½ lbs.

Same unit as above with 4-speed, fixed speed phono motor — **$27**

No. RP-253 was $44.99 in 164 Cat.

NEW

## Remote Control MICROPHONE

- Built-in Telephone Pick-Up
- Remote Control Switch




Genuine dynamic microphone has built-in transformer to change to hi-impedance. Slide switch on front selects microphone or telephone pick-up. Plug into tape recorder to make recordings of telephone conversation. A switch and extra set of wires is also included to operate a relay or start and stop tape recorder motor. Sensitivity: —53 db. Impedance: 50K ohms, telephone pick-up 2000 ohms. Frequency response: 60-10,000 cps. Shipping weight 2 lbs.

NEW

## Versatile DYNAMIC MIKE

- Desk Stand—Hand Held
- High Impedance




Beautifully designed and attractively finished in gray and brushed aluminum. Microphone slips easily from its cradled holder for use as a hand mike. Heavy cast base has rubber pads on the bottom so that it will not mar desk top. Includes threaded adaptor to fit on to a regular mike stand. Rugged dynamic element is matched to transformer to give high-impedance output (50,000 ohms). Output level —58db. Frequency response is 100-10,000 cps. Size: (mike) 7/8" dia. x 3 5/8" long. Has 5½ foot cable attached with flexible "cable-protector" at base of mike. Shipping weight 2 lbs.

NEW

## Deluxe DYNAMIC MIKE

- 50,000 ohm Impedance
- Adjustable Desk Stand




A rugged dynamic microphone with smooth response from 50-11,000 cps. Mike slips easily from its cast base for use as a hand mike. "Adjust-a-tilt" base has rubber feet to protect desk finish. Microphone is finished in satin black and chrome. Wide range dynamic element is perfectly matched to a high-fidelity transformer which gives an output impedance of 50,000 ohms. Output level is —55 db. Size: (mike) 1 3/16" dia. x 4 5/8" long. Has 6½ ft. shielded cable with flexible "cable-protector" at base of mike. Shipping weight 2 lbs.

NEW

## Hi-Lo Dual Impedance DYNAMIC MIKE

- 50,000 ohm Impedance
- Response: 50-10,000 CPS




For recording and P.A. applications requiring long mike cables. Cable can be extended to 100 ft. or more with no signal loss. An impedance matching transformer (not included) is required for matching into hi-impedance inputs when mike is wired for low impedance operation. Microphone has cardiod pick-up pattern. Standard 5/8"-27 thread. Response: 50-10,000 CPS. Output—55 db. Impedance: 50k ohms and 600 ohms. 5 3/4" x 2½". Shipping weight 3 lbs.

NEW

## Stereo DYNAMIC MIKE

- Stereo-Monaural Switch
- Satin Chrome Plated




Dual high impedance dynamic elements. Eliminates need for two mikes when making stereo recordings or monaural recordings of large groups. Heavy cast base. Frequency response: 50-15,000 cps. 50 K ohms. Polar Pattern: 2 omni-directed patterns 90° apart. Has heavy non-tip base. Switch selects mono or stereo mode. With cable. Size: 4" x 7¼". Shipping weight 6 lbs.

Olson

## CRYSTAL MIKE

★ On-Off Switch




High impedance crystal microphone suitable for voice recording, P. A. and amateur communications. Response: 50 to 7500 CPS. Output —50 DB. Push to talk switch located conveniently at top. Contrasting gold grille. With 5 ft. shielded cable. Shipping weight ½ lb.

MIKE CABLE, 22 ft., No. W-362 99c
¼" Phone Plugs, No. AS-477, Kit of 2 99c

Olson

## CRYSTAL MIKE

★ Includes Mike Stand




With built-in On-Off switch for tape recording, P.A., etc. Satin chrome finish. All directional, high impedance. Uniform response 50 to 8500 cps. Output level —57 DB. With desk stand, lavalier cord and 6 ft. shielded cable. Shipping weight 2 lbs.

MIKE CABLE, 22 ft., No. W-362 99c
¼" Phone Plugs, No. AS-477, Kit of 2 99c

Olson

## CRYSTAL MIKE

★ High Impedance



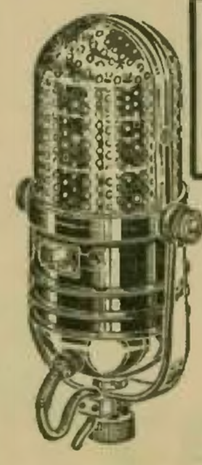

High impedance; response 100 to 8,000 cps. Ideal for PA. or communications use. Output —55 DB. Finished in an attractive baked green enamel with chrome-plated front. Overall size: 2½" dia. x 4¾" long. Standard 5/8"-27 thread for mike stand with 5 ft. shielded cable. Shipping weight 2 lbs.

MIKE CABLE, 22 ft. No. W-362 99c
¼" Phone Plugs, No. AS-477, Kit of 2 99c

Olson

## CRYSTAL MIKE

★ With Series Parallel Switch



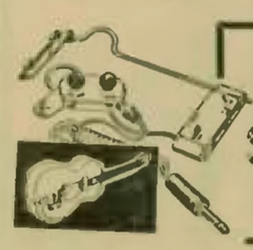

High indepedance crystal mike for music, voice, recording, P.A. etc. Equalize by a flip of the switch that is built into front of mike. Response 40 to 8,000 cps. Output—50 DB Double crystal cartridges give non-directional response when vertical to shielded cable. Shipping weight 3 lbs.

MIKE CABLE, 22 ft., No. W-362 99c
¼" Phone Plugs, No. AS-477, Kit of 2 99c

Olson

## GUITAR MIKE

★ Matches Any Amp.




Specially designed for guitars. Mounts under strings without tools or attachments. High impedance. Matches any amplifier. Has tone and volume controls. Unit slides up and down easily to create different tonal effects. Fits f hole opening. With 8 ft. plug-in cable. Shpg. wt. 3 lbs.

Stretch microphone cable. Extends to 16 ft., No. W-467 $4.49

MIKE CABLE, 22 ft., No. W-362 99c
¼" Phone Plugs, No. AS-477, Kit of 2 99c

Electro-Voice

Model 664



Cardioid

## DYNAMIC MIKE

$49.98 No. M-140

Response from 40-15,000 cps. Can be used with high or low impedance inputs. Low wind noise pickup means better outdoor sound. Output—55 db. Chrome finish. 18" cable. 7 1/8" long x 1 7/8" diameter. Shipping weight 5 lbs.

Phone Plugs, No. AS-477, Kit of 2 99c
e Cable, 22 ft., No. W-362 99c
raphone Connector, No. X-317, Ea. 31c

Olson

## Contact MIKE

No. M-130 $1.49 ea. 3 for $4.00



High impedance crystal contact mike with flexible 55" shielded lead. Can be connected to guitars, pianos, etc. For recording or P. A. Also use as a detective mike. Shipping weight ¼ lb.

MIKE CABLE, 22 ft. No. W-362 99c
¼" Phone Plugs, No. AS-477, Kit of 2 99c

Olson

## MIKE Cartridges

★ Crystal Type



Response 60 to 7,000 CPS. Output -55 db. Size: 2" dia. x 1½". Shpg. wt. ¼ lb.

No. M-99, 3 for $5.00 Ea. 1.99

As above but 1 1/16" dia. x 1 1/4" thick. Shipping weight ¼ lb.
No. M-134 3 for $3.00 Ea. 1.19

## Transistorized Mike Mixer

Olson

★ 4 Channels




Controls one to four signals from high impedance sources. Allows user to increase the volume of any channel while fading or holding the other channels. All four inputs have standard ¼" phone jacks. Output terminates in RCA type pheno jack. Operates on single 9 volt battery (less battery). Size: 6" W. x 2¼" H. x 3½" D. Shipping weight 3 lbs.

BATTERY (1 reqd.) No. BA-89, Ea. 21c

No. RA-345
$4.85 2 FOR $9.50

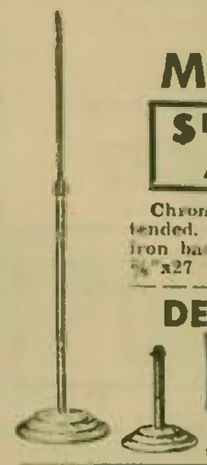
## FLOOR Mike Stand

$7.91 No. M-94
3 for $23.00

Chrome finish. 61 inches extended. 32 inches collapsed. Cast iron base in grey wrinkle finish ⅝"x27 thread. Shpg. wt. 9 lbs.

## DESK STAND

$1.97 No. M-95
3 for $5.00



6" high, standard thread. Shpg. wt. 2 lbs.

## MICROPHONE CONNECTOR

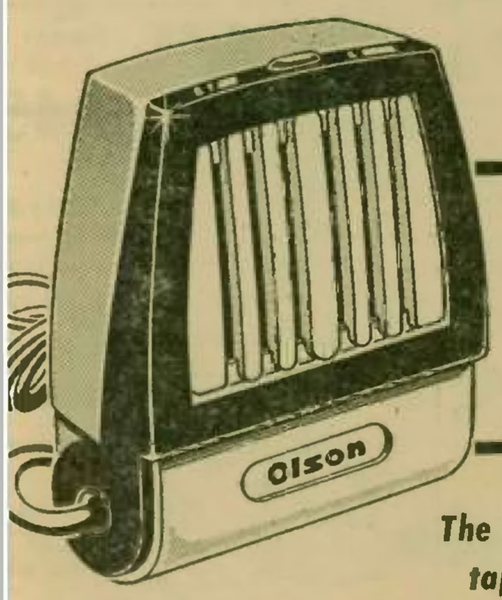


No. X-317
31c
4 for $1.00

Standard ⅝-27 thread
Shipping weight ¼ lb.

## Olson Crystal MICROPHONE

★ Sit On Desk
★ Hang On Wall
★ Hold In Hand



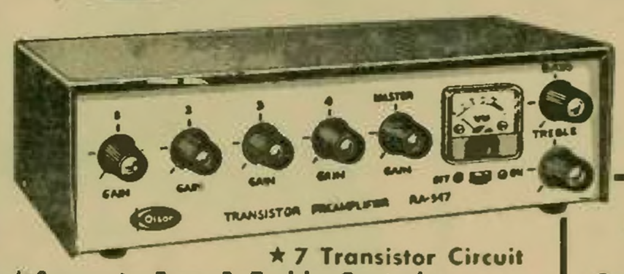

No. M-163
$2.99

MADE IN ENGLAND

*The ideal mike to make your tape recorder sound better!*

This high-output microphone is as handsomely styled as it is functional. Case is made two-tone, hi-impact plastic. Three way stand folds around the microphone body permitting it to fit neatly into the palm of your hand. Equipped with an eight foot shielded lead which is finished in neutral grey. Ideal for tape recorder, PA, CB, or Amateur applications. Output—50 db. Resps. 40-6,000 cps. Use two for stereo. Shipping Weight ¼ lb.

## Olson 4-Channel PREAMP MIXER




★ 65 db. Gain
★ Built-In VU Meter
★ 7 Transistor Circuit
★ Separate Bass & Treble Controls
★ Low Noise

No. RA-547
$34.98

A highly versatile, extremely well designed mixer-preamplifier for use in public address systems, tape recording and similar applications. Not to be confused with low priced mixers, Olson RA-547 is a mixer and preamplifier. Featuring 65 db. gain and extremely low noise level. The unit may be used for several combinations of high level and microphone mixing, since each channel can be individually switched for either use. The excellent signal to noise ratio of this unit makes it ideal for remote professional recording. Size: 3¾" H x 11⅞" W x 5¼" D. Operates on six pen-light batteries (Included). All metal case. Shipping weight 5 lbs.

## STEREO MONO Preamp Mixer

Same excellent features as above with added advantage of 2 channel stereo mixing seperate outputs for each channel. This unit can also be used for mono applications with just a flip of a switch. Features 9 transistors for high gain and low noise. Shipping weight 6 lbs.

No. RA-548 $39.98

Batteries (6 req'd.)
No. BA-67 8 for 59c

## Microphone STRETCH CABLE

★ Extends to 16 Ft.



$4.49 No. W-467

Ideal for musical instruments and roving microphones. Only 50 inches long collapsed . . stretches to 16 ft. Rubber insulation withstand scuffing and abuse. Equipped with a standard ¼ in. phone plug on one end and a popular Amphenol type connector on the other. Shipping weight ½ lb.

Olson

## 25' MICROPHONE Extension CABLE KIT

★ WITH 2 ADAPTOR PLUGS

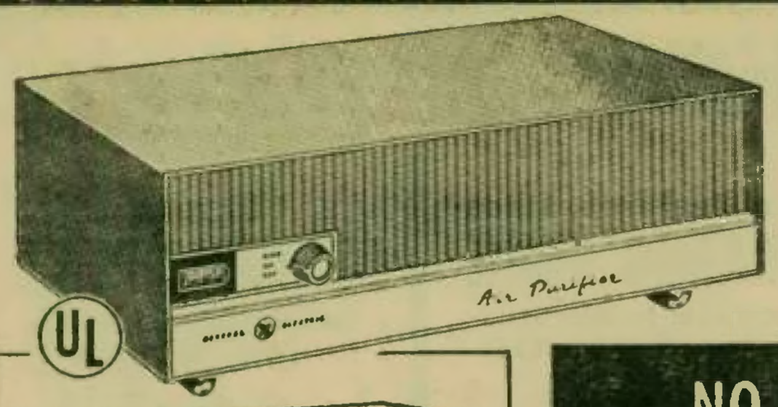


No. W-457
$4.31

Twenty-five feet of heavy duty shielded microphone cable with standard Amphenol type connectors on each end. Adaptor plugs convert Amphenol type plug to ¼" phone plug or ⅛" phone jack. Extra flexible cable with rugged vinyl jacket is designed for heavy duty, everyday use. This universal extension cable makes any PA system more flexible. Shpg. wt. 3 lbs.



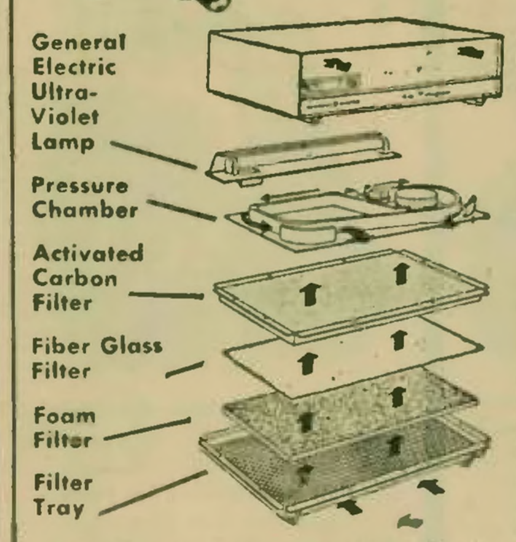
WRH




UL

# Portable AIR PURIFIER

Removes Smoke, Odors, and Air-Borne Particles




Air enters the bottom, passes through three filters, is exposed to the ultra violet rays, and is blown into your room clean and fresh.

**NO. MO-111**

**$19.99**

★ HEAVY DUTY FOAM FILTER

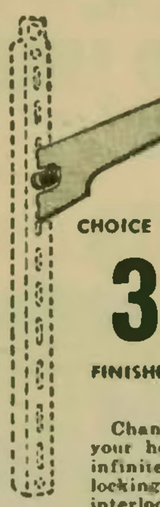
★ ACTIVATED CHARCOAL

★ 18" ULTRA VIOLET LAMP

Wonderfully effective, stream-lined air purifier helps remove pollen, dust, smoke, and odors from the air; makes life more comfortable for allergy sufferers. A heavy-duty, washable foam filter removes most dust and dirt from the air passing through then a superfine fiber glass filter, removes smoke and other airborn particles down to approximately 1/1,000,000th of an inch. At least 90% of all household odors are actually removed from the air. After passing through this super-efficient filter system, the air is exposed to the rays of a General Electric 18-inch ultra-violet lamp. A quiet, but powerful 5-inch blower pulls 44 cubic feet of air every minute. Size: 21½" W. x 12" D. x 7½" H. For 110 to 120 V. AC, 60 cps. Shipping weight 24 lbs.

# Custom SHELF ACCESSORIES

## 6 TO 12" BRACKETS



AS LOW AS **23¢** EA.

Shpg. wt. ¼ lb. ea.

CHOICE OF **3** FINISHES

| Gold Stk. No. | Silver Stk. No. | Black Stk. No. | Shelf Widths | EACH |
|---|---|---|---|---|
| HW-17 | HW-21 | HW-25 | 6" | .23 |
| HW-18 | HW-22 | HW-26 | 8" | .26 |
| HW-19 | HW-23 | HW-27 | 10" | .33 |
| HW-20 | HW-24 | HW-28 | 12" | .36 |

Change blank walls into the most functional and attractive areas in your home. Easily installed—adjust shelf height in seconds—create an infinite number of designs. Brackets are adjustable at 1" intervals, locking nut tightens against strip. Strip standards, 12" long, can be interlocked to make any length standard. Change and enlarge wall arrangements at any time. Slim standards are barely visible. Shelves have an airy, floating look.





**12" STRIP WALL STANDARDS**

Interlock To Any Length

Gold, No. HW-29
Silver, No. HW-30
Black, No. HW-31

Shpg. wt. ¼ lb. ea.

**18¢** EACH

Sound Powered

# PHONES

★ No Batteries Required



No. PH-53

**$5.95**

2 for $10.50




Provides instant 2-way communication up to 25 miles. No batteries required — only two wires to connect! Complete with cord attached that extends to 6 feet. As many as 12 phones can be connected. Shipping weight 3 lbs.

**Wire for connecting phones (indoor, outdoor or underground use).**

No. W-398, Per 100' coil ..... $3.00

Telephone Operators

# HEADSET



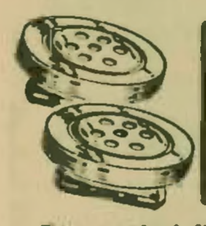
No. PH-84

**$19.99**

Consists of boom type mike and earpiece with cord and plug. Ideal for stage crews, telephones, etc. Frees hands. Shipping weight 2 lbs.

Kit of 2 Sound Powered

# PHONE ELEMENTS



No. AS-569

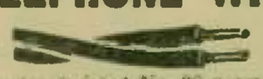
**99¢**

2 Kits for $1.75

Two standard HA-1 dynamic phone elements. No batteries needed. Just connect the two elements in series. Each element can be used as a receiver or transmitter or both. Four elements make two complete phones. Will operate over hundreds of feet of two conductor cable. Shpg. wt. ½ lb.

Phone Wire, No. W-398, Per 100' coil ..... $3.00

# TELEPHONE WIRE



2 conductor twisted No. 20 gauge stranded copperweld. Suitable for indoor outdoor installation. Shipping weight 5 lbs.

No. W-398, Per 100' Coil ..... **$3.00**

# COILED HANDSET CORD



No. W-395

**99¢**

4 for $3.50

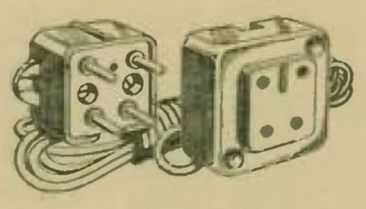
20

2 conductors. Works with W. E., A. L., North, St. Carl., Kellog, and Leich. Expands from 1 to 6 feet. Shipping weight ¼ lb.

# 25 Ft. Telephone EXTENSION CORD

★ Move Your Intercom Phone To Any Room

BUY NOW!



No. W-442

**$2.85**

$3.98 in CAT. 363




New extension cord for your telephone intercom. 25 feet of flexible cord and standard 4 pin plug and socket. Cord is completely assembled and ready to plug-in. Shpg. wt. 5½ lbs. Write for special large quantity prices.

PHONE PLUG, No. PL-82 ..... Ea. $1.25

PHONE JACK, No. PL-81 ..... Ea. $1.40

# DIAL PHONE

Make Your Own Private Intercom



★ FACTORY TESTED

**$7.91**

2 FOR $15

Western Electric ..... No. PH-61
Automatic Electric ..... No. PH-62

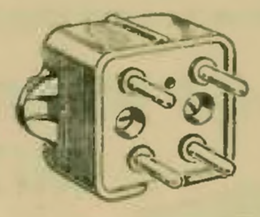
Can be used to make complete private systems. Includes handset, dial, bell, induction coil, etc., ready to connect. Used but factory tested. General appearance may vary slightly from catalog illustration. Available in 2 types. Shipping wt. 8 lbs.

# Telephone ACCESSORIES

Make Your Own Phone Extension
See Wire (W-366) Page 23

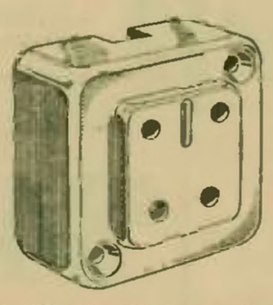
A

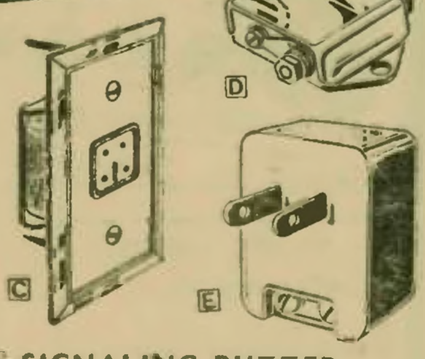
★ PHONE PLUG ★



B

★ PHONE JACK ★






**A PHONE PLUG**

Shpg. wt. ¼ lb.

No. PL-82 ..... Each $1.25

**B PHONE JACK**

Shpg. wt. ¼ lb.

No. PL-81 ..... Each $1.40

100 ft. 3-cond. wire, No. W-105 ..... $1.50

**C Telephone WALL JACK**

For 2, 3, or 4 wire systems. Fits standard wall conduit boxes. Takes PL-82 plug. Shipping weight ½ lb.

No. AS-558 ..... Each $2.61

**D SIGNALING BUZZER**

Makes any phone (above) into a private intercom. For 6-8 volts A.C. Size: 1⅝" x 2" x ½". Shipping weight ½ lb.

No. EA-64, 3 for $8.50 Ea. $2.93

**E Transformer for use with buzzer**

110V. primary, 6.3V. secondary U.L. App.

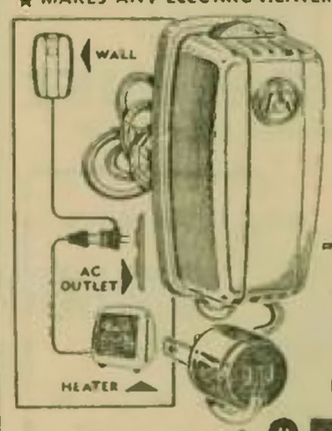
No. T-329 3 for $5.50 Ea. $1.99

T. M. Barkley, Dyersburg, Tenn., wins choice of merchandise worth $5 from Olson's "Treasure Hunt." See back cover for instructions.

Adjustable

# HEATER THERMOSTAT

★ MAKES ANY ELECTRIC HEATER AUTOMATIC




★ 15 Amp. Capacity

★ 30° To 90° F. Range

Mfgrs. 1963 list price $9.95

No. SW-318

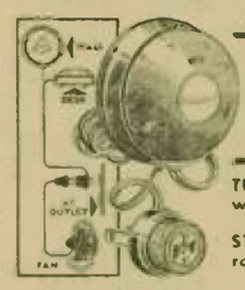
**$5.99**

Plug in any electric heater to 15 A rating, set the desired temperature on the dial, and enjoy fully automatic heat anywhere. Thermostat has convenient hook on back for hanging on wall. Large sensitive bimetal element registers slightest temperature change. Element reacts almost instantly to any variance in room temperature. Positive, instant snap action switch means no TV or radio interference and no arcing of contacts. Operating range is 30° to 90° F. For use on 110-125 volts A.C. 60 cps. Size: 5⅝" x 2⅝" x 2¼". Has heavy duty AC cord with plug and socket for heater. Shipping weight 2 lbs.

Temptrol

# Automatic FAN CONTROL

★ Made In U.S.A.




No. SW-280

**$4.99**

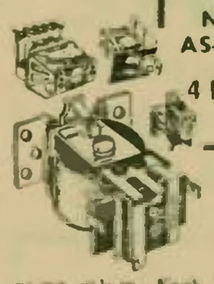
TURNS FAN OFF when room cools.

STARTS fan when room gets warm.

New automatic temperature control for all types of fans. No wires to connect, just plug "Temptrol" into any wall outlet and plug your fan into the outlet on the "Temptrol". Dial desired temperature and let "Temptrol" keep you cool automatically. Move from room to room wherever you use a fan, bedroom, kitchen or family room. 110-125 volts A.C., 50 cps. Shipping weight 1½ lbs.

GENERAL ELECTRIC

# RELAYS



No. AS-579

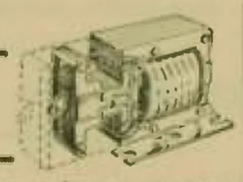
4 FOR **99¢**

Attention: Experimenters, servicemen, students! Hundreds of applications can be found for these first quality, brand name relays. Each kit contains 4 assorted relays, all are made by General Electric, DPDT, DPST, etc., switch contacts. New in original factory cartons. Coils are rated 6 or 12 volts DC. Size: 1⅝" x 2" x 2". Shipping weight 2 lbs. Write for special large quantity prices.

# 115-VOLT A.C. SOLENOID

★ Provides 5 to 10 lbs. pull or lift

Made for Hotpoint



No. SW-215

**$1.49** 3 for $4 12 for $15

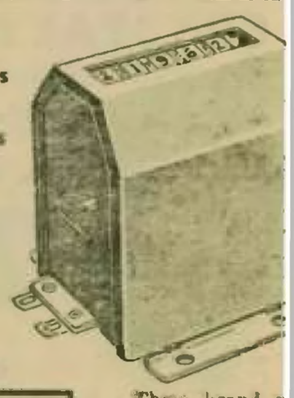
Ideal for operating animated displays, hobby devices, and makes an excellent actuator for a remote power switch. Size only 2½" x 1¾" x 2½". One inch armature travel. Shipping weight 2¾ lbs.

# 5 DIGIT Electro-Magnetic COUNTER

★ Turnstiles
★ Industry
★ Drive-In's

★ MADE IN U.S.A.

★ FOR 110-125 Volts A.C.



No. X-896

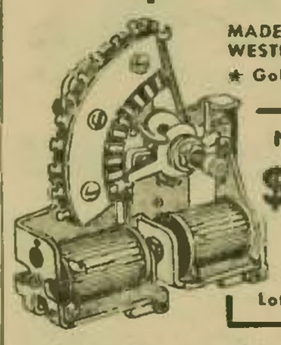
**ONLY $3.49**

10 for $30

These brand n counters are id for many count operations, such assembly line cou ing or door op ings or mach operations, et Counts 400 pul per minute. 110-125 volts A 60 cps. Size: 3 2½" x 2". Shipp weight 1 lb.

6 Volt D.C. Electro-Magnetic Coun No. X-897, 10 for $30.00, Ea. $3.

# 10 Step & Reset RELA



MADE IN U.S.A. WESTERN ELECTRIC

★ Gold Plated Conto

No. SW-209

**$6.95**

3 for $19.50

Lots of 6, Ea. $6.0

Single pole, 10 position switch conta Operates on 6 or 12 volts. D.C. volt impulses move selector bar one step a time up to 10. Separate reset coil relea selector bar to starting position. Size: 3 x 4" x 1¼". Excellent for experiment technicians, students, etc. Used but te and in good condition. Shpg. wt. 2 lb

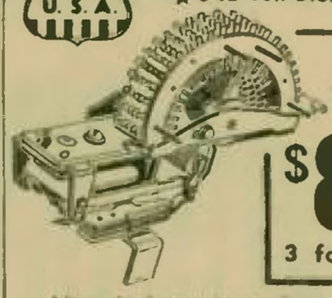
5 Level

# 22 STEP RELAY

Made by WESTERN ELECTRIC

MADE IN U.S.A.

★ GOLD PLATED CONTACT
★ 6-12 Volt D.C. Relay



No. SW-221

**$8.45**

3 for $24.0

All bridging wipers SPDT interru switch. Used but tested, and in g condition. Size: 7½" x 5" x 2". Ship weight 4 lbs.

# PHONE DIAL



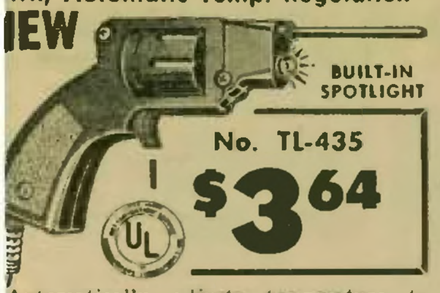
No. PH-41

3 for $4
Lots of 12, Ea. $1.

**$1.49**

Standard telephone dial units. Shpg. wt. ½ lb.

WEN "75"
## SOLDERING PISTOL
ATR, Automatic Temp. Regulation
NEW



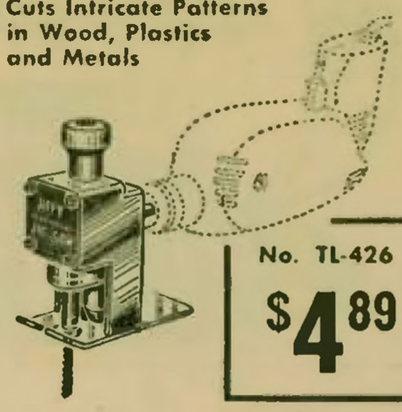

No. TL-435
**$3.64**

Automatically adjusts temperature to the job. A surge of 50 watts brings to working temperature in seconds, en only 30 watts are needed to maintain at for normal soldering. When tip is aced against an unusually large cold mass ATR" triggers more heat. Factory tinned never needs re-tinning. Can't overat. Extra long tip for hard to reach aces. For 110-120 V. A.C. Shipping eight 1½ lbs.



1 lb. Energized
**ROSIN CORE SOLDER**
Shpg. wt. 1½ lb.
3 for $3.50
No. X-620
**$1.39**

## "JIFFY" JIG SAW
★ FITS ANY ELECTRIC DRILL
★ Cuts Intricate Patterns in Wood, Plastics and Metals



No. TL-426
**$4.89**

This low price model has the same capacity and cutting speed as high priced jig saws. Does work of Jig, Keyhole, Coping, Rip, Crosscut, Band and Hacksaw. Cuts intricate patterns—however large—in plywood, plastics, metals — even cuts 2 x 4's! Automatic air-blower blows sawdust away from blade and cutting line. Extra large shoe-plate assures accurate and square cuts. Has self-lubricating bearings. Includes blade. Shipping weight 3 lbs.

## 7" Power Saw Accessories



**CARRYING CASE**
For 7" and 8½" Ram saws. Shpg. wt. 7 lbs.
No. CA-118 ..... $6.48
Shipped PP except to 1st Class Post Office

**EXTRA 7" BLADES**



Combination — No. TL-202
Shpg. wt. ½ lb. ..... $2.25



Flooring Cut Off — No. TL-203
Shpg. wt. ½ lb. ..... $2.25



Planer Blade — No. TL-204
Shpg. wt. ½ lb. ..... $5.00

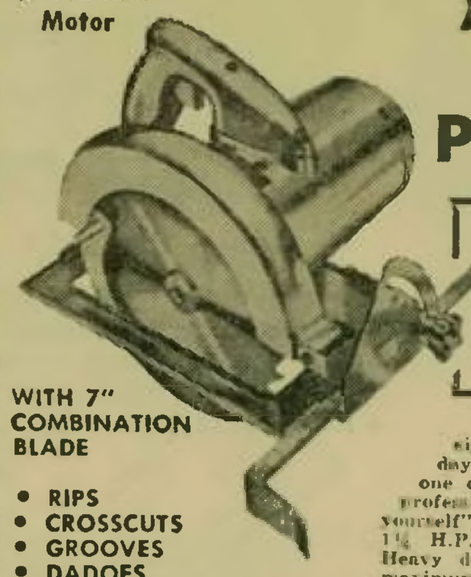
**SAVE** All 3 Blades — No. AS-406
Shpg. wt 2 lbs. ..... $7.93



**SAW TABLE**
Converts Ram 7" power saw to table saw. Includes miter gauge and rip fence. Angles between 45° and 90°. 9¾" high, 15" x 15" square. (225 sq. inches). Shpg. wt. 12 lbs.
No. TL-205, 3 for $25.00 ..... $8.75

SAVE—GET ALL 5 UNITS ABOVE
No. AS-426 (Ship. wt. 26¼ lbs.) ..... $21.00

★ 1½ H.P. Motor



WITH 7" COMBINATION BLADE
- RIPS
- CROSSCUTS
- GROOVES
- DADOES
- RABBETS
- BEVELS
- ANGLES
- MITERS

RAM fury 7"
## Power SAW
No. TL-390
**$21.95**

The Fury power saw is designed for rugged every day all day use, but priced so low that anyone can own one. YOU can get that professional appearance on your "do it yourself" projects. Universal aircooled, 1¼ H.P. motor with 3 conductor cable. Heavy duty die cast aluminum housing, maximum depth of cut 2⅜" maximum depth of cut at 45 degrees 2⅛". No-load speed 5000 rpm. Comes with combination blade, other blades available. Rips, crosscuts, grooves, dadoes, rabbets, bevels, angles, and miters. 110-125 volts AC/DC. Shipping weight 13 lbs.

22 Watt Illuminated
## MAGNIFIER LIGHT
★ Tube Included!
★ Turns In A Full Circle!
★ Distortionless Magnification!



★ MADE IN U.S.A.

No. EA-52
**$22.99**
3 for $68.50

Large 5" diameter, four power magnification lens surrounded by a 22 watt circline fluorescent tube provides cool shadowless lighting. Can be raised or lowered: extends to 45". Mounts to desk, etc. For 110-125 volts A.C. Shipping weight 8 lbs.

Capt. J. R. Murphy, Office of the Provost Marshall, Camp Irwin, Calif., wins choice merchandise worth $5 from Olson's "Treasure Hunt". See back cover for instructions.

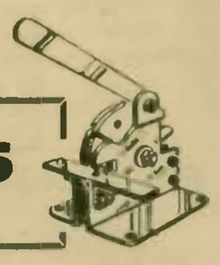



RAM fury SABRE SAW
★ ¼ H.P. Universal Motor

Easily cuts 2 x 4's, plywood, plastic, composition board, aluminum, other metals and a host of materials. Operates on 115 volt, AC or DC. Features ¼ H.P. universal motor. Operates at 3500 strokes per minute. Length of stroke is 11/16". Has built-in cooling system, positive action slide switch, adjustable base, rip guide and miter gauge. Bevel cuts from 0° to 45°. Comes with 5 assorted blades. Shipping weight 5 lbs.

**MULTI-PURPOSE SAW**
8 IN 1
- RIP SAW
- CROSSCUT SAW
- JIG SAW
- HACK SAW
- BAND SAW
- COPING SAW
- KEYHOLE SAW
- SCROLL SAW

## METAL WORKSHOP



No. TL-170
**$9.55**

Punches holes in metals up to 16 gauge, 1" from edge of stock. Three round inch sizes included — ⅛", 3/16" and ¼". ears metals up to 1" width. 16 gauge ickness. Forms rod or bar stock up to width. Bends and forms up to 90°. vets with any type solid or hollow rivet. ipping weight 6 lbs.

## 'ADJUST-A-LITE' KIT
ASSEMBLE IT YOURSELF AND SAVE!

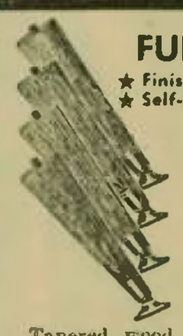


**$9.95** No. EA-69

Incandescent lamp with shade. Swings full 360°. Extends to 36". Clamps to desk or horizontal surface. Less bulb. For 110-125 volts A.C. Shipping weight 5 pounds.

Same as above but completely assembled,
No. EA-53 3 for $38.50 ..... Ea. $12.88

## FURNITURE LEGS
★ Finish to Match Furniture
★ Self-Leveling Swivel Glides

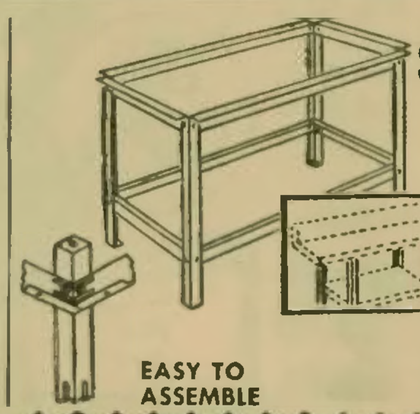


YOUR CHOICE SET OF 4 **$1.99**

| Stock No. | Length | Shpg. lbs. |
|---|---|---|
| TL-409 | 12" | 2¼ |
| TL-410 | 14" | 2¾ |

Tapered wood legs with brass ferrules and self-leveling swivel glides. Each kit contains 4 legs and 4 mounting plates. Legs mount straight up and down. Includes hardware. Shipping weight 5 lbs.

All Purpose
## STEEL BENCH FRAME

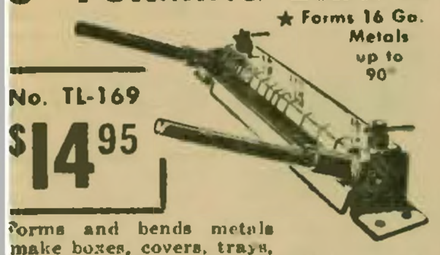



No. KB-98
**$5.50**
3 for $15

Sturdy all steel construction, predrilled ready for easy assembly. Just add top and shelf. Two or more frames may be combined. Size: 22½" x 47½" x 34" high. Grey finish. May be shipped parcel post to all cities. Shipping wt. 17 lbs.

## SAVE! GET BOTH
No. AS-328 **$24.00**
BOTH FOR
Shipping wt. 19 lbs.

## 8" FORMING BRAKE
★ Forms 16 Ga. Metals up to 90°



No. TL-169
**$14.95**

Forms and bends metals make boxes, covers, trays, 1" deep slots in brake bar permits ners to fold in. Handles up to 18" dth stock. Provides flange edge to 1" ght. Ruggedly constructed, accurate d adjustable. Shipping weight 13 lbs.

## LABELMAKER
Model M-4



No. TL-414
**$6.64**
Was $9.95 in 763 Cat.

WITH 6 FT. OF ¼" TAPE

Just dial the letters or numbers, they come up white on colored self-sticking vinyl, ready to apply on radios, brief cases, books, etc. So easy to operate, anyone can use it. Embossing wheel has 44 characters: A-Z, 0-9, plus $ ¢ & % + —. Includes 6 ft. roll of tape. Size 6½" x 6". Shpg. wt. 1 lb.

**6' Tape Cartridges, ea. 75c**

| | | | |
|---|---|---|---|
| Yellow | TL-416 | Lilac | TL-428 |
| Black | TL-417 | Lime | TL-429 |
| Red | TL-418 | Azure | TL-430 |
| Clear | TL-419 | Pink | TL-431 |
| Blue | TL-420 | Cinnamon | TL-432 |
| Gold | TL-421 | | |

Model M-5
## 3/8" TAPEWRITER
★ Label Luggage, Sports Gear, Files




Make your own embossed name plates. Easy to operate, just dial letters and numerals. Crisp white letters against a colored background. Cut off label with built-in cutter, apply pressure sensitive label anywhere. Tape is supplied in a new quick change throw away cartridge. 10 ft. roll included. Shipping weight 3 lbs.

**10 ft. TAPE CARTRIDGES, Ea. $1.25**

| | |
|---|---|
| 5201-9 Black M/5 | No. TL-395 |
| 5201-2 Red M/5 | No. TL-405 |
| 5201-5 Green M/5 | No. TL-406 |

## afety GOGGLES



No. TL-412
**$1.19**
3 for $3.30
12 for $12.00

Protect your eyes from serious injury h these adjustable goggles. Can be worn r regular glasses. Shipping weight ¼ lb.

## AND NIBBLING TOOL



★ Cut squares, circles or complex designs in metals or plastic.

No. TL-161
**$3.85**
3 for $11

Bites through 18 gauge steel or ⅛" minum, copper or plastic. Sharp angles tight curves cut effortlessly. Edges remain smooth after cut. Shpg. wt. ½ lb.

RA PUNCH
TL-162, 3 for $5.50 ..... **$1.87**

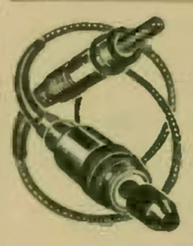
## CHASSIS PUNCH SET
★ 11-Piece Set



**$6.95** No. TL-246
3 Sets for $20.44

5 popular size chassis punches and deluxe reamer. Punch sizes are: ½", ¾", 1", 1½" and 1⅞". Reamer cuts ⅛" to ½". Shpg. weight 4 lbs.

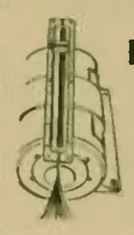
## 36" Flexible SHAFT
★ Fits ¼" or ½" Drill



**$2.39** No. TL-211

Transfers power from stationary power tools for precision work. Capacity 3/32" to ⅛" size drill. Shipping wt. 2 lbs.

Stewart-Warner
## RPM INDICATOR



**99c** No. X-854
4 for $3.50

An accurate device for checking vibration or RPM's within a range of 1,500 to 15,000. Shipping weight ⅛ lb.

## 7-PIECE DRIVER SET



**$2.19** No. TL-174

nsulated, color size keyed shafts. In : 3/16", 1/4", 5/16", 11/32", 3/8", 7/16", and . Shipping weight ¼ lb.

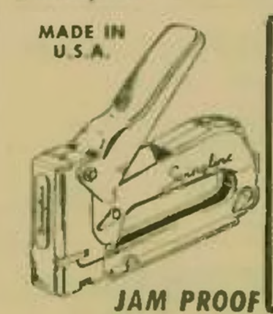
## POCKET HOIST
★ Lifts or Pulls up to 2000 lbs.
★ Lubricated for Life




**$6.95** No. TL-327
3 for $20

Miniature block and tackle with 7 to 1 ratio is small enough to fit in pocket but lifts or pulls up to 1 ton of weight. Perfect for hunters, boaters, airplane owners, motorists, etc. Comes with 100 ft. multistrand Dupont nylon rope that tests at 1,000 lbs. per strand. Made of high grade aluminum with stainless steel axles. Weighs less than 1 lb. Rustproof. Shpg. wt. 2 lbs.

Swingline STAPLE GUN

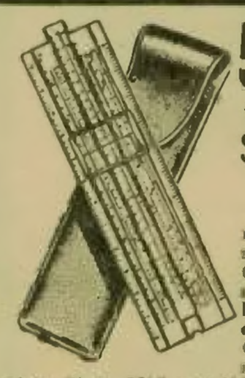



No. TL-398
**$3.88**
3 for $11.50
Lots of 12, Ea. $3.50

Simply place stapler against surface and squeeze. Special jam proof construction. Handle locks in place for easy carrying. Shipping weight 3 lbs.

Box of 1000 ⅜" Staples
No. TL-399, 5 boxes $2.50 ..... PER BOX **59c**

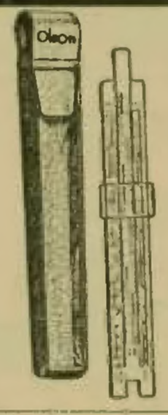
## 5" SLIDE RULE
★ With Vinyl Case



**$2.29** No. TL-424

All plastic slide rule with engraved scales. Has A, B, C1, C, D, K, S, L and T scales. Also has a 5-inch ruler on one edge and 0-13 centimeter scale on the other edge. Size: 5⅞" x 1½" Shpg. wt. ¼ lb.

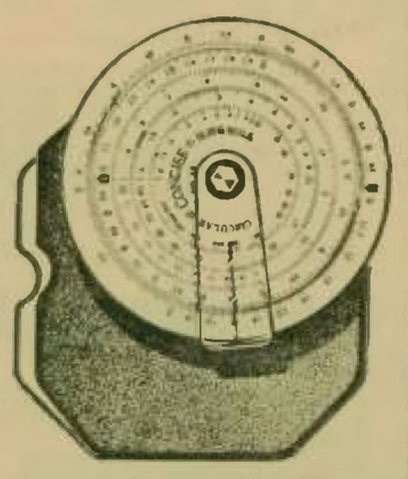
## 10" SLIDE RULE
★ With Vinyl Case



**$4.44** No. TL-425

A full sized, highly accurate slide rule. Each number and calibration mark is permanently etched into the surface of the ruler. Has A, B, C', C, D, and K scales on the front and S, L and T scales on the back. Shipping weight ¾ lb.

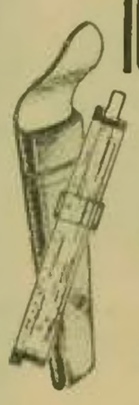
CIRCULAR
## SLIDE RULE
★ Comparable to 10" Rule



No. TL-397
**ONLY... $2**

Has as many subdivisions as a 10" rule. Conversion tables for volume, weight, length, velocity, and energy. Only 3⅝" in diameter. Complete with carrying case. Shipping weight ¼ lb.

## 10" LOG-LOG DUPLITRIG SLIDE RULE
★ Warp-Free Construction
★ Complete with Leather Case



**$10.45** No. TL-373

Laminated, nonhygroscopic bamboo. Scales are engraved on white plastic. Scales are L, LL1, DF, CF, CIF, C, D, LL3, LL2, LL0, LL00, A, B, K, C1, C, D, S, ST and T. A valuable tool for high school and college students, technicians and engineers. With illustrated instruction manual, including sample problems. Shpg. wt. ¾ lb.

## 4" SLIDE RULE
★ With Leather Carrying Case
★ Bamboo Construction
★ Engraved Scales



No. TL-366
**$3.19**
3 for $9.00

2X CURSOR gives readings equivalent accuracy of an 8" slide rule.
Has A, B, C1, C, D, S, L, and T scales. Also 0 to 4" measuring scale divided into 32nds of an inch plus 0 to 10 millimeter scale. Size overall: 4⅝". Shpg. wt. ¼ lb.

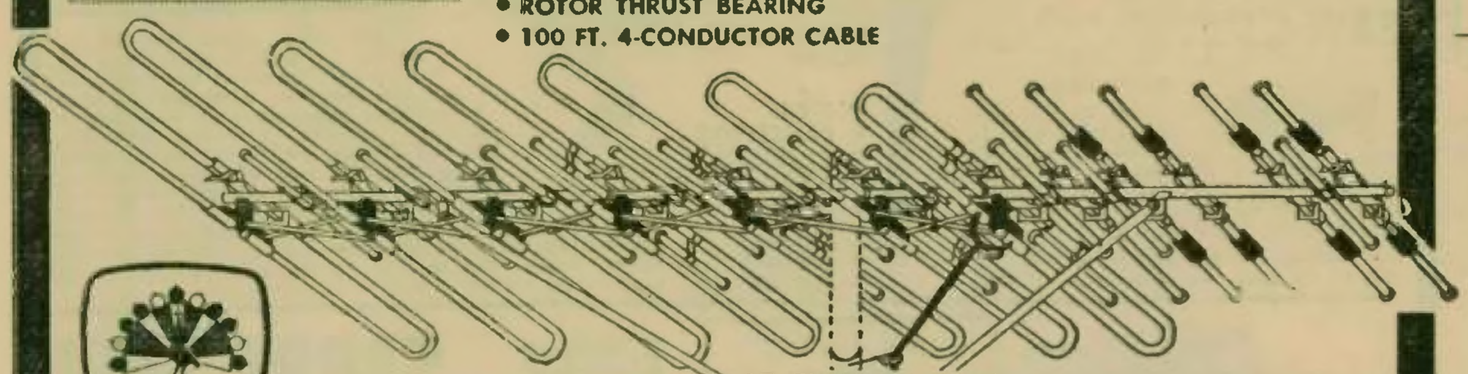
# Olson TV ANTENNAS

★ MORE POWER – LESS SPACE
★ ALL WEATHER CONSTRUCTION
★ GENUINE GOLD ANODIZED

RANGE UP TO 175 MILES

## "SPACE PROBE"
### 5-Piece TV-FM ANTENNA SYSTEM

- 37 ELEMENT GOLD ANODIZED TV ANTENNA
- ALLIANCE T-20 TENNA-ROTOR MOTOR
- ALLIANCE T-20 TENNA-ROTOR CONTROL BOX
- ROTOR THRUST BEARING
- 100 FT. 4-CONDUCTOR CABLE

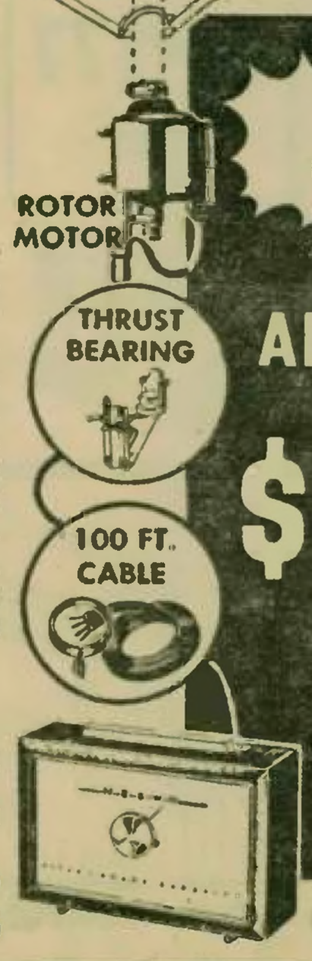


37 ELEMENT GOLD ANODIZED TV ANTENNA

IDEAL FOR... COLOR!

★ Perfect for FM Multiplex
★ Beams-In on Distant Stations
★ Genuine Gold Anodized Antenna

Why settle for only half the performance your set was designed for. The new Olson Space Probe antenna system gives perfect reception even in deep fringe areas. Genuine Gold Anodized Antenna has extremely high front-to-back ratio to assure clean high gain signal with a minimum of unwanted interference from side and back of antenna. Alliance Deluxe T-20 rotor turns antenna 360° with just a touch of your finger on the control box. Also included at this special price: AU-13 thrust bearing and W-62, 100 ft. 4-conductor wire. Shipping weight 30½ lbs. Shipped Railway Express for more careful handling.




$7 MONTHLY
NO MONEY DOWN

ALL 5 PIECES
$57
No. AS-898

ROTOR CONTROL BOX

### "SPACE PROBE" UNITS SEPARATELY:

| | |
|---|---|
| 37 Element TV Antenna No. AA-116 | $29.98 |
| Alliance T-20 Tenna-Rotor Motor & Control Box No. AU-12 | 25.40 |
| Rotor Thrust Bearing No. AU-13 | 2.91 |
| 100 Ft. 4-Conductor Cable No. W-62 | 2.95 |

## 15 Element TV ANTENNA

★ Range to 75 Miles
★ Genuine Gold Anodized, Rust Proof
★ Ideal for FM Multiplex
★ For Black and White and Color Reception
★ Snap-out Elements
★ Maximum Front-to-Back Ratio



STOCK No. AA-118 — $14.98

Genuine Gold Anodizing provides superior corrosion resistance and lasting beauty. Features snap-out construction for quick assembly. New silhouette gives more power in less space, reduces wind resistance. Exceptional front-to-back ratio assures steady, clear, ghost-free reception. Shipping weight 8 lbs. Shipped Railway Express for more careful handling.

## 21 Element TV ANTENNA

★ Range to 150 Miles
★ Genuine Gold Anodized
★ For Fringe Area Reception
★ Ideal for Color or Black and White
★ Ideal for FM Multiplex
★ High Front-to-Back Ratio

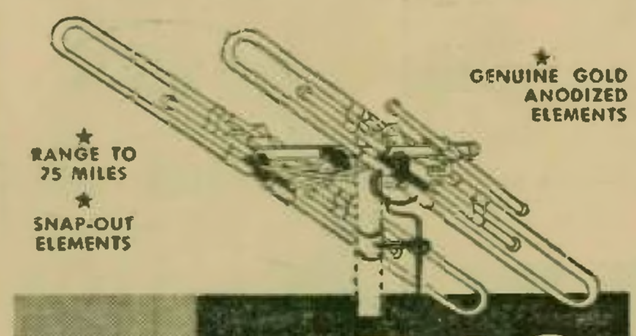


STOCK No. AA-117 — $18.88

Made of highest quality materials including Genuine Gold Anodized elements and molded insulators. Extra long range is made possible by the highly directional design of this antenna. High front-to-back ratio eliminates ghosts and reflections. Uniform response provides true reproduction of color on all channels. Shipping weight 10 lbs. Shipped Railway Express for more careful handling.

## 5 Element TV ANTENNA

★ GENUINE GOLD ANODIZED ELEMENTS
★ RANGE TO 75 MILES
★ SNAP-OUT ELEMENTS



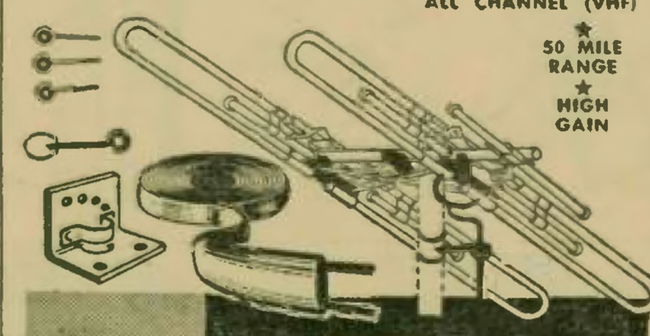
STOCK No. AA-119 — $4.99

The perfect antenna for most metropolitan areas. Compact size at no sacrifice in range. Small enough to fit into the attic but built to withstand all kinds of weather. Genuine Gold Anodized elements resist corrosion and keep antenna in new condition for many years. Highly directional characteristics eliminate ghosts and reflections. Shipping weight 5 lbs.

## TV-FM ATTIC ANTENNA

ALL CHANNEL (VHF)

★ 50 MILE RANGE
★ HIGH GAIN



STOCK No. AA-120 — $5.49

★ EASY TO INSTALL — Protected From the Elements

Olson Attic Mount Kits are factory pre-assembled units designed for fast, easy installation. Employs a new all-channel (VHF) yagi-type antenna. If desired, antenna may be installed outside. High gain gives excellent reception up to 50 miles. Kit includes: antenna, antenna mast, 50-ft. lead-in wire, hardware. Shipping weight 6 lbs. Shipped Parcel Post, except shipped Railway Express to first class post offices.

## Snyder Directronic 3-DX Indoor TV ANTENNA

*For Black & White, Color and FM*



AA-114 — $6.91

★ Cylindrical Phasing Elements
★ 12 Position Beam Selector
★ Tip-Proof Base

The new Snyder Directronic 3-DX is electronically antenn-gineered to out perform all others. Has two section gold tone brass staffs plus cylindrical phasing elements. Features Directronic 12-position beam selector to eliminate ghosts and reflections to give you steady, clear, static free reception. Smartly styled compact, tip-proof base enhances beauty of any television cabinet. Complete with 300 ohm lead-in. Shipping weight 3 lbs.

## 4 Element Fringe FM ANTENNA

*RANGE: TO 60 MILES*



No. AA-84 — $3.99

★ ALL ALUMINUM CONSTRUCTION ★

- Ideal for Multiplex
- Preassembled snap-out elements
- For long-distance FM reception
- Sensitive Yagi design
- MADE IN U.S.A.
- Shipping weight 4 lbs.

## UHF Corner Reflector ANTENNA

*RANGE: TO 50 MILES*



No. AA-98 — $4.56

★ GOLD ANODIZED

★ Ideal for Fringe Area
★ Preassembled
★ All Aluminum Construction

Popular corner reflector UHF antenna. Features high gain and broad band. For channels 14-83. Range 50 miles. All aluminum. Gold anodized. Shipping weight 6 lbs.

## INDOOR TV-FM ANTENNA



No. AA-25 3 for $5 — $1.91

★ With 6-position switch

Covers VHF and UHF as well as FM Stereo. Has 6 position phasing switch built into base. Complete with 300 ohm lead-in for any set. Extends to 34". Shipping weight 2 lbs.

## FM Dipole ANTENNA



No. AA-71 — 89c

Flexible folded dipole antenna for FM or TV. Can be attached to back of cabinet. 300 ohm. Shpg. weight ¼ lb.

## TWIN LINE TV-FM LEAD-IN

300 OHM



Made of pure polyethylene conductors are all stranded copper. Available in two grades.

**22 Gauge Copper, 40 Mil Insulation**

3 for $3 — 100' COIL No. W-73 — $1.19
250' SPOOL No. W-312 3 for $6 — $2.39

Shpg. wt. 3 lbs. Shpg. wt. 5 lbs.

**20 Gauge Copper, 100 Mil Insulation**

100' COIL No. W-311 3 for $5 — $1.98
250' SPOOL No. W-313 3 for $9 — $3.39

Shpg. wt. 3 lbs. Shpg. wt. 6 lbs.

## UHF Regency CONVERTER



No. RA-344 — $17.97 3 for $50

★ Easy To Connect

Just put converter between antenna and TV set. Automatically disconnects antenna from converter and sends VHF signal through when not in use. Uses 6AF4 oscillator tube and low-noise mixer diode. Handsome cabinet in dark mahogany. Size 5¾" x 2⅝" x 4". For 110-125 volts A.C. Shipping weight 5 lbs.

## TV-FM Wall Plate

★ Eliminates Unsightly Wires



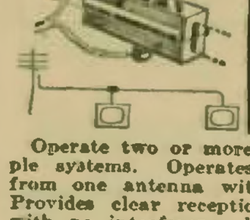
99c — No. AA-51 7 for $6 12 @ 65 ea.

Allows you to put an outlet for 300 ohm flat TV lead-in wherever you wish. Comes with polarized plug, mounting hardware and complete instructions. Shpg. wt. ¼ lb.

Floyd G. Bailey, 605 N. Benton, Marshall, Mo., wins choice of merchandise worth $5 from Olson's "Treasure Hunt." See back cover for instductions.

## TV-FM MASTER ANTENNA SYSTEM

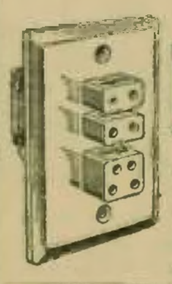
Connect Any Number of Sets to One Antenna



$1.15 No. AA-69
3 for $3.09
Lots of 12, Ea. $1.00

Operate two or more TV sets or multiple systems. Operates 20 or more sets from one antenna without amplification. Provides clear reception on all channels with no interference between sets. Shipping weight ¼ lb.

## WALL PLATE/COUPLER



★ 2 TV Sets & Rotor
★ TV & FM plus Rotor

No. AA-99 3 for $6.00 — $2.19

Antenna wall jack combined with a highly efficient two-set coupler. You can connect two TV sets or a TV set and an FM radio to one antenna. Shipping weight ½ lb.

## TV-FM ANTENNA SPLITTER

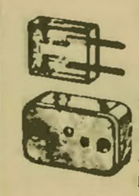


No. AA-30 — $1.69 — 3 for $4.50

Balun coil type—operates 3 TV's from one antenna. Uses Balun Coils for maximum efficiency in the distribution and transfer of TV signals from a single antenna to 3 sets. Can also be used with a combination of TV and FM sets. Use with AA-51 and AA-59. 6" x 2¼" x 1⅜". Shipping weight ½ lb.

## TV-FM Plug & Socket

★ Kit of 3 Pairs

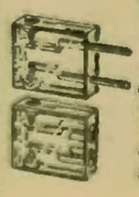


For TV or FM lead-in. No soldering. Plug size: ⅝" x 1¼". Socket: 1⅜" x 1" x 1⅛". Shpg. wt. ¼ lb.

4 Kits for $3.50
No. PL-59 — 99c

## TV-FM Plug & Socket

★ Kit of 3 pairs



For TV, FM lead-in or speaker wire. No soldering. Plug: 1⅜" x ⅝"; socket: 1" x ⅞". Shpg. wt. ¼ lb.

4 Kits for $3.50
No. PL-60 — 99c

## Deluxe B-T LABS UHF-VHF Two-Set COUPLER

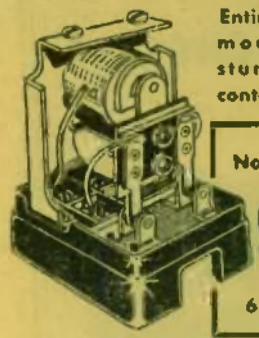



$3 No. AA-100

Enables operation of two TV sets or FM radios from single antenna without loss of signal strength. For standard 300 ohm line. With hardware and instructions. Size 3" x 2¼" x 1⅝". Shipping weight ¼ lb.

Potter & Brumfield

## DPDT RELAY



Entire relay is mounted in sturdy metal container.

No. SW-282

**99c**

6 FOR $5

Rugged power switching relay operates on 6 or 12 volts DC. Has 10 AMP. D.P. D.T. contacts. Mounted in metal container to seal out dust and dirt. Size: 1⅞" W x 2½" L x 3" H. Shpg. wt. 1 lb.

---

KIT OF 6



Octal

## SOCKET KIT

★ Molded Type

No. AS-849

**99c**

Kit of 6 standard (octal) sockets. All molded type. Some are saddle type mount and some are for snap ring mounting. Terminal lugs are all clearly numbered. Shipping weight 1 lb.

---

## PHONO PLUGS & JACKS

★ KIT OF 10 PAIR



No. PL-108 Pert Kit **99c**

RCA type phono plugs and jacks. Plugs mount on end of shielded cable and have clamp type strain relief. Round type chassis mounting jacks. Shipping weight ½ lb.

---

## Belden Heavy Duty AC CORD

★ With Plug



No. W-462 2 for **99c**

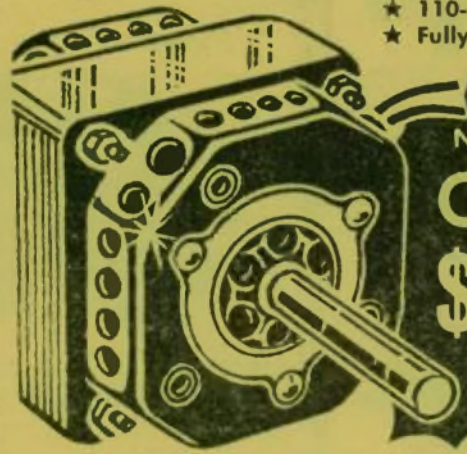
Heavy duty AC line cord, ideal for replacement on power tools and motors. Heavy rubber insulation resist wear and scuffing. 8 ft. long. Shpg. wt 1 lb.

---

General Industries

## 4-Pole Motor

★ 2 ¾" shaft
★ 110-125 Volts A. C.
★ Fully Inclosed



No. MO-109

**ONLY $2.99**

This rugged 4-pole motor is perfectly suited for many kinds of applications. Use a replacement in tape recorders and turntables or make your own tape deck, fan, turntable or display. ⅜" dia. shaft rotates at 1750 Rpm. Bronz bearings are used on both ends of shaft for long life. Size: 3⅝" x 3⅝" 2⅝" plus shaft. Shipping weight 3½ lbs.

**HEAVY-DUTY 4-POLE MOTOR**

Similar to above, for heavy duty application.

No. MO-53 _____ **$3.49**

---



VM Collaro Webcor BSR

## 10 PIECE Record Changer KNOB KIT

No. KN-20

**ALL 10 99c**

3 KITS (30 KNOBS) $2

**MADE IN U.S.A.**

Record changer knobs are often hard to find but Olson has them and in just the types you need. Each kit contains 3 different types for Webcor, 2 types VM, 2 types for Monarch (BSR) plus 3 types for Collaro. Shp. wt. ½ lb.

---

## SOLENOID

★ For 117 volts AC

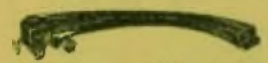


No. X-937 Only . . . **99c**

Armature travel 5/16". Armature rotates counter clockwise ¼" on 4 pulls in. Shipping weight 2 lbs.

---

## VM CHANGER ARMS

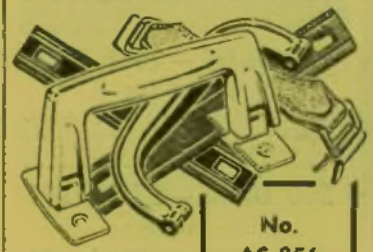


No. RP-268 Kit of 3 . . **$1**

Replacement arms for popular VM changer. Less cartridge. Shipping weight ⅛ lb. A real bargain!

---

## 5 Piece HANDLE KIT



Kit contains 5 assorted handles suitable for use on luggage, portable carrying case, etc. Handles are made of leather and plastic. Assorted colors. Shipping weight ¾ lb.

No. AS-856

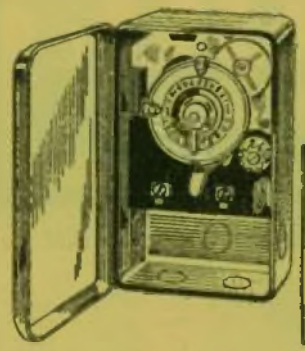
**$1**

---

Automatic

## TIME SWITCH

★ 4375 Watt Capacity
★ 110-125 Volt 60 cps.



No. X-952

**$7.77**

Timer turns any appliance on and off once each 24 hours at pre-set time. Time on and off is easily adjustable by means of movable trippers. Has manual switch that overrides the automatic operation. Timer automatically resumes to normal switching. Time cycle repeats itself indefinately. Heavy duty contacts handle 40 amps. Timer is mounted in rugged steel case with knockouts in back and side of case for electrical connections. Screw type terminals make hook-up quick and easy. Size: 7⅞" H. x 5" W. x 3" D. Operates on 110-125 V. A.C. 60 cps. Shipping weight 4 lbs.

# 25pc. METAL KIT

## ALUMINUM

## STEEL



★ Assorted Sizes and Shapes
★ Aluminum Pre-Punched Chassis

Here is a rare bargain for the builder or experimentor. All kinds of brackets and chassis can be formed to suit your special needs. Each kit contains at least one aluminum, pre-punched chassis (size 15⅞" x 7½" x 2¼"). Ideal for building power supplies, transmitters, receivers and many other items. Metal plates and panels can be cut and bent to form a chassis of your choice. Order several of these kits and take advantage of Olson's money saving price while our assortment is complete. Shipping weight 15 lbs.

No. CA-295

**99c**

GE—Telechron—International Register

Automatic

## TIME SWITCH

★25 Amp. Contacts



No. SW-249

**$1.49**

Reg. ~~$1.99~~

On-Time is adjustable in intervals of 15 minutes up to 5½ hours. Size of basic timer mechanism is 4½" x 3½". Size and style of face plate may vary from illustration. Switch contacts are rated at 25 amps at 250 volts. Motor is for 110-125 volts AC 60 cps. Less knobs. Shipping weight 2½ lbs.

## POWER RHEOSTATS



10,000 Power Rheostats to be sold fast! Famous makes included, Clarostat, Ward-Leonard, Hardwick-Hindle, Dejur, etc. STOCK UP NOW. Ideal for regulating lights, adjusting speeds also for model railroads. Shipping weight ¼ lb.

10 FOR $4.50 EACH **49c**

**MAY BE ASSORTED**

### 125 OHMS — 25 WATTS

No. VC-265

¼" Round shaft ½" long. Mounting stud: ⅜" dia. x ½" long. Size: 1½" dia. x 2⅞" deep.

### 250 OHMS — 25 WATTS

No. VC-260

Heavy ceramic housing. 1½" dia. Shaft ¼" dia. x 1" long.

### 20,000 Ohms — 25 Watts

No. VC-268

Screwdriver Shaft. Mounting stud: ⅜" dia. x ½" long. Size: 1¹¹⁄₁₆" dia. x 1⅞" deep.

**BUY NOW!**

Photo Electric

## CONTROL CHASSIS

★ Cadmium Sulfide Photo Cell
★ For 117 Volt
★ Sigma Relay



No. SW-284

**$2.49**

Approx. Mfg'rs Cost $30

Can be easily adapted to turn yard lights and advertising signs on at dark and off in the day time. Sensitivity can be adjusted by sliding screen over the photo cell. Features a genuine Sigma relay with double break S.P.S.T. contacts. Units are used but in excellent working condition. Completely assembled ready to connect and use. Appearance may vary slightly from illustration. Size, 3" dia. x 2" above chassis. For 110-125 volts AC, 60 cps. Shipping weight 2 lbs.

## PARTS VALUE!

Photo Electric CONTROL CHASSIS

A wonderful box of parts, relays, controls, etc. All parts OK but units not operable. Buy now & save. Used. Shipping weight 4 lbs.

**99c** No. X-895 $1.32 in. 763 Cat.

## Read - Out COUNTER

★ 24 V. DC Solenoid



★ Large Numerals

No. X-918

**$1.50**

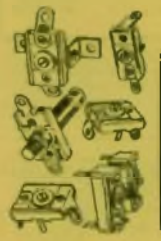
Lots of 4, Ea. $1.25

Ideal for industrial counting operations, score boards, assembly line counting, etc. Ruggedly built for continuous operation in computers. Large numbers 0 thru 9 are painted on a drum which is rotated by a solenoid. Each number is ⅞" high so that it can easily be read at a glance. Size: 3¾"x1⅞"x1½". Used. Shpg. wt. 2 lbs.

TRIMMER

## CAPACITOR KIT

★ 6 Pieces



No. C-178

**99c**

Mica trimmer capacitors in various sizes for a variety of applications. Treated to resist moisture. Low-loss ceramic base. Convenient screwdriver adjustment. Shipping weight ¼ lb.

PRE-PUNCHED

## ALUMINUM CHASSIS



Ideal for experimental circuits. 15⅞" x 7½" x 2¼". All Aluminum chassis. Pre-punched with holes for tube sockets, transformers, etc. Shpg. wt. 4 lbs.

No. X-92/ 2 for **99c**

## Metal Grille Kit



Ideal for use as speaker grille in radios, TV or phono. Makes excellent grille for ventilation openings. Shpg. wt. 4 lbs.

No. CA-283, Kit of 10 **99c**

# MILLIONS OF FEET OF WIRE — Tremendous Bargains Large Selections

## 500 FT. HOOK-UP WIRE



★ FIVE 100 FT. COILS
★ Rubber, Cotton or Vinyl Insulation
★ Solid and Stranded Types

No. AS-903
500 FT. FOR
**$1.99**

You get 5—100 ft. coils of insulated hook-up wire, both solid and stranded types. Each roll is well insulated with rubber, cotton or vinyl insulation. Ideal for kit building and repair work. Color code the circuits in your next kit by using a different color wire in each circuit. This will make future repairs and circuit tracing much easier. You will always have enough hook-up wire when you need it when you take advantage of this Olson bargain now. Shipping weight 1½ lbs.

## *Sensational* WIRE ASSORTMENT

★ 10—50 FT COILS (500 FT.) ★

- 10 Different types or Sizes
- A type for Every need

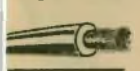
**TREMENDOUS VALUE**

Olson's buying know-how now brings you the most fantastic wire kit ever offered. Ten different types and sizes. A wire for every application. Why hunt further? The kind of wire you want is sure to be in this kit. There's stranded, insulated wire in several sizes. There's multi-conductor wire in different sizes and types of insulation . . . there's even some shielded and some twisted pair. Order two or three of these kits today and never have to look for a special kind of wire again. Shipping weight 3 lbs.



**$2.99**
ALL 10 COILS
No. AS-904

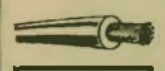
### STRANDED WIRE



- 1 Conductor
- 12 Gauge
- Vinyl Insulation
- Hook-up Wire
- 100 Ft.
- Wt. ½ lb.

No. W-472 **$1.49**

### STRANDED WIRE



- 1 Conductor
- 14 Gauge
- Vinyl Insulation
- Hook-up Wire
- 100 Ft.
- Wt. ½ lb.

No. W-476 **$1.29**

### STRANDED WIRE



100 FT.

No. W-470 ONLY .. **$1.19**

- 1 Conductor
- 18 Gauge
- Vinyl Insulation
- Wt. ½ lb.

### STRANDED WIRE



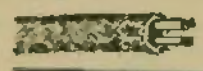
100 FT.

No. W-481 ONLY .. **$1.24**

- 1 Conductor
- 16 Gauge
- Vinyl Insulation
- Hook-up Wire
- Wt. 1 lb.

### SHIELDED CABLE

Multi-Conductor



100 FT.

No. W-493 ONLY .. **$2.49**

- 2 Conductor
- 20 Gauge
- No Outside Insulation
- Intercom & Speaker Cable
- Wt. 2 lbs.

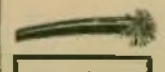
### SHIELDED WIRE



- 2 Conductor
- 24 Gauge
- Vinyl Insulation
- Intercom & Speaker Cable
- 100 Ft.
- Wt. 1 lb.

No. W-486 **$1.49**

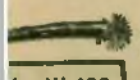
### MULTI-CONDUCTOR WIRE



- 91 Conductor
- 18 Gauge
- Vinyl Insulation
- Intercom & Telephone Cable
- Per Foot

No. W-487 **74¢**

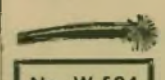
### MULTI-CONDUCTOR



- 59 Conductor
- 42-22 ga. 11-18 ga. 6-RG62B/U
- Vinyl Insulation
- Intercom & Telephone Cable
- Per Foot

No. W-498 **48¢**

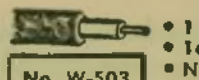
### MULTI-CONDUCTOR



- 20 Conductor
- 3-14 ga. 3-8 ga. 14-16 ga.
- Vinyl Insulation
- Intercom & Telephone Cable
- Per Foot

No. W-504 **16¢**

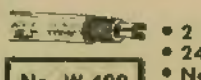
### SHIELDED WIRE



- 1 Conductor
- 16 Gauge
- No Outside Insulation
- Intercom Cable
- 100 Ft.
- Wt. 2 lbs.

No. W-503 **$3.79**

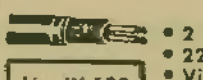
### MULTI-CONDUCTOR SHIELDED



- 2 Conductor
- 24 Gauge
- No Outside Insulation
- Intercom & Speaker Cable
- 100 Ft. • Wt. 2 lbs.

No. W-499 **$1.99**

### MULTI-CONDUCTOR SHIELDED



- 2 Conductor
- 22 Gauge
- Vinyl Insulation
- Intercom & Speaker Cable
- 100 Ft.
- Wt. 1 lb.

No. W-500 **$2.29**

### SHIELDED WIRE



- 1 Conductor
- 24 Gauge
- No Outside Insulation
- Audio Cable
- 100 Ft.
- Wt. 2 lbs.

No. W-490 **$2.79**

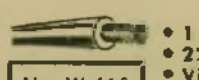
### SOLID WIRE



- 1 Conductor
- 22 Gauge
- Braided PVC Insulation
- Hook-up Wire
- 100 Ft.
- Wt. ¼ lb.

No. W-515 **79¢**

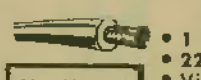
### STRANDED WIRE



- 1 Conductor
- 22 Gauge
- Vinyl Insulation (Green)
- Hook-up Wire
- 3600 Ft.
- Wt. 12 lbs.

No. W-465 **$10**

### STRANDED WIRE



- 1 Conductor
- 22 Gauge
- Vinyl Insulation (Orange)
- Hook-up Wire
- 3600 Ft.
- Wt. 12 lbs.

No. W-466 **$10**

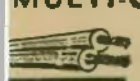
### MULTI-CONDUCTOR



- 2 Conductor
- 24 Gauge
- Clear Vinyl Insulation
- Speaker Cable
- 53 Ft.
- Wt. ½ lb.

No. W-361 **99¢**

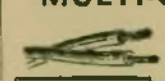
### MULTI-CONDUCTOR



- 2 Conductor
- 21 Gauge
- Clear Vinyl Insulation
- Speaker Cable
- 100 Ft.
- Wt. 3 lbs.

No. W-400 **$1.95**

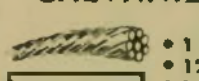
### MULTI-CONDUCTOR



- 2 Conductor
- 20 Gauge
- No Outside Insulation
- Intercom Cable
- 60 Ft.
- Wt. ½ lb.

No. W-363 **99¢**

### GALVANIZED WIRE



- 1 Conductor
- 12 Gauge
- No Outside Insulation
- Antenna Guy Wire
- 100 Ft.
- Wt. 3 lbs.

No. W-380 **99¢**

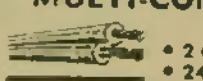
### STRANDED WIRE



- 1 Conductor
- 22 Gauge
- Cotton, Push-Back
- Coil Winding
- 100 Ft.
- Wt. ¼ lb.

No. W-419 **69¢** 3 for $2

### MULTI-CONDUCTOR



- 2 Conductor
- 24 Gauge
- Clear Vinyl Insulation
- Speaker Cable
- 200 Ft.
- Wt. 3 lbs.

No. W-399 **$2.95**

### MULTI-CONDUCTOR



- 3 Conductor
- 20 Gauge
- Vinyl Insulation
- Intercom Cable
- 28 Ft.
- Wt. ½ lb.

No. W-366 **99¢**

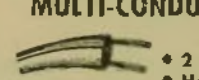
### SHIELDED WIRE



- 1 Conductor
- 20 Gauge
- Vinyl Insulation
- Microphone Cable
- 22 Ft.
- Wt. ½ lb.

No. W-362 **99¢**

### MULTI-CONDUCTOR CABLE



- 2 Conductor
- Heavy Duty
- Vinyl Insulation
- TV-FM Lead-in Cable
- 100 Ft.
- Wt. 3 lbs.

No. W-412 **$2.95**

### MULTI-CONDUCTOR CABLE



- 2 Conductor
- 24 Gauge
- Vinyl Insulation
- Intercom Cable
- 100 Ft.
- Wt. ½ lb.

No. W-103 **89¢** 3 for $2.50

### MULTI-CONDUCTOR CABLE



- 3 Conductor
- 22 Gauge
- No Outside Insulation
- Intercom Cable
- 100 Ft.
- Wt. 1 lb.

No. W-105 **$1.50** 2 for $2.80

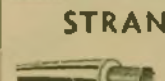
### STRANDED WIRE



- 2 Conductor
- 18 Gauge
- Vinyl Insulation
- A. C. Zip Cord
- 100 Ft.
- Wt. 3 lbs.

No. W-318 **$2.59**

### STRANDED WIRE



- 1 Conductor
- 18 Gauge
- Vinyl Insulation
- Hook-up Wire
- 100 Ft.
- Wt. ¼ lb.

No. W-452 **79¢**

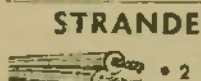
### MULTI-CONDUCTOR CABLE



- 11 Conductor
- 22 Gauge
- Vinyl Insulation
- Intercom & Telephone Cable
- 100 Ft.
- Wt. 7 lbs.

No. W-354 **$7** 3 for $20

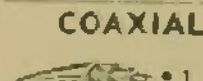
### STRANDED WIRE



- 2 Conductor
- 18 Gauge
- Vinyl Insulation
- A. C. Zip Cord
- 250 Ft.
- Wt. 7 lbs.

No. W-317 **$4.49**

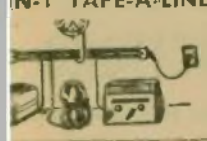
### COAXIAL CABLE



- 1 Conductor
- RG-58/U
- Vinyl Insulation
- Antenna Lead-in Cable
- 20 Ft.
- Wt. ½ lb.

No. W-384 **99¢**

### IN-1 TAPE-A-LINE — $1.47



No. W-278
Up to 8 appliances can be handled. Ivory color 12" long. Six foot cable. ½ lb.

### Immersion HEATER



Gives boiling water in 3 minutes. 36" line cord with plug. For 110 volts AC only. Shipping weight ½ lb.

No. X-761
3 for $1.20 ____ ea. **49c**

### TV INTERLOCK CORDS

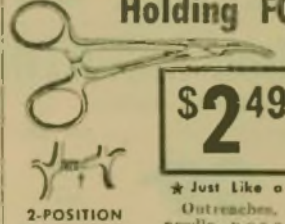


Kit of 2 standard TV interlock cords 6' long. Shipping weight ¼ lb.

No. W-61
3 FOR ____ **99c**

### Holding FORCEPS

(Bent Tip)



2-POSITION SNAP-LOCK

SERRATED JAWS

$2.49 No. TL-358 3 for $7

★ Just Like a Third Hand

Outreaches, outholds needle nose pliers. Approximately 6" long, stainless steel finish. Snap-locks to hold parts while soldering. Used. Shpg. wt. ¼ lb.

STRAIGHT TIP FORCEP
No. TL-364
3 for $7.00 ____ **$2.49**

Arlcraft Radio Corp., Boonton, N. J., wins choice of merchandise worth 1/5 from Olson's "Treasure Hunt." See back cover for instructions.

### Olson WIRE BANK

**8** DIFFERENT TYPES OF WIRE— 1 ROLL EACH:

- 30' — 22 Ga. Hook-up Wire
- 20' Miniature Clear Zip-Cord
- 30' Bell Wire
- 30' Aluminum Tie Wire
- 94' Magnet Wire
- 25' Rosin Core Solder
- 15' Picture Wire
- 30' Utility Copper Wire

274 FEET
*(Plus Free Dispenser)*



No. W-444 **$2**

Shipping Weight 3 lbs.

### 11-PIECE DRAFTING SET

★ Quality Instrument ★ Made in W. Germany



No. X-472 **$2.49**
3 for $7.25
Lots of 12, Ea. $2.20

2 compasses, 1 divider, 1 pencil, 1 pen, all 5½". Combination divider, pen and pencil measures 6½". Side screw adjustment. Accessories. All brass nickelplated in felt lined snap case. Shpg. wt. ½ lb.

### DELUXE DRAFTING SET

★ Center Screw Adjustment

Shpg. wt. 3¼ lb. 12 @ $4.30 ea.
No. X-552, 3 @ $4.70 ea. ____ Ea. **$4.98**

### *Sumit* ADDING MACHINE

MADE IN U. S. A.



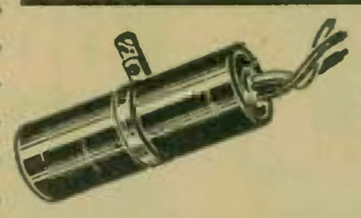
No. X-861 **$18.95**

SUMIT ideal as an auxiliary adding machine. "Scoop Control" the new system of control fingering that permits fast, accurate calculating. Dimensions— 7" x 5" x 6". Durable metal housing. Ship-

# CAPACITORS

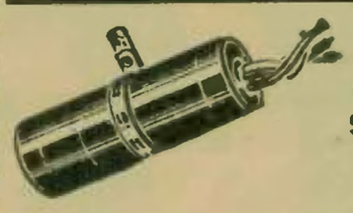
★ Electrolytic ★ BUY NOW!

A new high in value, a new low in cost as Olson offers these most popular electrolytic tubulars at rock bottom prices. Full insulation protects against heat and humidity. Shipping weight ¼ lb. each. Capacitors Size Approx. 2¼" x ⅞" Dia.



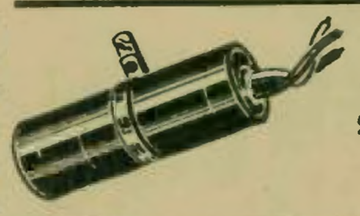
50-30 Mfd. @ 150 WVDC
Stk. No. C-149
50 for $12.50
7 for $2

**33c**



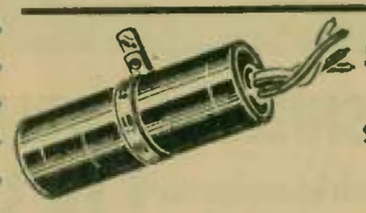
70-30 Mfd. @ 150 WVDC
Stk. No. C-147
7 for $2
50 for $13

**35c**



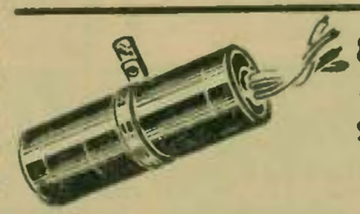
80-50 Mfd. @ 150 WVDC
Stk. No. C-146
4 for $2
50 for $24

**52c**



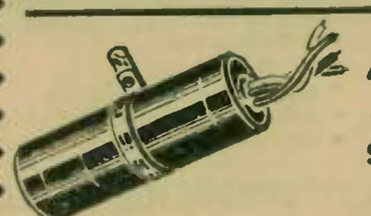
50-30-20 Mfd. @ 150 WVDC
Stk. No. C-145
5 for $2
50 for $18

**49c**



80-40-20 Mfd. @ 150 WVDC
Stk. No. C-144
6 for $3
50 for $24

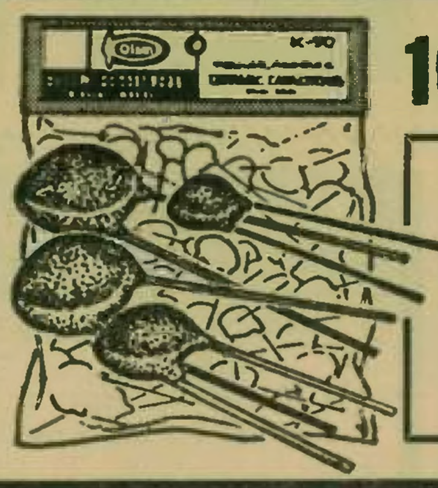
**59c**



40-40-20 Mfd. @ 150 WVDC
Stk. No. C-803
3 for $2

**75c**

# Sensational KIT VALUES



## 100 Piece Ceramic Capacitor KIT

No. K-90

**99c**

★ Disc Type
★ 600 Volts or More

Truly an Olson "Best Buy". This jumbo [illegible] contains 100 ceramic condensers, all rated at 6[illegible] volts or more. All top quality made by leadi[illegible] manufacturers. Every serviceman, experiment[illegible] and hobbiest needs one or more of these ki[illegible] Keep it handy on your work bench so you w[illegible] always have the right value and size capacity [illegible] your finger tips when you need it. Take a[illegible] vantage of this terrific deal now while our assor[illegible] ments are complete. Kit may contain some tubul[illegible] type ceramics. Shipping weight ¼ lb.

## 100 PIECE CAPACITOR KIT

★ TUBULAR TYPE

★ Values: .001 mfd to .5 mfd
★ Voltages: 100 to 1000 volts



No. C-175

**$1.99**

ALL 100 PIECES . . .

Kit of 100 of the finest quality tubular capacitors. This is a must for every service man's or experimentor's service bench and tool box. Values range from .001 mfd to .5 mfd at voltages from 100 to 1000 volts. Condensers cost you less than 2c each, which is a very small fraction of their cost when purchased separately. Order several kits at this money saving price. Shipping weight 2 lbs.

## 100 PIECE RESISTOR KIT

★ 85 ½, 1 and 2 Watt Carbon Resistors
★ 15 Wire Wound Resistors up to 10 Watts



No. R-70

**$1.99**

ALL 100 PIECES . . .

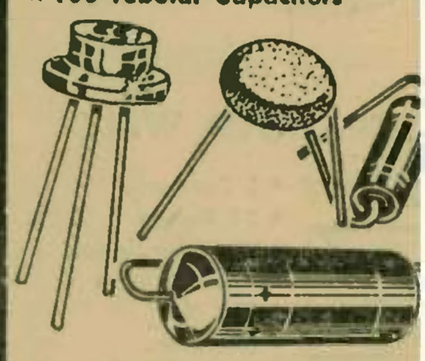
100 top quality resistors. All are clearly marked with value. Standard color codes used throughout. Your cost is less than 2c each. Values have been carefully selected to fit most of your replacement needs. You get 85 ½, 1 and 2 watt carbon resistors plus 15 wire wound resistors up to 10 watts in size. Shipping weight 2 lbs.

232 PC. RESISTOR KIT

No. AS-84, 3 Kits $11.50, Ea. **$3.99**

## 315 PIECE Parts Assortmen

★ 15 PNP Transistors
★ 100 Ceramic Condensers, 600
★ 100 Carbon and Wire Woun Resistors
★ 100 Tubular Capacitors



No. AS-845

**$5**

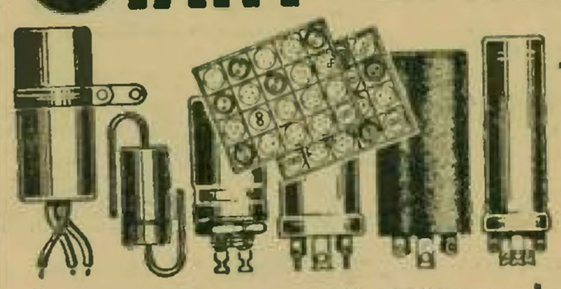
ALL 315 PIECES . . .

Three hundred and fifteen careful selected components to fill most placement and experimental needs. Y get 85—½, 1 and 2 watt carbon resi tors plus 15 wire wound types rangi up to 10 watts. Also included are 1 disc and tubular ceramic condens and 100 standard tubular condense and 15 popular PNP transistors. Shi ping weight 2 lbs.

# GIANT ... An Olson SUPER BARGAIN!

Electrolytic CAPACITOR KIT

★ Kit of 40



F. P. twist lock and tubular electrolytic capacitors at a fantasticly low Olson price. Kit contains 40 assorted single, double, and triple capacity electrolytics. Capacities vary from 10 to 125 MFD with working voltages from 6 to 450 volts. Shipping weight 7 lbs.

Abed T. Lewis, Box 28, Venetia, Pa., wins choice of merchandise worth $6 from Olson's "Treasure Hunt." See back cover for instructions.

LESS THAN 15c EACH ONLY

**$5.99**

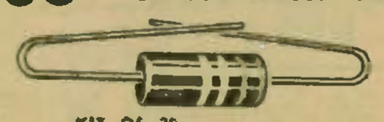
PER KIT
No. AS-893

# Olson RESISTOR KITS

MADE IN U.S.A.

★ ★ ★ Five new, carefully selected, resistor kits to save you time and money. Values selected for kits are the results of years of experience in supplying your needs. Ideal for service technician, student, experimental lab, and anywhere electronic components are used. Manufactured for Olson by a famous U. S. manufacturer. ★ ★

## 30 Most Needed ½-W Carbon RESISTORS



KIT OF 30
**$1.69**
No. R-62
6 @ 1.49 ea.
Shpg. wt. ½ lb.

KIT CONTAINS ONE OF EACH

| OHMS | OHMS | OHMS | OHMS | OHMS |
|---|---|---|---|---|
| 10 | 150 | 2.2 K | 33 K | 330 K |
| 15 | 220 | 4.7 K | 47 K | 470 K |
| 22 | 330 | 6.8 K | 68 K | 1 meg. |
| 33 | 470 | 10 K | 100 K | 1.5 meg. |
| 47 | 1 K | 15 K | 150 K | 2.2 meg. |
| 100 | 1.5 K | 22 K | 220 K | 10 meg. |

## 20 Most Common 1 W. CARBON RESISTORS



KIT OF 20
**$1.69**
No. R-63
6 @ 1.49 ea.
Shpg. wt. ½ lb.

| OHMS | OHMS | OHMS | OHMS | OHMS |
|---|---|---|---|---|
| 10 | 47 | 470 | 10 K | 150 K |
| 15 | 100 | 1 K | 15 K | 330 K |
| 22 | 150 | 1.5 K | 47 K | 470 K |
| 33 | 330 | 4.7 K | 100 K | 1 M |



COMBINATION KIT
★ 30-½ Watt/20-1 Watt
**$2.98**
No. R-64
6 @ $2.79 ea.
See No. R-62 and No. R-63 for values all in one handy kit at a savings. Shipping weight ¾ lb.

## 10 25 Watt Wire Wound RESISTOR



No. R-73
**$3.29**

Kit contains each of the fi most popular 25 watt filiment re tors. Two each of the following valu are packed in a handy plastic box, ohms, 51 ohms, 45 ohms, 41 ohms, a 23 ohms. Shipping weight ½ lb.

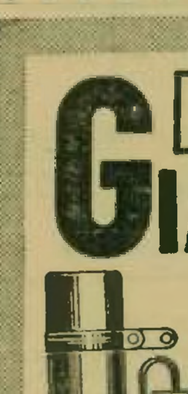
10-Watt Wire Wound Resistor



Kit of 27 Mos Popular Value
PER KIT
**$2.50** No. AS-3
Shpg. wt. 1 lb.

# VIBRATORS

ATR



CHOOSE FROM THESE

**$1.29**

Lots of 3 Ea. $1.19 EACH

Popular non-synchronous types in 6 and 12 volt. Size: 1½" x 2⅞".

May Be Assorted For Quantity Price

| 6-VOLT, 4-PIN No. VB-60 | 12-VOLT, 3-PIN No. VB-61 | 12-VOLT, 4-PIN No. VB-62 |
|---|---|---|
| Replaces Mallory 294, 859, 901 M, Radiart 5300, 5301, Vokar NP-42-V; many others. Shpg. wt. ¼ lb. | Replaces ATR 1343, C-D 6330, Delco 8550, 1220-155, Mallory G674, Radiart 6330. Shpg. wt. ¼ lb. | Replaces ATR 1340 and Mallory G859, also many others for new 12 V car radios. Shpg. wt. ¼ lb. |

## TUBULAR CAPACITORS

★ 600 VOLT



Molded for greater protection. Factory fresh, capacity and working voltage clearly marked. Long, flexible, tinned leads firmly imbedded. Shpg. wt. ¼ lb.

| Stock No. | MFD | SIZE | YOUR PRICE |
|---|---|---|---|
| C-304 | .001 | ¼"x ¾" | 12 for $1.00 |
| C-305 | .002 | ¼"x ¾" | 12 for $1.00 |
| C-306 | .005 | ¼"x ¾" | 12 for $1.00 |
| C-307 | .01 | ¼"x1" | 11 for $1.00 |
| C-309 | .05 | ½"x1¼" | 10 for $1.00 |
| C-310 | .1 | ⅝"x1⅜" | 7 for $1.00 |

## High Voltage TV CAPACITOR

★ Kit of 3



500 mmfd. x 20K volt. Threaded studs extend ⅜" from each end. Overall size: 2" (inc. studs) x 1". Shpg. wt. ¼ lb.

No. C-173 **99c**

Glo-Bar

## DROPPING RESISTOR

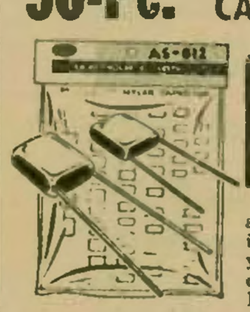


Reduces 12 volts from battery to 6 volts D. C. Up to 10 amps. Changes resistance with load. Shipping weight ¼ lb.

No. R-40, 3 for $8, Ea. **$2.99**

## 50-Pc. Mylar CAPACITOR

★ 600 Volt

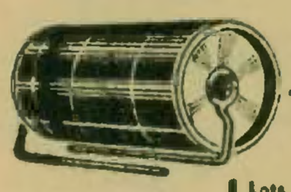


No. AS-812
**$3.5**

Kit of 50 ca selected mylar itors to fill m your replacemen construction n Mylar insula withstands hea moisture. Ultra pact size mak placement, eve small spaces. Shpg. wt. ½ l

| Qty. | Mfd. | Qty. | Mfd. |
|---|---|---|---|
| 5 | .1 | 10 | .05 |
| 5 | .005 | 10 | .02 |
| 5 | .002 | 10 | .01 |
| 5 | .001 | | |

## TUBULAR ELECTROLYTIC



16 MFD @ 450 WVDC
No. C-137
Ea. **50c**
Lots of 100 each ____ 5 for $2

Made in U.S.A
Size: 1¾"L x ¾"W

This factory fresh capacitor is ideal for a wide variety of applications where dependable service is required. Shipping weight ¼ lb.

## TUBULAR CAPACITORS



★ .05 mfd. X 400 Volt
★ .1 mfd. X 400 Volt

KIT OF 24 (10 cd cards Value)
**99c**
No. AS-840

Highest quality tubular capacitors for replacement or new construction. Sealed in wax with gray vinyl jacket to protect against heat and moisture. Leads are firmly embedded in each end. Size: .1 mfd. 13/16" x ½", .05 mfd. 1" x ⅝". Shipping weight 1 lb.

.05 mfd. X 400 Volt (Kit of 24) No. C-171 ____ **99c**

.1 mfd. X 400 Volt (Kit of 24) No. C-172 ____ **99c**

## 600 WV DC CONDENSERS



KIT OF 100
**$5.69**
No. AS-268

| Q'ty | MFD | Q'ty | MFD |
|---|---|---|---|
| 10 | .001 | 20 | .02 |
| 10 | .002 | 20 | .05 |
| 10 | .005 | 10 | .1 |
| 20 | .01 | | |

Shpg. wt. 2 lbs.

## Olson MINIATURE CAPACITORS

MYLAR BYPASS

★ Packaged 10 of a type per kit



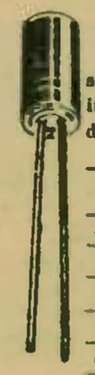
**99c** PER KIT

(⅜" x ¼"), single ended, for easier repair work on transistor circuits. Shpg. wt. ¼ lb.

| No. | MFD | WVDC |
|---|---|---|
| C-971 | .001 | 100 |
| C-972 | .005 | 100 |
| C-973 | .01 | 100 |
| C-974 | .02 | 100 |
| C-975 | .04 | 100 |
| C-976 | .05 | 100 |
| C-977 | .1 | 100 |

MINIATURE ELECTROLYTICS

★ STOCK UP NOW!



Poly plastic jacket protectio signed for reliability, and ea installation. Size approximatel dia. x ½" long. Shpg. wt. ¼

| Stock No. | MFD | WV-DC | YOUR PR |
|---|---|---|---|
| C-966 | 5 | 10 | Pkg. o of a t |
| C-967 | 10 | 10 | |
| C-968 | 30 | 10 | |
| C-969 | 50 | 10 | |
| C-970 | 100 | 10 | |

**99**

# ZENER DIODES

★ MADE IN U.S.A.

These zener diodes are suitable for applications such as voltage references, voltage regulated power supplies, transistor bias, voltage switches for non-sensitive relays, transient absorbers for meters and other circuits, and other applications where the operating current range is always greater than the test current listed.

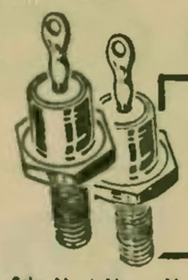


## 1 WATT

YOUR CHOICE

$1.19 PAIR

| Stk. No. | Nom. Voltage | Test Current M.A. |
|---|---|---|
| RE-85 | 4.7 volt | 40 M.A. |
| RE-86 | 6.8 volt | 30 M.A. |
| RE-87 | 10 volt | 20 M.A. |
| RE-88 | 15 volt | 13 M.A. |
| RE-89 | 22 volt | 9 M.A. |
| RE-90 | 30 volt | 5 M.A. |



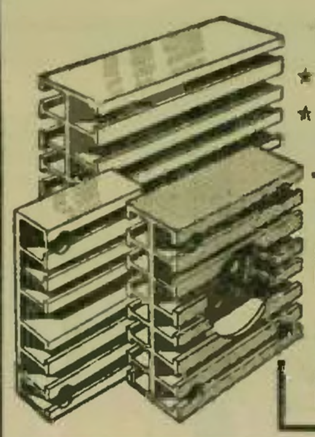
## 10 WATT

YOUR CHOICE

$1.39 PAIR

| Stk. No. | Nom. Voltage | Test Current M.A. |
|---|---|---|
| RE-91 | 4.7 volt | 400 M.A. |
| RE-92 | 6.8 volt | 300 M.A. |
| RE-93 | 10 volt | 200 M.A. |
| RE-94 | 15 volt | 140 M.A. |
| RE-95 | 22 volt | 90 M.A. |
| RE-96 | 30 volt | 60 M.A. |

# NEW ★ SEMICONDUCTOR HEAT SINKS ★ NEW



## HEAT SINK KITS

★ Asst. Sizes & Shapes

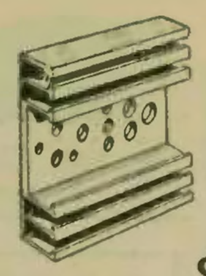
★ With and without Mounting Holes

**KIT OF 3** $1.50
Shpg. wt. 1¼ lbs.
No. AS-896 ____

**KIT OF 12** $5
Shpg. wt. 4¾ lbs.
No. AS-897 ____

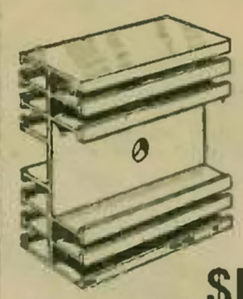
Natural convection heat sinks require no blower. Ideal for mounting power transistors, silicon control rectifiers, silicon diodes, etc. Some units have transistor mounting holes, some do not. Mounting surfaces are designed to provide closest possible contact to the transistor face.

## Universal Mounting Heat Sinks



★ PKG. OF 2 ★

Size: 4x3x1 11/16"
$1.24
No. X-950 ___



★ PKG. OF 2 ★

Size: 4x3x1¼"
$1.76
No. X-951 ___

Now available from Olson at a fraction of what you would expect to pay. These highly efficient heat sinks allow the direct mounting of the most common power transistors such as stud type, TO-6 and TO-36 cases, TO-3 case, TO-48 case and 2N1015. Shipping weight ¾ lb.

## FERRI-TENNA

Use with any 365-410 MMF variable condenser. Coil tapped for properly matching transistor input. With instructions. Shipping weight ¼ lb.

No. L-73, 2 for $1
Lots of 100, Ea. 35c
Ea. **71c**



FERRITE BAR
## ANTENNA COILS

★ KIT OF 3

Replaces most antenna coils in transistor radios. Size: 2½" x ½". 2½" x ⅝", and 1¾" x ⅜". Shpg. wt. ¾ lb.
No. L-82 **79c**



## SELENIUM CELLS

● .5 Volts @ 1-2 M.A.
● 5" Colord Coded Leads

No. RE-50
**69c**
3 for $2
12 for $6.95

Gives up to .5 Volts @ 2 MA. in average daylight. Size: 1⅛" x ⅝". Shpg. weight ¼ lb. Lots of 100, Ea. 50c



## SOLAR CELL KIT

8 assorted selenium photo cells. Output from ⅛ to ½ volts. Current output from 250 micro-amps to 5 MA. Made by International Rectifier. Shpg. wt. ¼ lb.
No. RE-77 _____ KIT OF 8, **$1.98**

## POWER TRANSISTORS



**69c**
3 for $2.00
Lots of 100, Each 59c
Shpg. wt. ¼ lb.

**No. TR-13 Low Wattage Type**
A general replacement for low wattage types such as —2N176, 2N178, 2N179, 255, 2N256, 2N257, TS176.

**No. TR-14 Med. Wattage Type**
A general replacement for medium and high wattage types such as—2N155, 2N156, 230, 2N250, 2N301, 2N301A, 2N307, 325, 2N350, 2N350A, 2N351, 2N351A, 376, 2N376A, 2N554, 2N555, CTP 1104, TP1108, CTP1109, CTP1117, CTP1137.

**No. TR-15 High Wattage Type**
A general replacement for high, medium and low wattage types such as—2N176B, 176G, 2N234, 2N234A, 2N235, 2N235A, 36B, 2N236, 2N236A, 2N236B, 2N242, 285, 2N285A, 2N307A, 2N352, 2N353, 399, 2N400, 2N401, 2N669.

Motorola
**Power Transistor MOUNTING KIT**
No. X-773 _____ 4 for 99c

## 12 to 9 Volt TRANSVERTER

Saves Cost of Batteries



No. X-946
**$1.47**

Just plug into the cigar lighter of any 12 volt car, truck or bus and connect to the battery terminals of your 9 volt transistor radio. Complete with 36" cable, plug for cigar lighter and snap type battery connector to replace popular 9 v battery. Complete with instructions. Shipping weight ¼ lb.



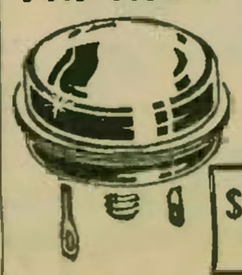
International Rectifier
## SILICON CAPSULE

★ 1 V @ 10 to 16 MA
★ Color Coded Leads

$3.99 No. RE-51
3 for $10
Lots of 12, ea. $3

Each capsule contains 2 cells already connected in series and ready to deliver .8 to 1 volts @ 10 to 16 MA depending on brilliance of sun. Size: 1⅛" x 1⅛". Shipping weight ¼ lb.

## PNP Audio TRANSISTOR



Replaces the following popular transistors. 2N173, 2N174, 2N277, 2N278, 2N441, 2N442. Shpg. wt. ¼ lb.

$1.99 No. TR-12
3 for $5

## TRANSISTORS



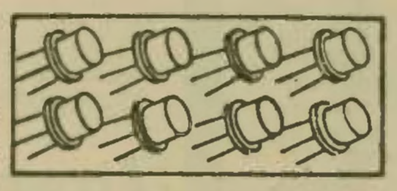
★ MATCHED SET OF 6
Plus one diode

No. TR-20
PER SET . . . $1.99
3 Sets, $5.50

Consists of: 1—mixer, 2—IF's, 1—driver and 2 output PNP transistors. Plus diode. Shipping weight ¼ lb.

# TRANSISTORS

★ Made by a Leading U.S.A. Manufacturer!
★ BRAND NEW!

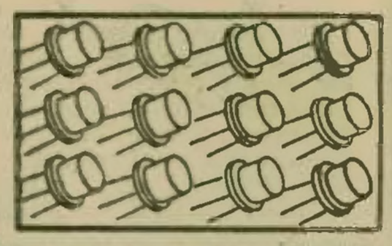


BAG OF 8 No. TR-24

YOUR CHOICE

$1

BAG OF 12 No. TR-25



## PNP High Frequency AUDIO

SAVE $2
10 Bags (80 Transistors) $8

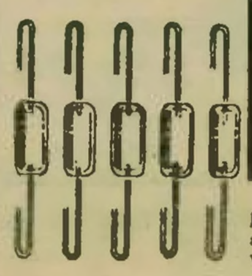
Brand new, first quality transistors with full length leads. Ideal for experimental and replacement needs in high frequency audio circuits. Replaces many popular numbers without circuit changes. These transistors are made by one of the leading U. S. manufacturers. Shipping weight 1½ lbs.

## PNP General Purpose AUDIO

SAVE $2
10 Bags (120 Transistors) $8

These first quality audio transistors will work in most audio circuits as replacements or use them for 90% of experimental audio applications. Replaces many popular numbers without circuit changes. All are brand new with full length wire leads. Shipping weight 1½ lbs.

## GERMANIUM DIODES



No. DI-18
10 FOR
**88c**

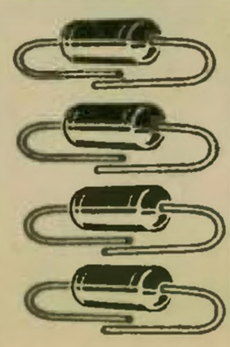
Replaces IN34, IN34A, IN60 and IN61. Shpg. wt. ⅛ lb.

## SILICON DIODES



No. DI-19
6 FOR
**88c**

Replaces general purpose types IN34, IN34A, IN51, IN456, IN625, IN482, etc. Forward current 100 MA. Reverse current 25 UA. Shipping weight ¼ lb.



500 MA Silicon
## DIODES

★ RMS 280 Volts
★ PIV; 400 Volts
Shpg. wt. ¼ lb.

No. RE-76
4 FOR
**88c**

## TOP HAT Silicon Diode



★ 500 MA
★ RMS 280 Volts
★ PIV; 400 VOLTS
Shpg. wt. ¼ lb.

No. RE-73
3 FOR
**88c**

## SYLVANIA 2N233 NPN RF AMPLIFIER TRANSISTORS



No. X-802
2 FOR **88c**

Similar to General Transistor GT-229, G. E. 2N170 and Sylvania 2N229. Shipping weight ¼ lb.

## GENERAL PURPOSE



No. TR-16
4 FOR **88c**

Pkg. of 4 PNP junction transistors similar in characteristics to GE 2N-107. A high quality transistor at a low price suitable for experimenters and hobbyists. Shipping weight ¼ lb.

Experiment & Design . . .

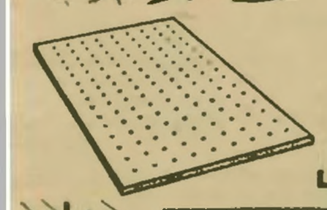
# Olson PERF-BOARD



BUILD, DESIGN, CONSTRUCT RAPIDLY—Experimental or Permanent Electronics Circuits. Accepts OLSON Miniature Components (below) for rapid set-up. May be easily cut with saw, to size you desire. Phenolic Boards with ⅛" holes punched on .265 centers, 1/16" thick.

## Unclad (Punched) PERF-BOARD

Shipping weight ¼ lb.



See Below For The OLSON LOW PRICE

| No. | Size | Ea. | 3 for | Lots of 100 Ea. |
|---|---|---|---|---|
| K-116 | 3⅝"x6⅜" | .43 | 1.20 | .35 |
| K-118 | 6⅜"x9 11/16" | 1.00 | 2.85 | .90 |

COMPLETE—Fast and Simple To Use—Solderless Breadboard Circuit Components

**ALLIGATOR CLIPS With Jacks**
★ KIT OF 10
Color coded 5 red—5 black. 1¼" long. Shpg. wt. ⅛ lb.
No. HW-32 _____ 99c

**SPADE LUGS With Jacks**
★ KIT OF 10
Color coded 5 red—5 black. ⅜" long. Shpg. wt. ⅛ lb.
No. HW-33 _____ 99c

**BINDING POSTS With Jacks**
★ KIT OF 10
Color coded 5 red—5 black. ⅜" long. Shpg. wt. ⅛ lb.
No. HW-34 _____ 99c

**BANANA PLUGS**
★ KIT OF 10
Color coded 5 red—5 black. ⅜" long. Shpg. wt. ⅛ lb.
No. HW-35 _____ 99c

**SPRING TYPE Banana Plugs**
★ KIT OF 10
For quick and easy connections. 1⅛" long. Shipping weight ⅛ lb.
No. HW-36 _____ 99c

**Volume Control Holder**
★ KIT OF 10
Right angle bracket with 2 mounting holes. 1¼" H x 1" W. Shpg. wt. ⅛ lb.
No. HW-37 _____ 99c

**Banana Plug CORD SETS**
★ Kit of 10 Sets
12" wire with plug on each end. 10 different colors. Shipping weight ⅛ lb.
No. HW-42 _____ $1.99
Banana Plug Cord Sets No. HW-38 $1.49
Same as above but with 6" wire

**Transistor Socket**
Binding posts pre-mounted. With mounting hardware.
No. HW-43 _____ 99c

**9-Pin Tube Socket**
Binding posts pre-mounted. With mounting hardware. Shpg. wt. ⅛ lb.
No. HW-39 _____ $1.39

## Copper Clad Perf-Board

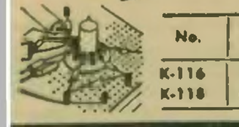
★ For Design of Printed Circuits



| (Punched) No. | Size | Ea. | 3 for | Olson's Low Price Lots of 100 Ea. |
|---|---|---|---|---|
| K-120 | 3⅝"x6⅜" | .53 | 1.50 | .48 |
| K-122 | 6⅜"x9 11/16" | 1.50 | 4.00 | 1.20 |

## Copper Clad Board

★ For Making Your Own Printed Circuits



| (Unpunched) No. | Size | Ea. | 3 for | Olson's Low Price Lots of 100 Ea. |
|---|---|---|---|---|
| K-124 | 3⅝"x6⅜" | .43 | 1.20 | .38 |
| K-126 | 6⅜"x9 11/16" | 1.35 | 4.00 | .90 |

**Etchant Solution**
This concentrate, mixed with water, etches copper laminated surfaces on printed circuit boards.
16-oz. btl., No. X-919 $1.25

**TAPE RESIST**
Use to protect areas of printed circuit board from etchant ⅜" x 360"
No. TA-16 _____ 75c

**7-Pin Tube Socket**
Binding posts pre-mounted. With mounting hardware.
No. HW-41 _____ 99c

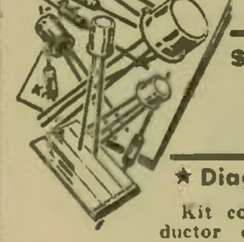
**OCTAL SOCKET**
Binding posts pre-mounted. With mounting hardware. Shipping weight ⅛ lb.
No. HW-40 _____ $1.19

RCA
# SALE
## Transistors
YOU CAN RELY ON
## RCA Quality

| Stock No. | RCA No. | Description | SALE |
|---|---|---|---|
| X-745 | 2N412 | Mixer-oscillator | 50c |

**INDUSTRO TRANSISTORS**

| Stock No. | RCA No. | Description | SALE |
|---|---|---|---|
| X-857 | 2N633 | Audio Output | 50c |
| X-858 | 2N482 | I. F. Amplifier | 50c |
| X-859 | 2N485 | Mixer-oscillator | 50c |



## 11-PIECE Semi-Conductor ASSORTMENT

$2.49 No. RE-82
Was $2.93 In Catalog 1163

★ Diagrams Included

Kit contains 11 semi-conductor devices including 1 controlled rectifier, 1 transistor, 8 diodes, and 1 silicon solar cell. Diagrams are included to make the following: Audio oscillator transistor preamplifier, photo cell light meter, photo electric relay, power supplies, automatic tachometer, and many others. Shpg. wt. ¼ lb.

SEMI-CONDUCTOR AND PARTS
## BARGAIN!



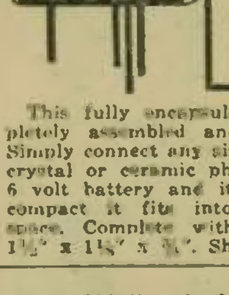
★ 4 Transistors
★ 20 Parts

No. X-932
BIG VALUE
ONLY $1

Circuit boards contain a generous assortment of top quality components. Included are diodes, ceramic capacitors, transistors and resistors. All parts are of highest quality, made by leading U.S.A. manufacturers. Such names as ERIE, IRM and GE appear on the component parts. The parts can easily be removed from circuit boards which will contain a minimum of 4 transistors and 20 additional components. Some boards will contain extra parts. Size of each board 2⅝" x 3⅞". Shpg. wt. ¼ lb.

Transistor Phono
## AMPLIFIER MODULE

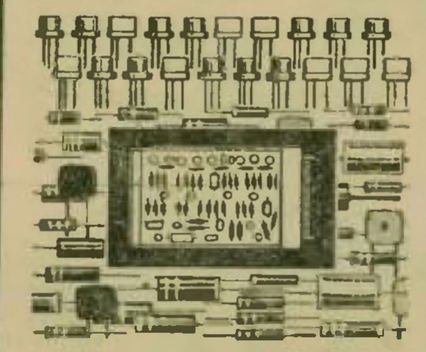
★ Delivers 2 Watts to 8 ohm Speaker
★ All Solid State
★ Ice Cube Size



No. TR-26
$3.95

This fully encapsulated module is completely assembled and ready to operate. Simply connect any size speaker, crystal or crystal or ceramic phono cartridge and a 6 volt battery and its ready to play. So compact it fits into even the smallest space. Complete with instructions. Size: 1½" x 1⅝" x ¾". Shipping weight ¼ lb.

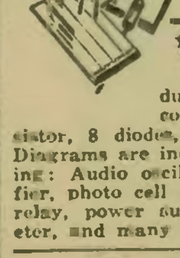
SEMI-CONDUCTOR & PARTS
## BARGAIN!



20 TRANSISTORS
(PLUS)
20 QUALITY PARTS

ALL FOR... $1.99
No. X-949

Each board contains at least 20 transistors plus 20 additional components such as resistors, diodes, and ceramic capacitors. Styles vary and you may get extra parts. Shipping weight 2 lbs.



## 2-Gang Variable CONDENSER

$1.49 No. C-995
3 for $4

Two gang variable condenser for superhet transistor radios. Use for replacement or new construction. Can be used in printed circuit board or standard wiring. Size: 1¾" x 1¾" x 1⅛" long. Shipping weight ¼ lb.

## 365 MMFD Variable CAPACITOR



⅞" square, with short shaft and 1¼" dia. transparent engraved dial. Shipping weight ¼ lb.

No. C-861, 3 for $2 **81c**

Maj. A. J. Mayer, Dept. of MA & E, 527-A Merritt Rd., West Point, N. Y., wins choice of merchandise worth $5 from Olson's "Treasure Hunt." See back cover for instructions.



## Miniature Volume Control With Switch

For transistor circuits. Complete with switch and knob. Shipping weight ¼ lb.

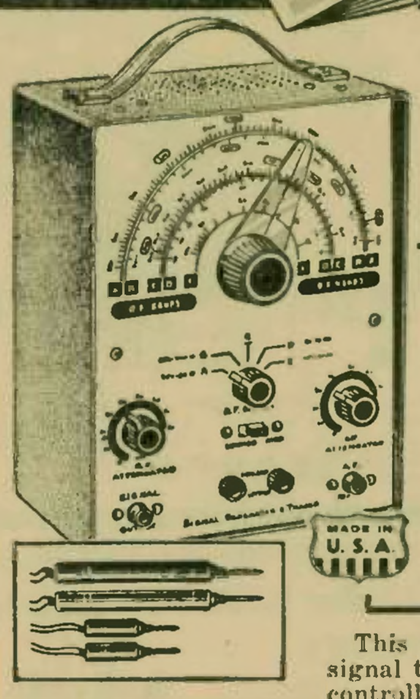
5,000 Ohm, VC-258, 4 for $3.50, ea. 99c
10,000 Ohm, VC-259, 4 for $3.50, ea. 99c

Olson Electronics
AKRON, OHIO

# FREE!

Howard W. Sams Book "HOW TO READ SCHEMATIC DIAGRAMS." Contains all types of schematic symbols and diagrams including tubes, transistors, capacitors, resistors, microphones, etc. 96 pages.
No. B-280, Sells separately for ..... $1.50

**With Purchase of KB-141 Below**



Combination
## Olson SIGNAL GENERATOR and TRACER KIT

This Kit Has All Major Components Premounted & Tested At Factory

**PRE-FAB KIT CONSTRUCTION**

No. KB-141
**$24.95**

- ★ High Stability Electron Coupled Oscillator
- ★ Most Used Frequencies Marked in Color
- ★ Separate RF & Audio Signal Probes

This signal generator and tracer, unlike any standard signal tracer, first injects its own signal then traces that controlled signal to locate the trouble spot by standard signal tracing techniques. Designed for use with RF or audio signals and circuits. Five frequency ranges available with an attenuator switch which controls both the RF signal (modulated or unmodulated) or the 400 cps audio tone. Front panel jacks can be used for earphones. V.T.V.M. or scope. Easy to follow Olson construction manual with large, easy-to-read diagrams make building this kit pleasant. Housed in a steel cabinet with etched aluminum panel. For 110-125 volts 60 CPS. Size: 7½"x9½"x5¾" complete with probes. Range: 250 KC-120 MC in 5 bands. AUDIO: 400 CPS audio signal. TUBES: 5965, 5687, 6350, 6AG5. Shpg. wt. 12 lbs.

# FREE!

Howard W. Sams Book "101 USES FOR VOM-VTVM." By Robert G. Middleton. A practical guide to the use of the VOM and VTVM. Over 150 illustrations. 116 pages.
No. B-278, Sells separately for ..... $2.

**With Purchase of KB-140 Below**



## Olson V.T.V.M. KIT

★GIANT 6" METER
★Two Color Scales

**$25.95** No. KB-140

A highly accurate DC voltmeter, AC voltmeter, and ohmmeter, with a large 6" 400 microampere meter with easily read black and red scales. It will measure AC peak-to-peak voltages to 2,000 volts any wave form, from 30 cps to above 5 MC with no accessory probes. AC RMS can be read up to 1500 volts if a sine wave. Resistance can be read directly from 0.2 ohms to 1,000 megohms. Direct reading decibel scale is calibrated from —10 to +18 DB, reference 1.73 volts, 6 MW into 500 ohm line. Zero center measurements can also be made.

**SPECIFICATIONS—DC voltage ranges:** 0-3, 15, 75, 150, 300, 750, 1500 volts. Input resistance: 11 megohms (1 megohm in probe) on all ranges. **AC voltage: RMS** ranges 0-3, 15, 75, 150, 300, 750, 15,000 volts. Peak to peak ranges 0-8, 40, 200, 400, 800, 2000 volts. **Decibel ranges:** —10 to +18 DB +10 to +38 DB, +30 to 58 DB response 30 cps to above 5 megacycles. **Ohmmeter ranges:** 0-1000, 10,000, 100,000 ohms, 0-1 meg. 10 meg, 1000 megohms center scales 10, 100, 1000, 10,000, 100,000, ohms 1 megohm 10 megohms. **TUBES:** 1—12AU7 twin triode balanced bridge, 2—9006 peak to peak rectifiers, 1 power supply selenium rectifier. **Power:** 110-125 volts AC 60 cps. **Size:** 7½" x 6½" x5". Shipping weight 8 lbs.

## Accessories:

RF Probe for KB-140, No. TE-167 ..... ea. $3.75
Battery, (1 req'd) No. BA-53 ..... ea. 13¢

## Olson MULTITESTER

30,000 OHMS PER VOLT

★ Self Shielded Magnet
★ COMPACT



No. TE-179
**$13.92**

Self shielded magnet minimizes outside interference to the extent that it is negligible. Unique single deck rotary switch gives instant positive selection of desired range. Specifications: DC volts: 0-250 mv.-1v.-10v.-50v.-250v.-500v-1000v at 30,000 ohms per volt. AC volts: 0—10v-50v-250v-500v at 12,000 ohms per volt. DC current: 0—50ua—10ma —250 ma. Resistance: 0—5k—500k — 5 meg. ohms. DB:—10 to + 22 db. Size: 4¾" x 3¾" x 1½". Shipping weight 2 lbs.

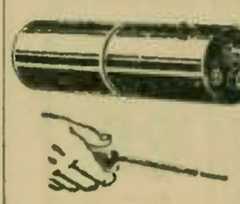
## 12-Piece TEST LEAD KIT



**$1.79** No. W-348 — 3 for $5

Consists of two 36" red and black test leads with banana plugs on each end. 2 heavy-duty spade lugs, 2 phone tip plugs, two 5" test probes and insulated clips. Shipping weight ½ lb.

## Olson Transistorized SIGNAL INJECTOR



NO. TE-150
**$3.94** — 3 for $11

Produces an audio signal, suitable for signal tracing in A.F. I.F., and R.F. circuits. Operates on 4 standard penlite cells. Size: 4⅝" x 1¾" x 1¼". Includes batteries. Shipping weight ½ lb.
Batteries (4 req'd) No. BA-67 Bag of 8 ..... 59c



IN-CIRCUIT CAPACITOR
## Olson TESTER KIT

MEASURES ELECTROLYTICS IN-CIRCU

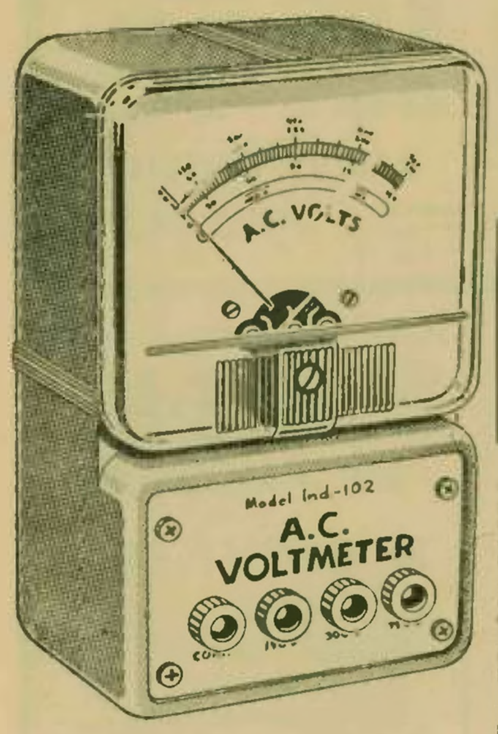
- ★ EASY TO READ Light Bar Indicate
- ★ Sharp, Non Confusing Readings
- ★ Electrolytic Dial
- ★ Direct Reading Dial
- ★ Low Loss Coaxial Test Leads

No. KB-147
**$17.98**

Instantly reveals opened and shorted ca citors without removing them from circ Checks by-pass, coupling, blocking, and fil capacitors of all types including electrolyt Also finds dried out electrolytics, as well opened and shorted electrolytics, by directly dicating capacitance on new easy-to-read EM eye tube. Indicates in-circuit electrolytic capac from 2 mfd to 400 mfd in two ranges. Conden is automatically proven non-shorted and not o if capacity reading can be read. Rugged rin finish steel cabinet with easy-to-read two co panel. Complete with leads, detailed assem instructions and operating manual. Size: 7½" 5¾" x 4¼". For 110-125 volts AC, 60 cps o Shipping weight 7 lbs. Order today.

## Superior SICO AC VOLTMETER

MADE IN U.S.A.



JUMBO METER
Mirrored Scale

**$3.99** No. TE-176
*Regular $5 In 164 Cat.*

Large full-view meter with big clear numerals. This fine meter is made even more accurate by a mirrored scale. Reflection of meter hand gives accurate readings even when viewed from an angle. Features these most often used ranges: 0-150 volts AC, 0-300 volts AC, and 0-750 volts AC. Meter size 3¾" wide 3¼" high. New streamlined case has four standard pin jacks on front panel for quick and easy connection. Size: 3¾" wide x 5¼" high x 2½" deep. Shipping weight ¾ lb.

12-pc. Test Lead Kit for Above Meter
No. W-348 ..... $1.79

## Olson 6½" VTVM

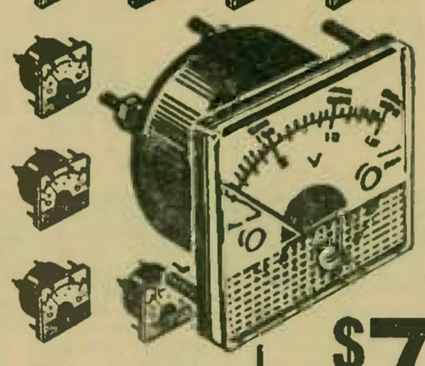


★ MADE IN U.S.A. ★

D.C. Ranges: 0 to 3, 30, 150, 300, 1500 volts. A. C. R.M.S. Ranges: 0 to 3, 30, 150, 300, 1500 volts. Peak to Peak Ranges: 0 to 8, 80, 400, 800 volts. OHMMETER Ranges: 0 to 1000 meg. (5 ranges). 110-125 volts A. C. 50-60 cps. Shpg. wt. 6 lbs.

No. TE-158
**ONLY $29.95**

## 2¼" Universal PANEL METER KIT



**11** Meters In One

No. ME-119
ONLY **$7.99**

The following 11 meters can be made with this kit:

| | | |
|---|---|---|
| AC VOLTMETER | | 0-15V |
| " | " | 0-150V |
| " | " | 0-300V |
| DC MILLIAMMETER | | 0-1MA |
| " | " | 0-50MA |
| " | " | 0-100MA |
| " | " | 0-500MA |
| DC VOLTMETER | | 0-15V |
| " | " | 0-150V |
| " | " | 0-300V |
| " | " | 0-600V |

Olson brings you the most unusual meter kit ever offered. Basically the meter is a precision 2-jewel 0-1 ma. movement. It comes complete with all resistors, adaptor boards, meter faces, hardware and instructions to make 11 different panel meters. Olson even supplies the screwdriver to put it together. With the simple step-by-step instructions included you can make almost any meter you need. Meter can be changed from one type to another quickly and conveniently. Shipping weight 2 lbs.

**Extra Meter for Above Kit, No. ME-115 ..... $4.95**

Wm. L. Brown, 117 Race St., Bamberg, S. C., wins choice of merchandise worth $5 from Olson's "Treasure Hunt." See back cover for instructions.

## Superior SICO A.C. Expanded Scale VOLTMETER

★ Employs OB2 Regulation Tube
★ Made In U.S.A.

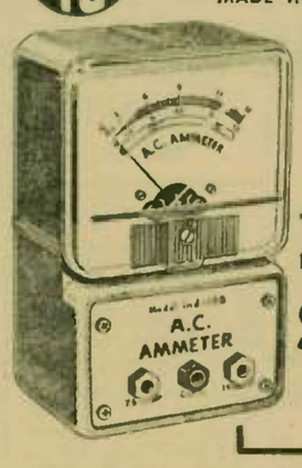


No. ME-124
**$5**

Expanded scale spreads 105 to 125 volt range over 55% of the complete scale. Expanded scale makes line voltage checks instant and accurate. OB2 voltage regulator tube improves accuracy and reliability of meter. Features large, easy-to-read numerals and divisions. Each volt between 95 and 135 is clearly indicated. Accuracy is plus or minus 1% or one scale division, whichever is greater. Large 3½" meter is equipped with over-size damping chamber. Size: 5" x 4" x 2½". Shipping weight ¾ lb.

## Superior SICO AC AMMETER

MADE IN U.S.A.



★ JUMBO METER ★ Mirrored Scale

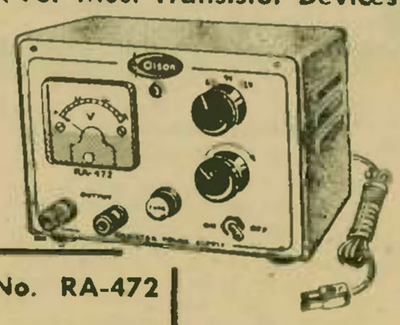
No. TE-177
**$7**

This rugged ammeter is an ideal companion to the AC volt meter right. Features extra-large mirrored scale for greater accuracy. Two scales cover every application. 0-7.5 amp. AC and 0-15 amp. AC. Meter size: 3⅝" wide x 3¼" high. The streamlined case has three standard pin jacks on the front panel for quick and easy connection. Size: 3⅝" wide x 5¾" high x 2½" deep. Shipping weight ¾ lb.

12-pc. Test Lead Kit For Above Meter
No. W-348 ..... $1.79

## Olson Transistor D.C. POWER SUPPLY

★ For Most Transistor Devices



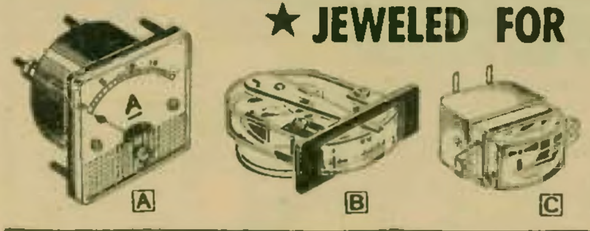
No. RA-472
ONLY **$13.98**

- Completely Wired
- 6-9-12 Volt Outputs
- Vernier Voltage Control
- 0-15 DC Meter

Alligator clips, which are included, can be connected as desired in circuit, voltage set-up from 5½ to 15 volts, as desired for test. All controls, leads, fuse and meter readily available on front panel. Easily controlled 12 step tapped transformer source of DC voltage. 110-125 volts AC, 50-60 cps. Size: 5½" x 4½" x 4½". Shipping weight 6 lbs.

## ★ Olson PANEL METERS ★

★ JEWELED FOR EXTENDED LIFE!



A B C

A complete line of high qu ity meters at a "value-pl price. Each meter is carefu packed complete with mount and operating instructio These fine meters can be u whenever a rugged comp meter is required. Order no Shipping weight ¼ lb ea.

| TYPE | STYLE | SIZE | RANGE | INT. RES. | STK. NO. | PRI |
|---|---|---|---|---|---|---|
| DC Microammeter | A | 1⅝"x1⅝"x1⅞" | 0-50 DC μa | 900 ohms | ME-100 | $5.9 |
| | A | " | 0-500 DC μa | 195 ohms | ME-101 | 4.9 |
| DC Milliammeter | A | " | 0-1 DC ma | 75 ohms | ME-97 | 3.9 |
| | A | " | 0-50 DC ma | 3.1 ohms | ME-98 | 3.9 |
| | A | " | 0-100 DC ma | 3.1 ohms | ME-99 | 3.9 |
| DC Ammeter | A | " | 0-20 DC amp | 3.1 ohms | ME-96 | 3.9 |
| DC Voltmeter | A | " | 0-15 DC V. | 15K ohms | ME-102 | 3.9 |
| | A | " | 0-150 DC V. | 150K ohms | ME-103 | 3.9 |
| | A | " | 0-300 DC V. | 300K ohms | ME-104 | 3.9 |
| AC Voltmeter | A | " | 0-15 AC V. | 15K ohms | ME-105 | 4.9 |
| | A | " | 0-150 AC V. | 150K ohms | ME-106 | 4.9 |
| | A | " | 0-300 AC V. | 300K ohms | ME-107 | 4.9 |
| "S" Meter | A | " | 500 μa | XXXX | ME-108 | 4.9 |
| | B | 1¹¹⁄₁₆x1¼x1⅛" | 500 μa | | ME-109 | 4.9 |
| "VU" Meter | A | 1⅝x1⅝x1⅞" | 100 ma | 3.9K ohms | ME-110 | 5.9 |
| | B | 1¹¹⁄₁₆x1¼x1⅛" | 100 ma | 3.9K ohms | ME-111 | 5.9 |
| FM Tuning Meter | C | ⅞ x ⅝ x 1⅜" | XXXX | 1.3K ohms | ME-112 | 3.9 |

Olson

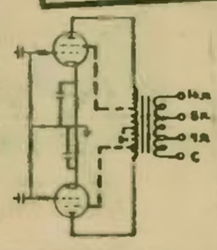
## 15 Watt Hi-Fi Output TRANSFORMER



- Response ±1 DB 15 to 50,000 CPS

**$4.95** No. T-275

2 for $9.50



Matches most popular output tubes in push-pull circuit to most speakers. All internal leads brought out to terminals at bottom. Primary impedances: 6,000, 8,000, and 10,000 ohms with screen grid taps. Secondary impedances: 4, 8, and 16 ohms. Size: 2½"x2½"x3". Shipping weight 3 lbs.

## NEW! STEREO OUTPUT TRANSFORMER

Two high fidelity output transformers in one compact case. Primary windings are tapped for ultra-linear operation. Primary impedance is 8,000 and 10,000 ohms with center tap which will match most popular output tubes in push-pull. All internal leads are brought out to terminals at the bottom of the transformer. ± 1 DB 15 to 50,000 CPS. Power rating: 20 watts: Size: 4⅛"x2½"x3". Shpg. wt. 4 lbs.

No. T-355

**$7.99**

## Olson Watthour METER



No. ME-77

**ONLY $9.99**

- ★ 117 VOLT 60 CPS
- ★ 10 AMPERES
- ★ SINGLE PHASE

*Ideal For:*

- Hotels
- Motels
- Apartments
- Rental Service

Measure the power consumed by power tools and electrical appliances. Ideal for amateur radio operators, to determine operating costs. This meter is completely assembled with cords and plugs. Just plug your tool or appliance into the handy extension cord and plug the watt-hour meter into any electrical outlet. Read power consumed in kilowatt hours directly on the front of the meter. Know how much of your electric bill is for power tools, etc. More than one tool or appliance can be plugged in at a time. For 110-125 volt AC 60 cps. Size: 4¼" x 8¾" x 4⅛". This fine meter will pay for itself many times in savings to you. Shipping weight 6 lbs.

## SILICON RECTIFIERS

### 500 MA

No. RE-30 — Ea. 47c — 10 for $4.25

PIV: 200 volts
RMS: 140 volts
Size: ⅜"x⅜"
Shpg. wt. ¼ lb.

### 500 MA (MINIATURE)

★ 24 Karat Gold Plated

No. RE-70 KIT OF 4 — PER KIT 99c — 4 Kits $3.50

PIV: 100 volts
RMS: 70 volts
Size: ¼"x⅜"
Shpg. wt. ¼ lb.

### 750 MA

No. RE-29 — Ea. 57c — 10 @ 51c

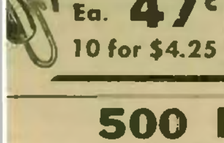
PIV: 400 volts
RMS: 280 volts
Size: ⅜"x⅜"
Shpg. wt. ¼ lb.

### 750 MA

No. RE-32 — 69c — 3 for $2.00

SPECIFICATIONS: Mfgrs. Type: SD-500-90; RMS A.C. Input: 280 Volts; Peak Inverse Voltage: 400 Volts. Output: D. C. 500 MA @ 100° C; Current: 750 MA @ 50° C. Shpg. wt. ¼ lb.

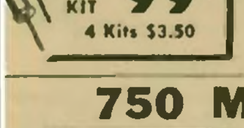
### 2 AMPERE



No. RE-66 — Ea. 99c — 4 for $3.50

00 PIV
Hex-Stud Mount
hpg. wt. ¼ lb.

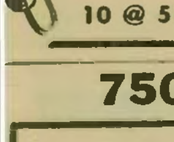
### 15 AMPERE



No. RE-65 — EA. $2.79 — 3 for $8.00

400 PIV
Hex-Stud Mount
hpg. wt. ¼ lb.

### 50 AMPERE



No. RE-71 — EA. $3.50 — 3 for $9.75

50 PIV
" Hex-Stud Mount
Shpg. wt. ¼ lb.

ayne Elec. Co., Elliott Payne, Box 322, ton, Ark., wins choice of merchandise th 25 from Olson's "Treasure Hunt." back cover for instructions.

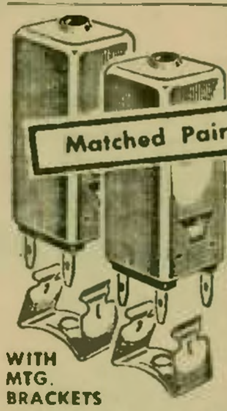
## POWER TRANSFORMER



★ Built-in Rectifier Sockets

**$3.99** No. T-382

Has built-in sockets for two 5U4's. Delivers 600 v. CT @ 250 ma. and 6.3 v. @ 10 amp., plus 2-5 volt windings @ 3 amp each. High voltage and 5 volt windings are connected to the sockets. 4½" x 3¾" x 5½". 110-120 V. AC 60 cps. Shpg. wt 8 lbs.



Matched Pair

WITH MTG. BRACKETS

Matched Pair 455 kc IF TRANSFORMERS

No. L-83 — ONLY 99c — PER PAIR

Consists of one each, input and output transformer. Size: ¾" x ¾" x 2". Complete with instructions. Shipping weight ½ lb

### 456 KC IF TRANSFORMER

Size: ⅞" x ⅞" x 2". For all input and output circuits. With mtg. bracket. Shpg. weight ½ lb.

No. L-32, 10 for $4.90 — Ea. 59c

Miniature

### 455 KC IF TRANSFORMERS



★ Kit of 6 — No. T-380 — 99c

Only ⅞" x ⅝" x ½". Standard 455 KC. Ideal for transistor radios. Contacts are designed for printed circuit board. Shpg. weight ¼ lb.

Olson

### Audio TRANSFORMERS



Your Choice 79c

¾" square for miniature circuits. Shpg. wt. ¼ lb.

| Stock No. | Use | Primary Imp. Ohms | Secondary Imp. Ohms |
|---|---|---|---|
| T-230 | driver | 10,000 | 2,000 |
| T-231 | output | 500 | 8 |

### AUDIO Transformers ULTRA-MINIATURE



79c — 2 for $1.50

Only 7/16" square overall. Tab mount. Long insulated leads. Especially suited for printed circuit transistor applications. Shpg. wt. ¼ lb.

| Stk. No. | Use | Primary Imp. Ohms | Secondary Imp. Ohms |
|---|---|---|---|
| T-332 | Driver | 10,000 | 2,000 CT |
| T-339 | Output | 500 CT | 8 |

- AUDIO OUTPUT
- FILAMENT
- POWER

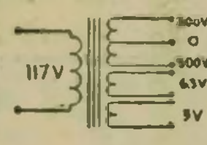
# TRANSFORMERS



A

### A POWER

SECONDARY: 300-0-300 V. @ 200 M.A. 6.3 volts @ 6 Amp. 5 volts @ 3 Amp.
SIZE: 4" x 4" x 3"
Shpg. wt. 8 lbs.

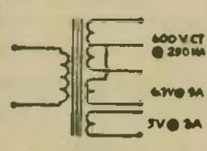



**$3.66** No. T-381

### A POWER

★ WITH COOLING FINS

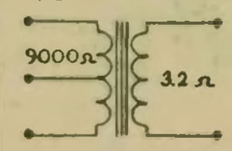
SECONDARY: 300-0-300 Volt @ 250 MA., 6.3 V. @ 9A, 5 V. @ 3A
SIZE: 4½" x 4½" x 4¾"
Shpg. wt. 8 lbs.




No. T-377 — **$3.69** — 3 for $10.50

### A OUTPUT

PRIMARY: 9000 OHM C. T. 25 Watt
SECONDARY: 3.2 OHM
APPLICATION: P. P. 50L6GT
SIZE: 3¾" x 2½" x 2¼"
Shpg wt. 3 lbs.




**$1.79** No. T-373

### A POWER

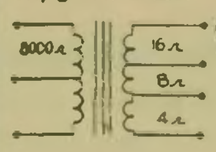
SECONDARY: 300-0-300 V. @ 275 M.A. 6.3 volts @ 10 Amp. 5 volts @ 3 Amp.
SIZE: 3¾" x 3⅛" x 3½"
Shpg. wt. 8 lbs.




No. T-378 — **$3.59** — 3 for $10

### A OUTPUT STANCOR

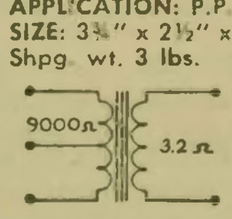
PRIMARY: 8000 ohms C.T. 15 wts.
SECONDARY: 4, 8 and 16 ohms
RESPONSE: 40 to 17,000 cps
APPLICATION: P.P. 6BQ5, EL-84
SIZE: 2⁷⁄₁₆"x2¼"x2⁹⁄₁₆"
Shpg wt. 2 lbs.




**$2.99** No. T-383

### A OUTPUT

PRIMARY: 9000 OHM C. T. 25 Watt
SECONDARY: 3.2 OHM
APPLICATION: P.P. 50L6GT
SIZE: 3¾" x 2½" x 2¼"
Shpg. wt. 3 lbs.




**$1.79** No. T-373

### A POWER

SECONDARY: 300-0-300 V. @ 275 M.A. 6.3 volts @ 10 Amp. 5 volts @ 3 Amp.
SIZE: 3¾" x 3⅛" x 3½"
Shpg. wt. 8 lbs.




No. T-378 — **$3.59** — 3 for $10

### A OUTPUT STANCOR

PRIMARY: 8000 ohms C.T. 15 wts.
SECONDARY: 4, 8 and 16 ohms
RESPONSE: 40 to 17,000 cps
APPLICATION: P.P. 6BQ5, EL-84
SIZE: 2⁷⁄₁₆"x2¼"x2⁹⁄₁₆"
Shpg wt. 2 lbs.




**$2.99** No. T-383

### A OUTPUT

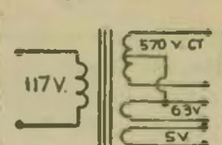
PRIMARY: 9000 OHM C. T. 25 Watt
SECONDARY: 3.2 OHM
APPLICATION: P.P. 50L6GT
SIZE: 3¾" x 2½" x 2¼"
Shpg. wt. 3 lbs.




**$1.79** No. T-373

### B POWER

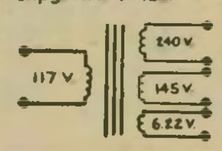
SECONDARY: 570 V.C.T. @ 220 ma.
SIZE: 3½"x4½"x3"
Shpg. wt. 8 lbs.




**$3.69** No. T-386

### B POWER STANCOR

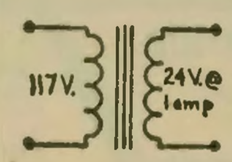
PRIMARY: 117 Volts A.C.
SECONDARY No. 1: 240 V. @ 540 ma.
SECONDARY No. 2: 145 V. C.T. @ 165 ma.
SECONDARY No. 3: 6.22 V. @ 6 AMPS.
SIZE: 2⅞" x 3⅜" x 4⅛"
Shpg. wt. 7 lbs.




No. T-384 — **$3.59** — 3 for $10

### C POWER

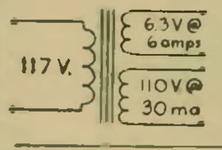
SECONDARY: 24 v. @ 1 amp
SIZE: 2¾" x 2¼" x 2¼"
Shpg. wt. 2 lbs.




No. T-290 — **$1.49** — 3 for $4 — 12 @ $1.25

### C POWER

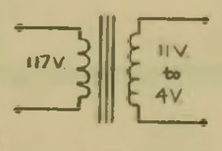
SECONDARY: 6.3 volts @ .6 amps 110 volts @ 30 MA.
SIZE: 1⅞" x 1⅜" x 2"
Shpg. wt. 1 lb.




No. T-173 — **$1.32** — 3 for $3.50

### C VARIABLE POWER

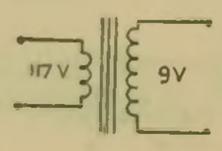
PRIMARY: 117 V. AC
SECONDARY: 11 V. to 4 V.
CURRENT CAPACITY: 5 A. Inter.
SIZE: 2¾"x1¼"x1⅝"
Shpg. wt. 1 lb.




**$1.29** No. T-385

### C FILAMENT

PRIMARY: 117 V. A.C.
SECONDARY: 9 V. @ .5 A.
SIZE: 1⅝"x1⅜"x1½"
Shpg. wt. 1 lb.




**89c** No. T-388

### C POWER

SECONDARY: 570 V.C.T. @ 220 ma.
SIZE: 3½"x4½"x3"
Shpg. wt. 8 lbs.




**$3.69** No. T-386

### C POWER STANCOR

PRIMARY: 117 Volts A.C.
SECONDARY No. 1: 240 V. @ 540 ma.
SECONDARY No. 2: 145 V. C.T. @ 165 ma.
SECONDARY No. 3: 6.22 V. @ 6 AMPS.
SIZE: 2⅞" x 3⅜" x 4⅛"
Shpg. wt. 7 lbs.




No. T-384 — **$3.59** — 3 for $10

### C POWER

SECONDARY: 24 v. @ 1 amp
SIZE: 2¾" x 2¼" x 2¼"
Shpg. wt. 2 lbs.




No. T-290 — **$1.49** — 3 for $4 — 12 @ $1.25

### C FILAMENT

PRIMARY: 117 V. A.C.
SECONDARY: 9 V. @ .5 A.
SIZE: 1⅝"x1⅜"x1½"
Shpg. wt. 1 lb.

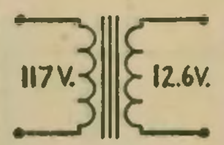



**89c** No. T-388

### C FILAMENT

SECONDARY: 12.6 volts @ 1 amp.
SIZE: 2" x 1⅜" x 1¼"
Shpg. wt. 1 lb.

No. T-304

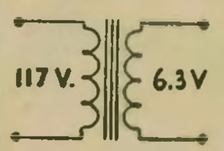



**$1.49** 3 @ 1.29 ea.

### C FILAMENT

PRIMARY: 110-125 volts A. C.
SECONDARY: 6.3 v @ 1 amp.
SIZE: 1¼" x 1¾" x 1⅜"
Shpg. wt. 1 lb.

No. T-76

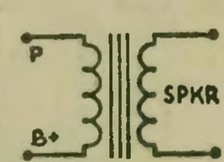



**89c** 3 @ 80c ea.

### C AUDIO OUTPUT

PRIMARY: 2500 ohms; 2 watts
SECONDARY: 3.2 ohms
APPL.: 50C5, 50L6, etc.
SIZE: 1½"x1¼"x1"
Shpg. wt. ¼ lb.

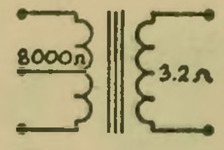
No. T-334




**39c** 3 @ 33c — 100 @ 28c

### C AUDIO OUTPUT

PRIMARY: 8,000 ohm C.T.
SECONDARY: 3.2 ohm
APPLICATION: P.P., 6BQ5, EL-84
SIZE: 2⅜"x1¾"x2"
Shpg. wt. 2 lbs.

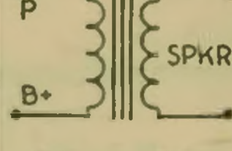



**89c** No. T-374

### C AUDIO OUTPUT

PRIMARY: 2,500 ohms; 3 watts
SECONDARY: 3.2 ohms
APPLICATIONS: 50C5, 50L6, etc.
SIZE: 1½"x1⁹⁄₁₆"x1"
Shpg. wt. ¼ lb.

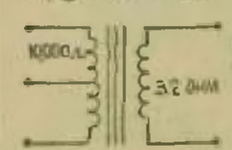
No. T-92




**49c** 3 @ 45c ea. — 100 @ 39c ea.

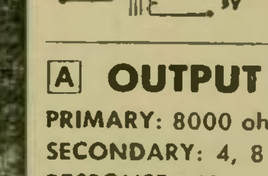
### C OUTPUT

PRIMARY: 10,000 ohms C.T. @ 10 Watt
SECONDARY: 3.2 ohms
APPLICATION: P.P. 50L6GT
SIZE: 3¼"x1¾"x2"
Shpg. wt. 2 lbs.




**$1.79** No. T-387

### TV Transformers & Coils



No. L-77 KIT OF 10 — 57c

Assorted TV I.F. transformers, discriminators, peaking coils, and chokes. Shipping weight ½ lb.

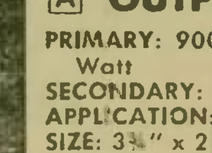
### 65 MA Selenium RECTIFIER



No. RE-75 — 39c — 3 for $1.00

A.C. input 130V RMS
Size ¾"x¾"x¾"
Ideal replacement in most AC-DC radios. Shipping weight ½ lb.

### FUSE HOLDERS ..... 67c



No. FU-6
99c in 652 Cat.

Kit of three standard fuse holders for chassis mounting. Shpg. wt. ½ lb.

### 500 WATT VARIABLE Voltage Control



No. T-279 EACH $12.93

3 for $38.50
Lots of 6, ea. $11

Variable auto-transformer of toroidal core design delivers variable A.C. voltage from 0 to 130 volts. Maximum rating applies over full range of output voltage. Ideal for schools, service shops, laboratories, etc. Can be used to dim lights, experimental applications or to adjust for low or high voltages. Negligible voltage change from no load to full load. Comes with line cord and plug. Output voltage available from built-in A. C. outlet. A. C. input 110-125 volts A. C. 50 to 60 cps. Shipping weight 11 lbs.

### Electric Range SWITCH

★ Snap-In Switch

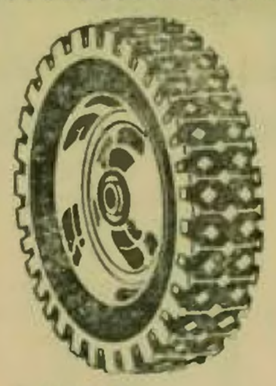



No. KB-153 — 2 FOR $1

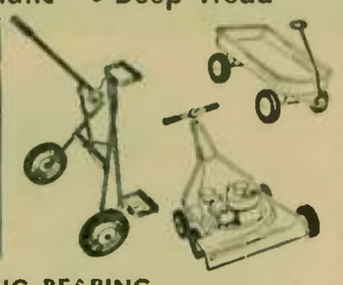
20 amp. at 125 volts. Mounts in ⅝" x 1¾" hole. Shipping weight ½ lb.

# 6"–7"–8" Wheels

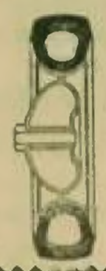
• Semi-Pneumatic • Deep Tread



7" WHEEL ONLY **72¢**



★ ALL METAL
★ OFFSET



**SELF-LUBRICATING BEARING**

| STOCK NO | BEARING BORE | DIAMETER & TIRE WIDTH | HUB LENGTH | PRICE EACH | LOTS OF 4, EACH | SHPG. WEIGHT |
|---|---|---|---|---|---|---|
| X-934 | ½" | 6"x1½" | 1½" | .89 | .79 | 2 lbs. |
| X-903 | ½" | 7"x1½" | 1⅜" | .72 | .72 | 2 lbs. |
| X-398 | ½" | 8"x1½" | 1⅜" | .99 | .88 | 3 lbs. |

**STEEL BALL BEARING**

| STOCK NO | BEARING BORE | DIAMETER & TIRE WIDTH | HUB LENGTH | PRICE EACH | LOTS OF 4, EACH | SHPG. WEIGHT |
|---|---|---|---|---|---|---|
| X-935 | ½" | 6"x1½" | 1½" | $1.29 | $1.17 | 1¾ lbs. |
| X-936 | ½" | 7"x1½" | 1⅜" | 1.39 | 1.25 | 2¼ lbs. |
| X-937 | ½" | 8"x1½" | 1½" | 1.49 | 1.37 | 2½ lbs. |

# Rocker SWITCHES

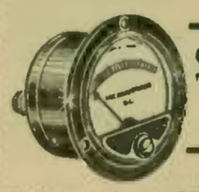


Package of 2
No. SW-283 **99¢**

Each package contains one D.P.D.T. switch and one S.P.D.T. switch. Rocker switches give new appearance to your old equipment. For use on 110-125 Volts A.C. Switches are rated at 6 Amp. Shipping weight ¼ lb.

# 0-6 RF AMMETER

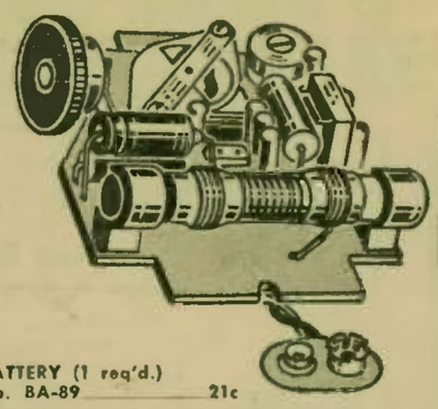
G.E. and Westinghouse ★ 2" Dia.
★ Thermocouple Type



**$2.99** No. ME-127

Ideal for antenna ammeter, audio or RF power meter, etc. Personal movement with jeweled bearings. Easy to read black dial with white scale. Black bakelite case. Size 2½" dia. x 1½" deep. Shipping weight ¼ lb. Quantity limited. Order today.

# 2 Transistor TUNER CHASSIS



BATTERY (1 req'd.)
No. BA-89 ..... 21c

No. RA-586
OLSON PRICE ONLY . . **$1.99**

Completely assembled less transistors and diode. Uses ferrite core antenna for maximum sensitivity. Requires standard 9 volt battery (not included). Shpg. wt. ¼ lb.

## TRANSISTOR AND DIODE KIT for above

Contains 2 PNP transistors plus one diode for radio chassis. No. RA-586 (above).

No. TR-23 ..... Per Kit **99¢**

# METAL-KNOB KIT

★ Kit of 3 ★ ¼" Shaft



3 KITS FOR $3.50
No. KN-18 **$1.29**

Kit of three matched aluminum knobs to fit standard ¼" shaft. Set screw locks knob firmly to shaft. Modern appearance is accented by gradual taper from 1⅛" dia. to ⅞" dia. Length of knob, 1⅜". Shipping weight ¼ lb.

# VOLUME CONTROL KIT



No. VC-274
6 Kits, $5
Kit of 12 **99¢**

Brands such as Centralab, Mallory and others. Various shaft lengths and diameters. Some include switches. Carbon and wire wound types. Shipping weight ¼ lb.

## ABOUT OUR PRICES

Your order is shipped at the current price. Prices in this catalog replace prices in all previous Olson catalogs and are subject to change without notice. Orders are filled at the price in effect at time of shipment.

**YOU BENEFIT FROM ANY PRICE REDUCTION.** If prices are lowered during the life of this catalog you get the advantage of the lower price. We reduce the cost accordingly and send you a refund at the time we make the shipment.

# CLAROSTAT 8 OHM L PAD



Provides separate control of speaker volume. 1" dia. Shaft ¼" dia. x 1" long. Shpg. wt. ¼ lb.

No. VC-261, 3 for $2 Ea. **79c**

# CLAROSTAT ROTARY SWITCH



★ U.L. LISTED
Size: ⅞" dia. Shaft ¼" dia. x 1¼" L. **19c**

No. SW-231, 6 for $1 Ea.

# Weston 0-1 MA. Meter

Model 406 ★2½" dia.



**$3.98** No. ME-122

Genuine Weston Meter. Model Number 506. Scale 0 to 1 ma. Internal resistance 26 ohms. By adding appropriate resistors you can make any range meter you need. Mounts in 2⅛" round hole. Shpg. wt. ½ lb.

# PORTABLE LAMP

6 FT. CORD — Made in U.S.A.



No. X-617
**$1.72**
3 for $5

The handiest lamp ever. Just clamp onto anything. Position it over your work area. Move it about as you move. Has 4½" dia. reflector and 6 ft. A.C. cord. Shipping weight 2 lbs. Order from Olson and save.

# 5 Hr. TIMER With Bell

★ Heavy Duty Switch

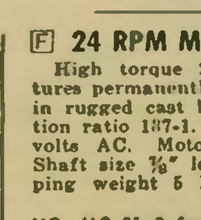


No. SW-281
**99¢** $1.99 in 164 Catalog

Heavy duty D.P.S.T. Switch is turned on by rotating shaft fully clockwise. At the end of the time cycle (5 hr.), the switch turns off and a bell begins to ring. Switch may also be operated manually. Rated at 20 amps. @ 230 volts. Motor operates on 110-125 volts A.C. 60 C.P.S. Size: 4¼" x 2¾" x 2⅜". Shipping wt. 2 lbs. Write for Special Large Quantity Price.

# Miniature HOBBY MOTORS

★ Lubricated Bearings
★ Reversible



No. MO-105 **69¢**
5 for $3

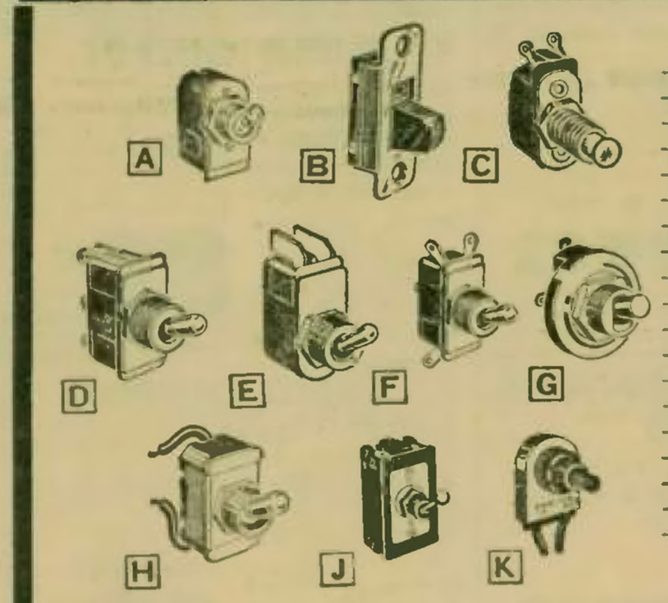
This high torque, miniature motor is perfect for all kinds of hobby applications. Because of its high efficiency and small size it is ideal for racing cars, boats and many other working models. It has permanently lubricated bearings. 3 to 4 volts DC. Current (No Load) .190 AMP. Torque 9.92 gr. CM @ 8100 RPM. ⅛" dia. shaft. Shipping weight ½ lb. Write for special large quantity prices.

# Carling SWITCHES

**YOUR CHOICE 99¢ PER PKG.**

★ Heavy Duty AC and AC-DC
★ U.L. Listed ★ Made in U.S.A.

Heavy duty construction for dependable trouble free service made to the rigid specifications of this U.S.A. manufacturer. U.L. approved. Shipping weight 3 oz.



| Stock No. | Fig. | Action | Amps. @ 125V. | Amps. @ 250V. | Quantity |
|---|---|---|---|---|---|
| SW-316 | A | SPST† | 6 | 3 | Pkg. of 4 |
| SW-287 | B | SPDT | 4 | | Pkg. of 4 |
| SW-314 | B | SPST | 6 | 3 | Pkg. of 2 |
| SW-313 | B | SPDT | 15 | 10 | Pkg. of 2 |
| SW-291 | C | SPST‡ | 1 | | Pkg. of 4 |
| SW-292 | C | DPST‡ | 1 | | Pkg. of 4 |
| SW-294 | D | DPDT | 3 | 1 | Pkg. of 2 |
| SW-315 | D | SPDT | 3 | 1 | Pkg. of 2 |
| SW-296 | E | SPST | 6 | 3 | Pkg. of 3 |
| SW-298 | F | SPDT | 6 | 3 | Pkg. of 2 |
| SW-301 | G | SPDT | 15 | 7½ | Pkg. of 3 |
| SW-302 | G | SPST | 3 | | Pkg. of 3 |
| SW-303 | G | SPST | 15 | 7½ | Pkg. of 3 |
| SW-305 | H | SPDT‡* | 15 | 10 | Pkg. of 2 |
| SW-306 | H | SPDT* | 3 | | Pkg. of 2 |
| SW-310 | H | SPST† | 15 | 10 | Pkg. of 3 |
| SW-311 | J | DPST | 12 | 6 | Pkg. of 3 |
| SW-312 | K | SPST | 3 | 1 | Pkg. of 4 |

‡ Indicates momentary action
* Indicates center off
† Indicates wire leads



**[A] VENTILATION MOTOR**

Motor is ruggedly constructed of laminated steel and features permanently lubricated type bearings. Universal mounting bracket. 3" blade. Shpg. wt. 2 lbs. 110-125 volts, A.C.

No. MO-83 ..... ea. **$2.49**

**[B] BODINE 1/25 HP**

High speed 3300 RPM motor for intermittent use in home or shop. ¼" shaft has geared face and extends ¾" from motor housing. Easily gear-coupled to any application. Operates on 110-125 volts A.C. or D.C. Size: 4" x 2½". Shipping weight 4 lbs.

No. MO-64, 3 for $5.50 Ea. **$1.98**

**[C] FASCO 4-POLE MOTOR**

4-coil, 4-pole self-starting induction type. ½" shaft extends 1¼" from front of motor and ¾" from back of motor. 1550 RPM. For 110-125 volts AC. 60 cps. Size: 2½" x 5½" plus shaft. Shipping weight 5 lbs.

No. MO-110,
3 for $9.00 ..... ea. **$3.50**

**[D] Ingraham TIMER MOTOR**

1 RPM

Features heavy duty gear box and motor frame plus fully insulated coil. Size: 1⅝" dia. x ⅞" deep. The gear box has a ⅛" diameter shaft extending ⅝". For 110-125 v. AC 60 c.p.s. Shipping weight 1 lb. Write for special large quantity prices.

No. MO-113 3 for $3 ea. **$1.19**

**[E] 6 RPM DC MOTOR**

3 Volt D. C. motor and gear drive is completely enclosed. ¼" diameter shaft rotates a 6 RPM. ⅜" shaft has flated side for set screw. Battery holder accepts two standard "D" size flashlight batteries (included). Size: 1¾" x 1½" x 2⅛" plus shaft length and mounting bracket. Shpg. wt. 2 lbs.

No. X-942 3 for $3 ea. **$1.19**

**[F] 24 RPM MOTOR**

High torque 24 RPM motor features permanently lubricated bearings in rugged cast housing. Gear reduction ratio 137-1. Operates on 110-125 volts AC. Motor size 4¼" x 3¼". Shaft size ⅞" long x ¼" dia. Shipping weight 5 lbs.

NO. MO-81 3 for $10 ea. **$3.50**

**[G] 3-6 V. MINIATURE MOTOR**

Operates on 3 to 6 volts D.C. Current drain only .200 amperes. 9 gr/cm torque @ 4500 RPM. Self aligning bearings. Shaft: ⅞" long by .079 dia. Overall size: 1¾" x ¾". With mounting bracket. Shpg. wt. ¼ lb.

No. MO-65, 3 for $2.50
12 @ 75c Ea. ..... Ea. **89c**

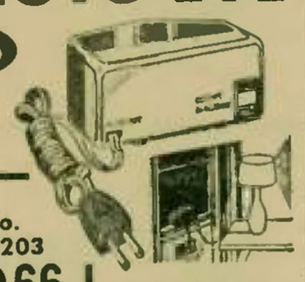
**[H] Telechron TIMER MOTOR**

Synchronous motor with multiple gear train. Front panel shaft sets timer for up to one hour. Buzzer sounds at end of time cycle. Size: 2¾" x 2½" x 3¼" including 1½" shaft. 110-125 v. AC 60 cps. Shipping weight ¾ lbs.

No. SW-254 ..... **99c**

# PHOTO-EYE

Olson



No. SW-203
**$3.66**
3 for $10.50

Turns lights, signs, appliances and displays on and off at dusk and dawn automatically. Keeps prowlers away from your home when you are away by turning lights on at night. Size: 3⅝" x 2¾" x 1½". For 117 volts A.C. Cap. 500 watts. Shipping weight ½ lb.

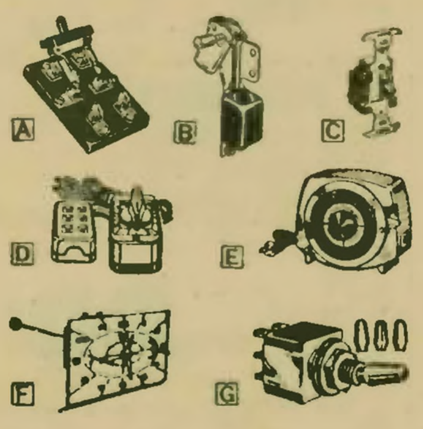
Fisher-Pierce
# NIGHT LIGHTER

Made in U. S. A.



No. X-638
**$11.08**

Turns on lights or signs at dusk and off at dawn. Just plug Nightlighter into 115 volt AC socket and plug appliance into Nightlighter adaptor cord. Max. load 500 watts. Shipping weight 4 lbs.



**[A] KNIFE SWITCHES**

★ Kit of 5

Double pole, double throw knife switches with screw terminals. Size: 1½" x 2½". ¼ lb.

No. SW-155 ..... KIT OF 5 **99c**

**[B] TRIGGER SWITCH**

★ With Push-button Lock

Heavy duty. Used as original equipment in power tools made by Ram, Pet, Black & Decker, McGraw Edison, Porter, Cable & others. Switch rating is 10 amp at 125 v. or ⅓ HP at 125 volts. Size: 3⅝" x 1⅞". Shipping weight ⅛ lb.

No. SW-251
3 for $2 ..... Ea. **80c**

**[C] DELAY SWITCH**

Made in U.S.A.

Lights remain on for about 60 seconds, then turn off automatically. Easily installed like any regular switch. Ideal for use when you go to the car, etc. Shipping weight ⅛ lb.

No. SW-179, 3 for $6 ..... Ea. **$2.19**

**[D] TIMER EXTENSION CORD**

Automatically Turns Light Off

Heavy duty extension cord with mechanical timer. Time cycle 0-4 hours. Extension cord has three outlets. Ideal for turning off fans, motors, radios, lights, etc.

No. SW-178
Lots of 3, Ea. $4.50 ..... **$5.11**

**[E] TIME SWITCH**

Turns Appliances ON-OFF

Makes any radio a clock radio. Turns on and off coffee makers, lights, fans, etc., for as little as 15 minutes or as long as 23½ hours. Manual control for manual switching. Capacity 15 amps: 1650 watts. For 117 volts. AC only. Size: 5" W x 4" H x 2¾" D. Shpg. wt. 2¾ lbs. Made in U. S. A.

No X-706 ..... **$7.99**

**[F] Telechron Clock Movement**

Made in U.S.A. Turns on TV sets, radios, phonos and or other appliances at any pre-set time within a 12 hour period. Has sweep second hand. A 60 minute slumber switch, manual on-off switch. For 117 volts A.C. Size: 6¾" x 4" x 2" Less knobs. Shipping wt. 3 lbs.

No. X-879
3 for $11.50 ..... Ea. **$3.93**

**[G] SPDT Minature Toggle Switch**

1.5 amps. 125 V. Size: 1⅛" x ½" x ½". Shipping weight ¼ lb.

No. SW-211, 4 for $3.50 ..... Ea. **99c**

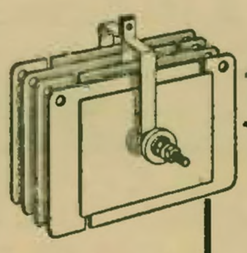
**[G] DPDT Minature Toggle Switch**

Same as above but DPDT.

No. SW-212, 3 for $3.75 ..... Ea. $1.29

E. R. Blevins, 524 S. Main St., Marion, Va., wins choice of merchandise worth $5 from Olson's "Treasure Hunt." See back cover for instructions.

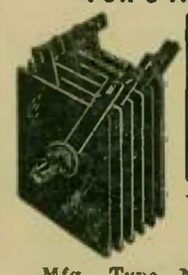
100 AMP
# BATTERY RECTIFIER
FOR 6 AND 12 VOLT



No. RE-68
**$8.93**
3 for $24

Similar to right except has smaller plate area. Brand New Factory Boxed. Size: 4¼" x 6" x 3". Shipping weight 3 pounds.

IOR INTERNATIONAL RECTIFIER
100 AMP
# BATTERY RECTIFIER
FOR 6 AND 12 VOLT



No. X-499
**$14.47**
3 for $40
12 @ $12.50 Ea.

★ Ideal for Replacement or "Do-It-Yourself" Units

Mfg. Type No. JD4346B. Exact replacement for all fast charge 6 and 12 volt battery chargers. Delivers up to 100 amps. Brand new, heavy duty selenium rectifiers made by a nationally famous manufacturer. Size of plates 5" x 6" x ⅜" thick. Equipped with mounting stud. Shpg. wt. 4 lbs.

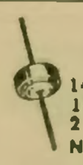
Hi-Density
**SELENIUM RECTIFIERS**



Mfgrs: Type: TO65/075 Size: 1⅛ x 1⅛ x ⅛". RMS A.C. input 130 volts. Shpg. wt. ¼ lb.

No. RE-35 ..... Ea. **44c**

Sarkes Tarzian
**SILICONE DIODE**



1.5 amp. 200 PIV. AC RMS 140. ½" dia. x ⅛" deep. With 1½" leads. Shpg. wt. ¼ lb.

2 for $1.00
No. RE-79 ..... Ea. **59c**

500 MA Selenium
**RECTIFIER**




No. RE-67
**89¢**
3 for $2.50
10 @ 73c ea.

★ Fills 90% of All Needs

New tri-density selenium gives greater current output and smaller physical size. (Only 1¼" x 1¼" x 1"). Individually factory boxed. Shipping weight ¼ lb.

**Selenium Bridge RECTIFIER**



No. RE-2
3 for $4.50
**$1.69**

For battery chargers, electro-plating, etc. High current low voltage rectifier. Mfgrs. type: M1B. A.C. Input Voltage: 25 volts. D.C. Current Output: 1.2 amps. Size: 2"x2"x1⅝". Shipping wt. ½ lb.

## Rubber A.C. PLUGS

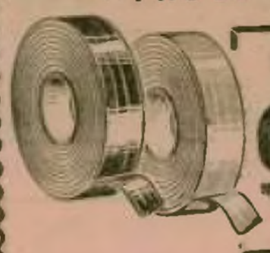


No. PL-107
Kit of 5
**99c**

Kit contains 3 standard plugs and 2 right angle plugs. Ideal for power tools and appliances. Shipping weight ½ lb. Write for special large quantity prices.

## Insulating TAPE

★Two 33' Rolls



No. TA-5
**99c**

2 rolls of ¾" wide, self-sticking plastic insulating tape, 2 colors: one roll red, one roll black. ½ lb.

## Speaker CONTROL



No. SW-133
**99c**

Reduces volume of one speaker while gradually increasing volume of other speaker. With hardware. ¼ lb.

## 15-ohm EARPHONES



KIT OF 2 No. PH-36
**99c**

Response 50 to 4,000 CPS. Size: ¾" x ¾" diameter. ¼ lb.

## 6" Needle Nose Pliers



No. TL-5
**99c**

With side cutters. For Radio and TV repair. 6 inches long. ¼ lb.

Ralph J. Andrews, P. O. Box 383, Chester, Pa., wins choice of merchandise worth $5 from Olson's "Treasure Hunt." See back cover for instructions.

## Miniature PLUGS & JACKS



No. AS-442
6 Pairs
**99c**

assorted pairs. Jacks are closed circuit type. Ideal for transistor earphones receivers. ½ lb.

## YOUR CHOICE 99¢ 4 FOR $3.50



### Knife Switches 99c

Kit of 5 No SW-155

Double pole, double throw knife switches with screw terminals. Size: 1½" x 2½". ½ lb.



### Tube Sockets 99c

Kit of 6 No. AS-479

Kit of 6. Consists of 3 each miniature 7 pin and 9 pin tube sockets. Shipping weight ½ lb.



### Phone Plug Sets 99c

2 Pairs No. PL-91

Two pair of male and female ¼ inch phone jacks and plugs. Color coded black and red identification. ½ lb.

## Phono PIN JACKS



No. AS-441
Kit of 6
**99c**

Kit of 6. Takes RCA type pin plug. Mount on single ½" hole. Plated. Size: ¾" x ½". Shipping weight ½ lb.



### Lug Terminals 99c

Kit of 13 No. AS-438

Size: ¾" x ⅜" lengths: 1½" 2¼" & 2¾". ¼ lb.



### Toggle Switches 99c

Kit of 3 No. SW-154

(SPST and DPDT). Rated @ 3 amps 125 volts. Size: 1⅛" x ¾". ½ lb.



### BOTTLE LIGHT 99c

No X-867

Make your own lamp. Socket, cord, plug and switch. Press-on fitting fits snugly into bottle. ¼ lb.



### Phone Plug Adaptors 99c

Kit of 2 No. AS-471

Convert standard ¼" phone plugs to RCA type phono plug. Size: 1" diameter x 2¼". ¼ lb.



### Terminal Strip Kit 99c

No. AS-506

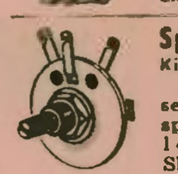
45 Pieces, assorted. Solder type with mounting lug. ¼ lb.



### Center-Off Toggle 99c

Kit of 2 No. SW-156

DPDT center off toggle switches. Rated 6 amps @ 125 volts or 3 amps @ 250 volts. Size: ¾" x 1¾" x ¾". ¼ lb.



### Speaker Faders 99c

Kit of 3 No. VC-231

Permits control of both set speaker and remote speaker. 1⅛" diameter x 1" long. With instructions. Shipping weight ½ lb.



### PLUGS & JACKS 99c

Kit of 4 pairs No. PL-63

Kit of 4 pairs banana plugs and jacks. 2 red pairs and 2 black pairs With soldering lug. Shipping weight ½ lb.



### Calibrated Knobs 99c

Kit of 4 No. KN-14

Grey finish with black numerals. Dial diameter: 1½" Fits ¼" shaft. ½ lb.



### Slide Switches 99c

Kit of 6 No. SW-153

Assorted SPST, SPDT, DPST and DPDT. 1 amp. 125 volts. Size: ½" x ⅝" x 1¼". ½ lb.



### Switches & Controls 99c

Kit of 12 No. AS-485

12 assorted selector switches and volume controls. Shipping weight 2 lbs.



### Miniature Phone Plugs & Jacks 99c

3 PAIRS No. AS-642

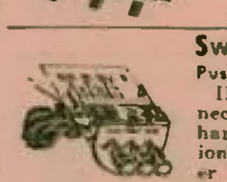
Kit of 3 pairs of miniature, shielded, phone type plugs, and shorting jacks. Ideal for remote speaker hookups, small microphones and many other uses. ½ lb.



### Clock Radio Knobs 99c

Kit of 25 No. KN-12

Various colors for all makes and models of clock radios. 25 assorted colors. ½ lb.



### Switch Kit 99c

Push Button No. SW-173

INCLUDES: cable, connectors, mounting plate, hardware and instructions. For rear seat speaker installations. Shipping weight ½ lb.



### ALLIGATOR CLIPS 99c

★ Kit of 14 No. AS-447

Kit of 14 insulated Alligator clips, 7 red clips and 7 black clips. Asst. sizes. ½ lb.



### Phone Plugs 99c

SHIELDED

Kit of 2 No. AS-477

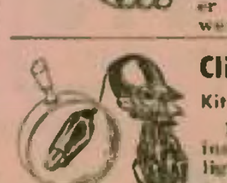
Kit of 2 shielded standard ¼" phone plugs. Plated all metal barrel. Screw terminals. ¼" shaft. Barrel 1⅛" x ½". ½ lb.



### MATCHED KNOBS 99c

No. KN-8 Kit of 5

Matched set of 5 white knobs with polished gold inlay. Set screw type for ¼" dia. shaft. ½ lb.



### Clip Leads 99c

Kit of 10 No. X-804

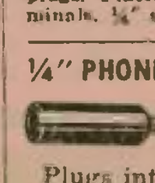
10 leads 14" long with insulated miniature alligator clips attached one to each end. ½ lb.



### Transistor Sockets 99c

Kit of 10 No. AS-444

Takes transistors with three contacts in line or triangle (JEDEC). Size: ⅜" x ½" ½ lb.



### ¼" PHONE PLUGS Per Kit 99c

★ KIT OF 4

No. X-253 4 for $3.50

Plugs into ¼" phone jack. ½ lb.



### Dial Cord 99c

100 Feet No. X-182

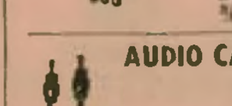
Finest nylon glass core. Standard thin .028 dia. ½ lb.



### Binding Posts 99c

Kit of 10 No. AS-439

Will take alligator clip, banana plug, tip plug, spade lug, or wire. ½ lb.



### AUDIO CABLE KIT 99c

No. AS-481

Consists of 3' audio lead with pin plug, other end tinned and stripped; 6' audio lead with pin plugs; 1 dual inline jack. ½ lb.



### ¼" PHONE JACKS 99c

★ Kit of 5 No. AS-445

Open and closed circuit. Takes any standard ¼" phone plug. ½ lb.



### Plugs & Sockets 99c

6 Pairs No. PL-68

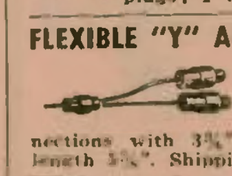
Assorted colors, ivory, red and black. Plug size: ¾" x 1½". Receptacle. ½" x 1½". ¼ lb



### Phono Cable 99c

35 Feet No. W-355

35 feet of shielded, extra flexible phono cable. Single center conductor. Shipping weight ½ lb.



### FLEXIBLE "Y" ADAPTOR KIT 99c

Kit of 2, No. W-423

Both have 1 male and 2 female connections with 3¾" flexible leads. Total length 5⅝". Shipping weight ½ lb.



### "Y" Adaptor Kit 99c

Kit of 2 No. X-817

One has 3 female connections, other has 2 female and 1 male connection. For many hi-fi uses. Size: 1¾" x1¾". ½ lb.



### A.C. Chassis Sockets 99c

Kit of 8 No. X-803

Bag of 8. Rated for 117 volts, 10 amps. Mount in ½" x 15/16" hole. ½ lb.



### PENLIGHT BATTERY HOLDERS 99c

Kit of 3 No. BA-91

Easy snap together construction. One each 4, 6 and 8 cell holders ¼ lb.



### Dual Inline Jacks 99c

Kit of 4, No. AS-476

Dual inline phono jacks allow connection of two audio cables having phono pin plug ends. Size: ½" diameter 1½" long. ½ lb.



### Goodyear Pliobond 99c

No. TL-276

Cements anything, metals, woods, glass, fabrics, etc. Also can be used as a liquid "Spaghetti." ½ pint can. ½ lb.



### A.C. Plugs 99c

Kit of 12 No. PL-58

Brown, black and grey rugged plugs. Rated for 117 volts 10 amps. ½ lb.



### Battery Holders 99c

Kit of 10 No. BA-55

3 penlite, 3 miniature penlite, 3 flashlight and one 4 penlite cell holders. Shipping weight ½ lb.



### Phono Pin Plugs 99c

Kit of 5 No. PL-57

All metal. New design makes soldering easy. Size: ⅜" diameter x 1⅝" long. ½ lb.



### Insulating Tape 99c

★Two 33' Rolls No. TA-5

2 rolls of ¾" wide, self-sticking plastic insulating tape. 2 colors: one roll red, one roll black. ½ lb.



### 12 A.C. Plugs 99c

6 Sets No. W-349

6 male and 6 female sockets. Gray bakelite. 10 amps. 117 Volts. ½ lb.



### Loopsticks 99c

Kit of 3

No. L-75

Kit of 3. All directional radio antenna. Pulls in distant radio stations with remarkable ease ½ lb.



### Phono Pin Plugs & Jacks 99c

3 Pairs

No. AS-440

3 plugs and jacks for making audio connections. Size: ⅜" diam. x 1⅝" long. ½ lb.



### Goodyear Pliobond 99c

No. TL-276

Cements anything, metals, woods, glass, fabrics, etc. Also can be used as a liquid "Spaghetti." ½ pint can. ½ lb.



### Panel Indicators 99c

No. PL-65—KIT OF 2

(1 red, 1 green) with 6 volt bulbs. ¾" dia. x 1" long. ½ lb.



### NEON PILOT LIGHTS 99c

Kit of 3 No. KB-90

With neon lamp, jewel and socket. Operates on 115 volts. ⅜" dia. x 1⅛". Requires dropping resistor 100,000 ohms. 2-Red, 1-Yel. Shpg. wt. ½ lb.



### Pilot Lights 99c

Kit of 5 No. PL-64

Jeweled pilot light assemblies with bayonet base sockets. 2 with red jewels, 2 with green and 1 amber. ½ lb.



### ELECTRICIAN'S TAPE 99c

66-ft. roll No. TL-268

¾" plastic self-sticking electricians tape. Shipping weight ½ lb.



### Midget Soldering Iron 99c

30 Watts No. TL-119

Only 8½" Long

Only ⅝" dia. 6-ft. cord with molded plug. For printed circuit. 110-125 volts AC or DC. ½ lb.



### Jeweler's Screwdrivers 99c

No. TL-118

Five-piece set. 7 blades measuring .080, .070, .055, .040 and .028. ½ lb.



### 6" Diagonal Cutters 99c

No. TL-7

6-in heavy duty; cuts the finest to the toughest wire. Shpg. wt. ½ lb.



### Needle Nose Pliers 99c

6" Bent

No. TL-247

Nose is bent 90° to get into small spaces and corners. ½ lb.



### Insulated Tube Puller 99c

Straight Type

No. TL-294

7½" long for cramped areas. ½ lb.



### Insulated Tube Puller 99c

Bent Type

No. TL-295

7½" long. Removes tubes from cramped areas. Shpg. wt. ½ lb.

## Dynamic EARPHONE



No. PH-77
**66c**

★ 2000 Ohms

3 ft. of cord and plug. Response to 4,000 cycles. Shpg. wt. ½ lb.

## YOUR CHOICE 66¢ ALL SENSATIONAL BARGAINS!

### 2% Precision Resistors 66c



Kit of 25 No. R-52

Each marked with resistance. Values from low, low ohms to many million ohms. Shipping weight ½ lb.

### Inline ¼" Jacks 66c



Kit of 3 No. PL-61

Inline ¼" phone jacks. Fit all standard ¼" phone plugs. Size: ⅝" x 1½" long. ½ lb.

### Assorted Knobs 66c



★ Kit of 25, No. AS-482

25 assorted knobs for radio and TV replacement. Variety of styles and colors. Shipping weight 2 lbs.



### 7 Pin Sockets 66c

Kit of 15 No. AS-570

Kit of 15 — 7 pin miniature tube sockets. Wafer type construction. Shipping weight ½ lb



### Push Switches 66c

Kit of 5 No. AS-473

Five S.P.S.T. miniature push switches, spring return. Size: ¾" x ⅝". Shpg. wt. ½ lb.



### 9'x12' Dropcloth 66c

No. TL-253

Sturdy, seamless, transparent plastic can be used for table spread to protect indoor and outdoor furniture. ½ lb.



### Microswitches 66c

KIT of 5 No. SW-166

Kit of 5. May be assorted. Shipping weight ½ lb.

## GRILLE CLOTH



★ 6-Piece Kit

No. K-104
**66c**
Was 99c In 563 Cat.

Different patterns and sizes in mahogany and blonde from 7" x 10" to 12". Shipping weight ½ lb.

### Wedge Grip Lamp & Socket 66c

12v. @ 24 amps. Kit of 4, No. PL-99



New all glass lamp with wedge grip contacts. GE number 158 bulb. Ideal for hard to reach places. Wt. ½ lb.

## Close-Outs

**WATT MONO AMPLIFIER,** with metal cover. Has magnetic phono input plus two high level inputs. Includes tubes and metal cover. Shipping weight 15 lbs. No. AM-159 (was $37.85 in 563cat.) **$25**

**LOT LAMP SOCKETS,** kit of 20 standard screw base pilot lamp socket. ½ lb. No. PL-98 **50c**

**ARIABLE A. C. POWER SUPPLY.** Output from 110 to 135 volts AC at 300 watts. Includes front panel meter and fuse. Gray metal case. Shpg. wt. 8 lbs. No. RA-471 **$10.98**

**INGED LID CABINET,** originally made for tape recorder. Mahogany finished wood. Size: 18" W x 10½" H x 14" D. Shipping weight 6 lbs. No. CA-238 **$2.99**

**MALLORY ½ WAVE RECT.,** selenium AC input 130 volts. DC output 300 MA. ¼ lb. No. RE-52 (69c in 761 cat.) **3 for $1**

**MALLORY ½ WAVE RECT.,** selenium AC input 175 volts. DC output 250 MA. ¼ lb. No. RE-54 (59c in 761 cat.) **4 for $1**

**ALPHA HOOK-UP WIRE,** 1000 ft. on metal reel. 22 gauge solid. Rayon, push-back insulation. Shipping weight 3 lbs. No. W-514 **$3.50**

**FILTER CONDENSER 60-40 MFD x 150 v.** ¼ lb. No. C-986 (Tubular type) **4 for $1**

**SYLVANIA PHOTOCONDUCTOR KIT.** Contains Sigma relay, 3-T4 Cds. Photoconductors and a resistor. Instructions included. Shipping weight ½ lb. No. SW-285 (was $9.95 in 1964) **$7**

**RCA 6" PM SPEAKER,** extra heavy duty magnet for greater power capacity. 3 lb. No. S-536 **$1.49**

**ELECTROLYTIC CAPACITOR,** can type Twist prongs. 15 + 15 @ 350 volts. ¼ lb. No. C-927 (89c in 162 Cat.) **5 for $1**

**FUSE KIT,** 6 assorted fuses. Slow blow, ¼ lb. No. FU-7 (99c in 563 cat.) **76c**

**UTAH 8" SPEAKER,** 10-oz. magnet. 1½" voice coil. Power capacity 10 watts. Response: 75-9,000 cps. 8 ohms. Shipping weight 4 lbs. No. S-504 (Was $9.95 in 763 cat.) **$5**

**VERTICAL OUTPUT TRANSFORMER.** Primary resistance 300 ohms. Secondary resistance 300 ohms. Size: 2¼" x 2⅝" x 1⅞". Shipping weight 3 lbs. No. T-337 **39c**

**DYMO-INDUSTRIAL TAPEWRITER.** Uses ½" wide tape. Makes raised letters on self-sticking vinyl tape. Includes a role of tape. (Was $39.95 in 563 cat.) No. TL-400 **$24.00**

**10" PM SPEAKER.** Ideal for replacement applications or as extension on radio or TV. 3.2 ohm v.c. Shpg. wt. 2 lbs. No. S-587 **$3.49**

**SHURE TAPE RECORDER HEAD,** model TR-16. High impedance ½ track record and playback. Shipping weight ½ lb. No. RP-264 **$2.99**

**SHURE TAPE RECORDER HEAD,** Model TR-64. Upper track record and playback and erase. High impedance. Shipping weight ½ lb. No. RP-266 **$3.99**

**DPDT 6 VOLT RELAY,** Kit of 3. Ideal for model railroad. Size: 1¼" x 1½" x 1". Shipping weight ½ lb. No. SW-194 **$1**

**TV LEAD-IN INSULATORS,** 2½" length with strap to fasten to mast. No. S-260 pkg. of 25 **$1**



# COMPLETE CB SYSTEMS
## FEATURING Olson "Side-Bander"



YOU PAY ONLY **$17** MONTHLY
No Money Down
OLSON PRICE
**$309**
No. AS-902

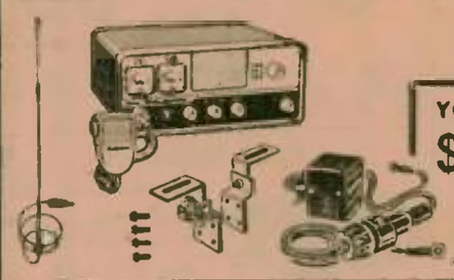
### BASE/PORTABLE SYSTEM

★ No Crystal to Buy
★ Maximum Operating Range
★ Communicate With Any Unit

**HERE'S WHAT YOU GET:**

| | |
|---|---|
| 1—"Side-Bander" Transceiver, RA-590 | $214.95 |
| 1—1-watt Walkie Talkie, RA-612 | 79.98 |
| 1—Tenna 20' CGP Antenna, AA-115 | 27.98 |
| 1—100 Ft. RG8-U Coax Cable, W-431 | 10.99 |
| 2—Connector Plugs, X-852 2 for | 1.00 |
| Total Regular Catalog Price | $334.90 |

### Complete CB MOBILE STATION



YOU PAY ONLY **$221**
No. AS-871

**HERE'S WHAT YOU GET:**

| | |
|---|---|
| 1—"Side-Bander" Transceiver, RA-590 | $214.95 |
| 1—Phantom Antenna, No. AA-106 | 5.97 |
| 1—Mobile Mount Bracket, No. HW-46 | 2.95 |
| 1—12 Volt DC Power Cable, No. W-460 | 3.98 |
| Total Regular Catalog Price | $227.85 |

### Complete CB BASE STATION

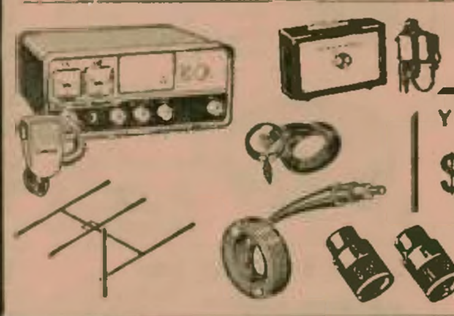


YOU PAY ONLY **$240**
No. AS-900

**HERE'S WHAT YOU GET:**

| | |
|---|---|
| 1—"Side-Bander" Transceiver, RA-590 | $214.95 |
| 1—Tenna 20' CGP Antenna, AA-115 | 27.98 |
| 1—100 Ft. RG8-U Coax Cable, W-431 | 10.99 |
| 2—Connector Plugs, X-852 2 for | 1.00 |
| Total Regular Catalog Price | $254.92 |

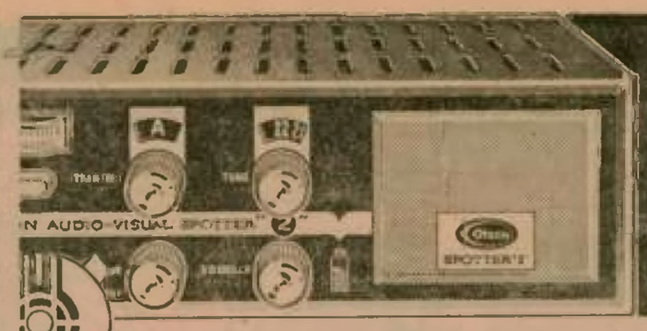
### Deluxe CB BASE STATION



YOU PAY ONLY **$275**
No. AS-891

**HERE'S WHAT YOU GET:**

| | |
|---|---|
| 1—"Side-Bander" Transceiver, RA-590 | $214.95 |
| 1—3 Element Beam Ant., No. AA-113 | 31.50 |
| 1—Alliance Tenna Rotor, No. AU-12 | 25.40 |
| 1—100 Ft. RG8-U Coax Cable, W-431 | 10.99 |
| 1—100 Ft. 4-cond. Cable, No. W-62 | 2.95 |
| 2—Connector Plugs, No. X-852 2 for | 1.00 |
| Total Regular Catalog Price | $286.79 |



# COMPLETE CB SYSTEMS
## FEATURING Olson "Spotter 2"



YOU PAY ONLY **$13** MONTHLY
No Money Down
OLSON PRICE
**$218**
No. AS-901

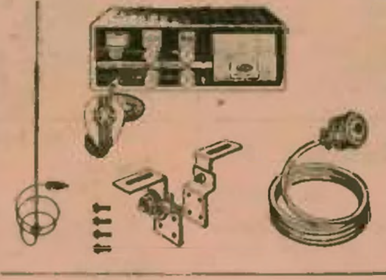
### BASE/PORTABLE SYSTEM

**HERE'S WHAT YOU GET:**

| | |
|---|---|
| 1—"Spotter 2" Transceiver, RA-530 | $119.95 |
| 1—Tenna 20' CGP Antenna, AA-115 | 27.98 |
| 1—100 Ft. RG8-U Coax Cable, W-431 | 10.99 |
| 2—Connector Plugs, X-852 2 for | 1.00 |
| 1—1-watt Walkie Talkie, RA-612 | 79.98 |
| Total Regular Catalog Price | $239.90 |

J. R. Dissler T.V., 1816 Ferguson Ave., Granite City, Ill., wins choice of merchandise worth $5 from Olson's "Treasure Hunt." See back cover for instructions.

### Complete CB MOBILE STATION

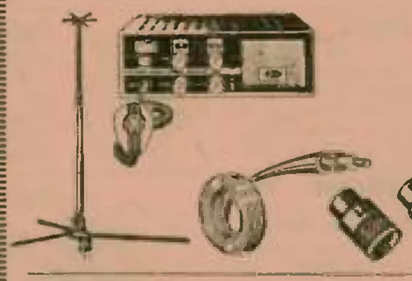


YOU PAY ONLY **$125**
No. AS-826

**HERE'S WHAT YOU GET:**

| | |
|---|---|
| 1—"Spotter 2" Transceiver, RA-530 | $119.95 |
| 1—Phantom Antenna, No. AA-106 | 5.97 |
| 1—Mobile Mount Bracket, No. HW-46 | 2.95 |
| 1—6 & 12V DC Power Cable, No. W-430 | 2.95 |
| Total Regular Catalog Price | $131.82 |

### Complete CB BASE STATION

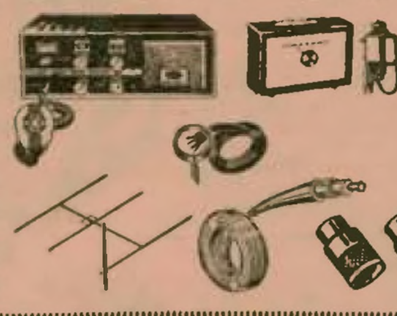


YOU PAY ONLY **$149**
No. AS-899

**HERE'S WHAT YOU GET:**

| | |
|---|---|
| 1—"Spotter 2" Transceiver, RA-530 | $119.95 |
| 1—Tenna 20' CGP Antenna, AA-115 | 27.98 |
| 1—100 Ft. RG8-U Coax Cable, No. W-431 | 10.99 |
| 2—Connector Plugs, X-852 2 for | 1.00 |
| Total Regular Catalog Price | $159.92 |

### Deluxe CB BASE STATION



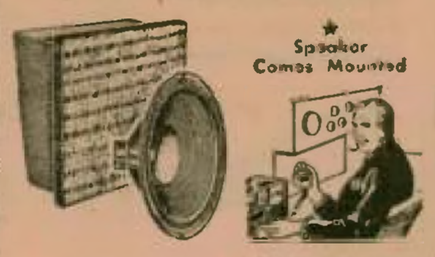
YOU PAY ONLY **$179**
No. AS-890

**HERE'S WHAT YOU GET:**

| | |
|---|---|
| 1—"Spotter 2" Transceiver, RA-530 | $119.95 |
| 1—3 Element Beam Ant. No. AA-113 | 31.50 |
| 1—Alliance Tenna-Rotor, No. AU-12 | 25.40 |
| 1—100 Ft. RG8-U Coax Cable, W-431 | 10.99 |
| 1—100 Ft. 4-cond. Cable, No. W-62 | 2.95 |
| 2—Connector Plugs, X-852 2 for | 1.00 |
| Total Regular Catalog Price | $191.79 |

## EXTENSION SPEAKERS FOR BASE & MOBILE

BASE
### 8" SPEAKER & BAFFLE



★ Speaker Comes Mounted

Response: 50 to 10,000 CPS. Voice coil 8 ohms. Rated 6 watts. Speaker mounted. Size: 10" x 10" x 3½". Shipping weight 4 lbs.

12 @ $5.00
No. CA-136, 3 for $18 — **$6.51**

MOBILE
### 5-Watt TRUMPET SPEAKER



★ Adjust to Any Angle

Connect to the external speaker jack of your CB for improved high level sound. Cuts through background noise. 8 ohms. Response: 400-8,000 CPS. Size: 5½" dia. x 5" deep. Shipping weight 4 lbs.

No. S-453, 3 for $20 — **$6.95**

### CB TRANSMIT CRYSTALS



No. CB-1
**$1.99**
3 FOR $5.55
12 FOR $21.50

SPECIFY YOUR CHOICE OF CHANNELS 1 THRU 22

Popular 3rd overtone type crystals. Standard case with ½" mounting centers. These hermetically sealed crystals fit all Olson Transceivers as well as, General Radio, Globe CB 100, CB 100A, De Wald TR 910, Heath CB, United Scientific Labs R300-TR910-TR1000, and many others. Shipping weight ¼ lb.

### 20 FEET — TENNA CGP ANTENNA



★ Lower Angle of Radiation
★ Increased Operating Range

**$27.98**
No. AA-115

The Colinear Ground Plane is an omnidirectional fixed base station antenna that concentrates RF energy at a lower angle of radiation than any other design. This ⅝ wave length antenna gives a 3.4 db gain over a ground plane and there by doubles the effective radiated power—vastly increasing the useable CB range. Impedance, 50 ohms. Termination, standard co-ax fitting. Shipping weight 8 lbs. Shipped parcel post, except shipped railway express to 1st class post office.

### LOW-COST WHIP ANTENN



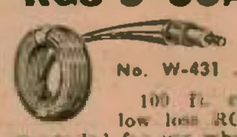
★ Top or Side Mounting
★ Swivel Joint

102" Spring Mounted W

**$5.99** No. AA-91

May be cowl, tr or fender mounted terrific bargain for 27 M.C. mobile rig durable first line tenna and mount bargain price. S ping wt. 7 lbs. Ship railway express or

### RG8-U COAX CABLE



No. W-431 — **$10.99**

100 ft. coil of high quality low loss RG8-U coax cable recommended for use where antenna lead exceeds 50 ft. Shipping weight 12 lbs.

55 Ft. RG-58U COAXIAL CABLE
No. W-415 — $2.95

### Coiled Comm. MIKE CORD



Communication replacement cord. 1 wire shielded. 1 pair for control circuits. Shipping weight ½ lb.

No. W-424 — Ea. **$1.59**

### Generator NOISE FILTER



Adjustable for 3 to 30 MCS. Ideal for C. B. Mounts on top of generator. Complete with instructions. Size 2½" L. x 2⅝" H. x 1⅝" Dia. Shpg. weight ½ lb.

No. RA-532, 3 for $6.98 — **$2.49**

### Antenna Cable Kit



Kit to connect antenna to C. B. transceiver. 20' RG58U cable, 2-PL-259 plugs, 2-UG-175 reducers.

No. W-387 — **$2.29**

Plug, No. X-852, 2 for $1.00 — Ea. 59c
Reducer, No. X-853, 2 for 30c — Ea. 16c

20 FT. ANTENNA CABLE, completely assembled. PL-259 connector on each end. Shipping weight 2 lbs. No. W-458 — $2.49

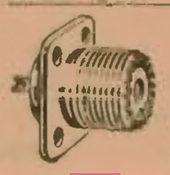
### UG-175 ADAPTOR



No. PL-95
2 for 30c Ea. **16c**

Adaptor enables PL-259 connector to be used with RG-58U coax cable. Shipping weight ⅛ lb.

### R. F. COAXIAL JACK

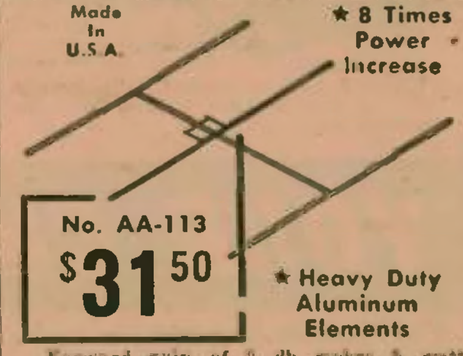


No. PL-96 — Ea. **60c**

Chassis mounting receptical for PL-259 coax plug. Shipping weight ½ lb.

### hy-gain CB BEAM ANTENNA

Model 113-B
Made in U.S.A.
★ 8 Times Power Increase



No. AA-113
**$31.50**
★ Heavy Duty Aluminum Elements

Forward gain of 9 db makes 5 watt signal equal to 40 watts. Mounts either horizontal or vertical. Three elements, factory pre-adjusted and matched for 52 ohm feed. Heavy duty aluminum elements, steel boom. Less Cable. Shipping wt. 15 lbs.

### NEW TRONICS CB Phantom ANTENN

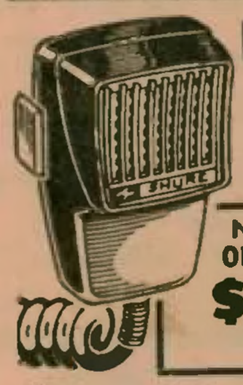
★ Cowl Mount
★ Center Loaded

**$5.97** No. AA-10

First and only Fibre G Antenna sheathed in co braid. Bending of more 90" will not crack or b it. Has all the electr efficiency of an all m antenna. Mounts on any venient location on car truck. Only 48" high. W on all channels with SWR. Complete with un sal automotive mount 5 ft. lead with PL-259 connector. Shpg. wt. 3

### SHURE Communications MIKE

Made in U.S.A.



No. M-175
OLSON PRICE
**$5.98**

For CB or amateur use in both mobile or base stations. "Shaped" voice response pattern gives maximum intelligibility. Response: 200-4000 cps, free from undesirable peaks. Omnidirectional polar pattern. With push-to-talk switch, shatter-proof case and kinkproof 5-ft. stretch cord. Features high output ceramic element for 100% modulation of your transmitter. Output level -55.5 db. Includes mounting bracket. Shipping weight 2 lbs.

### Cesco TRANSICHECK

CB-52-T
★ Measures Transmitter Power Output
★ Checks Standing Wave Ratio



No. CB-5
**$24.95**

Use Transicheck to get maximum efficiency from your CB transceiver. Connects directly into the antenna line. Has standard co ax fittings to make easy connection. Measures SWR and power output of transmitter. Perfect for tuning the transmitter to maximum output. No external power connections necessary. Size: 2¼" x 2½" x 6½". Shipping weight 2 lbs.

### TURNER Model 254X - COMMUNICATIONS DESK MIKE

★ High Output Crystal Element



No. M-167
**$13.82**

Ideal for CB amateur use. Touch to talk and locking on-off switch lever. One piece die cast case. Chrome trim. Response 80-7,000 CPS; output level is—55 db. Includes 7 ft. of shielded 3 conductor cable. Wired for relay operation. Size: 7¾" H. x 5½" D. Shipping weight 3 lbs.

### TURNER Model 350C Communications MICROPHONE

★ Coiled Cord
★ Made in U.S.A.

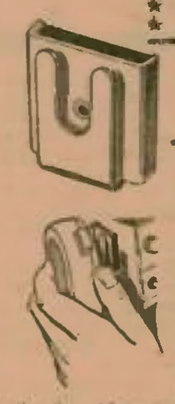


No. M-165
**$5.98**

With push-to-talk switch. Includes mounting clip and heavy duty coiled cord. Features a high impact polystyrene case. Ceramic element. Response 80-7,000 cps. Output level—54 db. High impedance. Shipping weight 2 lbs.

### Magnetic MIKE HOLDER

★ Clips on Back of Mike
★ Attach to Metal Surface



No. X-924 **99**

Powerful cera magnet attaches back of any handm with standard han button. You can h hang mike up on metal surface such car dash or transc er case. No holes drill in mike or dash. Simply clip to back of m and it's ready to use. Size: 1¾ 1⅝" x ⅞". Shipping weight ¾

### Telescoping WHIP ANTENNA

For CB WALKIE-TALKIES



No. AA-110
**$1.99**

★ Extends to 54½"
★ Closed Length 6¼"
★ Heavy Chrome Plating

Highly efficient 11 section, telescoping antenna for CB "walkie - talkies." Chrome plated for lasting good looks and durability. Measures 54½" fully extended and 6¼" retracted. 3 adapters are included to change the screw-in type mounts to stud type (3 different sizes). These adapters make this a truly universal antenna that will fit almost any CB "walkie-talkie." Shpg. wt. ¾ lb.

ADAPTERS FIT MOST UNITS

# Packed With All The Newest, Most Wanted Features In 2-WAY RADIO

NOTICE

**Double Side-Band Power Gives Up To 4 Times More Range**

**COMMUNICATE WITH ANY CB RIG**




TALK POWER IS IN SIDE BANDS ONLY



Conventional Transmit
Normal modulation pattern

INCREASED TALK POWER IN SIDE BANDS



'Side-Bander' Transmit
"Side-Bander" modulation pattern

NOTICE

## Olson "Side-Bander" CB TRANSCEIVER

**ALL CRYSTALS INCLUDED FOR 23 CHANNELS**

| | |
|---|---|
| NEW | INCREASED TALK POWER |
| NEW | INCREASED SENSITIVITY |
| NEW | GREATER RANGE |
| NEW | CHROME TRIM |
| NEW | CAST FRONT PANEL |

- 25 Watt P.E.P.
- Dual Panel Meters
- 2-Tube Push-Pull Modulation
- Dual-Conversion Superhet Receiver

**MADE IN U.S.A.**

Here is new power, new performance never before available in any CB Transceiver. New Double Sideband Transmitter gives up to 4 times the normal operation range of most units. Even under the most difficult broadcast conditions the Olson "Side-Bander" delivers maximum power within FCC Regulations. Receiver has .15 microvolt sensitivity for 6 DB signal-to-noise ratio, and excellent selectivity, image and IF rejection figures. Space age technology has brought about an advanced new concept in frequency control. A frequency synthesizer provides full crystal-controlled transmitter and receiver operations on all 23 CB channels—no extra crystals to buy! Delta tuning circuit brings in off-frequency stations. Transmitter section has 25 watt P.E.P. modulation capability and pi-network output to match 30-75 ohms. Two tube push-pull modulation provides 100% modulation at all times. Dual panel meters provide a constant check on transceiver operation. Meters read strength of receiving and transmitting signal plus voltage and current to final tube. Red light comes on during transmit. A few of the other outstanding features are: adjustable squelch control, automatic noise limiter and crystal filter. Size: 8½" x 11½" x 9¾". With universal power supply, push-to-talk ceramic mike with coil cord and all transmit and receive crystals for 23 channel operation. 110-125 Volts AC, 60 CPS and 12 Volts DC. Shipping weight 15 lbs.

**$13 MONTHLY**
NO MONEY DOWN

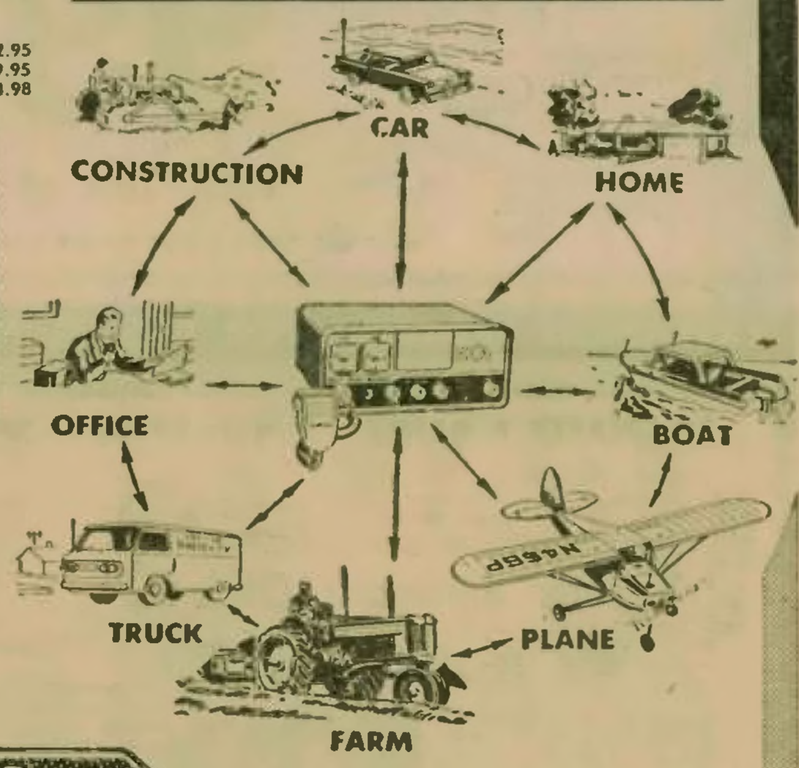
**No. RA-590**
**OLSON PRICE**
**$214.95**

### ACCESSORIES:

| | |
|---|---|
| MOBILE MOUNTING BRACKET, No. HW-46 | $2.95 |
| De-luxe MOBILE MOUNTING BRACKET, No. HW-49 | $9.95 |
| 12 VOLT DC POWER CABLE, No. W-460 | $3.98 |

**ATTENTION "SIDE BANDER" & "SPOTTER 2" OWNERS:**

If you are using your "Side-Bander" or "Spotter 2" in an unusual way, we would like to know about it. Send in your story, complete with pictures, and if we can use your story Olson will send you a prize commensurate to its value.

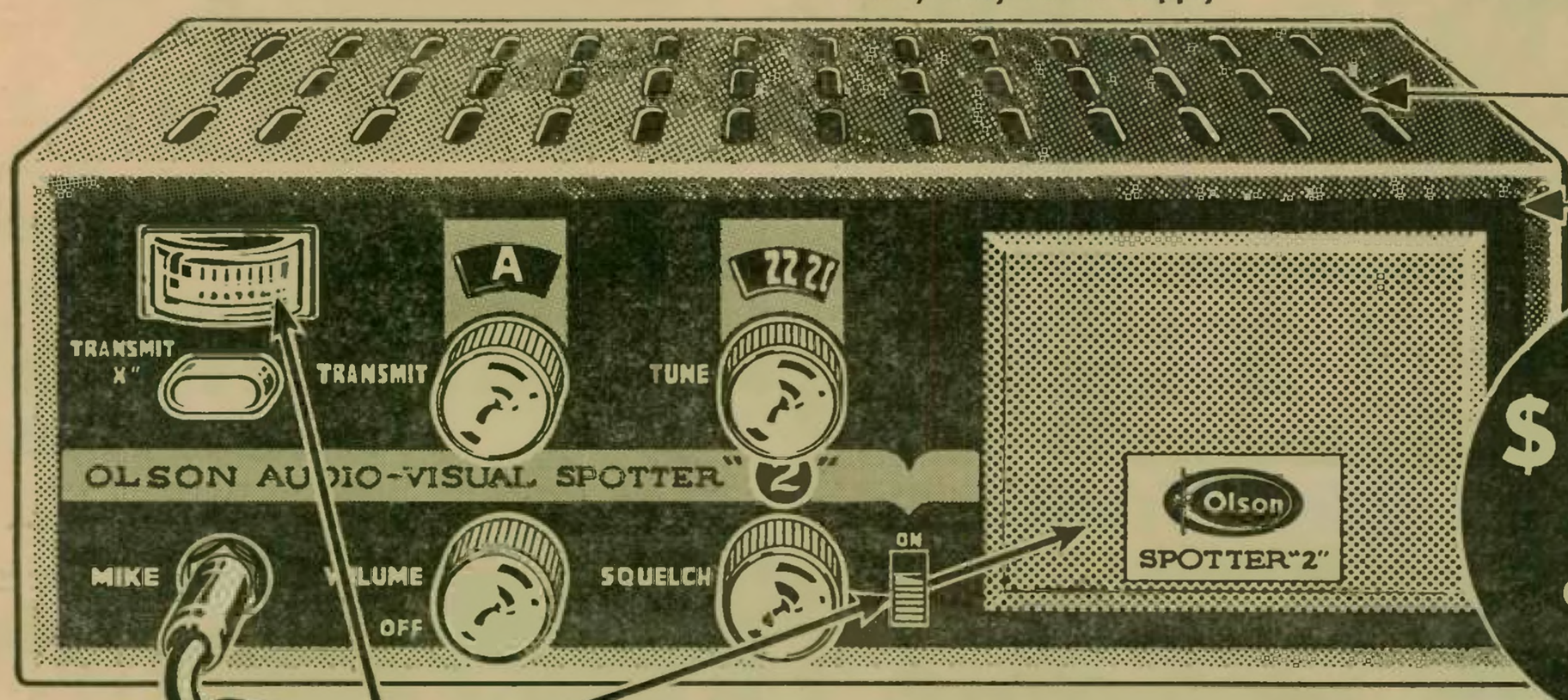



## Olson Audio-Visual "SPOTTER 2" CB TRANSCEIVER

- ★ Increased Output
- ★ Increased Sensitivity
- ★ Increased Selectivity
- ★ Increased Modulation
- ★ TVI Filter Included
- ★ Heavy Duty Power Supply

IMPROVED VENTILATION

GREY & BLACK FINISH - ALUMINUM KNOBS




**No. RA-530**
**$7 MONTHLY**
NO MONEY DOWN
**OLSON PRICE $119.95**



LOOK FOR PEAK

LISTEN FOR TONE PEAK WHEN SPOT SWITCH IS "ON"

**STOP!**
You're On Channel

**MADE IN U.S.A.**

Floyd E. Murray, Miss. State Univ., Mechanical Eng. Dept., State College, Miss., wins choice of merchandise worth $5 from Olson's "Treasure Hunt." See back cover for instructions.

Olson brings you the fabulous NEW "Spotter 2" at no increase in price! Even though the original Spotter met with fantastic success, Olson was not satisfied. Even the best has some room for improvement. Our new "Spotter 2" has been remodeled and restyled to bring you the very latest in circuit design along with styling to rival units selling for several times Olson's low price. OLSON brings you the convenience of variable tuning receiver with the stability of crystal control, utilizing our new audio visual spotter. By using the spotter switch, the receiver can be tuned to the exact frequency of the crystal controlled transmitter. The exact receive channel tuning point is indicated on the "S" meter, as well as an audible tone signal.

Ideal for mobile rigs, where the meter might not be easily viewed. The unit comes equipped with a Turner 350C mike ready to plug in for clear undistorted voice pickup. Full five watts input, with 100% modulation, 3 watts or more output. Built-in power supply provides operation on 110-125 Volts, 6 and 12 Volts DC Selectivity 5 kc. Auxiliary speaker terminal provides for internal and/or external speakers. NINE TUBES and FOUR DIODES offer performance equal to 19 tubes. Variable squelch with positive action. "S" Meter indicates received signal strength and relative modulation indication. Uses standard 3rd overtone type crystal, PL-259 type antenna connector. 110 Volt AC cable included. Unit attractively housed in low silhouette grey and black cabinet 4½" H x 12½" W x 7" D. Shipping weight 14 lbs.

### ACCESSORIES:

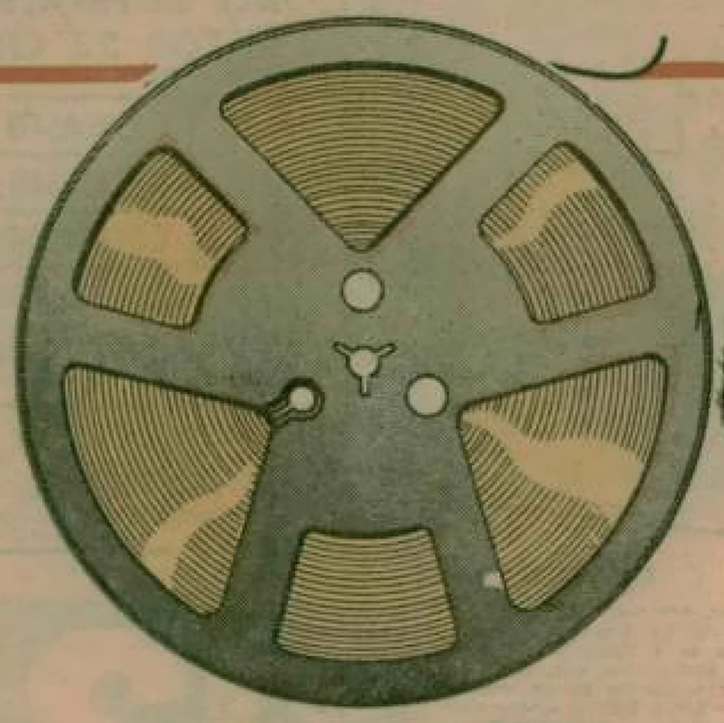
| | |
|---|---|
| 6 or 12 Volt DC Cable, No. W-430 | $2.95 |
| Mobile Mounting Bracket, No. HW-46 | $2.95 |
| TRANSMIT CRYSTALS No. CB-1, 3 for $5.55 (your choice of channel) | ea. $1.99 |

### Check These Features:

- PERFECT 22 CHANNEL TUNING
- Tuneable Receiver with XTAL Spotter
- Dual Conversion Superhet
- 12 Channel XTAL Controlled Transmit
- Built-In "S" Meter-Modulation Indicator
- 19 Tube Performance
- Dual Series Gated Noise Limiter
- .3 of 1 Microvolt for 6 DB Signal To Noise
- With Channel 9 Transmit XTAL
- Front Panel, XTAL MTG For Transmit
- Adjustable Squelch Control
- 110 V AC, 6 and 12 V DC Power Supply Built-In
- Receive Local Oscillator XTAL Controlled
- Illuminated Dial

**Olson Electronics**
AKRON, OHIO

# AMPEX



## 1200 Ft. Mylar Recording Tape

Olson purchased an entire lot of top quality Ampex recording tape and now passes the savings on to you. Features a uniform coating of oxide bonded to a tough mylar base. High signal to noise ratio, low distortion and uniform output. Standard ¼" width for all recorders. Made in U.S.A. Shipping wt. 1 lb.

**99¢** Each, Lots of 10

★ Factory Boxed
★ Brand New
★ 7" Reel

Stock No. TA-75

Lots of 3, Ea. $1.19
Single, Ea. $1.29

• SEE PAGE 5 FOR OTHER TAPE BARGAINS

# JENSEN

## 8" Full Range Speaker

★ Resp., 30-13,000 CPS



No. S-562

**$6** 2 FOR $11.50

★ 8 Ohms, 12 Watts
★ 10-Oz. Magnet

Olson purchased a large inventory of this Jensen Speaker direct from the manufacturer—all are BRAND NEW in factory packaging. Features 10 oz. SYNTOX-5 ceramic magnet and specially formed cone for exceptional transient response and maximum efficiency. Produces clean, smooth, wide range response of 30-13,000 cps. Ideal replacement in radio, TV or phono. Made in U.S.A. Shipping weight 4 lbs.

## 24 HOUR Phone Service

Direct Dial Area Code 216
Akron, Ohio

**Phone: 535-9191**

If you can't phone during the day, you can phone ANYTIME at night and give your order to our night operator. Your order will be shipped the next day!

## TREASURE HUNT

*Look For Your Name—You May*

**WIN $5 IN MERCHANDISE**

Somewhere throughout this catalog are the names of 25 Olson customers. Your name may be there! If it is, write us giving the page number and OLSON will send you FREE from the catalog, $5 worth of merchandise of your choice.

OFFER EXPIRES June 30, 1964

OLSON ELECTRONICS, INC.
260 S. Forge St., Akron, Ohio 44308
RETURN REQUESTED

Catalog 364

BULK RATE
U. S. POSTAGE
**PAID**
AKRON, OHIO
PERMIT No. 240

W MINCK
MILTON IND

96
M

# SALE

## Tymeter Automatic Clock



Reg. $7.99

**$4.99** Plus 50c F.E.T.

Walnut, No. EA-71 ★ Ebony, No. EA-74

Beautiful Super Deluxe Model! Automatic and self-starting. Dials tell hour, ten minute, minute and second. For 110-125 volts AC, 60 cps. Made in U.S.A. Shipping weight 3 lbs.

• See Page 16 For Other Clocks

# SALE

## 9 TRANSISTOR RADIO



**$11.99** No. RA-578

Complete with leather case, earphone, earphone case, telescoping antenna and batteries. Latest superheterodyne circuit with 9 transistors and one diode give superlative selectivity and sensitivity. Operates on 4 standard penlight cells (included). Size 5⅞" W x 3½" H x 1½" D. Shipping weight 5 lbs.

Extra Batteries for above (4 req'd.) No. BA-67.....3 for 59¢

• See Page 8 For Other Radios

# SALE

★ Reduces Maintenance Costs ★

★ Improves Engine Performance ★

## Olson Transistor IGNITION SYSTEM

★ New—Easier Installation
★ Saves Gas, Plugs & Points
★ Insures Quick Starts
★ Eliminates Misfire




★ For 6 & 12 V. Negative Ground Systems

**$16.88** No. AM-243

For quick, easy installation on 6 volt cars with no ballast resistor and 12 volt cars with ceramic ballast resistor mounted in the engine compartment. This system is also recommended for boats, farm and industrial equipment. This advanced type ignition system will save you money in gas and tune-up costs, and most of all, it will give your engine that "just-tuned" performance every day. Features single transistor and heavy duty coil for most efficient operation. Neoprene coated wires resist oils, acids, heat and weather. Shipping weight 5 lbs.

Savoie Radio, M. L. Savoie, 715 E. Hazel St., Alliance, Ind., wins choice of merchandise worth $5 from Olson's "Treasure Hunt." See this page for instructions.

## Brand New! 500 FOOT WIRE ASSORTMENT

*Tremendous Value!*



★ 10—50-Ft. Coils (500 Ft.)
★ 10 Different Types or Sizes
★ A Type for Every Need

No. AS-904
ALL 10 COILS . . . **$2.99** ★

Olson's buying know-how now brings you the most fantastic wire kit ever offered. Ten different types and sizes. A wire for every application. Why hunt further? The kind of wire you want is sure to be in this kit. There's stranded, insulated wire in several sizes. There's multi-conductor wire in different sizes and types of insulation . . . there's even some shielded and some twisted pair. Order two or three of these kits today and never have to look for a special kind of wire again. Shipping weight 7 lbs.

SEE PAGE 23 FOR MORE WIRE VALUES!

# OLSON ELECTRONICS

260 S. FORGE ST.
AKRON, OHIO 44308

WRH

Olson

# SALE

## Everything On This Page Is On...

SALE

Matched
## GRILLE CLOTH

★ 2 Pcs. 11" x 26"



BOTH FOR 88c

- Mahan, No. CA-279
- Blonde, No. CA-278

Ideal for covering two cabinets for your stereo system. You get two pieces 11" x 26" of the same color and pattern. Each piece may be cut in two to cover four 8" wall baffles. Patterns may vary from illustration. Shipping weight ½ lb.

• See Page 14 For More Grille Cloth

SALE

2,000 Ohm
## EARPHONES



★ Tape Recorder
★ Experimental
★ Radio
REG. $1.19

No. PH-8
66c
2 FOR $1



⅜" x ¾" diam. Resp. 50 to 4,000 cycles, 3 ft. cord and plug.

• See Page 10 For More Earphones

SALE

GE—Telechron—International Register
## Automatic TIME SWITCH



REG. $1.99

No. SW-249
$1.49

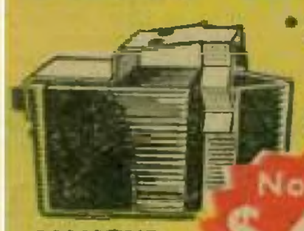
★ 25 AMP. CONTACTS

On-Time is adjustable in intervals of 15 minutes up to 5½ hours. Size of basic timer mechanism is 4½" x 3¼". Size and style of face plate may vary from illustration. Switch contacts are rated at 25 amps at 230 volts. Motor is for 110-125 volts AC 60 cps. Less knobs. Shipping weight 2¼ lbs.

• See Page 32 For More Timers

SALE

Model AG 3400 **Norelco**
## STEREO Cartridge



• Response 20 to 15,000 CPS

REG. $7.99

DIAMOND STYLUS

No. PC-111
$6.99

Equipped with a .7 mil diamond stylus. All mounting hardware is included to mount into any tone arm with standard ½" mounting centers. Response: Within 2 db from 20 to 15,000 cps. Channel separation at 1000 cps is 20 db. Shipping weight ¼ lb.

• See Page 10 For More Cartridges

SALE

## Olson 30 Watt STEREO AMPLIFIER




SOLD FOR $69.95
IN 763 CATALOG

★ Complete With Cover
★ Response: 30-25,000 CPS
★ Stereo Headphone Jack

Handsomely styled and satin finished in gold and contrasting brown. Convenient stereo headphone jack on front panel accepts Olson, Koss or similar stereo headphones. Features inputs for magnetic or ceramic cartridges plus Aux. Tuner and tape. Separate bass and treble controls for each channel provide the greatest flexibility. Specifications: Output: 30 watts, 15 per channel. Frequency Response: ±.05 db, 30 to 25,000 cps. Harmonic Distortion: Less than 1%. Output Impedance: 4, 8 and 16 ohms. Tape Output: High Impedance. Tube Complement: 2—12AX7, 4—6EM8, 1—6CA6. Power Supply: 110-125 Volts, 50/60 cps. Dimensions: 13½" x 10½" x 4½". Shipping Weight: 22 lbs.

$49.97★
No. AM-214

### STEREO SYSTEM "A"

| | |
|---|---|
| 1—Olson Stereo Amp., No. AM-214 (above) | $49.97 |
| 1—PE Stereo Changer, No. RP-250 (pg. 9) | 18.00 |
| 2—Jensen 12" Speakers, No. S-551 (pg. 12) | 17.76 |

No. AS-878 $79.95
TOTAL REG. CATALOG PRICE $85.73
SAVE $5.78

### STEREO SYSTEM "B"

| | |
|---|---|
| 1—Olson Stereo Amp., No. AM-214 (above) | $49.97 |
| 1—KANG Stereo Tuner, No. RA-622 (pg. 19) | 69.99 |
| 1—PE Stereo Changer, No. RP-250 (pg. 9) | 18.00 |
| 2—Jensen 12" Speakers, No. S-551 (pg. 12) | 17.76 |

No. AS-879 $143.95
TOTAL REG. CATALOG PRICE $155.72
SAVE $11.77

### 30 WATT STEREO AMPLIFIER

★ Final Close-Out—Limited Quantity

Response 30-25,000. 15 watts per channel. 16x built-in preamplifiers to accommodate any stereo cartridge. Completely wired and assembled ready to use.

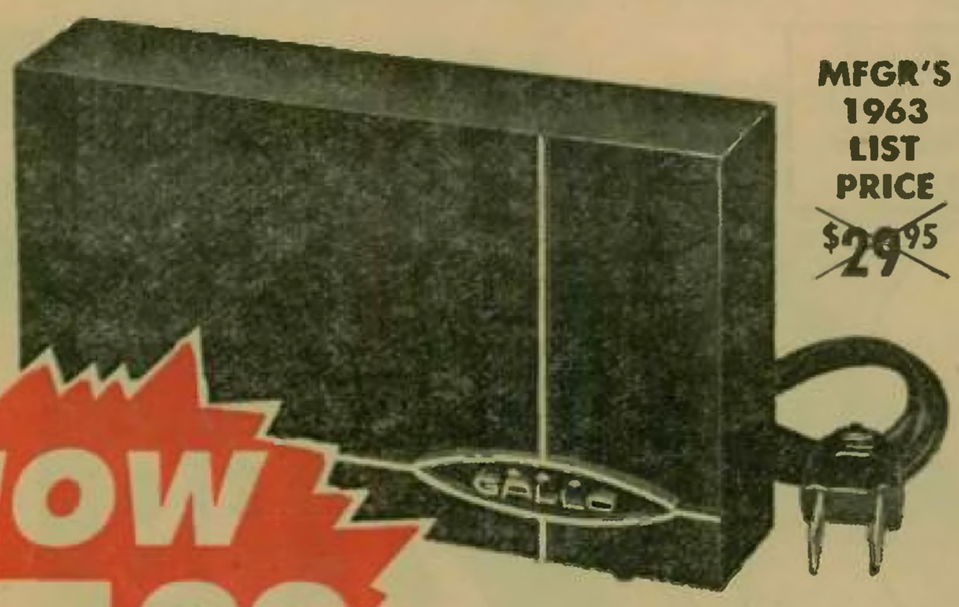
No. AM-138, REGULAR $52.99 NOW $39.99

SALE

## GALLO FMS-101 FM Indoor Antenna System

REGULAR PRICE ~~$14.95~~

MFGR'S 1963 LIST PRICE ~~$29.95~~




NOW $4.99★
No. AA-107

### ★TRANSISTORIZED

The Gallo FMS-101 will give you a high-quality, high-gain signal over the entire FM broadcast band. Just sit back and enjoy better music at its best, even from stations you could never listen to before! The antenna system is compact, handsomely styled, fits into any room decor . . . attaches to your radio or tuner with just a screwdriver. It has an omni-directional antenna, coupled to an all-transistorized preamplifier, all completely enclosed in its sturdy case. Nothing to go wrong, nothing to need replacement ever. Shipping weight 2 lbs.

G. R. Munn, R.D. 2, Athens, Pa., wins choice of merchandise worth $5 from Olson's "Treasure Hunt." See back cover for instructions.

SALE

Portable
## TAPE RECORDER




REGULAR $24.99

No. RA-599
$19.99

★ With Mike Batteries and Tape!

★ See Complete Specs on Page 4

SALE

2 Transistor
## TUNER CHASSIS



REG. ~~$1.99~~
99c
No. RA-586

SAVE $1.00

Completely assembled less transistors and diode. Uses ferrite core antenna for maximum sensitivity. Requires standard 9 volt battery (not included). Shipping weight ¼ lb.

Battery (1 req'd.) No. BA-89 ..... 21c

TRANSISTOR AND DIODE KIT for above. Contains 2 PNP transistors plus one diode for radio chassis No. RA-586 (above).
No. TR-23 ..... 99c

SALE

High Impedance Crystal
## LAPEL MIKE



★ Works on any Amplifier

REGULAR ~~$1.99~~

No. M-93
$1.50

★ 3 Ft. Cable
★ Portable

High impedance crystal. 1⅝" diameter. Output level—50 DB. Response: 50-5,000 cps. 3 ft. shielded cable. Shpg. wt. ¼ lb.

• See Page 21 For More Mikes

SALE

1/20 RPM
## TIMING MOTOR

★ 110-125 Volts AC



REGULAR ~~59c~~

No. MO-88
44c

UL

MADE IN U.S.A.

Ideal for displays and timing devices. Built for continuous use. Shpg. wt. ½ lb.

• See Page 28 For More Motors

Catalog 264, Copyrighted 1964, OLSON ELECTRONICS, INC.

OLSON ELECTRONICS
260 S. FORGE ST.
AKRON, OHIO 44308

WRH




# SALE 40% OFF

## Language TRAINER

- ★ 4-SPEED PHONOGRAPH
- ★ HI-FI HEADPHONES & MICROPHONES
- ★ ATTENTION LANGUAGE LAB. BUYERS
- ★ PLAYS ANY LANGUAGE RECORDS

The Pronuncintor Language Trainer is a complete 4 speed phonograph with headphones and microphone. Designed and built in the U.S.A. by one of the leading manufacturers of Public Address equipment. This ruggedly built unit provides a direct, simplified, economical approach to accelerated language learning. You repeat into the microphone a word or phrase you have heard on the record. Immediately you hear how closely your inflection, accent and rhythm approximate the pronunciation of the recorded speaker. You hear yourself as others hear you because your voice is routed from microphone through amplifier to headphones, over-riding bone conduction perception which does not give a true picture of how you sound. The exclusive "Acro-Set" tone arm lifter gently raises and lowers the phono needle to the record surface by simply twisting a knob. You can pause between words or phrases and return the needle to the exact position without damage to record or needle. Plays all four standard speeds, 16⅔, 33⅓, 45 and 78 r.p.m. In addition, the variable speed control accelerates or decelerates speed to the limits of intelligible reproduction. Thus you can analyze a word syllable by syllable. The crack-proof case is covered with washable, scratch-resistant, fabrikoid with metal-guarded corners. Size: 6¾" x 9¾" x 14¾". 110-125 Volts AC. Shipping weight 16 lbs.

No. RP-254

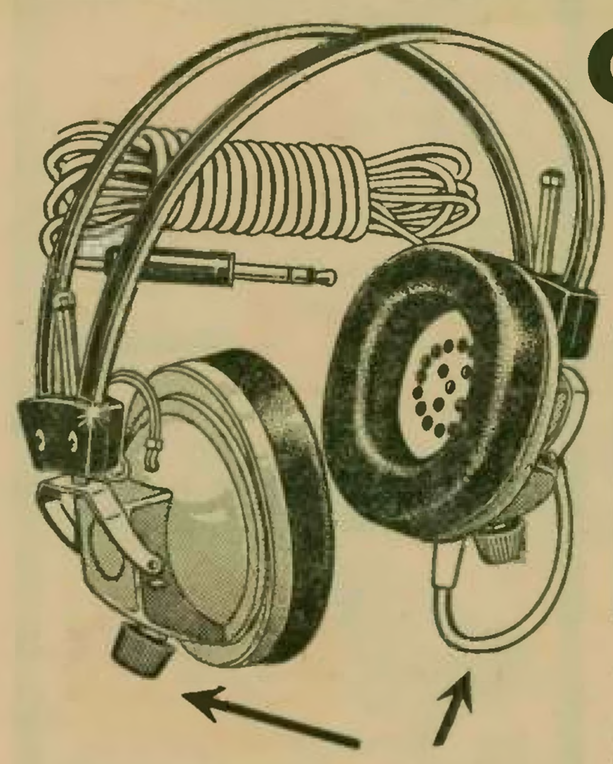
**$29.99**

REG. $49.99

Ideal for the LANGUAGE STUDENT

Same unit as above with 4-speed, fixed speed phono motor.

No. RP-253 ..... NOW! $27



## Olson Stereo HEADPHONE

★ Cushioned for Comfort

**$14.98** No. PH-82

Enjoy your stereo system to the fullest with fidelity and dynamic range not possible with speakers.

Individual volume controls on each phone make balance and volume adjustments easy and convenient. Phones are padded for extra comfort and are equipped with a 7-ft. flexible cord and standard three-circuit plug. Response 30 to 15,000 cps. Inpedance 8 ohms. Shipping weight 5 lbs.

INDIVIDUAL VOLUME CONTROLS



## Koss HEADPHONES

Stereo

*Best Quality On The Market*

★ 'Double Slide' Comfort Adjustment

**$24.95** No. PH-30 Lots of 3, Ea. $21

Includes FREE T-2 Headphone JACK

Response 30 to 15,000 CPS. Provides complete separation of both channels. May be used with any monaural or stereophonic hi-fi equipment. Impedance 4 ohms. Equipped with eight foot cord and stereo plug. Shipping weight 4 lbs.

## STEREO HEADPHONE JUNCTION BOX



Junction box for above headphones with 36" leads has selector switch to select headphones or speakers. Connect to any amplifier. Shipping weight ¼ lb.

No. PH-83 ..... $1.98



25 Ft. Stereo Headphone

## EXTENSION CORD

No. W-447

**$2.29**

3 for $6

Three conductor cable with grey vinyl jacket. ¼" 3 circuit plug on one end, 3 circuit jack on the other end. Shpg. wt. 1 lb.

# Olson Deluxe 2-WAY SPEAKER SYSTEM




**$12** No. AS-844

## ACOUSTIC DAMPER

- ★ Compression Horn Tweeter
- ★ PM Dynamic 12" Woofer
- ★ Crossover Capacitor

Phenomenal bass response, full-bodied mid-range and silky smooth upper octaves are reproduced with unusually pleasing musical balance by this deluxe 2-way speaker system. Exceptionally "clean" bass is achieved by a revolutionary new design in woofer construction. An "acoustic damper," eliminates "booming" and "one-note" bass even in open-back cabinets. Now you can have "clean" bass at any setting of the Bass-Boost or Loudness Controll of your amplifier. Woofer: response 20 to 3,000 cps, 8 ohms, 20 watt power capacity (40 watts peak). 2,000 cps crossover automatically channels upper mid-range and high frequencies to a genuine compression horn tweeter for the utmost in clarity and balance. You will be thoroughly pleased with the thrilling performance of this fine system and amazed that so much performance can be purchased for such a low price. Response: 20 to 18,000 cps. Power capacity: 20 watts (40 watts peak). Size: Woofer: 12" x 5⅞", Tweeter; 4" H x 10½" W x 11½" L. Includes capacitor type crossover. Shipping weight 12 lbs.

### ★ UNITS AVAILABLE SEPARATELY ★

**HORN TWEETER**

★ Resp. 1,000 to 18,000 CPS
★ Shipping Weight 4 lbs.

ORDER No. S-547 **$7.99**



**12" WOOFER**

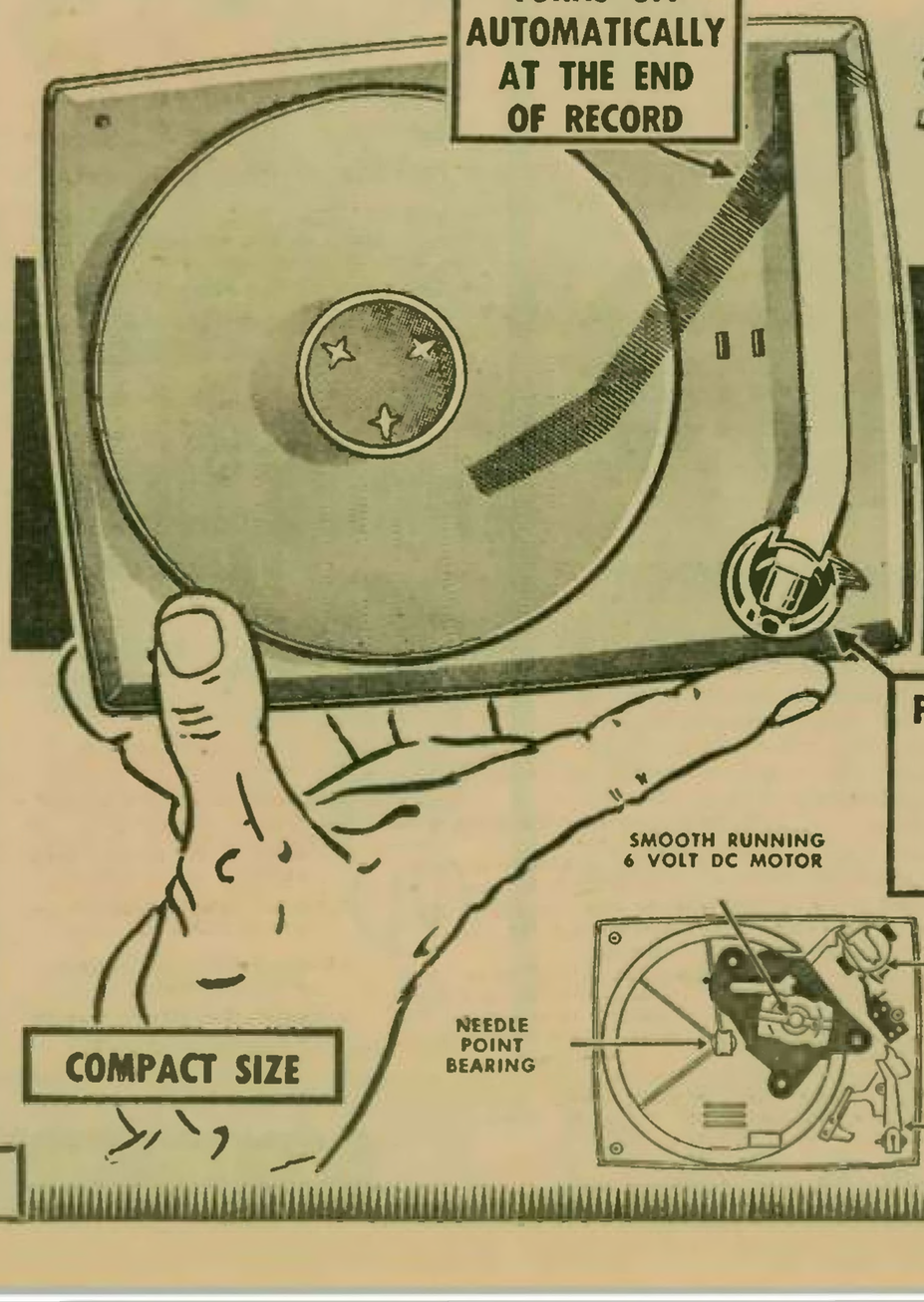
★ Resp. 20 to 3,000 CPS
★ Shipping Weight 8 lbs.

ORDER No. S-574 **$7.99**



Charles C. Bright, R. No. 1, Box 5, Decherd, Tenn., wins choice of merchandise worth $5 from Olson's "Treasure Hunt". See back cover for instructions.

TURNS OFF AUTOMATICALLY AT THE END OF RECORD



MADE IN ENGLAND

# 45 RPM Portable TURNTABLE

No. RP-252

**$4.99**

- ★ 6 VOLT DC MOTOR
- ★ CERAMIC CARTRIDGE
- ★ DUAL LP STYLUS

J. D. Sickles, 2005 Pine St., Pritchard, Ala., wins choice of merchandise worth $5 from Olson's "Treasure Hunt". See back cover for instructions.

The most unusual turntable we have ever offered. Ideal for use in portable or mobile equipment. Motor operates on one 6 volt battery or 4 flashlight batteries in series. It can also be used on 12 volts DC by inserting a 10 watt 100 ohm resistor in series with the motor lead. Plug-in ceramic cartridge is equipped with 2 sapphire needles. When one side wears out you just unplug the cartridge, turn it over and plug back in and you have a brand new needle. To start turntable you flip needle guard back which brings tone arm up to play position, move tone arm to right which turns on power and place the arm on the record. The motor will turn off automatically at the end of the record. Size: 7⅝" W. x 5⅞" D. x 2¾" H. Shipping weight 2 lbs.

PLASTIC DOME PROTECTS CARTRIDGE WHEN NOT IN USE

SMOOTH RUNNING 6 VOLT DC MOTOR

NEEDLE GUARD AND BRUSH

NEEDLE POINT BEARING

AUTOMATIC SHUT-OFF LEVER



COMPACT SIZE

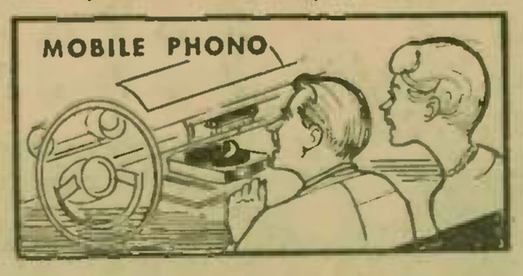
### ★ BUILD YOUR OWN PORTABLE PHONO ★

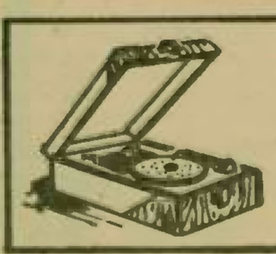



2-Watt All Transistor AMPLIFIER No. AM-218 (page 10) ..... 8.40

6-Volt BATTERY, No. BA-90 ..... 90c

4" PM SPEAKER No. S-564 (Page 12) ..... 99c



Design and build your own portable 45 RPM Phono

. . . A PERFECT KIT PROJECT!

# STUZZI Universal TAPE RECORDER




MEETS EXACTING OLSON QUALITY STANDARDS TO ASSURE GREATER LISTENING PLEASURE

APST PROFESSIONAL TYPE XTERNAL OTOR OTOR



YNAMICALLY ALANCED YWHEEL

DIE-CAST UNIFRAME CONSTRUCTION

The Perfect "ALL-PURPOSE" Tape Recorder

Rugged! Lightweight! Portable!

- ★ Records Sound-On-Sound
- ★ PAPST Professional Type External Rotor Motor
- ★ Rugged Die-Cast Uniframe Construction
- ★ Two Most Popular Speeds: 3¾ and 7½ ips.
- ★ Frequency Response: 80 to 15,000 CPS
- ★ Large Heavy-Duty Elliptical Speaker
- ★ Made in Western Europe

Mfgr's List Price $149.50

Discounted Price was $99.50

## OLSON "BEST BUY"

$8 MONTHLY

No. RA-619

$79.99

NO MONEY DOWN

The Universal recorder is an exceptionally rugged, lightweight, portable machine, with professional features designed to meet the requirements of high quality recording. Completely self-contained, the Universal provides facilities for recording either from microphone or phono at 3¾ or 7½ ips. Unique professional features such as the die-cast frame construction, the external-rotor type motor and the dynamically balanced flywheel provide exceptional mechanical stability. Combined with a superior electronic recording and playback system, these features guarantee highest fidelity. Built-in public address system permits monitoring while recordings are being made, with an independent volume control for loudspeaker or headphone listening. Accepts all standard size reels up to 7" diameter. Two-track record and playback head doubles recording time. Sound-On-Sound facility permits adding one recording to another, without erasing the original recording. All metal case has high-impack plastic cover, in two-tone beige. Size: 13" x 10½" x 6". For 110-125 volts AC, 60cps. Less microphone. Shipping weight 19 lbs.

LEATHER CARRYING CASE for Stuzzi Tape Recorder
No. CA-302 ..... $9.99

ELECTRO VOICE CERAMIC MICROPHONE
No. M-178 ..... $4.99

### Sonora Timer–ALARM CLOCK

- ★ Dependable Telechron Movement
- ★ Controlled Outlet



...n be used as ...r only or timer ... alarm. Has 60 ... timer for ...matic shut-off ...adio or appli... Appliance ... come back on ...g pre-set time ...h or without ... For 110-125 ... AC, 60 cps. ...g. wt. 3 lbs.

No. X-901

ONLY $8.80

Plus 10% F.E.T.

...ernor Bros., RR 1, Quincy, Ind., wins ...ce of merchandise worth $5 from ...n's "Treasure Hunt." See back cover ...instructions.

### Sonora–Telechron Timer–ALARM CLOCK

- ★ Beautiful Walnut Cabinet
- ★ Luminous Hands



Deluxe timer switch handles up to 1000 watts. Has 60 minute timer which shuts off automatically at the end of time cycle. Timer can also be set to turn on appliance or radio at any pre-set time. Can be used with or without built in alarm. Beautiful handrubbed oiled walnut cabinet. Size: 4⅝" x 4⅜" x 2½". 110-125 v. AC, 60 cps. Shipping weight 3 lbs.

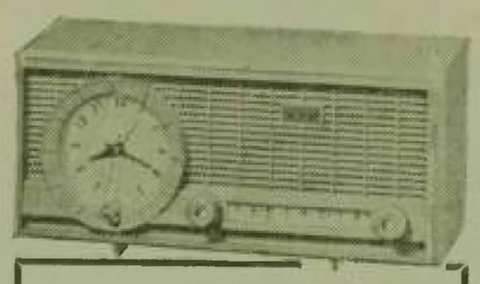
No. X-930

ONLY $11.95

Plus 10% F.E.T.

### Traylor CLOCK RADIO

- ★ "Quick Tune" Slide Rule Dial
- ★ Alnico V Speaker



No. RA-597 ONLY $14.99

Why wake up to a jangling alarm clock? Instead, wake up gently to your favorite music. Powerful superheterodyne circuit for unmatched sensitivity. "Quick-Tune" slide-rule vernier dial provides easy accurate tuning. Improved automatic volume control circuit insures steady, clear tone. Features built-in precision loop antenna for stronger pickup. Genuine Telechron clock automatically turns on radio at preset time. Beautiful, slim-line styled cabinet. Size: 5⅝" H. x 12⅝" W. x 6" D. For 110-125 volts A.C. 60 cps. Shipping weight 5 lbs.

### BELL-O-MATIC TAPE RECORDER

- ★ 2-SPEED
- ★ Microphone Included
- ★ Handles Tape Cartridges
- ★ Handles Reels
- ★ Records Up To 2 Hours
- ★ Factory Sealed Cartons
- ★ Automatic Shut-Off

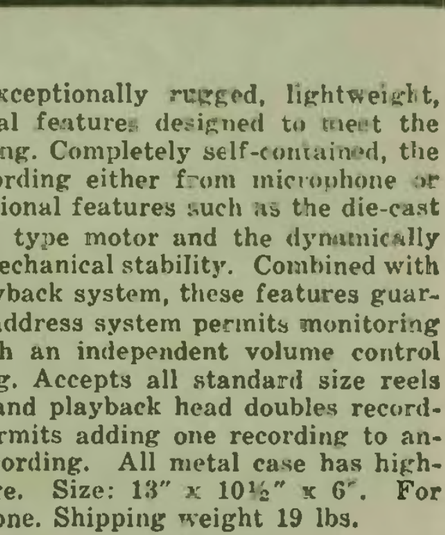
Brand new, latest model 601 Bell-O-Matic recorder plays and records from your favorite records, off the air or make your own live recordings. Uses the latest, most popular tape cartridge now available from all major tape brands. Each blank cartridge contains 600 ft. of recording tape, enough for two full hours of recording. Bell-O-Matic has fast forward and fast rewind plus automatic shut-off that turns off the entire machine. Recorder is complete with a hermetically sealed crystal microphone. Case is made of durable brushed aluminum. Size 8½H x 10½W x 10½D. Freq. Response 50—12,000 cps. Speeds 3¾ and 1⅞. Shpg. wt. 20 lbs. For 110-125 Volt AC.

ACCESSORIES:

| | | |
|---|---|---|
| 3" EMPTY Reels | No. TA-124 | .30 |
| 3" Reels Loaded | No. TA-123 | .98 |
| Blank Tape Cartridge | No. TA-22 | $2.97 |

MODEL 601

MADE IN U. S. A.



No. RA-621

$75

$8 MONTHLY

### BELL-O-MATIC 4-TRACK STEREO TAPE CARTRIDGE RECORDER Model 603

Similar to above but records stereo and plays stereo. With two microphones, two speakers (one in detachable lid) and pre-recorded tape cartridge.

No. RA-620, $9 MONTHLY ..... $88.88

### BLANK TAPE CARTRIDGE

Loaded with 600 ft. 3M No. 150 Mylar.
No. TA-22, $2.97




## 4-Track PRE-RECORDED STEREO CARTRIDGES

Famous Mfgrs.

- ★ BEL CANTO
- ★ MERCURY
- ★ LIBERTY
- ★ PHILIPS
- ★ DOT

YOUR CHOICE $3.99

3 FOR $11

Mfgr's 1962 List Price Up To $9.95

KST-20 AROUND THE WORLD IN 80 DAYS
KST-63 SOUL OF SPAIN—Volume 1, 101 Strings
KST—111 HAPPY MOODS—Jamal
KST-130 EXODUS—101 Strings
KST-131 CAMELOT—101 Strings
KST-133 EXODUS TO JAZZ—Eddie Harris
KST-134 AHMAD JAMAL'S ALHAMBRA—Ahmad Jamal
KST-172 LET'S DO THE TWIST
KDST-25136 BLUE HAWAII—Billy Vaughn
KDST-25068 HYMNS WE LOVE—Pat Boone
KDST-25256 ON STAGE—Louis Prima & Keely Smith
KDST-25274 STRICTLY FOR DANCING—Lawrence Welk
KDST-25276 THEME FROM A SUMMER PLACE—B. Vaughn
KDST-25396 BERLIN MELODY—Billy Vaughn
KDST-TPI MILLS BROS. GREATEST HITS—(Twin-Pack)

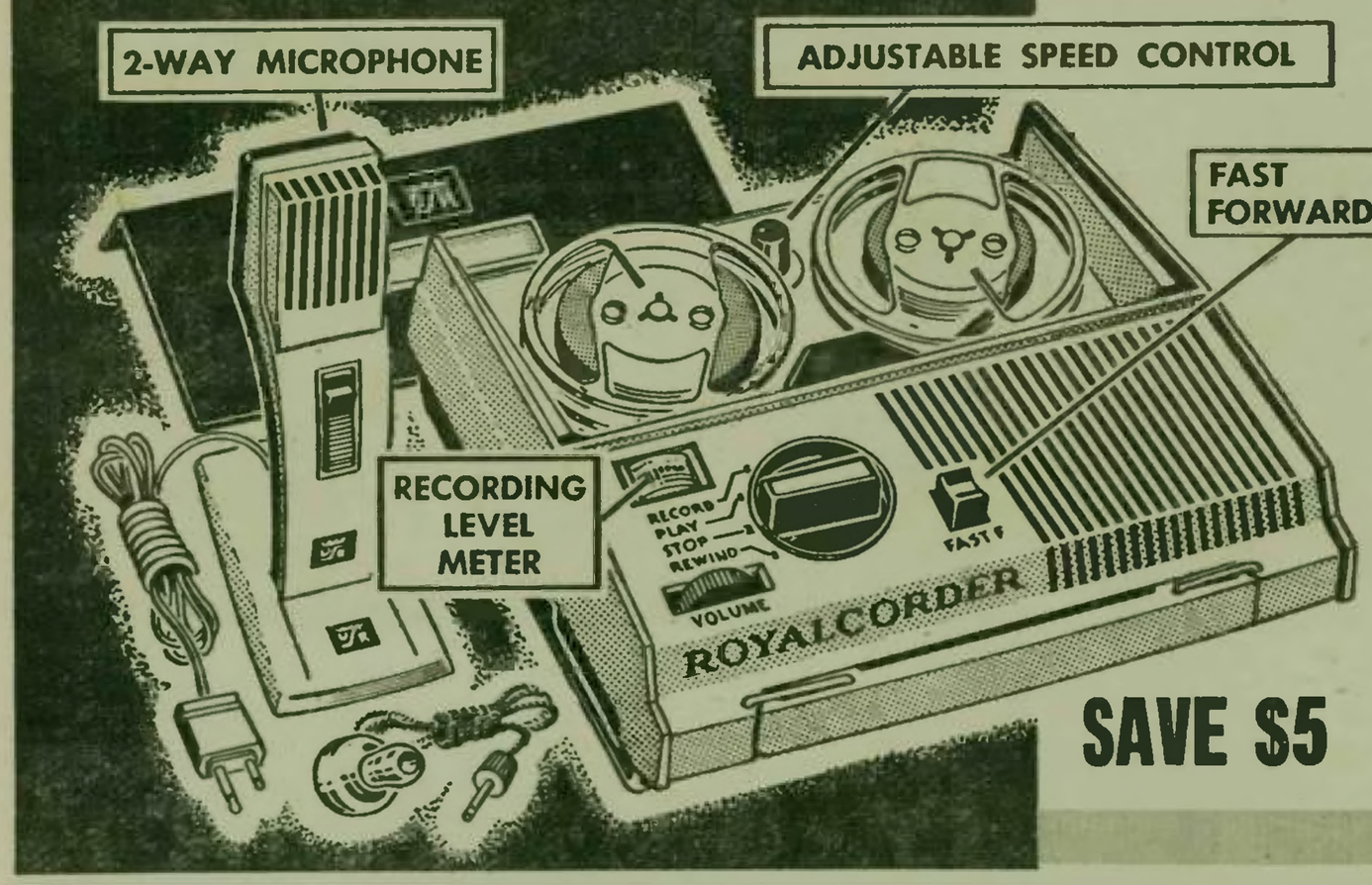
KPT-600-000 BROADWAY IS MY BEAT—Michael Legrand
KPT-600-011 FRANCIS DAY'S LATIN BEAT
KPT-900-080 LISZT—Richter
KLT-6601 THE BEST OF JULIE—Julie London
KLT-7149 ROAR ALONG WITH THE SINGING 20's—The Johnny Mann Singers
KLT-7158 SILVER SCREEN—Martin Denny
KLT-7163 EXOTIC SOUNDS VISIT BROADWAY—Martin Denny
KLT-7164 AROUND MIDNIGHT—Julie London
KLT-14001 PARADISE FOUND—Felix Slatkin & Orch.
KLT-14005 50 GUITARS SOUTH OF THE BORDER—Tommy Garrett
KLT-14009 GREAT BAND WITH GREAT VOICES—Si Zentner Band, J. Mann Singers
ST-60068 OLDIES BUT GOODIES—Griff Williams

KLT-14017 GREAT BAND WITH GREAT VOICES—VOL. II—Si Zentner Orch. and J. Mann Singers
KLT-14019 INSPIRED THEMES—Felix Slatkin
KST-6000 LATIN PERCUSSION—David Carroll
KST-6012 THE EXCITING SONGS Cicbanoff Strings & Percussion
KST-60009 NIGHT TRAIN—Buddy Morrow
KST-60038 VAUGHAN & VIOLINS—Sarah Vaughan
KST-60153 IN THE MOOD—Eddie Layton & Dick Contino
KST-60162 MORE SONGS FROM GREAT FILMS—Clabanoff
KST-60610 MELIS ON BROADWAY—Jose Melis
KST-60649 LET'S DANCE, DANCE, DANCE—David Carroll & His Orchestra

Claude Wilkins, 21 Elm Plain, Windsor Locks, Conn., wins choice of merchandise worth $5 from Olson's "Treasure Hunt." See back cover for instructions.

# SALE

## ROYALCORDER Portable TAPE RECORDER




**$19.99** REGULAR $24.99

No. RA-599

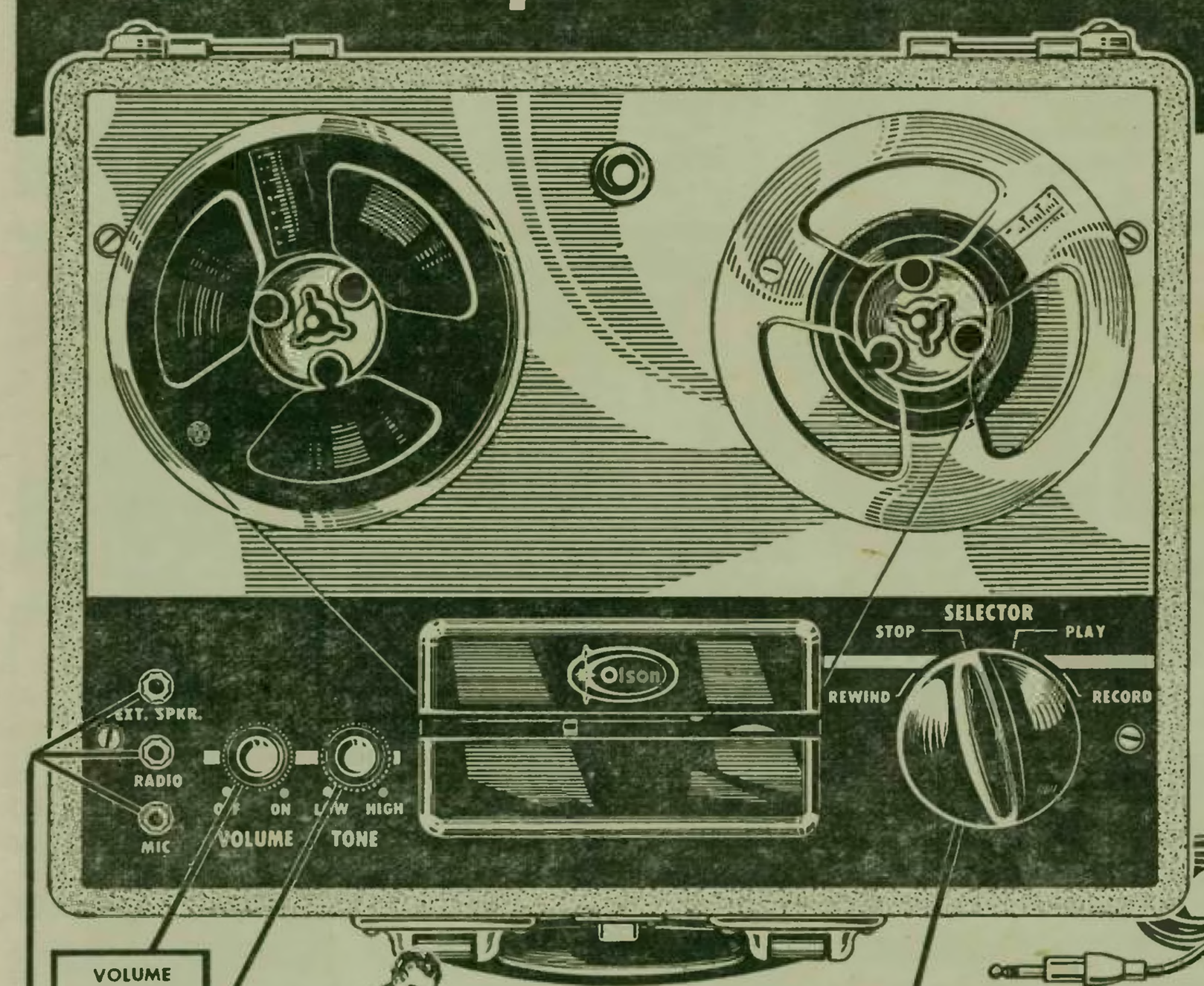
SAVE $5

Up to one hour recording time with new long play 600 ft. tapes. This is one of the most versatile portable recorders ever offered at such a low price. Accepts up to 5" inch reels. Dual track head permits two-track recording which doubles recording time. New "Hand 'N Stand" two-way mike stands on desk or you can use it as a hand mike. Push button switch on mike starts and stops recorder . . . ideal for dictation. Single switch makes operating this recorder as easy as turning on a radio. 5 transistor amplifier and 2½ inch PM speaker produce loud clear tones. Speed control adjusts speed as batteries become weak. Recording level meter indicates proper recording level for best fidelity. This meter also measures battery voltage when function switch is in play back position. Recorder also has a monitor jack and an earphone for monitoring tapes as you record. A jack is provided for an external speaker if desired. This excellent recorder comes complete with: batteries, earphone, mike, empty reel and a roll of tape. Shipping weight 6 lbs.

**EXTRA BATTERIES:**

| | |
|---|---|
| BA-67 (6 req'd.) | 8 for 59c |
| BA-41 (4 req'd.) | ea. 13c |
| Extra Tape, No. TA-107 | $1.19 |

## Olson 2 Speed-Dual Track TAPE RECORDER

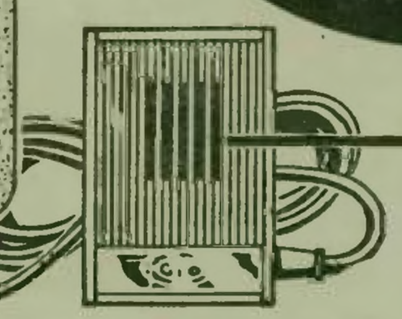



FULL SIZE . . . not a "compact"!

No. AM-232

**$54.98** 2 FOR $105

$7 MONTHLY



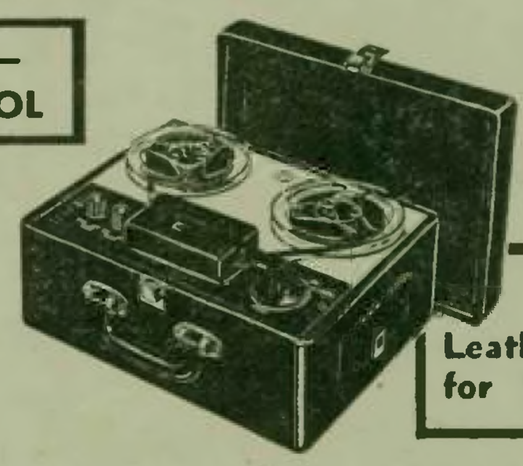
Complete With CRYSTAL Microphone

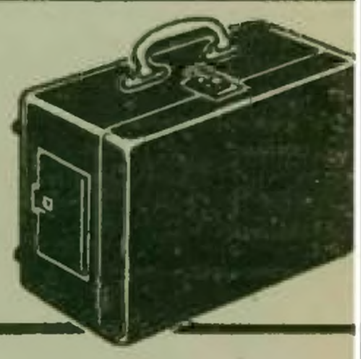


"World's Easiest To Operate!"

Easy To Operate— ONE KNOB CONTROL

"MAGIC EYE" Record Level Indicator

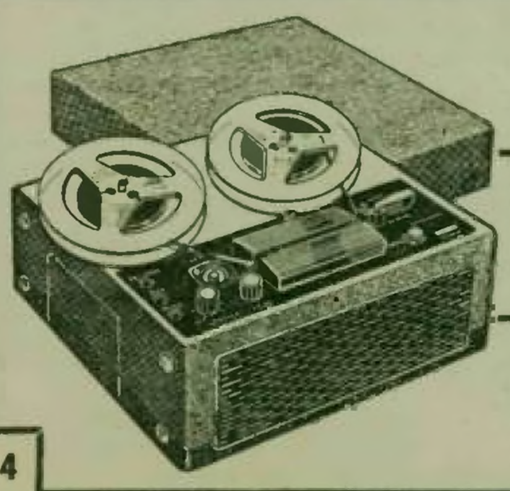




Handsome Brown Leatherette Carrying Case for Lasting Good Looks

## Dual Speed TAPE RECORDER

★ Equipped with New "Sing-A-Long" Feature



**$69.98** No. AM-233 — 2 FOR $130

★ Magic Eye Level Indicator
★ Response 50 - 15,000 cps

The new De-Luxe Olson tape recorder is designed to record and play high fidelity tapes and is equipped with a new "Sing-a-Long" feature which enables you to sing along with prerecorded tapes. Simply plug mike (included) into special sing-a-long jack and adjust volume control. Your voice is electronically mixed with the sound coming from the tape. Then both the pre-recorded sound and your voice come through the loudspeaker. Recorder uses all standard size reels including 7". Tape speeds are 3¾ and 7½ IPS. Magic eye recording level indicator assures sharp clear recordings. Response: 50-15,000 CPS. Recorder is complete with microphone and patchcoard plus complete instruction book. Size: 14½ x 11¼ x 6¼ for 110-125 volts AC 60 CPS. Shipping weight 26 lbs.

★ Uses 3", 5" and 7" Reels

High fidelity recording and playback at a budget price. This qua recorder operates at two standard speeds 3¾ IPS and 7½ IPS. faster speed gives greater fidelity for recording music. Speed cha is quick and positive, simply remove capstan sleeve and store on provided. Tone control permits adjustments of playback tone to your listening taste. Has external speaker jack for the connectio a larger speaker or headphones if desired. A highly sensitive cry mike and a recording patch cord are included along with an em take-up reel. Proper recording level is indicated on a magic eye indicator. Handsome luggage type case comes in brown leather Size 13½" x 10" x 7". 110-125 volts AC. Shipping weight 21 lbs.

Richard Baisac, P. O. Box 23, Aiea, Oahu, Hawaii, wins choice of merch worth $5 from Olson's "Treasure Hunt." See back cover for instructions.




# 750 FT. RECORDING TAPE

3 3" REELS OF ACETATE TAPE

No. TA-107
ALL 3 FOR
**$1.19**

Three reels of high quality, 1 mil, acetate recording tape. Each in its own mailing box. Ideal for tape letters or dictation. Standard 3" reel fits most miniature and battery operated recorders. Ship. wt. ½ lb.

3 SELF-MAILING TAPE BOXES

# SALE

## Transistorized Portable TAPE RECORDER




SAVE $10

REGULAR $59.98

**$49.98**

No. RA-594

★ Capstan Drive
★ Ideal for Dictation
★ Two Speeds: 1⅞ & 3¾

This all new transistor tape recorder features capstan drive for constant speed. Two standard speeds, 1⅞ and 3¾ IPS are selected by removing a sleeve on the capstan. Tapes recorded on this machine may be played back on any other tape recorder having the same standard speeds. Dual track record playback head gives double the recording time. Push button on microphone starts and stops machine . . . ideal for dictation. Safety interlock button prevents accidental erasure of recorded tapes. Proper recording level is indicated by a level meter to assure the utmost in clarity. Uses popular 5-inch reels. Operates on 6 standard penlight batteries (included) for greatest economy. Includes mike, batteries, earphone, tape and reel. Size: 7⅝" x 2⅝". Shipping weight 6 lbs.

Extra Batteries (6 req'd.) No. BA-67 ..... 8 for 59c




# RECORDING TAPE

MADE IN U.S.A.

Made by one of the leading Tape Manufacturers, individually boxed. For use in all tape recorders. Each is on a 7" reel and may have splices. Shpg. wt. ¾ lb.

**1800 Ft. ACETATE No. X-670**
Lots of 3 to 95, Ea. $1.33
Lots of 96 or more, Ea. $1.25
EACH **$1.73**

**2400 Ft. MYLAR No. X-740**
Lots of 96 or more, ea. $2.50
No. X-740 ..... EACH **$2.99**

William Linkow, 3561 Normandy Road, Shaker Hts., Ohio wins choice of merchandise worth $5 from Olson's "Treasure Hunt." See back page for instructions.

**200 FT. ACETATE**
**99c** No. X-673 EACH
Reg. $1.33 in 862 Cat.

# Scotch

## SCOTCH RECORDING TAPE

No. 120 HIGH OUTPUT—Replaces 111A at no additional cost, gives higher signal, less noise.

No. 190 EXTRA PLAY—Gives 50% more recording time from standard reel, 1 mil plastic base.

No. 150 EXTRA PLAY—1800', supersensitive, high potency oxide, on polyester mylar backing.

SAVE—ORDER BY THE DOZEN

| STOCK NO. | MFG. TYPE | SIZE | DIAM. | LOTS OF 1 - 11 EA. | LOTS OF 12 OR MORE |
|---|---|---|---|---|---|
| TA-13 | 120-6 | 600' | 5" | $1.47 | $1.32 |
| TA-14 | 120-12 | 1200' | 7" | 2.29 | 2.06 |
| X-468 | 190-18 | 1800' | 7" | 3.60 | 3.23 |
| X-707 | 150-18 | 1800' | 7" | 4.05 | 3.65 |

## RECORDING TAPE

MADE IN U.S.A.

Finest mirror polished red oxide bonded to strong base. Response 50-15,000 cps. High Signal to noise ratio, low distortion and uniform output. Standard ¼" width on 7" reel for all recorders. Boxed. Shipping weight ¾ lb.

| k | Backing | Footage | Reel Size | 1 - 5 | 6 - 11 | 12 - 95 | 96 or more |
|---|---|---|---|---|---|---|---|
| 9 | Acetate | 1200 Ft. | 7" | $1.99 Ea. | $1.69 Ea. | $1.49 Ea. | $1.30 Ea. |
| 3 | Acetate | 1800 Ft. | 7" | 2.69 Ea. | 2.39 Ea. | 2.25 Ea. | 1.85 Ea. |
| 2 | Mylar | 2400 Ft. | 7" | 3.99 Ea. | 3.79 Ea. | 3.69 Ea. | 3.00 Ea. |

## AMERICAN e Length Recording Tape

★ A Full Day of Recording Time at 1⅞ IPS
★ 3600 Feet

Extra-play, extra-strength 3600' of Tensilized mylar base recording tape on standard 7" reel. Gives three times the playing time of standard 1½ mil tape. Super strong tensilized mylar prevents breakage, lasts extra long. Shipping weight ¾ lb.

TA-109 .95 more $6.57

## PROFESSIONAL LENGTH TAPE

ft. of tensilized mylar tape on a d 7" reel. Shipping weight ¾ lb.
116 ..... **$5.70**

## DICTAPE

Ideal for all miniature and battery operated tape recorders and dictating machines, except those using a custom reel. Packed in self mailer cartons. Shipping weight ¼ lb.

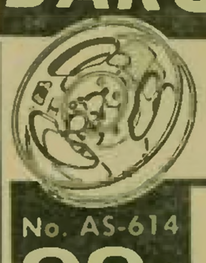
| lacking | Ft. | Reel Size | Lots of 1 - 9 | Lots of 10 or more |
|---|---|---|---|---|
| Dupont Mylar | 225' | 3" | 63c Ea. | 55c Ea. |
| Mylar | 300' | 3" | 69c Ea. | 64c Ea. |
| Mylar | 600' | 3¼" | 1.35 Ea. | 1.20 Ea. |

## PE HEAD DEMAGNETIZER

Just connect to 117 volts AC and move tip against tape head. Removes head magnetism and protects tapes from partial erasures or noise insertions. Shipping weight 1 lb.

248, 3 for $9.40 ..... ea. **$3.19**

# BARGAINS!



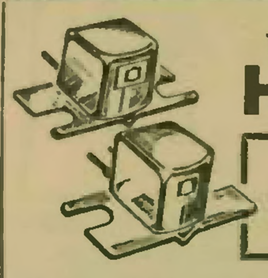
Empty Plastic REELS

No. AS-614
**99c**
4 For $3.50

3" REELS
★ Kit of 5
Fits all miniature and standard tape recorders.

MORE REEL BARGAINS!

| Stock No. | Size Reel | Lots of 1 - 9 | Lots of 10 - 99 | 100 or MORE |
|---|---|---|---|---|
| X-250 | 5" | 29c Ea. | 25c Ea. | 20c Ea. |
| X-251 | 7" | 45c Ea. | 35c Ea. | 25c Ea. |



Tape Recorder HEADS

No. TA-111
**$4.45**

★ Record/Play & Erase
★ Instructions & Hardware Incl.

A two-piece set consisting of one record/playback and erase head. Mounting centers: ¾" to 1" with bracket. Has ¼" mtg. centers on bottom of head. Specifications: Record/Play; ½ track, DC Res. 660 ohms, Impedance 3500 ohms. Bias Current 0.2 ma. Erase: 320 ohms. Erase current 4 ma. Shipping weight ½ lb.

## Mayfair Transistor TAPE RECORDER

★ 2-Speed 3¾ I.P.S. and 7½ I.P.S.
★ Capstan Drive
★ Dual Track



No. RA-607
2 for $86
**$44.98**

The first high-fidelity, battery operated recorder at a moderate price. Records and plays at 7½ and 3¾ I.P.S. Fast speed (7½ I.P.S.) is ideal for recording music. Uses standard 5" reel. Push buttons make recording and playback foolproof. Record interlock switch prevents accidental erasure of tapes. Handsome luggage type leather case has metal trim and corner guards. Five transistor circuit and 2¾" speaker deliver maximum volume and clear tone. Complete with: batteries, earphone, microphone, 5" reel of tape, empty reel and instruction manual. Size: 8" x 11" x 3⅞". Shipping weight 9 lbs.

Extra Batteries:
BA-53, 3 req'd (1½ volt) ..... ea. 13c
BA-89, 1 req'd (9 volt) ..... 21c

## TAPE ERASER

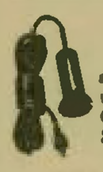
★ Erase reel of tape instantly



No. TA-8
**$11.91**
3 for $35

Quickly and efficiently erases your recording tape to provide better, noise free recordings. Lowers signal-to-noise ratio and erases tape fully, without having to rewind on tape recorder. Can also demagnetize record and playback heads. For 110-125 volts A. C. Size: 4½" dia. Shipping weight 6 lbs.

## Telephone Pickup



Record or amplify both sides of a telephone conversation. No connection to telephone necessary. Has 6 ft. shielded lead 6⅝" dia. x 2". Shipping weight ¼ lb.

No. M-133, 3 for $5.50 ..... Ea. **1.89**

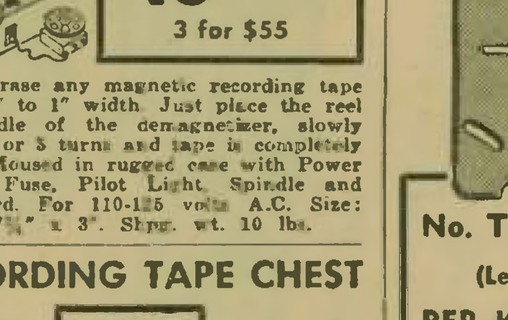
## Flat Telephone Pickup



Place under phone to hear both sides of telephone conversation. Connects to magnetic input of any amplifier or tape recorder. Size: 3½"x1½"x⅛". Shipping weight ¼ lb.

No. M-143 ..... **1.79**

# Bib Recording Tape SPLICER



- Steel Construction
- Made in England
- Precision Made
- Flock Covered Wood Base

No. TA-117
**$2.49**

Made in England of the finest quality materials to give many years of trouble free use. Produces speedy, high quality splices with minimum effort. Convenient snap-tight clips hold tape firmly in place and perfectly aligned for strong noise-free splices. Cutting block has permanent guides for accurate trimming of splicing tape. All metal cutters and holder are mounted on wood base with heavy felt flocking, will not scratch or mar fine wood finishes. Size: 4⅝" x 1⅝" x 1". Shipping weight ¼ lb.

## Bulk Tape ERASER

★For 3", 5", 7" or 10½" Reels



$18.95 No. TA-7
3 for $55

Will erase any magnetic recording tape from ¼" to 1" width. Just place the reel on spindle of the demagnetizer, slowly rotate 2 or 3 turns and tape is completely erased. Housed in rugged case with Power Switch, Fuse, Pilot Light, Spindle and A.C. cord. For 110-125 volts A.C. Size: 6½" x 7¾" x 3". Shpg. wt. 10 lbs.

## RECORDING TAPE CHEST



No. X-547
**$2.99**

Holds 12-7" reels or cans. All steel, grey enamel. Double safety catch, folding handle. Shpg. wt. 4¾ lbs.

## 7" Tape Storage Can

Made in U.S.A.



Steel construction blue hammertone enamel. Shipping weight ½ lb.

No. X-546
3 for $1.00, 12 lot, ea. 30c ..... Ea. **39c**

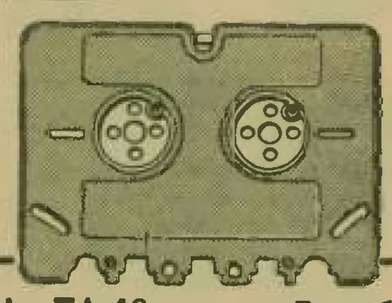
## RECORDER PATCH CORD



Record from Radio, TV or Phono. With pin plug, adapter & 2 clips, 6' long. Shipping weight ¼ lb.

No. W-269, 3 for 2.00 ..... Ea. **69c**

## TAPE Cartridge KIT



No. TA-48
(Less Tape)
**$1**
PER KIT . . .

Write for special large quantity prices

| 4 KITS plus 2400 FT. MYLAR TAPE | No. AS-734 |
|---|---|
| Shpg. wt. 3 lbs. | $5.91 |

NOW! Assemble your own tape cartridge in minutes—and save. All mechanical parts and materials to make a standard tape cartridge. Cartridge fits all standard cartridge recorders such as Viking, RCA, Bell and others. Complete with easy to follow instructions. Shipping weight ¼ lb.

Pre-Recorded
## TAPE CARTRIDGES

Mfgr's '63 List Price $9.95 Ea.
NOW **$3.99** EACH
★ SEE PAGE 3

# Greatest Olson Stereo Units EVER!

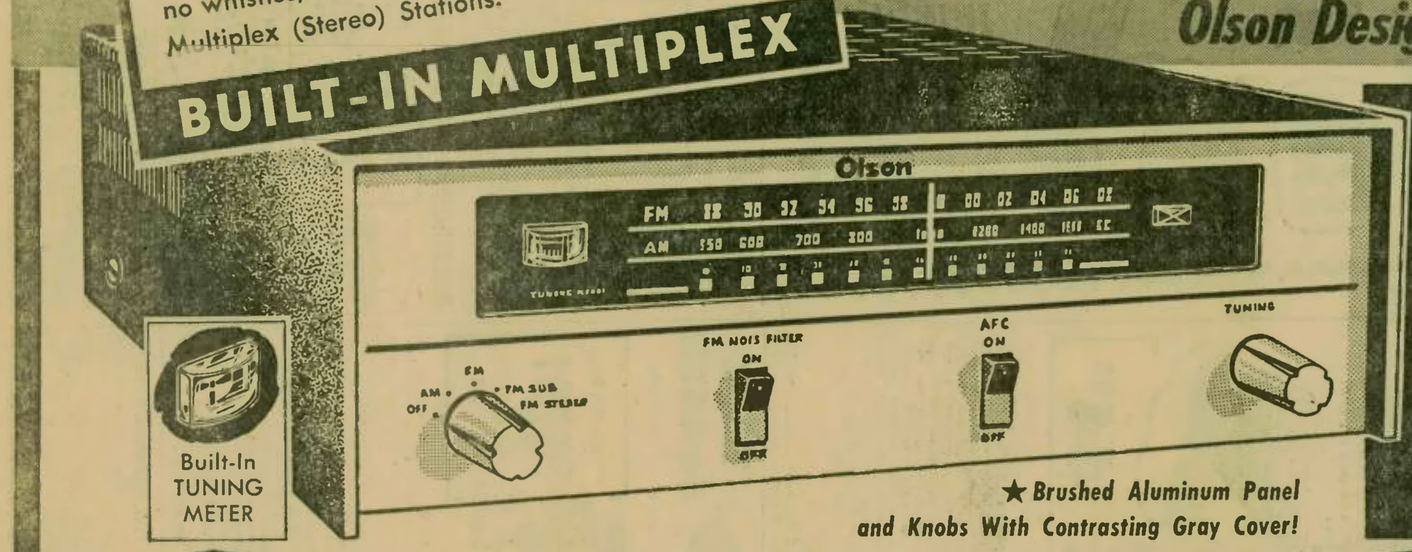
**Olson EXCLUSIVE**

**OLSON Exclusive Stereo Station Selector.** No lights, no whistles, no fumbles. Turn on switch, tune only Multiplex (Stereo) Stations.

**BUILT-IN MULTIPLEX**

## Olson *Classic* FM-AM-FM Stereo Tuner

***Olson Designed-Olson Built...BUY WITH CONFIDENCE!***



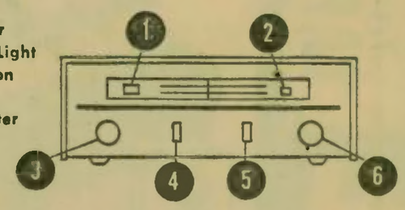

★ *Brushed Aluminum Panel and Knobs With Contrasting Gray Cover!*

**No. RA-580**

**$79.98** COMPLETE WITH COVER

**$8 MONTHLY**

1—Tuning Meter
2—Stereo Pilot Light
3—Stereo Station Selector
4—FM Noise Filter
5—AFC
6—Tuning



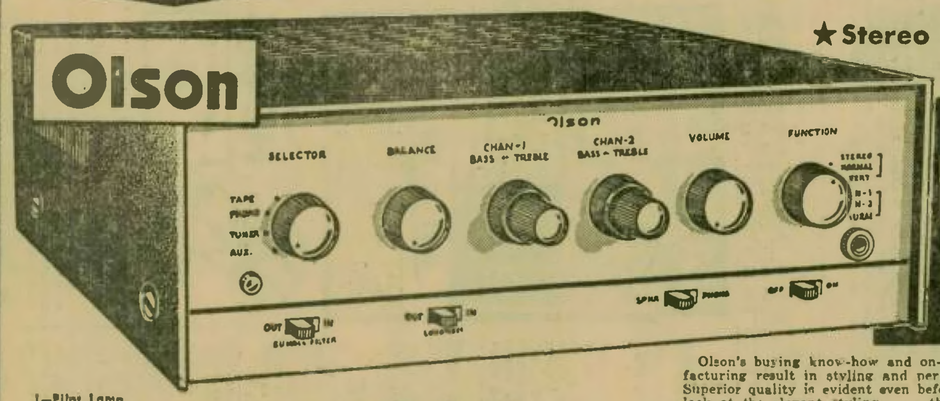
Stereo station selector lets you select only those stations that are broadcasting stereo. No more guess work, no lights, no meters to watch. Just turn to "FM-SUB" and tune across the dial . . . Only stereo stations will be heard. An excellent multiplex circuit has been incorporated into the design in order to make possible the finest reception of FM Multiplex Stereo Broadcasts. Also receives standard FM and AM broadcasts with utmost clarity. Truly effective AFC locks in even the most difficult stations. FM noise filter eliminates hum and noise caused by reflected radio waves. Specifications: Sensitivity: 2uv. for 20 db signal to noise ratio. FM, IF Band Width: 200 KC. Response: FM, 20-20,000 cps. Image Rejection: better than 40 db. Ferrite loopstick antenna for AM. Tubes: 1-6AL5, 3-6AU6, 1-6X4, 2-6BA6, 1-12AT7, 1-6BE6, 1-6BN8, 1-12AU7 and one 6R-HH2. Size: 14¾" W. x 10⅝" D. x 5⅝" H. with legs. For 110-125 volts AC, 60 cps. Shipping weight 18 lbs.

John B. Hursh, 34 Woodland, Pittsford, N. Y., wins choice of merchandise worth $5 from Olson's "Treasure Hunt." See back cover for instructions.

**No. AS-861 BOTH FOR $142**

## "Classic" 30 Watt Stereo Amplifier

★ Stereo Headphone Jack
★ Resp: 30-25,000 CPS

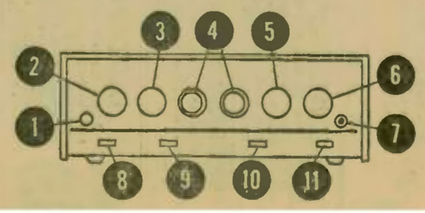



**No. AM-229**

**$69.98** WITH COVER

**$7 MONTHLY**

1—Pilot Lamp
2—Input Selector
3—Balance
4—Tone
5—Volume
6—Mode Selector
7—Stereo Headphone Jack
8—Rumple Filter
9—Loudness
10—Speaker—Earphone Selector
11—Power OFF-ON



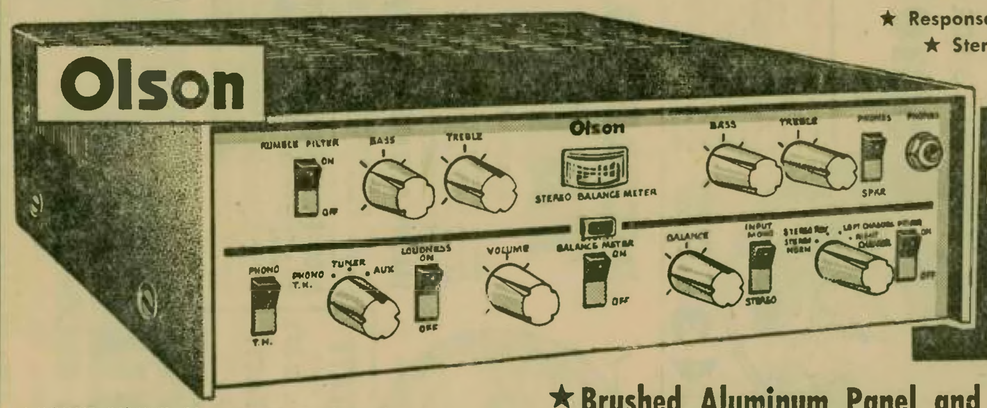
Olson's buying know-how and on-the-spot follow-through in manufacturing result in styling and performance that is second to none. Superior quality is evident even before you turn on the switch. One look at the elegant styling . . . the brushed aluminum panel . . . the handsome, textured finish cabinet and you know that here is an outstanding value. But appearance is only half of the story. This "Classic" amplifier has all the features and performance of amplifiers selling for much more than Olson's low price. Specifications: Power Output 30 watts, 15 watts per channel. Frequency response: ± 0.5 db., 30 to 25,000 cps. Harmonic distortion: less than 1% at 10 watts. Hum and Noise: more than 60 db. below rated output. Output Impedance: 4, 8, and 16 ohms. Tape Output: high impedance. Tube Complement: 2-12AX7, 4-6BM8, and 1-6CA4. Power Supply: 110-120 volts A.C. 60 cps. Dimensions: 14¾" W. x 9⅝" D. x 5⅛" H. with legs. Shipping weight 23 lbs.

Complete set of metal knobs to match tuner above
No. KN-19 ---------- $1.99

**No. AS-862 BOTH FOR $172**

## "Classic" 50 Watt Stereo Amplifier

★ Response 15 to 40,000 cps.
★ Stereo Headphone Jack
★ Balance Meter




**No. AM-240**

**$99.98** WITH COVER

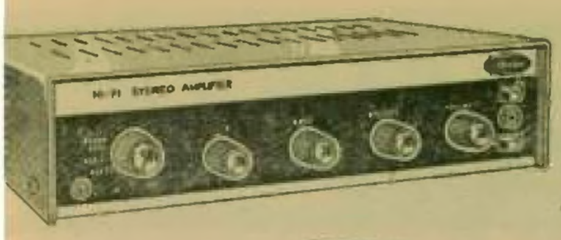
**$10 MONTHLY**

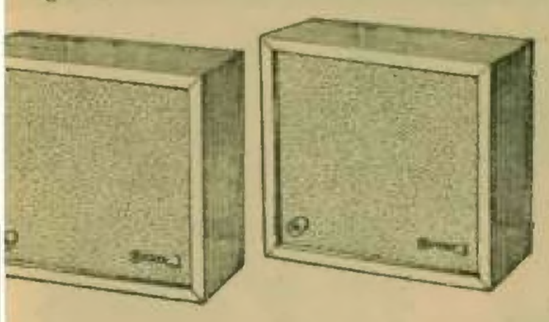
- **POWER OUTPUT:** 50 watts, 25 per channel
- **HARMONIC DISTORTION:** less than 1%
- **OUTPUT IMPEDANCE:** 4, 8, and 16 ohms
- **CHANNEL SEPARATION:** Greater than 50 db.
- **HUM & NOISE:** 75 db. below rated output
- **TUBES:** 5—12AX7, 4—7189 plus silicon rectifiers
- **SIZE:** 14¾" W. x 10⅝" D. x 5⅛" H. with legs
- **POWER SUPPLY:** 110-125 volts A.C. 60 cps.

### ★ Brushed Aluminum Panel and Knobs!

This "Classic" stereo amplifier is completely new from cover to output terminals. Truly an outstanding example of advanced style and design. Handsome front panel of brushed aluminum is accented by polished aluminum knobs and all new rocker switches. Cabinet is texture finished in gray with ventilating louvers for cool efficient operation. Electronically this is one of the finest amplifiers we have ever had the pleasure of listening to. Features individual treble and bass controls for each channel plus volume and balance. Selector switch selects: magnetic phono, tape head, tuner and aux. New easy to use rocker switches operate: loudness, meter (off-on), mono/stereo, earphone/speaker, rumble and phono/tape head. Shipping weight 38 lbs.

# STEREO ON A BUDGET





No. AS-841
$69.99
$7 MONTHLY

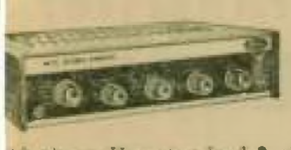


**HERE'S WHAT YOU GET:**

| | |
|---|---|
| 1—15 Watt Stereo Amp. No. AM-217 (below) | $34.98 |
| 1—PE 4-speed Changer No. RP-250 (pg. 9) | 18.00 |
| 2—Sonora 8" Speakers & Baffles No. S-539 (pg. 11) | 23.00 |
| Total Regular Catalog Price | $75.98 |

★ Accessories ★

| | |
|---|---|
| Changer mounting base, CA-260 | $3.88 |
| 45 RPM adpt. spindle, No. RP-240 | 2.49 |
| A.C. line cord, No. W-43 | .29 |
| 2—5-ft. Audio cables, W-321 2 for | 1.30 |



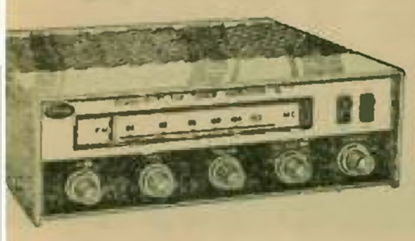
## Olson 15 WATT STEREO AMPLIFIER

This compact stereo amplifier really packs a punch. All the features—all the flexibility of the "BIG ONES" at a fraction of the price. Built-in pre-amps to accommodate any magnetic cartridge. Output impedance 4, 8 16 ohms. Has standard 8 circuit jack for most stereo headphones. Handsomely styled, finished in gold and contrasting brown. With metal cabinet. SPECIFICATIONS: ut: 15 watts, 7.5 watts per channel. Frequency Response: 20-20,000 CPS. Power ly: 110-125 volts 50/60 CPS. Dimensions: 12⅝" x 3¼" x 8¼". Shpg. wt. 16 lbs.

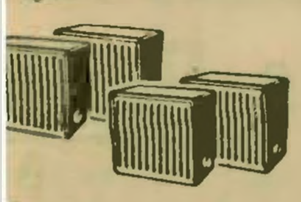
AM-217 **$34.98**

# BACKGROUND MUSIC SYSTEM

*SAVE REAL $$$ ON OLSON'S LOW PRICES!*



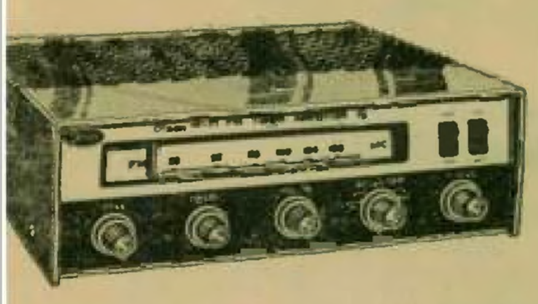
No. AS-843
$10 MONTHLY
ALL 5 UNITS
$94



**HERE'S WHAT YOU GET:**

| | |
|---|---|
| 1—RA-550 FM Tuner & Amplifer (below) | $69.95 |
| 4—S-409 8" Speaker & Baffle (pg. 14) | 4 for $34.66 |
| Total Regular Catalog Price | $104.61 |

## Olson FM Hi-Fi TUNER/15 Watt AMPLIFIER



$69.95 No. RA-550
$7 MONTHLY

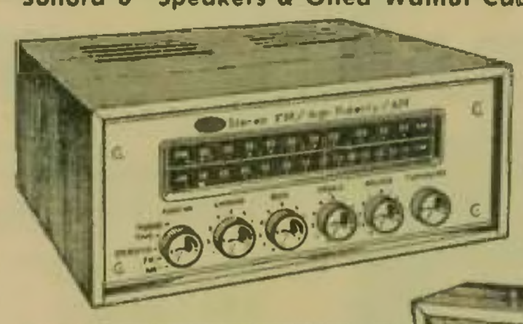
**Provisions for Multiplex**
**Switchable A.F.C. —**

Sensitivy: 3 microvolt for 20 db quieting
A.F.C.: Reactance tube system
INPUTS: Mag. 5MV., Tape Aux. 100 MV.
OUTPUTS: 8 Ohms and 70.7 V. line
Resp.: ± 1 db 20-20,000 CPS at 1 Watt
POWER SUPPLY: 110-125 V. AC, 60 CPS
SIZE: 11⅞" W x 9⅛" D x 4⅛" H

The flawless styling and brilliant performance makes this FM tuner-amplifier an ideal unit for any home music system. Olson FM tuner-amplifier is also ideally suited for background music in doctor or dentist's office and waiting rooms or can be used in factories or restaurants. The FM reception provides a constant source of ever changing high fidelity music. You can plug in your record changer or tape recorder to play your choice of music. The amplifier is equipped with input for ceramic cartridge and pre-amplified input for magnetic phono cartridges. Tuner has Multiplex jack for FM stereo reception. Add this to your present high fidelity system to convert to stereo. Shipping weight 18 lbs.

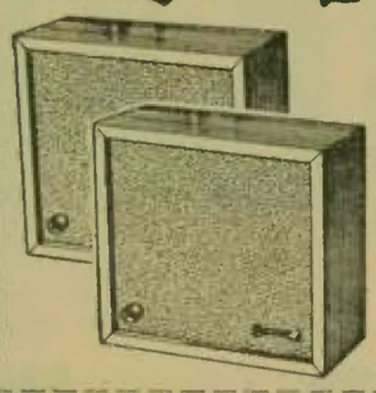
# $ $ $ SAVING COMBINATION OFFER!

Olson FM-AM-FM-Stereo Receiver
Perpetuum-Ebner 4-Speed Automatic Changer
Sonora 8" Speakers & Oiled Walnut Cabinets



Olson PE 66 Sonora





# SALE!

REGULAR $140.93
No. AS-881
$8 MONTHLY
NOW... $129

**SYSTEM CONSISTS OF:**

| | |
|---|---|
| 1—20 Watt Tuner/Amp, No. AM-230 (below) | $99.93 |
| 1—Stereo Changer, No. RP-250 (pg. 9) | 18.00 |
| 2—8" Speakers & Baffle, No. S-539 (pg. 11) | 23.00 |
| Total Regular Catalog Price | $140.93 |

★ ACCESSORIES: ★

| | |
|---|---|
| Mounting Base, No. CA-151 | 4.88 |
| 45 RPM Spindle, No. RP-228 | 3.80 |

# Olson FM/AM/FM-STEREO TUNER AMPLIFIER



No. AM-230
$99.93
$10 MONTHLY
Less Cabinet

Every needed feature has been included to give you the best from tape, records or radio. Employs the most advanced circuitry, including AFC for perfect drift-free FM reception. Specifications: Power: 20 watts (10 per channel). Response: 40-20,000 cps. Inverse feedback for minimum distortion. Built-in preamplifiers to accommodate any magnetic cartridge. Separate bass and treble controls, loudness and balance control. AFC defeat switch on tuning shaft. Illuminated Slide Rule Dial. Size: 14½" x 5½" x 10½" D. For 110-120 V. AC. 60 cps. Shipping weight 20 lbs.

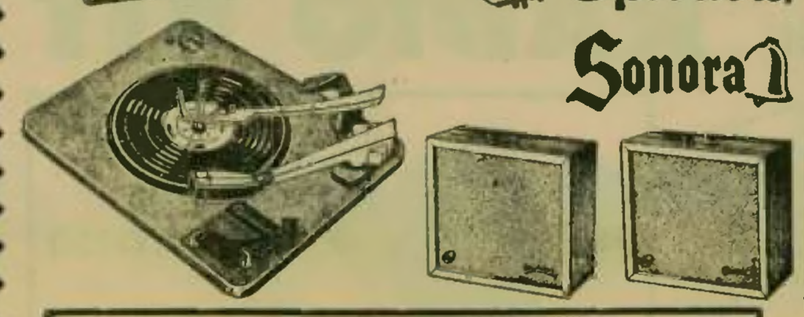
OILED WALNUT CABINET for above, No. CA-277 $15.00

## Complete STEREO MUSIC SYSTEM

Pilot FM Stereo Tuner/30 Watt Stereo Amplifier
Garrard "Autoslim" 4-Speed Automatic Changer
Pickering U38/AT Stereo Cartridge
Sonora 8" Speakers & Oiled Walnut Cabinets



PILOT Pickering Garrard Sonora



★ ACCESSORIES: ★

| | |
|---|---|
| Mounting Base, No. CA-260 | $ 3.88 |
| Oiled Walnut Cabinet, No. CA-277 | 15.00 |
| AC line cord, No. W-43 | .29 |
| 2—5 Ft. Audio Cables, No. W-321 2 for | 1.30 |

# SALE!

REGULAR ~~$229.37~~
No. AS-882
$13 MONTHLY
NOW... $199.99

**SYSTEM CONSISTS OF:**

| | |
|---|---|
| 1—FM Stereo Tuner/AMP., RA-600 (below) | $149.99 |
| 1—Automatic Changer, RP-224 (pg. 9) | 39.50 |
| 1—Stereo Cartridge, PC-96 (pg. 10) | 16.88 |
| 2—8" Speakers & Baffles, S-539 (pg. 11) | 23.00 |
| Total Regular Catalog Price | $229.37 |

## FM STEREO TUNER/30 WATT STEREO AMPLIFER MANUFACTURED BY PILOT

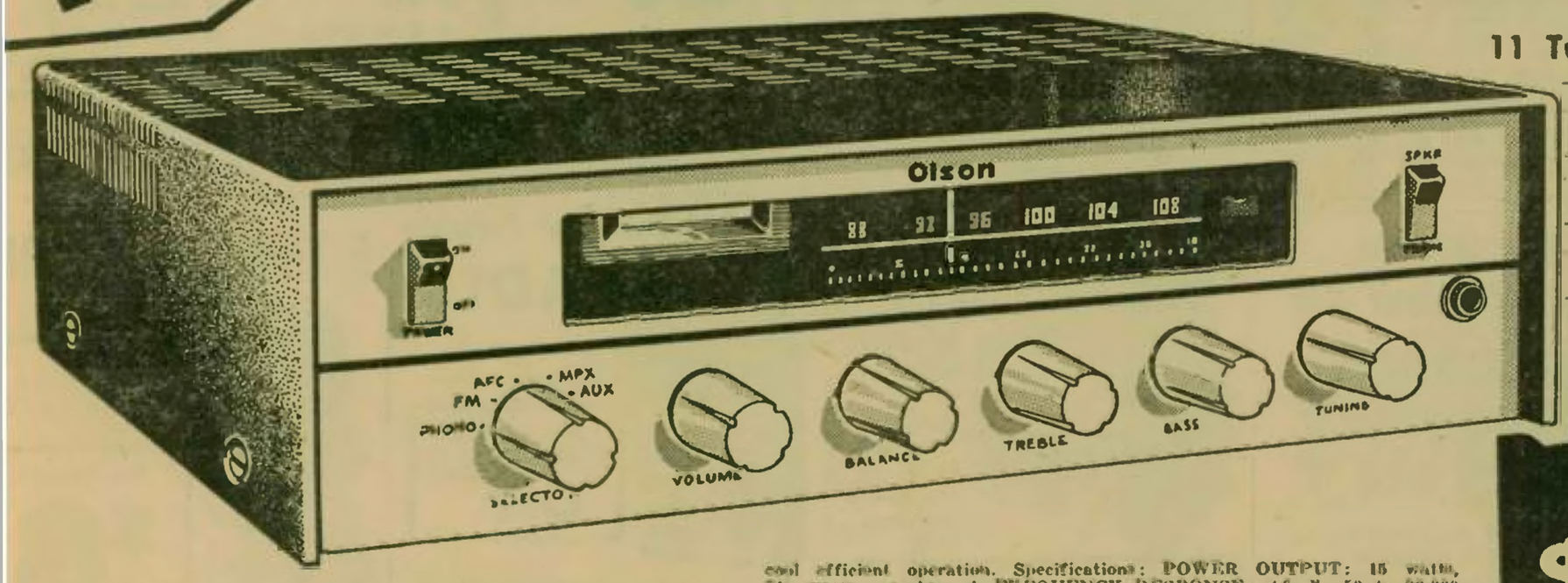


No. RA-600
$149.99
$9 MONTHLY
With Cabinet

Stereo beacon lights when you tune in a stereo station. The amplifier has two heavy duty output transformers and a rugged power transformer for long lasting dependable service. Separate bass and treble controls. Tape monitor allows you to hear the signal you have recorded on tape. An AC convenience outlet is located on the back of the amplifier to supply power to your record changer. Tuner sensitivity: 4 μv. Amplifier response: 10 to 30,000 cps, output impedance 8 and 16 ohms, output power 30 watts—15 per channel. Complete with vinyl covered metal cover. Front panel is finished in brushed aluminum. 110-120 V. AC. 60 cps. Size: 5" H. x 15½" W. x 10½" D. Shipping wt. 24 lbs.

ALL NEW

# Olson Classic FM/FM STEREO TUNER & STEREO AMPLIFIER




11 Tubes—18 Tube Performance

Magic-Bar Tuning Indicator

15 Watt Stereo Amplifier

Built-in Multiplex Stereo

Stereo Headphone Jack

No. RA-581
ONLY
$89.98
$9 MONTHLY

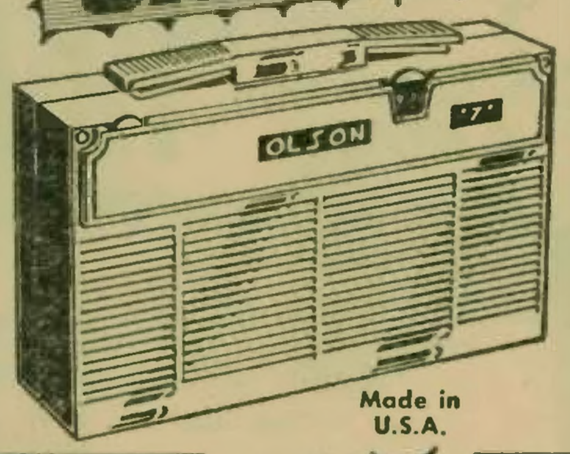
Studio quality and elegant styling combined at an unbeatable Olson price. 15 Watts Stereo music power combined with an extremely sensitive FM tuner provides the basis for the finest home or professional music system. Every styling appointment and every advancement in electronic circuitry has been designed into this stereo receiver to give you the utmost in beauty and performance. Super sensitive tuner receives FM and FM multiplex. Magic bar tuning indicator assures positive on-station tuning. 8 controls provide every desired adjustment for the most critical listener. 11 tubes give 18 tube performance. Power supply uses silicon diodes for cool efficient operation. Specifications: POWER OUTPUT: 15 watts, 7½ watts per channel. FREQUENCY RESPONSE: ±2 db, 50 to 20,000 cps. HARMONIC DISTORTION: less than 2%. OUTPUT IMPEDANCE: 4, 8 and 16 ohms. CONTROLS: Selector: phono, FM, FM/AFC, MPX, AUX. Volume, balance, treble, bass, tuning, power and speaker/headphone. POWER SUPPLY: 110-125 volts A.C. 60 cps. TUBE COMPLEMENT: 2—6AQ8, 1—6BA6, 2—12AX7, 2—6AU6, 1—12AU7, 2—6BN8 and 1—6BE6. Size 15⅞" W. x 10½" D. x 5" H. Shipping weight 19 lbs.

G. Fay, 205 Grace St., Mansfield, Ohio, wins choice of merchandise worth $5 from Olson's "Treasure Hunt." See back cover for instructions.

# GIGANTIC CLEARANCE SALE!

SALE!

## 7 RAYTHEON TRANSISTOR RADIO KIT




Made in U.S.A.

REGULAR PRICE ~~$15.00~~

**$9.99** No. KB-137

- ★ Preassembled Printed Circuit
- ★ Large 3-Inch PM Speaker
- ★ 7 Raytheon Transistors

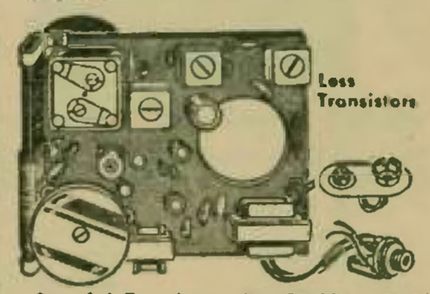
Housed in a handsome Hi-impact styrene case. Construction is simplified through use of two pre-wired printed circuit modulars. One modular contains the 4 stage tuner and the other modular a 3 stage push-pull audio amplifier. 7⅛" x 4¼" x 2". Complete with all parts and instructions. Less batteries. Shipping weight 2½ lbs.

Batteries (4 req'd) No. BA-67 ..... 8 for 59c

SALE!

## 6 Transistor RADIO CHASSIS

★ Chassis pre-wired



Less Transistors

Reg. ~~$4.99~~ **$2.99** No. KB-145

Set of 6 Transistors, No. TR-20 ..... $1.99
2¼" PM Speaker No. S-532 ..... .88
Earphone, No. PH-81 ..... .54
Battery, No. BA-89 ..... .21

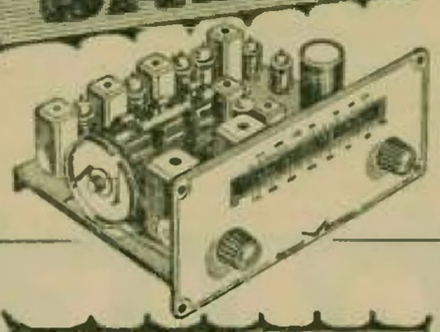
Miniature 6 transistor radio chassis for custom mounting anywhere. Completely assembled and ready to mount (less transistors). Powerful push-pull output will drive any size speaker to room filling volume. Has earphone jack. Uses standard 9 volt battery (not included). With transistor mounting instructions. Size: 2¼" x 3" x 1⅛". Standard shirt pocket size. Shipping weight ⅜ lb.

SALE!

## Imperial FM-AM TUNER KIT

Approved

• 12 TUBES • 5μV Sensitivity • Made In U. S. A.



Reg. ~~$29~~ **$15** No. KB-158

Tuning Range: 88-108 mc. Band Width: 200 kc. Sensitivity: 5μv - 20 db. Response: 20-20,000 cps. Tubes: 6BC6, 2-6AB4, 4-6AU6, 6AL5, 6C4. AM Specifications: Tuning Range: 550-1650 kc. Tuned RF stage. Sensitivity: 5 microvolts. Size: 9¾" L x 5" H x 2" W. NOTICE: External power supply requirements: 190 volts DC @ 55 ma. and 6.3 volts AC @ 4 amp. (can be tapped from amplifier power supply).

SALE!

## Approved FM TUNER KIT

REG. ~~$19~~ **$10** No. KB-157

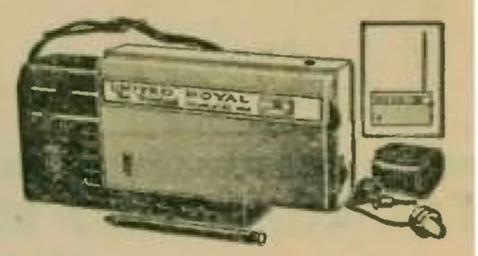
Nine tubes. Slide rule dial. No drift temperature compensated components. Shipping weight 9½ lbs. (Mfr's 1961 price $33.50).

SALE!

## 9 Transistor RADIO

• Earphones, Batteries & Case
• Telescoping Antenna

NOW **$13.66** No. RA-578

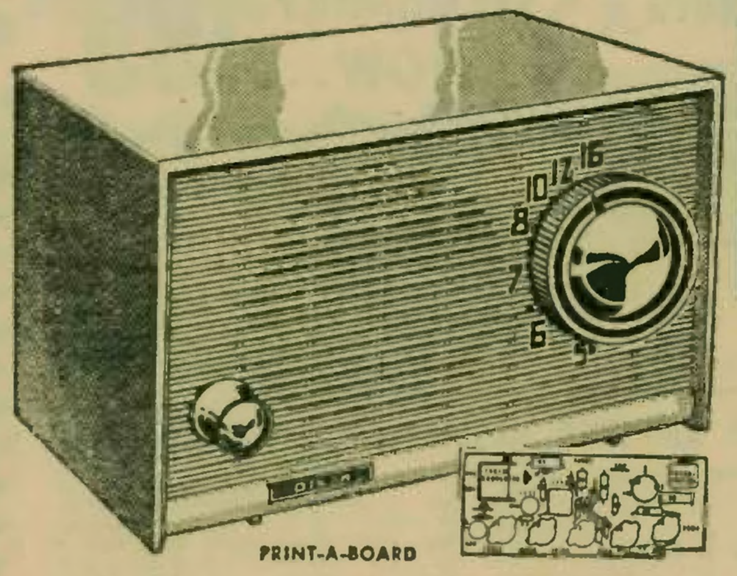



Complete with leather case, earphone case, telescoping antenna and batteries. Latest superheterodyne circuit with 9 transistors and one diode give superior selectivity and sensitivity. Telescoping antenna can be attached to top of radio for really distant stations. Acoustically matched, powerful 2¾ in. PM speakers delivers clear undistorted sound. Operates on 4 standard penlight cells (included). Size: 5¾" W x 3½" H x 1½" D. Shipping weight 5 lbs.

Extra batteries for above (4 req'd) No. BA-67 ..... 8 for 59c

Olson

## 5 Tube Printed Circuit RADIO KIT




PRINT-A-BOARD

**$8.98** (LESS TUBES) No. KB-150

The mounting of each part is a simple operation because of the specially designed "Print-a-Board" circuit board layout employed, coupled with the easy to follow "Quick-Step" instructions. The high gain tubes, IF transformers and ferrite bar antenna result in excellent sensitivity. 4" PM speaker. 110-125 volts AC or DC. Shipping weight 5 pounds.

KIT OF 5 TUBES FOR ABOVE
No. AS-533 ..... Per Kit $2

## FM • AM Table Radi



No. RA-615
$24.9

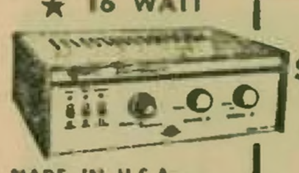
• Non-Drift Reception
• Slide Rule Tuning

Tunes broadcast band 535 to 1605 KC and FM band 88 to 108 MC. Has built-in stick antenna for AM band which gives excellent static-free reception and wonde sensitivity. A length of wire provides superb performance in most areas. However FM-DX reception an outside dipole should be used. (TV antenna is suitable). 4" speaker gives full response sound, that surpasses that of much larger and more e receivers. 6 tubes and 2 diodes plus selenium rectifier. Has safety interlock cord pl controls; volume, tuning and band selector. Handsome two tone cabinet. For 11 volts AC or DC. 5" x 6¾" x 16". Shipping weight 8 lbs.

MERRELL

## Stereo Amplifier Kit

★ 16 WATT



MADE IN U.S.A.

No. KB-151
**$29.95**
Lots of 3, Ea. $29 (Less Cover)

Complete with large, clear, step-by-step instructions. Power Output: 8 watts per channel. Peak Power Output: 16 watts each channel; 32 watts combined peak power. Frequency Response: 20 to 20,000 CPS. Inputs: 6 (3 pairs) mag. phono/tape, tuner, crystal phono. Output Impedance: 8 ohms. Tubes: 2—7025/ECC83/12AX7; 2—EL84/6BQ5; 1—5Y3 rectifier. Size: 12¼" wide x 8" deep x 4¼" high. 110-125 Volts AC, 50-60 CPS. With tubes and instructions. Shipping weight 13 lbs.

COVER FOR AMPLIFIER
No. CA-268 ..... $4.95

MERRELL

## Stereo Amplifier Kit

★ Williamson Type Circuit
★ Decorator Styled Panel
★ 40 Watts
Made in U. S. A.

No. KB-162
**$49.95**
(less cover)



Power Output of each channel is 20 watts. Frequency response is 20-20,000 cps. Front Panel Controls: Function Selector, Dual Loudness Control, Balance Control, Dual Bass Control, Dual Treble Control. Switches: Mode, Stereo/Monaural, Equalization, Power. 4 Dual Inputs: Tape/Lo Phono, Hi Phono, Tuner, Auxiliary. Outputs: Dual Tape, 4, 8, 16 ohm speakers. Tape Equalization: NARTB. Record Equalization: RIAA, Tube Complement: 2-7025/ECC83/12AX7, 4-EL84/6BQ5, 2-ECC81/12AT7. For 110-125 volts A.C. 60 cps. With tubes and instructions. Shpg. wt. 26 lbs.

Cover for Amp
No. CA-296 ..... $8.95

4 Transistor Sub-Miniature

## Audio AMPLIFIER



No. AM-237
**$4.95**

• Push-Pull Output

This miniature audio amplifier is designed for use by experimentors and hobbyists in many kinds of electronic projects. The circuit utilizes 2-2SB170 transistors and 2-2SB172 transistors terminated in a 3 ohm output transformer. Uses a standard 9 volt transistor radio battery (not included), which provides an output of 200 milliwatts, sufficient for portable radios, tape recorders, intercoms, and midget P.A. systems, etc. Two stages of audio amplification are followed by a push-pull output stage which delivers plenty of power for a loud speaker. Size: 3⅞" x 1⅝" x ¾". Includes complete instructions and schematic diagram. Shipping weight ½ lb.

Battery for Amp. (1 req'd), No. BA-89 ..... 21c

Marvel

## FM-AM RADIO

No. RA-618
ONLY
**$29.95**



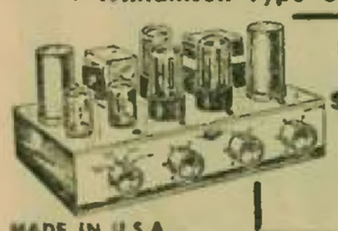
★ AFC
★ Dual Speakers
★ Wood Cabinet
★ Tone Control

Beautiful styling and flawless performance are combined in this unusual value f Olson. Genuine wood cabinet is finished in gleaming walnut, accented with black gold trim. 5½" slide-rule dial makes tuning your favorite stations quick and easi Tone control adjusts to suit your individual taste. Features AFC to "lock-in" even weakest FM stations. Has built-in antenna for AM and short wire antenna for No outside antenna is necessary for most areas. Dual four inch speakers deliver rich tone at room filling volume. Size: 19⅝" W. x 7" H. x 5⅛" D. For 110-125 volts 60 cps. Shipping weight 9 lbs.

MERRELL

## 12-Watt Amplifier Kit

★ Williamson Type Circuit



MADE IN U.S.A.

No. KB-68
**$19.66**
Lots of 3, Ea. $19

Response ± 1DB 20 to 20,000 CPS, 4 inputs: magnetic phono; tape; crystal phono; tuner/radio; mike/aux. Output impedances: 4, 8, and 16 ohms, special design Williamson type output transformer, 4 controls, function, loudness, bass, treble/power switch. 5 tubes: 1—12AX7/ECC83, 1—12AT7, 2—6V6 and Rectifier Tubes. Size: 11" x 7". 110-125 V A. C., 50-60 CPS. With tubes and instructions. Shipping weight 11 lbs.

8

MERRELL

## Stereo Receiver Kit

• Made in U.S.A.



No. KB-165
**$89.95**

- • 20 Watt Stereo Amplifier
- • Prewired Multiplex Circuit

A complete stereo center in easy-to-build kit form. Power output 20 watts (10 per channel). Frequency response of tuner 20-20,000 cps. Amplifier, 20-35,000 cps. Tuner sensitivity: 1.4 μv for 20 db. quieting. Tubes: 1-ECL85/6AQ8, 1-6BA6, 2-6AU6, 2-EL84/6BQ5, 1-7025/ECC83/12AX7, 4 diodes. For 110-125 volts AC, 50-60 cps. Shipping weight 25 lbs.

Metal Cabinet for above, No. CA-303 ..... $8.95

## FM Monitoring Receiver

• 4" PM SPEKER • 152-174 MC



TUNE IN:
Police Calls
Mobile Telephone Calls
Fire Department Calls

No. RA-561 **$50**

You will hear the news in the making. Features temperature compensated, superheterodyne circuit for no drift. Ratio detector circuit minimizes noise under "no signal" conditions. Size: 9½" x 6" x 5½". For 110-125 volts AC, 60 cps. Shipping weight 9 lbs.

## FM-AM Transistor Portable RADIO



- • 10 TRANSISTORS
- • Telescoping Antenna

No. RA-613
**$34.88**

Features: sturdy telescoping antenna, signal locking AFC, deluxe heavy magnet speaker, high-impact leather-finish cabinet, pop-up carrying handle and earphone. Operates on four standard pen-light batteries (included). Size: 4½" x 6½" x 2¼". Shipping weight 2½ lbs.

Extra Batteries (4 req'd) No. BA-67 ..... 8 for 59c

12 TRANSISTOR FM-AM PORTABLE RADIO
Similar to above but has greater sensitivity.
No. RA-614 ..... **$39.88**

## 6 Transistor RADI



- ★ Built-in Speal
- ★ With Battery, Earphone & Co

No. RA-544
**$8**

A handsome personal radio with 6 t sistors and germanium diode in a po ful superheterodyne circuit—a total semi-conductors. Features push-pull output, built-in PM speaker, personal phone jack and carrying case. Tunes broadcast band. Size: 5⅝" W x H x 1¾" D. Styles may vary slig Shipping weight 2 lbs.

# 'INAL CLOSE-OUT

## SALE Stromberg-Carlson CABINETS



SAVE $14

**Stromberg-Carlson CONTEMPORARY MODERN**
DESERT WALNUT

Order No. 711 **$35** REG. ~~$49~~

Cabinet is completely finished—ready to accept your Stereo or Hi-Fi equipment. Both the tuner-amplifier and phono mounting boards can be removed for your convenience and accessibility. Top, exposed area of tuner-amplifier compartment measures 7⅜" wide x 14¼" deep x 2" high. Top, exposed area, of phono compartment measures 17⅜" wide x 14¼" deep x 6" high. Speaker boards are pre-cut with mounting studs installed. Overall cabinet size: 38" wide by 16¼" deep by 25½" high. Shipping weight 61 lbs. Cabinet shipped by truck or express from Batavia, New York. Order now and save.

**Stromberg-Carlson French Provincial Console Cabinet**



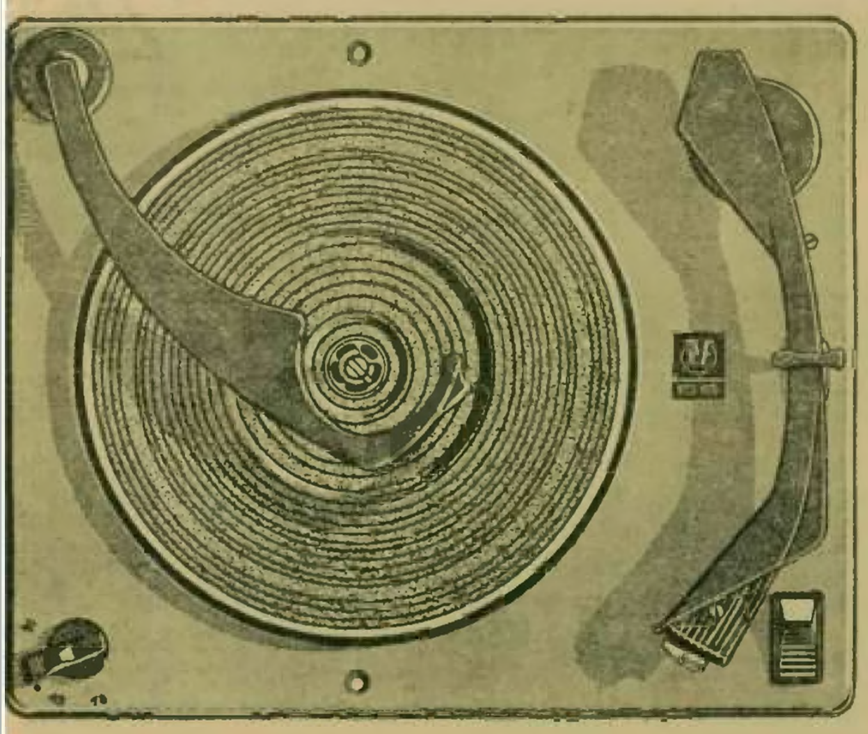
SAVE $30

Order No. 713 **$49** REG. ~~$79~~

Styled by Federico. Cherry Finish, solid hardwood veneer. Outside Dimension: 39" wide, 17" deep, 28" high. Top, exposed area, of tuner-amplifier compartment measures 7⅜" wide x 14¼" deep x 2" high. Top, exposed area, of phono compartment measures 17⅜ wide x 14¼" deep x 6" high. Speaker boards are precut. Shipped by truck or express from Batavia, N. Y. Shipping weight 78 lbs.

## PERPETUUM-EBNER STEREO CHANGER

- ★ 4-Speed Automatic
- ★ Rugged 4-Pole Motor
- ★ Imported from Western Germany
- ★ With Ceramic Turnover Cartridge



**$18**
No. RP-250

Made in Europe by craftsmen who take great pride in quality workmanship. Every detail of construction is painstakingly followed to give you absolutely flawless performance. Change cycle is carefully timed to handle your records with the utmost care. Balanced tone arm equipped with stereo ceramic turnover cartridge, gives light, skip-free tracking. Easily adjusted to meet any cartridge compliance requirement. Large turntable and heavy-duty 4-pole motor give smooth, quiet operation that is free from rumble or wow. Turntable top has non-slip foam-rubber mat. Neutral position on speed selector disengages drive wheel to prevent flat spots. Plays all size records, both stereo and monaural with utmost clarity and fidelity. Automatic shut-off after last record. Four speeds 78, 45, 33⅓ and 16 RPM. Size: 13" x 10⅝" x 5⅝" above mounting board and 5¾" below. For 110 to 125 volts AC 60 CPS. Shipping weight 12 lbs.

| | | | |
|---|---|---|---|
| Mounting Base, No. CA-260 | $3.88 | AC Line Cord, No. W-43 | .29 |
| 45 RPM Spindle, No. RP-240 | 2.49 | 2-5 Ft. Audio Cables, No. W-321 | 2 For 1.30 |

## VM Stereo CHANGER

IN U. S. A.



No. RP-176 **$24.95** 3 for $69

...rous VM four-speed record changer ...stereo cartridge. Plays manually or ...atically and shuts off after last ...l has played. Heavy duty motor drives ... rubber matted, weighted turntable. ...all 7", 10" and 12" records at all four ... (16⅔, 33⅓, 45 and 78 RPM). Size: ... x 13⅜". For 110-125 volts A.C., 60 ... Shipping weight 13 lbs.

★ ACCESSORIES ★

| | |
|---|---|
| ...ing Base, No. CA-65 | 4.88 |
| ...M Spindle, No. RP-106 | 2.99 |
| ...ord, No. W-43 | .29 |
| ... Cord, No. W-321 | .65 |

## BSR Stereo CHANGER

Model UA-14



MADE IN ENGLAND

No. RP-222 **$19.95** 3 for $59

Plays stereo and monaural discs any size up to 12" in diameter, automatically. 4 speeds. Rubber padded, weighted turntable is driven by oversize induction motor. Has turnover hi-fi crystal stereo cartridge with dual sapphire styli. Handsome tan finish. Size: 13⅛" x 11⅛". Height above: 5½" x 2½" below. Operates on 110-125 volts AC 60 cps. Shipping weight 12 lbs.

★ ACCESSORIES ★

| | |
|---|---|
| 45 RPM Spindle, No. RP-7 | $2.37 |
| Mounting Base, No. CA-212 | 4.88 |
| Line Cord, No. W-43 | .29 |
| Phono Cord, No. W-321 | .65 |

# SALE Garrard TYPE "A" RECORD CHANGER BASE

Reg. ~~$4.88~~ **5¢**

...only 5¢ with purchase of GARRARD TYPE "A" Stereo Changer Below!

★ Changer Base Described on Page 10 ★

## Garrard STEREO Record Changers

**Garrard Changer & Cartridge COMBINATION DEALS**

Your Choice of Stereo Cartridge Below Only 1c Extra With Purchase of Any GARRARD CHANGER!

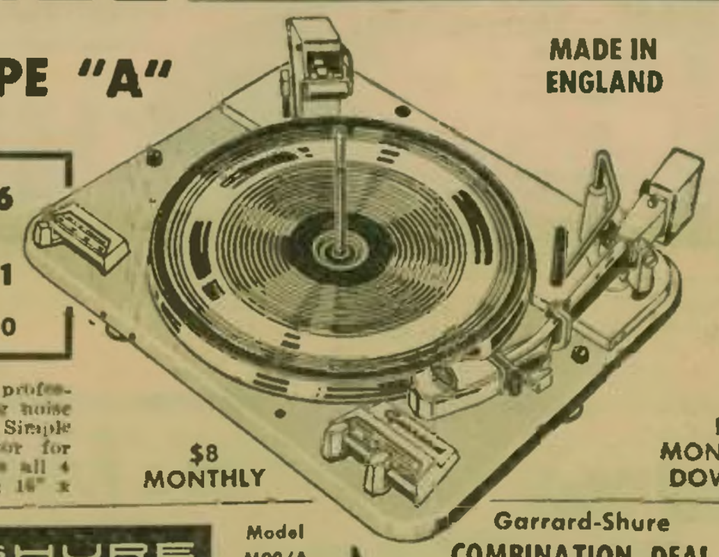


| SHURE M3D | PICKERING U38/AT | EMPIRE 880 |
|---|---|---|
| Reg. $15.88 | Reg. $16.88 | Reg. $17.95 |

★ See Page 10 For Specifications

## Garrard TYPE "A"

MADE IN ENGLAND



| | |
|---|---|
| No. AS-883, Combination Base, Cartridge & Changer | $79.56 |
| No. AS-532, Combination Changer & Cartridge | $79.51 |
| No. RP-202, Changer Only | $79.50 |

$8 MONTHLY — NO MONEY DOWN

Garrard's finest changer, a full size, two piece professional turntable, with unique foam disc for damping noise and vibration. Exclusive pusher-type mechanism. Simple one knob leveling device, laboratory-balanced motor for low rumble. Dynamically balanced tone arm. Plays all 4 speeds, 7"—10"—12" records monaural or stereo. Size: 16" x 13¼" x 5⅝" below mtg. board, 6" above mtg. board. 110-125 volts AC, 60 cps. Shipping weight 23 lbs.

ACCESSORIES

| | |
|---|---|
| Molded, Plastic Dust Cover, No. CA-299 | $4.95 |
| Extra Plug-In Head, No. RP-204 | 1.50 |
| 45 RPM Spindle, No. RP-41 | 3.80 |
| Mounting Base, No. CA-40 (Sold Separately) | 4.88 |

SHURE Model M99/A "Gard-A-Matic" STEREO CARTRIDGE

★ Diamond Stylus ★ Factory Wired

No. PC-103 **$49.50**

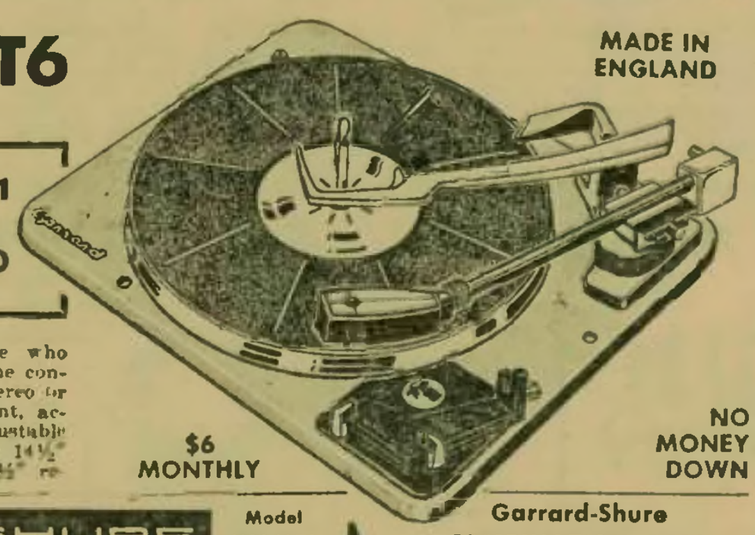
Garrard-Shure COMBINATION DEAL

Garrard Type "A" Changer (Above)
Shure M99/A Cartridge (Left)
Shpg. wt. 23¼ lbs.

BOTH FOR **$89.50** $9 MON. No. AS-785

## Garrard AT6

MADE IN ENGLAND



| | |
|---|---|
| No. AS-695 Combination Changer & Cartridge | $54.51 |
| No. RP-225 Changer Only | $54.50 |

$6 MONTHLY — NO MONEY DOWN

Moderately priced automatic turntable for those who want the professional features of a turntable with the convenience of a changer. Plays all sizes and speeds, stereo or monaural. Overarm turntable assures a smooth, silent, accurate operation. Dynamically counterbalanced adjustable tubular tone arm. Quiet 4 pole shaded motor. Size: 14½" x 12½"; 4½" above mounting board, 2⅝" below. 1½" required at rear and arm side of base for counter weight. 110-125 volts AC, 60 cps. Shipping weight 14 lbs.

ACCESSORIES

| | |
|---|---|
| Molded, Plastic Dust Cover, No. CA-300 | $4.95 |
| 45 RPM Spindle, No. RP-235 | 3.80 |
| Mounting Base, No. CA-151 (Page 10) | 4.88 |

SHURE Model M99/AT6 "Gard-A-Matic" STEREO CARTRIDGE

★ Diamond Stylus ★ Factory Wired

No. PC-104 **$49.50**

Garrard-Shure COMBINATION DEAL

Garrard Type AT6 Changer (Above)
Shure M99/AT6 Cartridge (Left)
Shpg. Wt. 12½ lbs.

BOTH FOR **$64.50** $7 MON. No. AS-786

## Garrard AUTOSLIM/P

Mark II

This versatile automatic-manual intermix changer has numerous new features. New, two piece tone arm, specially designed 4 pole motor. Separate manual and automatic controls. Changer is designed to give you perfect torque, balance and quiet running. Compact clean simple design in grey with white trim. Plays all sizes and speeds, stereo or monaural. Size: 14½" x 12½" x 2⅝" below mtg. board, 4½" above mtg. board. 110-125 volts A. C. 60 CPS. Shpg. wt. 12 lbs.

Molded, Plastic Dust Cover, No. CA-301 $4.95
45 RPM Spindle, No. RP-228 3.80
Mounting Base, No. CA-151 (Pg. 10) 4.88

No. AS-651 Combination Changer & Cart. **$39.51**

• Changer Only No. RP-224 **$39.50**



★ 2-PIECE TONE ARM — MADE IN ENGLAND

# SALE

Monaural Turnover
## CARTRIDGE



DIAMOND SAPPHIRE STYLUS

MADE IN ENGLAND

No. PC-97
WAS ~~$.59~~
NOW $1.99

3-5 Volts Output. ½" mounting centers, and European inline mounting. This cartridge with its high output and low distortion, is an ideal replacement in almost any monaural phonograph, or European changer. Plays all four speeds. Response 30 to well above 6000 CPS. Complete with plug in type solder lugs. Shipping weight ¼ lb.

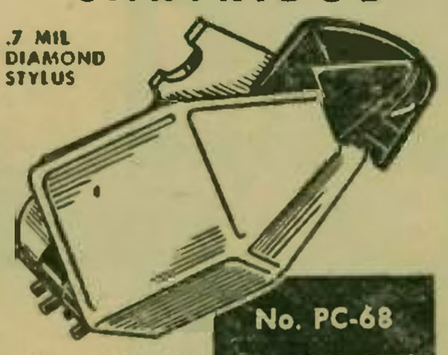
MONAURAL TURNOVER CARTRIDGE

Same as above but with dual sapphire stylus
No. PC-89, 3 for $3.00 ____ Ea. $1.29

# SALE

## Pickering 380C STEREO CARTRIDGE

.7 MIL DIAMOND STYLUS

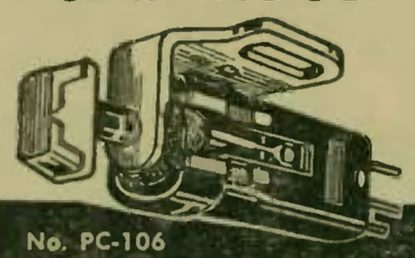


MAGNETIC CARTRIDGE with .7 Mil Diamond Stylus. Response ± 2 DB 20 to 20,000 CPS. Channel separation 35 DB. Tracking force 2-5 grams. Output 10 mv. per channel. Impedance 47,000 ohms.

No. PC-68
WAS ~~$11.76~~
NOW $9.99

# SALE

## ASTATIC 76-TS STEREO CARTRIDGE



No. PC-106
WAS ~~$3.00~~
NOW $1.99

★ 7 Mil & 3 Mil Sapphire Styli

This crystal turnover cartridge is equipped to play Stereo, LP and standard 78 rpm records with utmost clarity. Standard ½" mounting centers. Output 2 v. Response: 50 to 10,000 cps. Shipping weight ¼ lb.

# SALE

## Electro-Voice MONAURAL CARTRIDGE

★ Exact Replacement for Astatic 81T

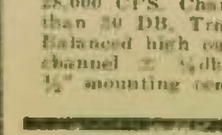
Monophonic exact replacement. Turnover plug-in type. Shpg. wt. ¼ lb.



Diamond LP TIP
No. PC-79
Was ~~$4.77~~
NOW $2.99

Sapphire Tips
No. PC-78
Was ~~$3.07~~
NOW $1.99

## Electro-Voice 76DS Monaural CARTRIDGE



No. PC-34
WAS ~~$5.82~~
NOW $3.99

Exact replacement for Webcor phonographs. (Monaural) Plug-in 1 mil diamond & sapphire 3 mil tip. Pink cone.

# SALE

## Electro-Voice 27D Stereo CARTRID

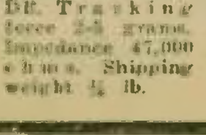


No. PC-
WAS
NOW $9

Turnover cera... Response 20,000 cps. Plays monaural records (16, 33, 45, and 78 RPM diamond LP, sapphire 78 RPM sty... put 20 mv. Shipping weight ½

## Electro-Voice 56DS Monaural CARTI

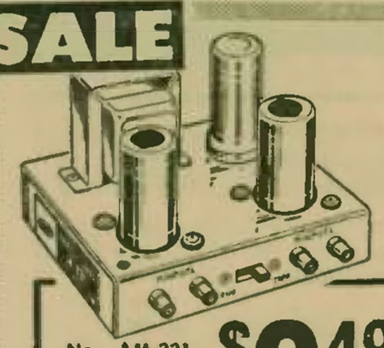
Plug-in Type



No. PC
WAS
NOW $3

Response 20 to 15,000 cps. Dia... mil, sapphire .3 mil tip. Shpg. w...

# SALE



## STEREO PREAMP

*At A Sensational Low Price!*

A self powered preamplifier for low level magnetic phono cartridges, and tape heads. Uses 2—dual triode 12AX7. Response: ±2 DB 30 to 20,000 CPS. Size: 5⅝"x3⅜"x4⅛". For 110-125 volts A.C., 50-60 CPS. Supplied less tubes. Shipping weight 4 lbs.

12AX7 Tubes for above (2 req'd) ____ $1.23

MONAURAL PHONO PREAMP less tube. Size: 3¾" x 3⅝" x 3 11/16". Shipping weight 4 lbs.

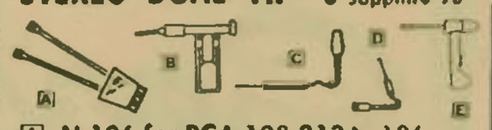
No. AM-220 ____ $5.95

12AX7 Tube for above (1 req'd) Ea. $1.23

No. AM-221
*Olson Sale Price* $9.49

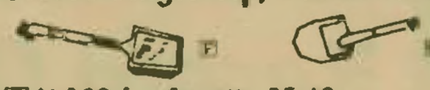
## DIAMOND NEEDLES

### STEREO DUAL TIP
● Diamond LP
● Sapphire 78



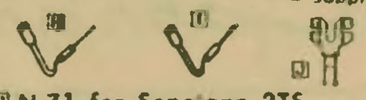
A N-126 for RCA 108-213A, 106-960A, 106-770A, 106771A $1.69
B N-150 for Sonotone 9T $1.69
C N-129 for Sonotone 8T $1.69
D N-130 for Sonotone 8TA $1.69
E N-151 for Astatic 17 $1.69

### Stereo Single Tip, Diamond LP



F N-102 for Ronette BF-40, 105, 106 $1.69
G N-149 for Euphonics E-1 $1.69

### MONAURAL DUAL TIP
● Diamond LP
● Sapphire 78



H N-71 for Sonotone 2TS $1.69
I N-91 for Sonotone 3TS $1.69
J N-95 for Shure Cartridge $1.69

### Mono Single Tip, Diamond LP

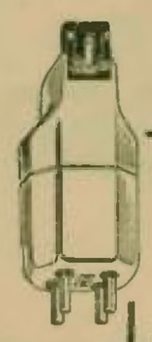


K N-77 for GE RPX $1.69
L N-70 for Ronette $1.69
M N-78 for GE RPJO1D $1.69

# PHONO CARTRIDGE

## EMPIRE 880 STEREO Cartridge

WITH DIAMOND STYLUS

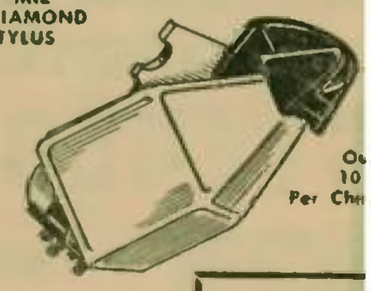


$42.50 in 363 Cat.
$17.95
No. PC-102

Magnetic mono/stereo cartridge with .7 mil diamond stylus. Response: 30 to 28,000 CPS. Channel seperation: More than 30 DB. Tracking force ¾ gram. Balanced high output 10 millivolts per channel ± ½db. Mounting—standard ½" mounting centers. Shpg. wt. ¼ lb.

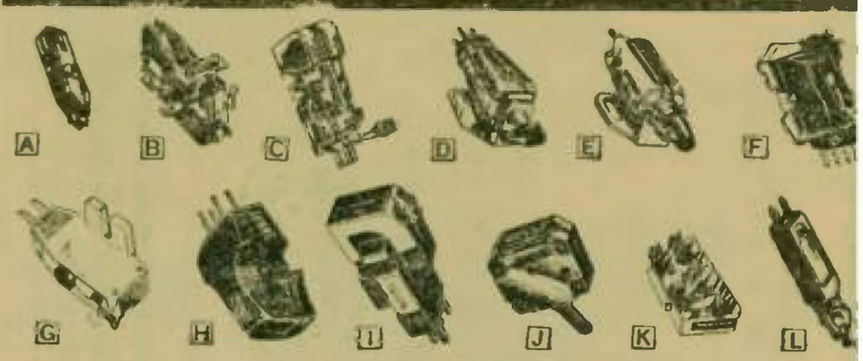
## Pickering U38/A STEREO Cartridg

7 MIL DIAMOND STYLUS



MAGNETIC CARTRIDGE Response ± 2 DB 20 to 20,000 CPS. Channel separation 35 DB. Tracking force 2-5 grams. Impedance 47,000 ohms. Shipping weight ¼ lb.

$46.50 in 363 Cat.
$16.88
No. PC-96



A B C D E F G H I J K L

Shipping weight on all cartridges ¼ lb.

**A—Electro-Voice Stereo**
★ Replaces Astatic 13T

Dual sapphire tips plays all 4 speeds (78, 45, 33⅓, and 16 RPM). Response: 20-15,000 CPS. Output .5 volts

No. XC-66 ____ $3.33
With Diamond Tip No. PC-74 ____ $6.57

**B—Sonotone 3TS Ceramic**

Response 20 to 20,000 CPS. Turnover type with standard ½" mounting centers. Dual sapphire styli. Output .5 volts

No. PC-17, 3 for $11.00
Lots of 12, Ea. $3.00 ____ $3.98

**B—Sonotone 2T-S Ceramic**

Turnover type with Dual Sapphire Styli. Response: ± 3DB 30-15,000 CPS. 1 volt output. Standard ½" mounting centers.

No. PC-93, 3 for $9.25 ____ $3.32

**C—Sonotone 8TA4-SD Stereo**

With .7 mil diamond, .3 mil sapphire stylus. Response ± 2.5 DB: 20 to 18,000 CPS. Compliance 3.0 x 10-6 cm/dyne. 20 DB channel separation. ½" mounting centers.

No. PC-92 ____ $7.64

**D—Ronette 106 Stereo Cartridge**

Turnover type. Plays stereo or monaural records. Has standard ½" mounting centers. Output 1.5 volts. Response 30 to 11,000 cps. Plays all 4 speeds.

No. PC-70 ____ $2.99

**E—BSR TC-8S Stereo Cartridge**

Turnover type. Mounts on ½" mounting centers. Response 40 to 12,000 cps. Plays all 4 speeds. Output .15 volts. Sapphire Styli.

No. PC-72, 3 for $6.00 ____ $2.09

**F—OLSON Turnover STEREO**

UNIVERSAL MTG. Dual Sapphire Stylus. Response: 40 to 10,000 cps. Output: 1 volt, Separation 12 DB. Tracking force: 6-8 grams. Size: 1¼" long x ⅜" wide. Made in England.

No. PC-110 ____ $1.89

**G—OLSON Mono CRYSTAL**

1 mil. sapphire Stylus. Response to 10,000 CPS. Output 1 volt. Track weight 6-8 grams. Std. ½" Mount Centers. Made in England.

No. PC-109 ____ 9

**H—SHURE M3D STEREO**

Professional Stereo magnetic cartridge with .0007" DIAMOND STYL Separation: 20 DB at 1,000 cps. sponse: 20-15,000 cps. Recommen load 47,000 ohms. Tracking force: grams. Compliance: 4x10-6 centime per dyne ½" mounting centers.

No. PC-95, $45.00 in 363 Cat. $15.
Replacement Diamond Stylus, N-152 $

**I—SHURE M-7D STEREO**

Stereo magnetic cartridge with .00 DIAMOND STYLUS. Response: 2 18,000 CPS. Recommended load pedance: 47,000 ohms. Tracking fo 3-4 grams. ½" mounting centers.

No. PC-56 ____ $11.
Replacement Diamond Stylus, N-131 $

**J—PHILCO CARTRIDGE**

Dual Sapphire Styli for Philco numbers 425-0011 and 425-0016. changer models: M-20, M-22, M M-24A, M-25, M-26 and others.

No. PC-20 3 for $17.00
Lots of 12, Ea. $5.00 ____ $6.

**K—ZENITH Cobra Cartridge**

Exact replacement for No. S-15 red & green. Monaural. Sapphire st

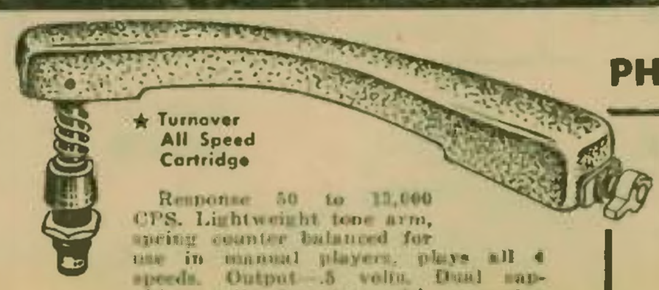
No. PC-71 ____ $2.

**L—Universal Phono Cartrid**

Aluminum case for single nee type arms. 50-8,000 cps. 4-5 volt o put. Weight 17 grams., needle fo 1¼ oz. ½" mtg. ctr. Monaural.

No. XC-50 3 for $3.50
Lots of 12, Ea. $1.00 ____ $1.

## Monaural PHONO ARM



★ Turnover All Speed Cartridge

Response 50 to 12,000 CPS. Lightweight tone arm, spring counter balanced for use in manual players, plays all 4 speeds. Output—.5 volts. Dual sapphire styli. Complete with mounting hardware, 8" long. Shipping wt. ¼ lb.

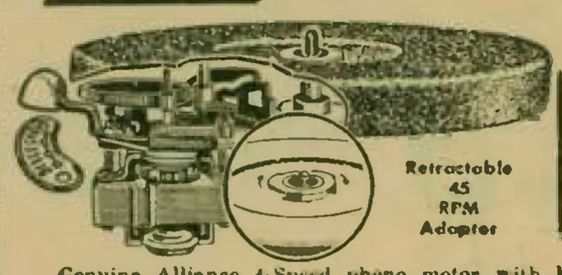
No. RP-236
$1.59
3 for $4.50

Deluxe STEREO PHONO ARM. With 4-speed turnover cartridge. Dual sapphire styli. Shipping weight ¼ lb.

No. RP-220, 3 for $5.50 ____ Ea. $2

## alliance 4-Speed MOTOR & TURNTABLE

★ Quiet Rim Drive
★ AMERICAN MADE



Retractable 45 RPM Adaptor

No. MO-56
*Olson Price . . .* $4

Genuine Alliance 4-Speed phono motor with heavy, felt covered, turntable. Self-starting, precision built motor drives turntable through large rubber idler wheel to keep noise and vibration to a minimum. All 4 popular speeds, 16⅔, 33⅓, 45 and 78 RPM can be played on this fine turntable without an adaptor. Retractable disc in center of turntable fits large hole in 45 RPM records. Complete with selector arm and index plate for speed change. Operates on 110-125 volts AC, 60 cps. Write for special large quantity prices. Shipping weight 6 lbs.

## PHONO AMPLIFIER

MADE IN U. S. A.



No. AM-16
$3.95
(Less Tubes)
Two for Stereo $7.50

Easily attached to any phono. Equipped with tone and volume controls. Size: 4¼" x 2½" x 5". Less output transformer. 110-125 V. AC. Shipping weight 3 lbs.

SHIELD TUBES FOR ABOVE
12AV6, 38c; 50C5, 63c; 35W4, 42c
OUTPUT TRANSFORMER
No. T-92 ____ ea. 49c

## MITY-AMP 2-WATT AUDIO AMPLIFIER



$8.40 No. AM-218

A power packed amplifier so small it fits into the palm of your hand. Encapsulated in high grade epoxy making it waterproof and shock proof. Applications: phono amp., intercom amp., public address amp., signal tracer amp., and many, many more. Operates on 6 to 12 volts D.C. Delivers 2 watts of audio with ½ volt input. Hi or Lo impedance input. Frequency Response: 20-15,000 CPS. Size: 2" x 3½" x ⅞". Shipping weight 2 lbs.

## Crystal HEADPHONES

*NEW!* ★ Resp.: 100 to 10,000 CPS
★ 85,000 OHMS



No. PH-87
$4.99
Lots of 3, $4.50 ea.

85,000 ohms impedance. Response: 100 to 10,000 cps. Spring steel adjustable headband, covered with soft cushion plastic. 8 ft. cord with phone tips. Complete with instructions. Shipping weight ½ lb.

## HEADPHONES

★ Adjustable



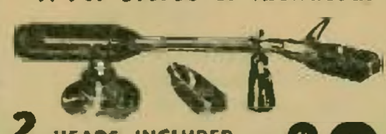
No. PH-71
$1.99

New headphones. 4,000 ohm impedance. Spring steel headband, fully adjustable, flexible cord over 3 feet long, useful for schools, hams, etc. Shipping weight ½ lb.

8 Ohm Phones with ¼" Phone Plug
Shipping wt. ½ lb.
No. PH-27—Lots of 12, $2 Ea. $2.86

## PHONO ARM

★ For Stereo or Monaural Use!



No. RP-237

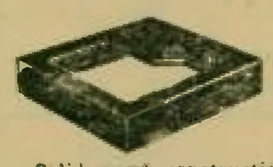
2 HEADS INCLUDED

$9.95

This new 12" phono arm is dynamically balanced, and will track at lowest pressure recommended by cartridge manufacturers. May be mounted on any turntable. Shipping weight 3 lbs.

Eliot B. Foot, P. O. Box 56, Bradford, N. H., wins choice of merchandise worth $5 from Olson's "Treasure Hunt." See back cover for instructions.

## CHANGER BASES



★ Made In U.S.A.

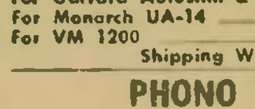
YOUR CHOICE $4.88

Solid wood construction with handsome dark wood finish. Pre-cut to match changer exactly. Overall size: 14¾" x 13¼" x 2⅝"

For Garrard Type "A" ____ No. CA- 40
For Garrard Autoslim & AT-6 ____ No. CA-151
For Monarch UA-14 ____ No. CA-212
For VM 1200 ____ No. CA- 65

Shipping Wt. 3 lbs.

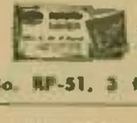
## PHONO SLIDES



Ball bearing slides extend to 19". Capacity 50 lbs. Lots of 12 pr., ea. pr. $1.25. Shipping wt. 3 lbs.

No. X-642, 3 pr. for $4.50 ____ pr. $1.69

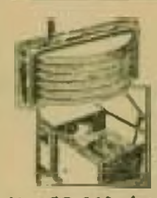
## RECORD KLEENER CLOTH



Silicon treated. Eliminates static charges, also lubricates. Shipping wt. ¼ lb.

Lots of 12, ea. 50c.
No. RP-51, 3 for $1.00 ____ Ea. 44c

## PHONO LIGHT



Illuminates record changer when cabinet lid is raised. Chrome frame with opaque white lens. Size: 5½" x 1¼". For 115 volts AC. With bulb. Shipping weight ½ lb.

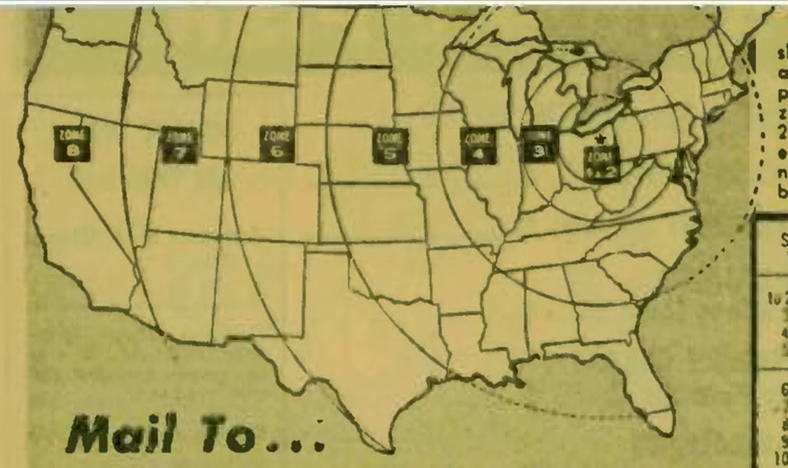
3 for $3.00
No. RP-181, lots of 12, ea. 75c ____ $1.29

## STYLUS MICROSCOPE



3⅝" x ½". 40 power. Lots of 12, ea. 89c.

No. N-92
3 for $3.00 ____ $1.19



**Mail To...**

**OLSON ELECTRONICS, INC.**
**260 S. Forge St.**
**Akron, Ohio 44308**

Postal Regulations limit Parcel Post shipments to 70 lbs. EXCEPTION: Those addressed for city delivery to a first class post office limit shipments to 20 lbs. to zones 3 to 8 and 40 lbs. to zones 1 and 2. All shipments will be via Parcel Post except those which postal regulations will not permit. In such cases, shipment will be via truck or express.

| Ship Wt. | Local | Zone 1 & 2 | Zone 3 | Zone 4 | Zone 5 | Zone 6 | Zone 7 | Zone 8 |
|---|---|---|---|---|---|---|---|---|
| to 2 lbs | $ 24 | $ 33 | $ 35 | $ 39 | $ 45 | $ 51 | $ .58 | $ 64 |
| 3 lbs. | 26 | 38 | 41 | 47 | 55 | 64 | 74 | 83 |
| 4 lbs. | 28 | 43 | 47 | 55 | 65 | 77 | .90 | 1 02 |
| 5 lbs. | 30 | 48 | 53 | 63 | 75 | 90 | 1.06 | 1 21 |
| 6 lbs | 32 | 53 | 59 | 70 | 85 | 1 03 | 1 22 | 1 40 |
| 7 lbs | 34 | 58 | 65 | 77 | 95 | 1 16 | 1 38 | 1 59 |
| 8 lbs | 36 | 63 | 71 | 84 | 1 05 | 1 29 | 1 54 | 1 78 |
| 9 lbs | 38 | 68 | 77 | 91 | 1 15 | 1 42 | 1 70 | 1 97 |
| 10 lbs | 40 | 73 | 83 | 98 | 1 29 | 1 55 | 1 86 | 2 16 |
| 11 lbs | 42 | 77 | 89 | 1 05 | 1 35 | 1 67 | 2.02 | 2 34 |
| 12 lbs | 44 | 81 | 95 | 1 12 | 1 45 | 1 79 | 2 18 | 2 52 |
| 13 lbs | 46 | 85 | 1.01 | 1 19 | 1 55 | 1 91 | 2 34 | 2 70 |
| 14 lbs | 48 | 89 | 1 07 | 1 26 | 1 65 | 2 03 | 2 50 | 2 88 |
| 15 lbs. | 50 | 93 | 1 13 | 1 33 | 1 75 | 2 15 | 2 66 | 3.06 |
| 16 lbs | 52 | 97 | 1.18 | 1 40 | 1.95 | 2 27 | 2.81 | 3.24 |
| 17 lbs | 54 | 1 01 | 1 23 | 1 47 | 1.95 | 2 39 | 2.96 | 3.42 |
| 18 lbs | 56 | 1 05 | 1 28 | 1 54 | 2.05 | 2 51 | 3 11 | 3 60 |
| 19 lbs | 58 | 1 09 | 1 33 | 1 61 | 2.15 | 2 63 | 3.26 | 3.78 |
| 20 lbs. | 60 | 1 13 | 1 38 | 1 68 | 2.25 | 2 75 | 3.43 | 3.96 |

**INSURANCE FEE**

| | |
|---|---|
| Up to $10.00 | .10 |
| $10.01 to $50.00 | .20 |
| $50.01 to $100.00 | .30 |
| $100.01 to $200.00 | .40 |

Send **adequate** amount by check or Money Order for merchandise, postage, etc.

**WE REFUND EVERY CENT NOT USED**

Olson

*"32 Years of Square Dealing"*

**IF A LETTER APPEARS IN THIS COLUMN, SEE INVOICE FOR "CHANGES IN FILLING YOUR ORDER"**

| DO NOT USE | QUANTITY | STOCK NO. | DESCRIPTION | SHIP. WT. | PRICE EACH | TOTAL | DO NOT USE |
|---|---|---|---|---|---|---|---|
| | | | | | | $ | |
| | | | | | | | |
| | | | | | | | |
| | | | | | |




ELAC

# 8" Full Range SPEAKER

★ 15 Watts Power
★ Response 40-15,000 CPS

**No. S-517**

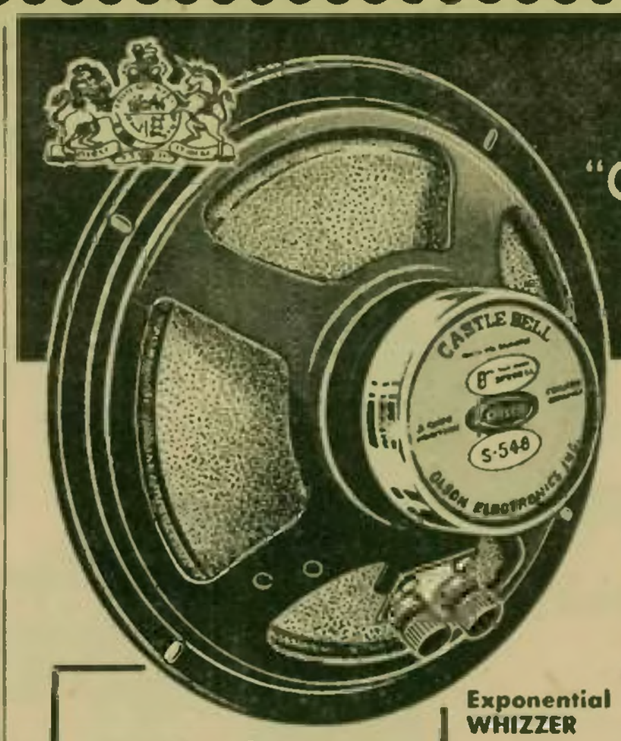
**$3.49**

2 FOR $6.50

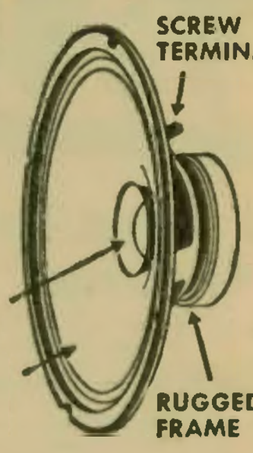
This beautifully crafted loudspeaker has a richness of tone which belies its size. A one inch, 8 ohm double wound voice coil with special felt centering, excellent quality fibre cone, and concentric exponential high frequency whizzer. Heavy duty ticonal magnet. Priced at far less than its worth due to an OLSON mass purchase. Use for main system or as add-on speakers in den, bedroom, etc. Size: 8" diam. x 2¾" deep. Shipping weight 3 lbs.

A. Holloway, 14 E. Hamilton St., Oberlin, Ohio, wins choice of merchandise worth $5 from Olson's "Treasure Hunt." See back cover for instructions.

Imported from ENGLAND




# Olson "Castle Bell" 8" Full Range SPEAKER




**No. S-548**

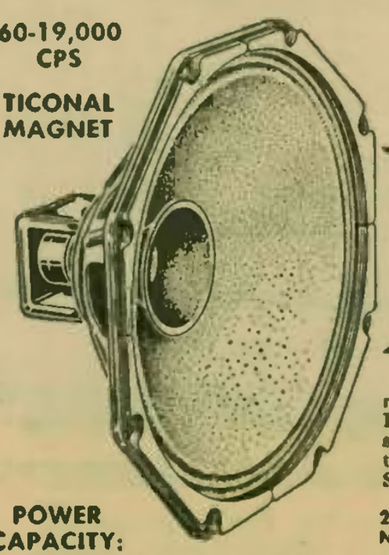
**$5.98**

2 for $11.50

★ Heavy Duty Ceramic Magnet
★ Resp.: 30-16,000 CPS
★ Imported From England

Made in England by unhurried craftsmen who are proud to produce precision speakers to exacting specifications. A full range, heavy duty 8" speaker featuring a rugged ceramic magnet and double wound voice coil. The flexedge cone and exponential high frequency whizzer deliver smooth rich bass and crisp clean highs. Ideal for space saving stereo systems or extension speakers for stereo or hi-fi. Don't miss this TOP VALUE! Response 30 to 16,000 cps. Impedance 8 ohms. Shipping weight 4 lbs. Write for special large quantity prices.

60-19,000 CPS
TICONAL MAGNET



POWER CAPACITY: 8 WATTS

# Norelco 8" HI-FI SPEAKER

Model AD-3800

**$4.99** No. S-278

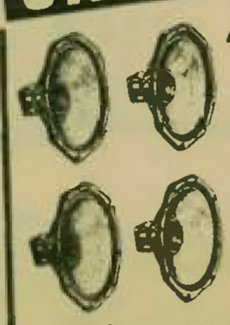
2 for $9

Precision made 8" speaker with coaxially mounted dispersion cone. Imported from Holland. Ideal for stereo and hi-fi extension speakers or PA and intercom installations. Size: 8" x 3¾". Impedance: 8 ohms. Shipping weight 3 lbs.

24 Ga. Speaker Cable, 53 Ft., No. W-361 ..... 99c

Crossover Capacitor Kit No. AS-552 ..... $1.50

SAVE

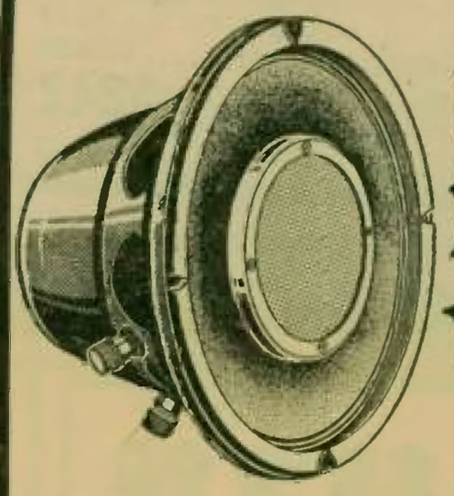


Norelco "HI-FI FOUR" No. AS-892 ALL FOUR **$16**

Added cone area improves bass response. Get big speaker sound at small speaker cost. Buy now and take advantage of this special low price. Shipping weight 12 lbs.

Olson **6½" Coaxial SPEAKE**

- Response 50 to 16,000 CPS
- Ideal for Space Saving Stereo Syste

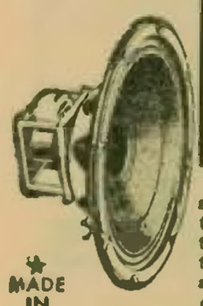


**$6.85** 2 for $12.75 No. S-496

Ideal for apartments or small rooms wh space will not permit larger speakers. Featu heavy duty magnet and 2" shielded tweeter LC crossover network. Impedance: 8 ohms. sponse: 50 to 16,000 CPS. Power capacity watts. Shipping weight 4 lbs.

"Sweet Sixteen"

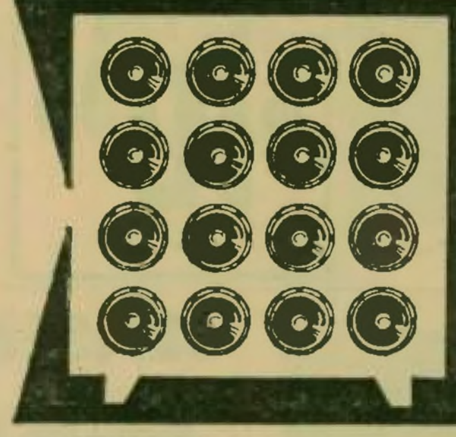
# 5" SPEAKER



No. S-340 **$1.19** 3 for $3.50

★ MADE IN U.S.A.

The perfect 5" PM speaker for building the popular "sweet sixteen" system. (Instructions included.) Impedance 3.2 ohms. 2 watts each. Shipping weight ½ lb. each



"SWEET SIXTEEN" Five - Inch **16 Speakers**

ALL 16 ONLY **$17**

Big speaker sound at small speaker price. Speakers are the S-340 at left. A best seller. Shpg. wt. 5½ lbs.

24 Ga. Speaker Cable, 53 ft., W-361 ..... 99c

# JENSEN 12" Hi-Fi SPEAKER




Was $17.95 in 563 Cat. only **$8.88** No. S-551

● Resp. 40-15,000 CPS ● 20 Watt

Integrated woofer and tweeter gives perfect balance of both high and low tones. Woofer cone radiates full rich bass while whizzer cone gives wide angle dispersion to high frequencies. 8 ohms. Crossover: 2000 CPS. Magnet: Ceramic (flux density 9500). Shipping weight 7 lbs.

Crossover Capacitor Kit, No. AS-552 ..... **$1.50**

"Golden Classic" 12" COAXIA

12" Woofer
3" Tweeter



HEAVY DUTY FRAME

No. S-311
**$7.9**
2 for $15.5

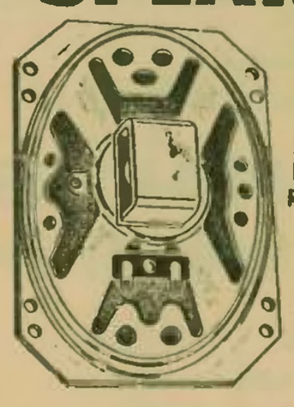
Heavy fra built-in cross network, freque response from to 15,000 cycles. Capacity full 12 wa Voice coil 8 ohms. 12" WOOFER S TION faithfully delivers all the true n ral bass and middle register tone. TWEETER SECTION faithfully re duces all the clean and brilliant hig features the latest parabolic cone. Sh ping weight 8 lbs.

Olson **ALNICO V SPEAKERS**

★ MAY BE ASSORTED FOR QUANTITY PRICES

High quality PM speaker for replacements and original equipment applications.

# 4"x6" PM SPEAKER

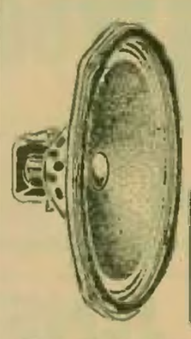


COMPACT
★
Application: Extension or Replacement
★
Ribbed Cone
★
3.2 Ohm

No. S-579 **$1.19** 3 for $3.00

MADE IN U.S.A.

Shipping wt. 3 lbs.



**6" x 9" PM SPEAKER**

- Application: Auto radios, etc.
- Voice Coil: 8 ohms
- Magnet wt.: 1.47 oz.
- Power: 8 watts

Shipping wt. 3 lbs.

No. S-224 Each 3, @ $2.50 Ea. 100, @ $2.16 Ea. **$2.76**

**6" PM SPEAKER**

For general replacement. Voice coil 3.2 ohms. 1.47 oz. magnet. Rated 5 watts. Shpg. wt. 3 lbs.

LOTS OF 100, EA. $1.73

No. S-7, Lots of 3, Ea. $2.09 ..... Ea. $2.29

**8" PM SPEAKER**

For general replacement. Voice coil 8 ohms. 2.15 oz. magnet. Rated 7 watts. Shpg. wt. 3 lbs.

LOTS OF 100, EA. $2.32

No. S-86, Lots of 3, Ea. $3.29, ..... Ea. $3.49

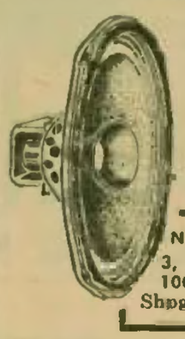


**4" PM SPEAKER**

Ideal for replacement in radio, TV, or phono. Alnico 5 magnet. Shpg. wt. ¼ lb.

3 @ 80c

No. S-568, 100 @ 70c, ea. 89c



**6" x 9" HI-FI PM**

- Aluminum Voice Coil
- Hi-Frequency Whizzer
- Application: Rear deck speaker, auto radios, etc.
- Voice Coil: 8 ohms
- Magnet wt.: 2.15 oz.
- Power: 8 watts

No. S-280 Each 3, @ $3.33 Ea. 100, @ $2.73 Ea. **$3.69** Shpg. wt. 4 lbs.



**5" x 7" PM SPEAKER**

For replacement auto radios, etc. Voice Coil: 8 ohms. 1.0 oz. magnet. Power: 6 watts. Shipping weight 3 lbs.

100, @ $1.99 Ea.

No. S-113, 3 @ $2.19 Ea., Ea. 2.49



**5" PM SPEAKER**

For general replacement. Voice coil 3.2 ohms 1.0 oz. magnet. Rated 4 watts. Shipping weight ¾ lb.

LOTS OF 100, EACH $1.47

No. S-336, 3 @ $1.67, ea., Ea. $1.79



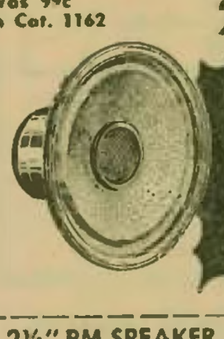
**4" SPEAKER**

● 3.2 ohm Voice Coil. .68 oz. magnet. Ideal for replacement in radio or phono. Shpg. wt. ¼ lb.

No. S-564 (3 @ 80c ea., 89c

Was 99c in Cat. 1162

# 2" PM SPEAKER BARGAIN



No. S-433 **69c** 3 @ 63c each 100 @ 59c each

★ Replacement Speaker
★ Miniature Microphone
★ Stereo Headphones
★ Experimental Use

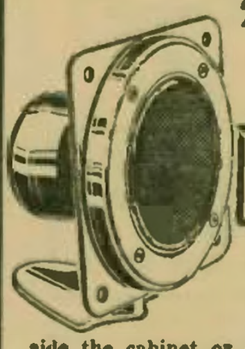
A once-in-a-lifetime purchase ma possible this unusually low price this fine miniature speaker. Use a where sound reproduction is desired a very limited space. Imp 8 ohms, oz. mag. 2" dia. x 7/8" deep. Shipp weight ¼ lb. Write for special la quantity prices.

**2¼" PM SPEAKER** Use as an added microphone or simply as a replacement spea in transistor radios and intercoms. Use anywhere sound reproduction is desired i very limited space. Impedance 8 ohms, 0.5 oz. mag. 2¼" dia. x 7/8" deep. Shpg. wt. ¼ Write for special large quantity prices.

No. S-532, 3 for $2.30 12 @ 70c ea. ..... EA. **88**

2¾" HARD CONE

# TWEETER



**$2.49** No. S-297

Ideal for "Sweet 16 plus 4". Finished in gleaming gold enamel, can be mounted inside the cabinet or on top. 15 watts. Response 1200 to 15,000 cps. 8 ohms. Size: 3x3x2". Shipping weight ¾ lb.

Crossover Capacitor Kit ..... No. AS-552, $1.50

**CROSSOVER CAPACITOR KI**

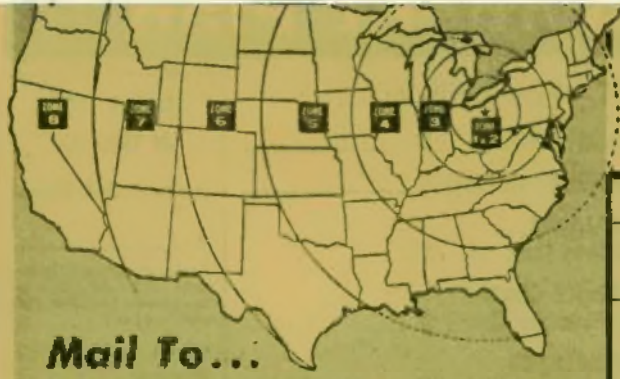


KIT OF

No. AS-552 **$1.50**

2 Kits for $2.95

This kit contains 5 popular values non-polarized electrolytic capacitors. Id for crossovers in two or three speak systems. Kit includes one each of following values: 4, 10, 25, 50, and mfd., plus a circuit diagram of two a three speaker systems. Shpg. wt. ¼



Postal Regulations limit Parcel Post shipments to 70 lbs. EXCEPTION: Those addressed for city delivery to a first class post office limit shipments to 20 lbs. to zones 3 to 8 and 40 lbs. to zones 1 and 2. All shipments will be via Parcel Post except those which postal regulations will not permit. In such cases, shipment will be via truck or express.

**INSURANCE FEE**

| | |
|---|---|
| Up to $10.00 | .10 |
| $10.01 to $50.00 | .20 |
| $50.01 to $100.00 | .30 |
| $100.01 to $200.00 | .40 |

| Ship Wt. | Local | Zone 1 & 2 | Zone 3 | Zone 4 | Zone 5 | Zone 6 | Zone 7 | Zone 8 |
|---|---|---|---|---|---|---|---|---|
| to 2 lbs | $ 24 | $ 33 | $ 35 | $ 39 | $ 45 | $ 51 | $ 58 | $ 64 |
| 3 lbs | 26 | 38 | 41 | 47 | 55 | 64 | 74 | 83 |
| 4 lbs | 28 | 43 | 47 | 55 | 65 | 77 | 90 | 1 02 |
| 5 lbs | 30 | 48 | 53 | 63 | 75 | 90 | 1 06 | 1 21 |
| 6 lbs | 32 | 53 | 59 | 70 | 85 | 1 03 | 1 22 | 1 40 |
| 7 lbs | 34 | 58 | 65 | 77 | 95 | 1 16 | 1 38 | 1 59 |
| 8 lbs | 36 | 63 | 71 | 84 | 1 05 | 1 29 | 1 54 | 1 78 |
| 9 lbs | 38 | 68 | 77 | 91 | 1 15 | 1 42 | 1 70 | 1 97 |
| 10 lbs | 40 | 73 | 83 | 98 | 1 25 | 1 55 | 1 86 | 2 16 |
| 11 lbs | 42 | 77 | 89 | 1 05 | 1 35 | 1 67 | 2 02 | 2 34 |
| 12 lbs | 44 | 81 | 95 | 1 12 | 1 45 | 1 79 | 2 18 | 2 52 |
| 13 lbs | 46 | 85 | 1 01 | 1 19 | 1 55 | 1 91 | 2 34 | 2 70 |
| 14 lbs | 48 | 89 | 1 07 | 1 26 | 1 65 | 2 03 | 2 50 | 2 88 |
| 15 lbs | 50 | 93 | 1 13 | 1 33 | 1 75 | 2 15 | 2 66 | 3 06 |
| 16 lbs | 52 | 97 | 1 18 | 1 40 | 1 85 | 2 27 | 2 81 | 3 24 |
| 17 lbs | 54 | 1 01 | 1 23 | 1 47 | 1 95 | 2 39 | 2 96 | 3 42 |
| 18 lbs | 56 | 1 05 | 1 28 | 1 54 | 2 05 | 2 51 | 3 11 | 3 60 |
| 19 lbs | 58 | 1 09 | 1 33 | 1 61 | 2 15 | 2 63 | 3 26 | 3 78 |
| 20 lbs | 60 | 1 13 | 1 38 | 1 68 | 2 25 | 2 75 | 3 41 | 3 96 |

Send adequate amount by check or Money Order for merchandise, postage, etc.

**WE REFUND EVERY CENT NOT USED**

Olson

*"32 Years of Square Dealing"*

**Mail To...**

**OLSON ELECTRONICS, INC.**
**260 S. Forge St.**
**Akron, Ohio 44308**

**IF A LETTER APPEARS IN THIS COLUMN, SEE INVOICE FOR "CHANGES IN FILLING YOUR ORDER"**

| DO NOT USE | QUANTITY | STOCK NO. | DESCRIPTION | SHIP. WT. | PRICE EACH | TOTAL | DO NOT USE |
|---|---|---|---|---|---|---|---|
| | | | | | | $ | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

**ADD 50¢ HANDLING CHARGE IF ORDER IS UNDER $5.00**

**★NOTICE★**

Save! No need to guess about postage. Pay by check. Make your check payable to "Olson Electronics." Leave the amount blank; we'll fill in the exact cost for goods and postage. Eliminates paying us small balances. Eliminates Refund Vouchers.

| | | |
|---|---|---|
| 1 | TOTAL POUNDS | PRICE TOTAL |
| 2 | INSURANCE *Plus* POSTAGE | |
| 3 | ADD SALES TAX (Not applicable if shipment is interstate) | |
| 4 | **TOTAL AMOUNT** | |

5 ☐ REMITTANCE ENCLOSED
☐ SEND C.O.D. $2.00 DEPOSIT ENCLOSED
☐ EASY PAY PLAN (See Other Side)

**IF YOU HAVE MOVED PLEASE WRITE YOUR OLD ADDRESS HERE**

6 Print Name & Address in Boxes Below ▼ Ship Via_____

COMPANY

FIRST INITIAL | MIDDLE INITIAL | LAST NAME

ADDRESS

TOWN OR POST OFFICE | STATE

**264 FGHJK**

# OLSON Easy Payment Plan

## MINIMUM EASY PAY BALANCE $50

**ADDITIONAL PURCHASES:** Once you establish credit, you can "add-on" to your account with purchases of $25.00 or more. Just list the items you want on the order blank, check ADD TO MY ACCOUNT, and give your account number.

### HERE IS ALL YOU DO . . .

1. Fill out Order Blank on reverse side.
2. Complete "Agreement" at right.
3. First-time applicants for "Olson's Easy Pay Plan" complete application form at bottom of page.
4. Previously approved "Olson Easy Pay Plan" customers complete above steps 1 and 2 only.

**MAIL TO:**

**OLSON ELECTRONICS, INC.**
**260 S. Forge Street**
**Akron, Ohio 44308**

### TAKE UP TO 24 MONTHS TO PAY

### EASY PAYMENT CHART

| | Standard Terms | | Extended Terms | |
|---|---|---|---|---|
| UNPAID BALANCE | CREDIT SERVICE CHARGE | MONTHLY PAYMENTS | CREDIT SERVICE CHARGE | MONTHLY PAYMENTS |
| $50.00 – $60.00 | $ 6.00 | $ 7.00 | | |
| 60.01 – 70.00 | 7.00 | 7.00 | | |
| 70.01 – 80.00 | 8.00 | 8.00 | | |
| 80.01 – 90.00 | 9.00 | 9.00 | | |
| 90.01 – 100.00 | 10.00 | 10.00 | | |
| 100.01 – 110.00 | 11.00 | 10.00 | $16.00 | $ 7.00 |
| 110.01 – 120.00 | 12.00 | 11.00 | 18.00 | 7.00 |
| 120.01 – 130.00 | 13.00 | 11.00 | 19.00 | 8.00 |
| 130.01 – 140.00 | 14.00 | 12.00 | 21.00 | 8.00 |
| 140.01 – 150.00 | 15.00 | 13.00 | 22.00 | 9.00 |
| 150.01 – 160.00 | 16.00 | 14.00 | 24.00 | 10.00 |
| 160.01 – 170.00 | 17.00 | 15.00 | 25.00 | 11.00 |
| 170.01 – 180.00 | 18.00 | 16.00 | 27.00 | 11.00 |
| 180.01 – 190.00 | 19.00 | 17.00 | 28.00 | 12.00 |
| 190.01 – 200.00 | 20.00 | 18.00 | 30.00 | 13.00 |
| 200.01 – 250.00 | 23.00 | 20.00 | 45.00 | 13.00 |
| 250.01 – 300.00 | 28.00 | 25.00 | 55.00 | 15.00 |
| 300.01 – 350.00 | 33.00 | 30.00 | 65.00 | 17.00 |
| 350.01 – 400.00 | 38.00 | 35.00 | 75.00 | 19.00 |
| 400.01 – 450.00 | 43.00 | 40.00 | 85.00 | 22.00 |
| 450.01 – 500.00 | 48.00 | 45.00 | 95.00 | 25.00 |

**OVER $500.00 WRITE FOR DETAILS**

### AGREEMENT — Please Fill In:

1. **TOTAL CASH AMOUNT** ... $ _____
2. **DOWN PAYMENT (if any)** $ _____
3. **UNPAID BALANCE (Item 1 Minus Item 2)** ... $ _____
4. **CREDIT SERVICE CHARGE (See Easy Payment Chart)** $ _____
5. **EASY PAY BALANCE (Item 3 Plus 4)** _____ $ _____

☐ New Account
☐ Add to my account: No. _____
☐ Make this a separate account
BE SURE TO SIGN BELOW AT X

**DO NOT WRITE IN THIS BOX**

**Amount Due Olson:**
$ _____
(Includes delivery, insurance, tax, etc., if any. See invoice included with merchandise.)

**Credit Service Charge:**
$ _____

**Adjusted Easy Pay Balance:**
$ _____

Buyer agrees to pay the Adjusted Easy Pay Balance in _____ consecutive monthly installments beginning 30 days from the date hereof unless a different first payment date is inserted at this point _____ Each installment shall be in the amount of $ _____ EXCEPT the final installment which shall be $ _____ payments to be made at the place designated by the Seller or its assignee.

If payments are not made within 10 days after date Buyer agrees to pay late charges of 5 cents per dollar in addition to the regular installment, but not to exceed the lawful maximum. Seller shall retain title to and right to possession of merchandise until fully paid. Upon default of any payment Seller may declare entire unpaid balance due at once and may also repossess merchandise retaining previous payments as compensation for the use thereof. If proceeds of resale of merchandise are insufficient to cover Buyer's obligation, Buyer will pay the deficiency to Seller, if proceeds result in overage, Seller will pay such overage to Buyer. This agreement may be assigned without notice to Buyer and when assigned shall be free from any defense, counterclaim or cross complaint by Buyer. It is agreed that the Seller shall have the authority to add delivery, insurance, tax, etc., if any, to the Total Cash Amount and to correspondingly increase the Credit Service Charge and Adjusted Easy Pay Balance. It is also agreed that the Seller, in the event it is unable to ship any part of the named merchandise for any reason whatsoever, may change the Easy Pay Balance by the appropriate sum and to correspondingly decrease the Credit Service Charge and Adjusted Easy Pay Balance. A copy of this agreement shall be forwarded to the Buyer by the Seller. This agreement shall not be binding on the parties until accepted by the Seller at its offices in Akron, Ohio. This agreement shall be governed by the Laws of the State of Ohio.

Buyer Sign Here X _____ Date _____

Buyer Sign Here X _____ Date _____

**Accepted by OLSON ELECTRONICS, INC., at Akron, Ohio (Seller)**

Signature of Officer _____ Date _____

## APPLICATION FOR EASY PAYMENT PLAN

Please answer by printing all questions fully to help establish your credit promptly. Omissions and errors cause delays. **NOTE:** Easy payment contracts cannot be accepted from persons under 21 years of age. If you are under 21, have this form filled out by a person of legal age, regularly employed or engaged in business. He can make the purchase for you, and will be responsible for payment. Credit available only to residents of the continental United States.

Purchaser's Name _____ Age _____ Married ☐ Single ☐ No. Dependents _____

Street No. _____ Employer _____

City _____ Zone _____ State _____ Address _____

How Long At This Address _____ Yrs. Phone No. _____ How Long Employed _____ Yrs. Monthly Income _____ Dept. _____

If Rent— (Mo. Rental $ _____) Landlord's Name _____ Present Occupation _____

Landlord's Address _____ Previous Employer _____

If Buying or Own— (Value $ _____) Mortgagee's Name _____ Address _____

Previous Address _____ How Long Employed _____ Yrs. Wife's Name _____

Name of Nearest Relative Not Living With Purchaser _____ Wife's Employer _____

Address _____ Address _____

Bank Account With _____ Address _____ Savings ☐ Checking ☐

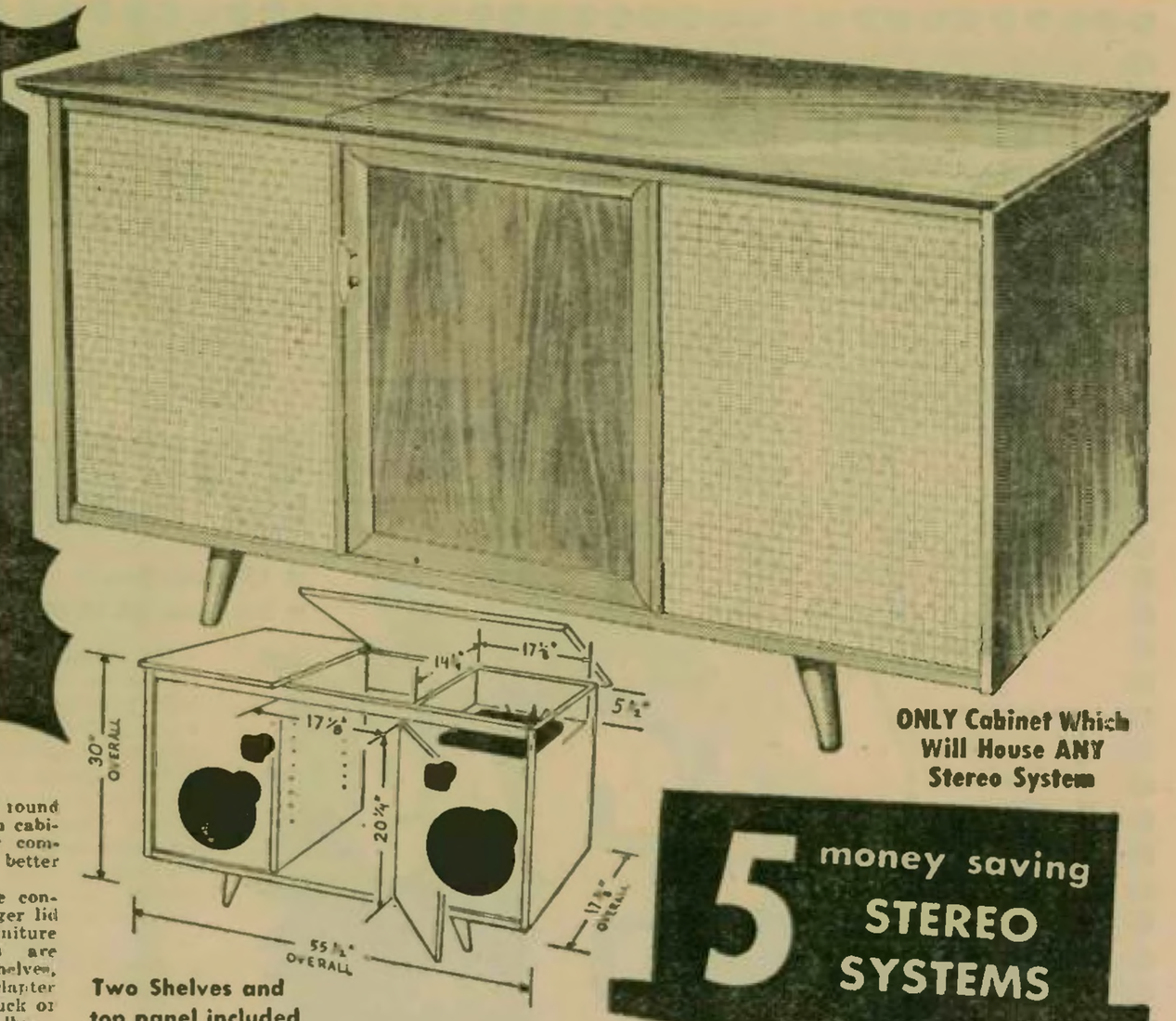
First Credit Reference _____ Account Open ☐ Account Closed ☐

Second Credit Reference _____ (Name) _____ (Address) _____ (City and State) _____ Account Open ☐ Account Closed ☐

(Name) _____ (Address) _____ (City and State) _____

# STEREO/HI-FI Console CABINET SALE

REG. ~~$99~~
NOW
**$88**
$9 MONTHLY
NO MONEY DOWN
No. CA-275




ONLY Cabinet Which Will House ANY Stereo System

Two Shelves and top panel included

## Oiled Walnut Finish Fits Any Decor

The unique design of this cabinet centers on the tuner and amplifier compartment. Two pre-finished shelves, each fully adjustable, are provided for tuner and amplifier placement within the center compartment. Also, grained boards are included—one for the center section (under hinged lid) if you prefer to hang your equipment down with the hole horizontal facing up. (This board can be used to mount your tape deck instead if you desire). The other board is for mounting control panels when custom installing your equipment in the front center section. You may decide only to set your tuner and amplifier on the shelves provided, forget the "custom mounting"—this is fine since the shelves and compartment are completely pre-finished and will retain a built-in look. The remaining area below may be used for record or tape storage.

The record changer mounting board is easily removed and can be cut to fit your particular changer. The area above changer board is 6" and the area below top of mounting board is 3".

Each speaker compartment is pre-cut for a 3" round tweeter and a 12" speaker. Also included with each cabinet are two 8" speaker adapter boards. Speaker compartments are completely enclosed in back for better acoustic characteristics.

The elegant hardwood walnut veneer finish, the contrasting cane grille cloth, even the adjustable changer lid holding mechanism all attest to the excellent furniture craftsmanship. Complete cabinet measurements are shown in diagram at right. Cabinet comes with 2 shelves, top panel, front panel and 2 eight inch speaker adapter boards. Speaker mtg. studs installed. Shipped by truck or express from Batavia, N. Y. Shipping weight 126 lbs.

## 5 money saving STEREO SYSTEMS

### SALE! STEREO SYSTEM I

| | |
|---|---|
| 1-Stereo Console Cabinet (above) No. CA-275 | $88.00 |
| 1-Perpetuum Ebner Changer (pg. 9) RP-250 | 18.00 |
| 2-Jensen 12" Speakers (pg. 14) No. S-551 | 17.76 |
| 1-Stereo Amplifier (pg. 6) No. AM-217 | 34.98 |
| TOTAL REG. PRICE | $158.74 |
| No. AS-835 SYSTEM PRICE | $149 |

SYSTEM Less Cabinet No. AS-873 $61.89

### SALE! STEREO SYSTEM II

| | |
|---|---|
| 1—Stereo Console Cabinet (above) No. CA-275 | $88.00 |
| 1—50 Watt Stereo Amp. (pg. 6) No. AM-240 | 99.98 |
| 2—12" Full-Range Speakers (pg. 13) No. S-495 | 26.50 |
| 1—Garrard "Autoslim" Changer (pg. 9) No. RP-224 | 39.50 |
| 1—Pickering Stereo Cart. (pg. 10) No. PC-96 | 16.88 |
| TOTAL REG. PRICE | $270.86 |
| No. AS-869 SYSTEM PRICE | $242 |

SYSTEM Less Cabinet No. AS-874 $155.39

### SALE! STEREO SYSTEM III

| | |
|---|---|
| 1-Stereo Console Cabinet (above) No. CA-275 | $88.00 |
| 1-FM/AM-MPX Tuner & 20 Watt Stereo Amp. (pg. 7) No. AM-230 | 99.93 |
| 2-Jensen 12" Speakers (pg. 14) No. S-551 | 17.76 |
| 1-Garrard "Autoslim" Changer (pg. 9) RP-224 | 39.50 |
| 1-Pickering Stereo Cart. (pg. 10) No. PC-96 | 16.88 |
| TOTAL REG. PRICE | $262.07 |
| No. AS-838 SYSTEM PRICE | $244 |

SYSTEM Less Cabinet No. AS-875 $157.39

### SALE! STEREO SYSTEM IV

| | |
|---|---|
| 1—Stereo Console Cabinet (above) No. CA-275 | $88.00 |
| 1—30 Watt Stereo Amplifier (pg. 6) No. AM-229 | 69.98 |
| 1—FM-AM-FM/MPX Tuner (pg. 6) No. RA-580 | 79.98 |
| 2—12" Full-Range Speakers (pg. 13) No. S-495 | 26.50 |
| 1—Garrard "Autoslim" Changer (pg. 9) No. RP-224 | 39.50 |
| 1—Pickering Stereo Cart. (pg. 10) No. PC-96 | 16.88 |
| TOTAL REG. PRICE | $320.84 |
| No. AS-868 SYSTEM PRICE | $288 |

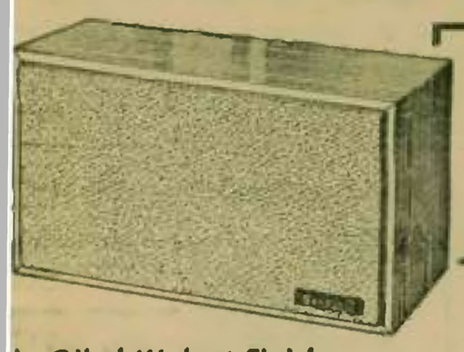
SYSTEM Less Cabinet No. AS-876 $201.39

### SALE! STEREO SYSTEM V

| | |
|---|---|
| 1-Stereo Console Cabinet (above) No. CA-275 | $88.00 |
| 1-FM-MPX Tuner, 30 Watt Stereo Amp. (pg. 7) No. RA-600 | 149.99 |
| 2-12" 3-way Speakers (pg. 15) No. S-600 | 39.00 |
| 1-Garrard "Autoslim" Changer (pg. 9) RP-224 | 39.50 |
| 1-Pickering Stereo Cart. (pg. 10) No. PC-96 | 16.88 |
| TOTAL REG. PRICE | $333.37 |
| No. AS-839 SYSTEM PRICE | $319 |

System less cabinet No. AS-877 $232.39

## Sonora 2 SPEAKER SYSTEM



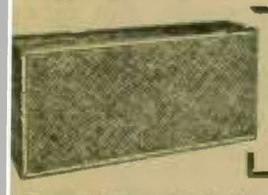
No. S- 537
**$17.98**
2 for $34.00

★ Oiled Walnut Finish
★ Response: 20-20,000 CPS
★ Power Capacity: 15 Watts

Completely assembled and ready to connect to any stereo or monaural amplifier. 2 speaker system with one 8" low frequency speaker and one 3½" tweeter, 8 ohm impedance. Handsome oiled walnut enclosure 18" x 9½" x 6½". Buy two for Stereo. Shipping weight 11 lbs.

## Sonora 3 SPEAKER SYSTEM

● 20—20,000 CPS ● 15 Watts

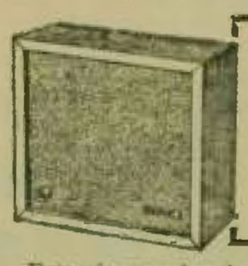


No. S-578
**$24.95**
2 for $47

Beautifully finished cabinet and matching grille cloth reflect the excellent craftsmanship throughout. Three matched speakers deliver flawless reproduction. Slimline styling blends tastefully with any decor. System contains one 8" speaker for bass tones, one 4" speaker for midrange tones and a 4" speaker for high frequencies. Oiled walnut enclosure is ported in back to eliminate speaker loading. Size: 24" W. x 11½" H. x 6" D. Shpg. wt. 15 lbs.

## Sonora 8" SPEAKER & CABINET

● Oiled Walnut
● Volume Control
● Wire Included

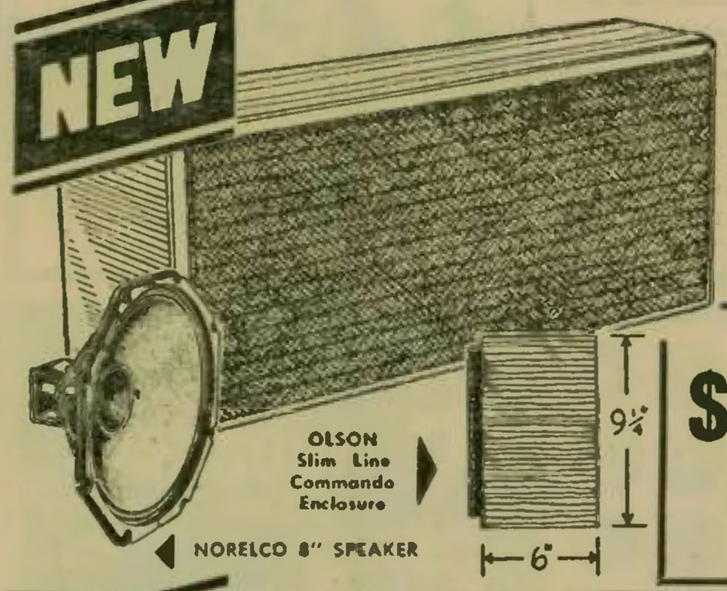


No. S-539
**$11.98**
2 for $23

Extension speaker for stereo or hi-fi. Built-in volume control permits adjustment of balance or volume without changing controls on main unit. Full range frequency response. 10 watts, 8 ohm. Size: 11⅞" x 11¾" x 4½". Shipping weight 6 lbs.

## NEW — Norelco-Olson "Slim-Line COMMANDO" SPEAKER & ENCLOSURE

★ Ready to Play—No Finish Required
★ Full ½" Acoustic Wood Construction
★ Response 45 to 19,000 CPS
★ Low Priced—Space Saving

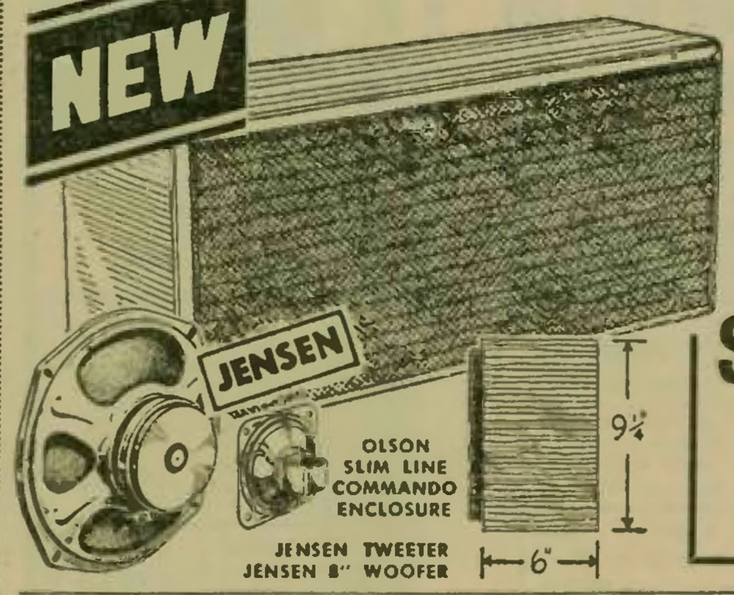



No. S-580
**$10.98**
2 for $21

Famous Norelco 8" speaker AD-5800 SS mounted and wired in a custom shelf size enclosure. Ready to connect and use. Size: 8" x 23⅝" x 9¼". Although no finish is required, cabinet may be painted, waxed, varnished, etc. Impedance 8 ohms, 6 watts. Shipping weight 21 lbs.

Ludwig Sech, Box 92, Gilbert, Minn., wins choice of merchandise worth $5 from Olson's "Treasure Hunt." See back cover for instructions.

## NEW — JENSEN SPEAKERS IN OLSON Slim-Line Commando Enclosure




No. S-581
**$17.98**
STEREO PAIR $32

★ Response: 50-16,000 cps
★ Impedance: 8 ohms
★ Modern Rich Grille Cloth

The famous Commando enclosure now houses a Olson designed 2-way system featuring famous Jensen speakers. Superb listening enjoyment at a very low cost, is yours through the Jensen 8" Woofer and 3½" Cone Tweeter. Speakers are matched and mounted—ready to play. Enclosure is scientifically designed to achieve the maximum bass response. Although no finish is required, enclosure may be painted, waxed or varnished. Size: 6" x 23⅝" x 9¼". Shipping weight 22 lbs.

## GIANT 15 INCH Full Range SPEAKERS



★ STEREO MATCHED
★ MADE IN U.S.A.

No. S-526
Two For
**$15.95**
Single No. S-530, $9.95

...ponse: ...13,000 cps ...wer Cap... ...watts ...ohm. Size: ...dia. x 5½" ... Shipping ...ght 12 lbs. ...pair.

...over Capacitor Kit No. AS-552, $1.50

## 2-WAY SPEAKER SYSTEM

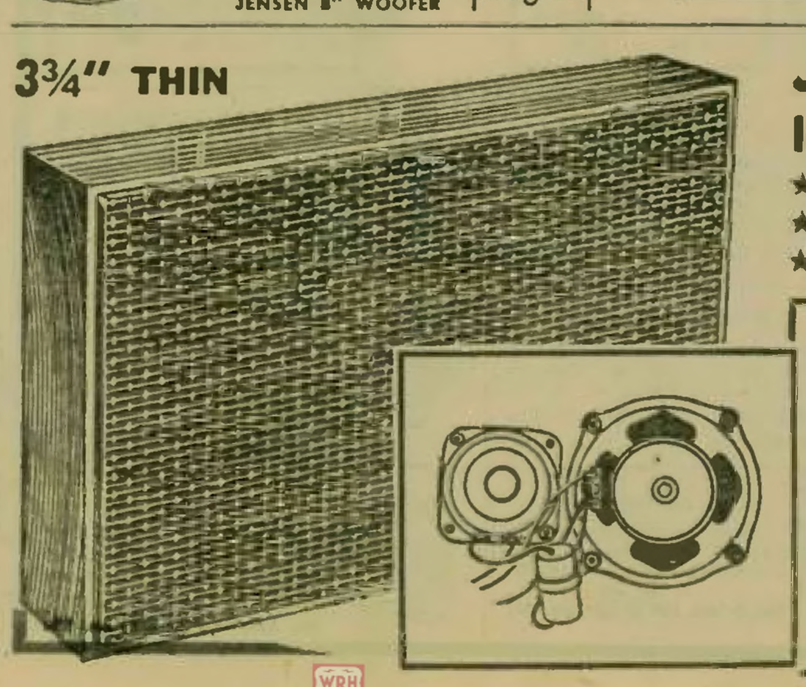
No. S-530 Olson 15" Woofer (left)
No. S-547 Horn Tweeter (pg. 13)
No. T-294 Spkr. Crossover (pg. 14)



No. AS-833
**$13.00**
Stereo Pr. $25.50

Delivers full rich tone impossible to achieve with smaller speaker systems. The heavy duty 15" woofer faithfully reproduces clean rich bass tones to 30 cps. Compression horn tweeter adds smooth, transparent treble response to the highest limits of audibility. Shipping weight 11½ lbs.

## 3¾" THIN — JENSEN SPEAKERS In Olson 2-Way Speaker System



★ 8" Jensen Woofer
★ 6-oz. Ceramic Magnet
★ 3½" Jensen Tweeter with Crossover

No. S-477
**$13.75**
2 FOR $27

Two-way system, with full rich sound. Wall mounting puts it out of the way but at ideal listening level. Attractive mahogany grained fabric covered cabinet with cane type grill. Impedance 8 ohms, with screw terminals. Size: 18" x 12" x 3¾". Shipping weight 7 lbs.




Imported from ENGLAND

No. S-517

$3.49

2 FOR $6.50

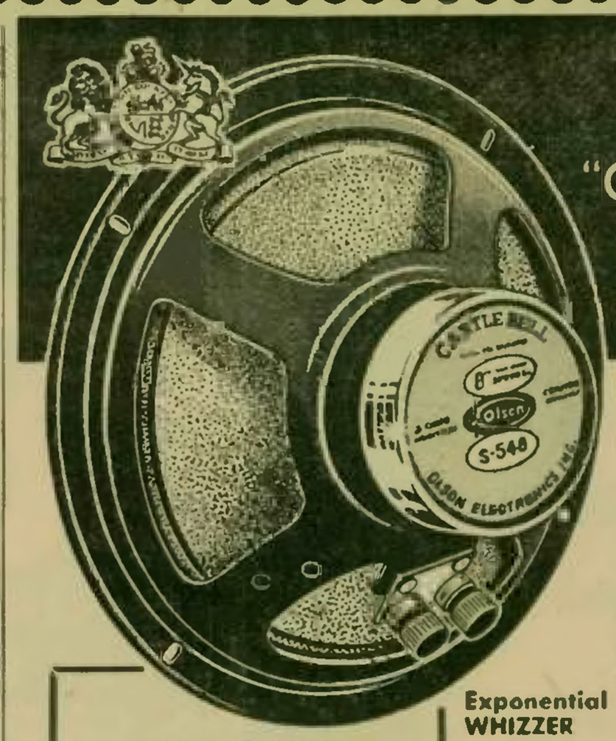
ELAC

# 8" Full Range SPEAKER

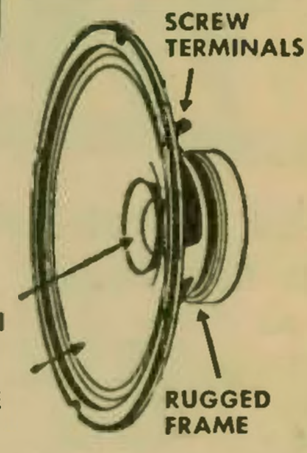
★ 15 Watts Power
★ Response 40-15,000 CPS

This beautifully crafted loudspeaker has a richness of tone which belies its size. A one inch, 8 ohm double wound voice coil with special felt centering, excellent quality fibre cone, and concentric exponential high frequency whizzer. Heavy duty ticonal magnet. Priced at far less than its worth due to an OLSON mass purchase. Use for main system or as add-on speakers in den, bedroom, etc. Size: 8" diam. x 2¾" deep. Shipping weight 3 lbs.

A. Holloway, 14 E. Hamilton St., Oberlin, Ohio, wins choice of merchandise worth $5 from Olson's "Treasure Hunt." See back cover for instructions.



# Olson "Castle Bell" 8" Full Range SPEAKER




Exponential WHIZZER

FLEXEDGE CONE

No. S-548

$5.98

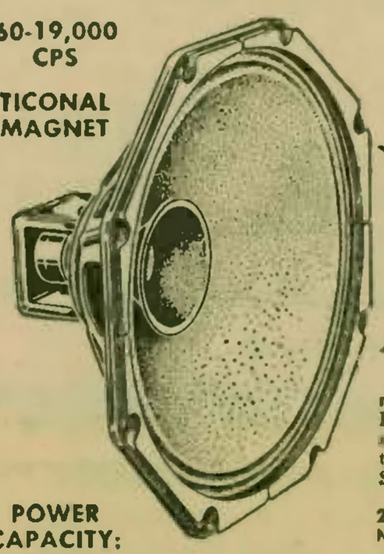
2 for $11.50

★ Heavy Duty Ceramic Magnet
★ Resp.: 30-16,000 CPS
★ Imported From England

Made in England by unhurried craftsmen who are proud to produce precision speakers to exacting specifications. A full range, heavy duty 8" speaker featuring a rugged ceramic magnet and double wound voice coil. The flexedge cone and exponential high frequency whizzer deliver smooth rich bass and crisp clean highs. Ideal for space saving stereo systems or extension speakers for stereo or hi-fi. Don't miss this TOP VALUE! Response 30 to 16,000 cps. Impedance 8 ohms. Shipping weight 4 lbs. Write for special large quantity prices.

60-19,000 CPS

TICONAL MAGNET



POWER CAPACITY: 8 WATTS

# Norelco 8" HI-FI SPEAKER

Model AD-3800

$4.99 No. S-278

2 for $9

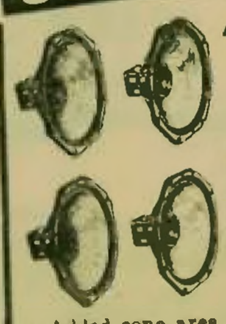
Precision made 8" speaker with coaxially mounted dispersion cone. Imported from Holland. Ideal for stereo and hi-fi extension speakers or PA and intercom installations. Size: 8" x 3⅝". Impedance: 8 ohms. Shipping weight 3 lbs.

24 Ga. Speaker Cable, 53 Ft., No. W-361 ..... 99c

Crossover Capacitor Kit No. AS-552 ..... $1.50

SAVE

Norelco "HI-FI FOUR" No. AS-892 ALL FOUR $16

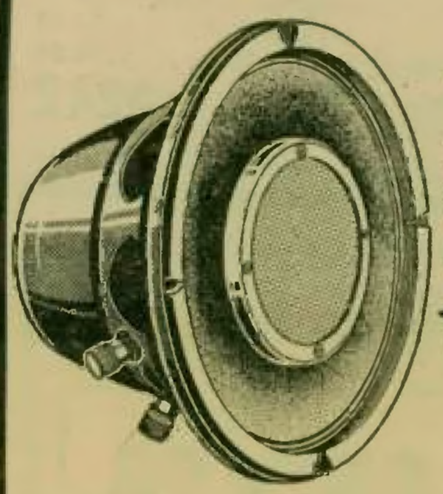


Added cone area improves base response. Get big speaker sound at small speaker cost. Buy now and take advantage of this special low price. Shipping weight 12 lbs.

Olson

# 6½" Coaxial SPEAKE

• Response 50 to 16,000 CPS
• Ideal for Space Saving Stereo Syste



$6.85

2 for $12.7

No. S-496

Ideal for apartments or small rooms wh space will not permit larger speakers. Feat heavy duty magnet and 2" shielded tweeter LC crossover network. Impedance: 8 ohms. sponse: 50 to 16,000 CPS. Power capacity watts. Shipping weight 4 lbs.

"Sweet Sixteen"

# 5" SPEAKER



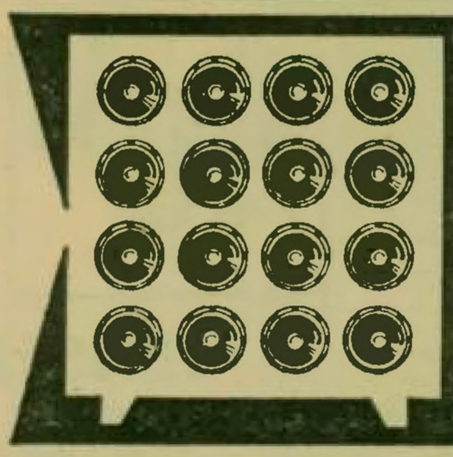
No. S-340

$1.19

3 for $3.50

The perfect 5" PM speaker for building the popular "sweet sixteen" system. (Instructions included.) Impedance 3.2 ohms. 2 watts each. Shipping weight ½ lb. each.

★ MADE IN U.S.A.



"SWEET SIXTEEN" Five - Inch

# 16 Speakers

ALL 16 ONLY $17

Big speaker sound at small speaker price. Speakers are the S-340 at left. A best seller. Shpg. wt. 5½ lbs.

24 Ga. Speaker Cable, 53 ft., W-361 99c

# JENSEN 12" Hi-Fi SPEAKER




Was $17.95 in 563 Cat. only $8.88

No. S-551

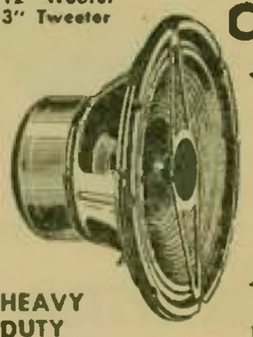
● Resp. 40-15,000 CPS ● 20 Watt

Integrated woofer and tweeter gives perfect balance of both high and low tones. Woofer cone radiates full rich bass while whizzer cone gives wide angle dispersion to high frequencies. 8 ohms. Crossover: 2000 CPS. Magnet: Ceramic (flux density 9500). Shipping weight 7 lbs.

Crossover Capacitor Kit, No. AS-552 $1.50

"Golden Classic" 12" COAXIA

12" Woofer 3" Tweeter



HEAVY DUTY FRAME

No. S-311

$7.9

2 for $15.5

Heavy fra built-in cross network, freque response from to 15,000 cycles. Capacity full 12 wa Voice coil 8 ohms. 12" WOOFER S TION faithfully delivers all the true n ral bass and middle register tone. TWEETER SECTION faithfully re duces all the clean and brilliant hi features the latest parabolic cone. S ping weight 8 lbs.

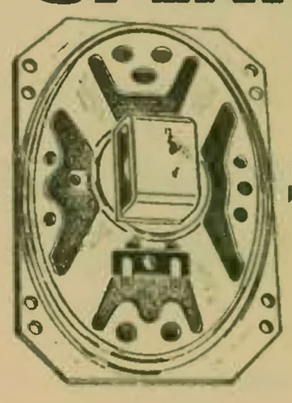
Olson

# ALNICO V SPEAKERS

★ MAY BE ASSORTED FOR QUANTITY PRICES

High quality PM speaker for replacements and original equipment applications.

## 4"x6" PM SPEAKER



COMPACT ★ Application: Extension or Replacement ★ Ribbed Cone ★ 3.2 Ohm

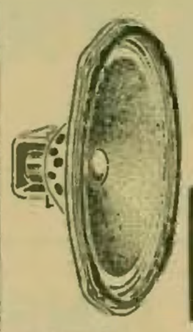
No. S-579

MADE IN U.S.A.

$1.19

3 for $3.00

Shipping wt. 3 lbs.



### 6" x 9" PM SPEAKER

● Application: Auto radios, etc.
● Voice Coil: 8 ohms
● Magnet wt.: 1.47 oz.
● Power: 8 watts

Shipping wt. 3 lbs.

No. S-224 Each 3, @ $2.50 Ea. 100, @ $2.16 Ea. $2.76



### 6" PM SPEAKER

For general replacement. Voice coil 3.2 ohms. 1.47 oz. magnet. Rated 5 watts. Shpg. wt. 3 lbs.

LOTS OF 100, EA. $1.73

No. S-7, Lots of 3, Ea. $2.09 ..... Ea. $2.29



### 8" PM SPEAKER

For general replacement. Voice coil 8 ohms. 2.15 oz. magnet. Rated 7 watts. Shpg. wt. 3 lbs.

LOTS OF 100, EA. $2.32

No. S-86, Lots of 3, Ea. $3.29, ..... Ea. $3.49

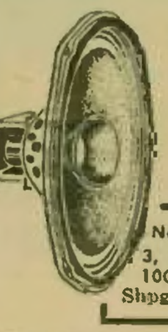


### 4" PM SPEAKER

Ideal for replacement in radio, TV, or phono. Alnico 5 magnet. Shpg. wt. ¼ lb.

3 @ 80c

No. S-568, 100 @ 70c, ea. 89c



### 6" x 9" HI-FI PM

● Aluminum Voice Coil
● Hi-Frequency Whizzer
● Application: Rear deck speaker, auto radios, etc.
● Voice Coil: 8 ohms
● Magnet wt.: 2.15 oz.
● Power: 8 watts

No. S-280 Each 3, @ $3.33 Ea. 100, @ $2.73 Ea. $3.69

Shpg. wt. 4 lbs.



### 5" x 7" PM SPEAKER

For replacement auto radios, etc. Voice Coil: 8 ohms. 1.0 oz. magnet. Power: 6 watts. Shipping weight 3 lbs.

100, @ $1.99 Ea.

No. S-113, 3 @ $2.19 Ea., Ea. 2.49



### 5" PM SPEAKER

For general replacement. Voice coil 3.2 ohms 1.0 oz. magnet. Rated 4 watts. Shipping weight ¾ lb.

LOTS OF 100, EACH $1.47

No. S-336, 3 @ $1.67, ea., Ea. $1.79



### 4" SPEAKER

● 3.2 ohm Voice Coil. .68 oz. magnet. Ideal for replacement in radio or phono. Shpg. wt. ¼ lb.

No. S-564 (3 @ 94c) ea. 99c

Was 99c in Cat. 1162

## 2" PM SPEAKER BARGAIN



No. S-433

69c

3 @ 63c each

100 @ 59c each

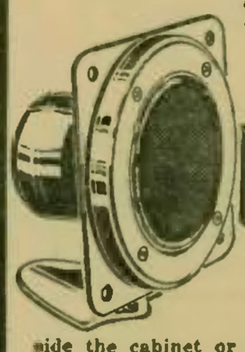
★ Replacement Speaker
★ Miniature Microphone
★ Stereo Headphones
★ Experimental Use

A once-in-a-lifetime purchase ma possible this unusually low price this fine miniature speaker. Use a where sound reproduction is desired a very limited space. Imp 8 ohms, oz. mag. 2" dia. x ⅞" deep. Shipp weight ¼ lb. Write for special la quantity prices.

**2¼" PM SPEAKER** Use as concealed microphone or simply as a replacement spea in transistor radios and intercoms. Use anywhere sound reproduction is desired i very limited space. Impedance 8 ohms, 0.5 oz. mag. 2¼" dia. x ⅞" deep. Shpg wt. ¼ Write for special large quantity prices.

No. S-532, 3 for $2.30 12 @ 70c ea. ..... EA. 88

## 2¾" HARD CONE TWEETER

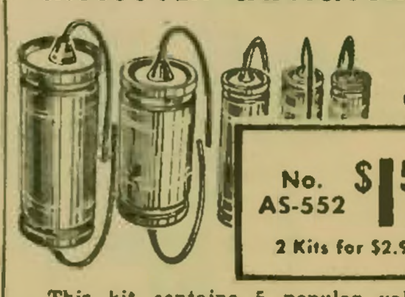


$2.49 No. S-297

Ideal for "Sweet 16 plus 4". Finished in gleaming gold enamel, can be mounted inside the cabinet or on top. 15 watts. Response 1200 to 15,000 cps. 8 ohms. Size: 3x3x2". Shipping weight ¾ lb.

Crossover Capacitor Kit ..... No. AS-552, $1.50

## CROSSOVER CAPACITOR KI



KIT OF

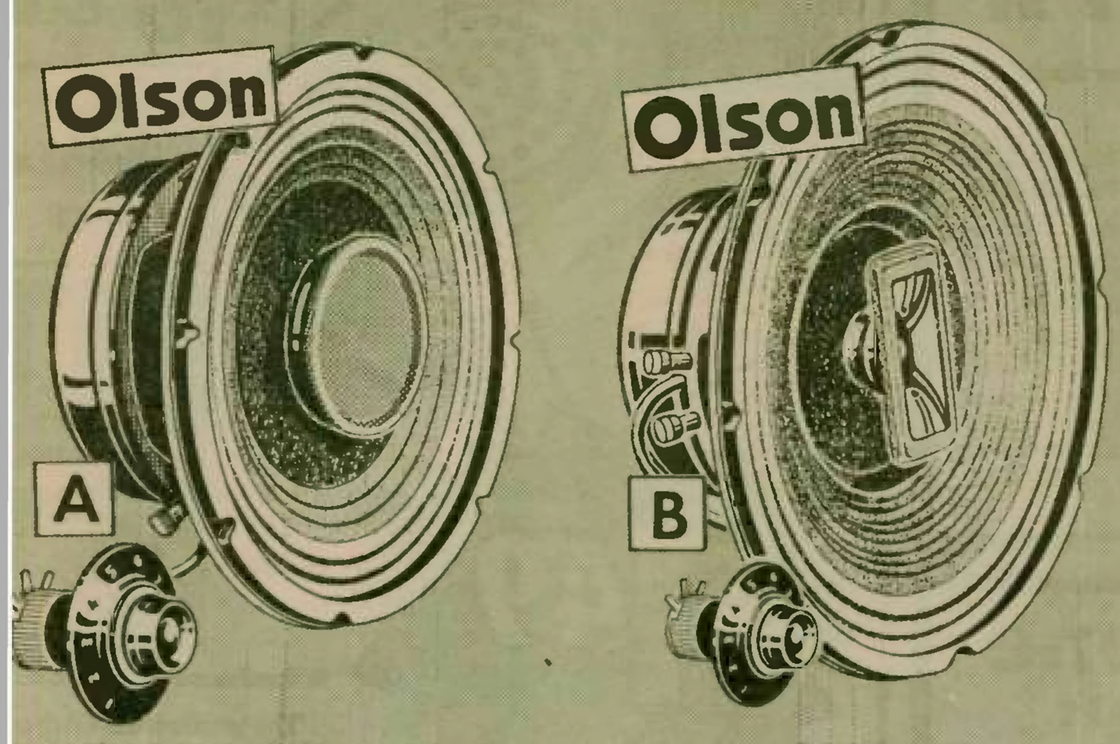
No. AS-552 $1.50

2 Kits for $2.95

This kit contains 5 popular values non-polarized electrolytic capacitors. Id for crossovers in two or three speak systems. Kit includes one each of following values: 4, 10, 25, 50, and mfd., plus a circuit diagram of two three speaker systems. Shpg. wt. ¼

# Quality Engineered High Fidelity Speakers

**Designed And Built For Olson By A Leading U.S.A. Manufacturer.**




## A 8" 2-WAY SPEAKER

**• High-Compliance Woofer • High-Efficiency Tweeter • Crossover With Level Control**

In the 8" Olson 2-way speaker a genuine, high-compliance woofer reproduces only the bass tones . . . and it does it so faithfully that you might think it is a much larger speaker. The cloth annulus allows complete freedom of movement so that woofer cone can follow intricate low frequency wave forms without distortion. Electrical crossover then channels the remainder of the sound to the tweeter where it is properly reproduced by the highly efficient tweeter. Thus complete musical balance and harmony is achieved in this Olson 2-way speaker system. Overall frequency response is 40 to 15,000 cps. Power capacity 16 watts. Impedance: 8 ohms. Magnet: (woofer) ceramic, 8 oz. (tweeter) Alnico, .5 oz. Built-in level control permits adjustment of tweeter to suit your taste. Has binding post connections for quick, no-solder hook-up. Shipping weight 6 lbs.

**No. S-577**

**$16.98**

**2 FOR $30**

**★ SAVE — BUY A STEREO BALANCED PAIR**

## B 12" 3-WAY SPEAKER

**• High-Compliance Woofer • Horn Loaded Supertweeter • Ceramic Magnet**

Olson has combined, in a single compact speaker, the most desired features of the finest three-way systems. 3-in-1 concentric design incorporates a compression horn tweeter plus a midrange defuser and a high compliance woofer. Each element faithfully reproduces its own portion of the audio spectrum. Phenomenal bass response, full bodied mid-range and silky smooth upper octaves are reproduced with unusually pleasing musical balance. Handles 20 watts of program material with peaks to 40 watts. Frequency response 35 to 18,000 cps. Mechanical crossover at 2,000 cps, electrical crossover 3,500 cps. Level control on tweeter adjusts to suit your taste. Impedance 8 ohms. Magnet weight (woofer) 13 oz. (tweeter) 2.5 oz. Shipping weight 10 lbs.

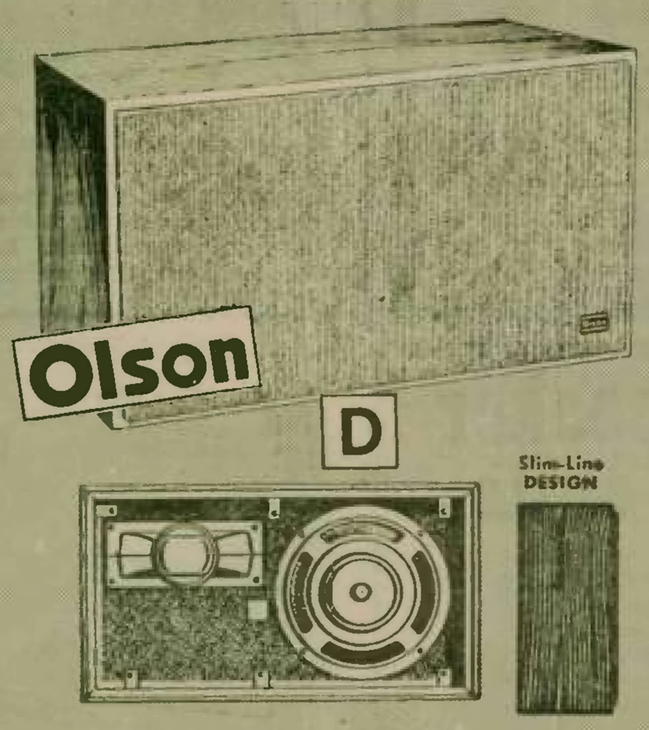
**No. S-573**

**$29.98**

**2 FOR $53**

**★ SAVE — BUY A STEREO BALANCED PAIR**




## C 12" 3-WAY SPEAKER

**• High-Compliance Woofer • 1¾ lb. Ceramic Magnet • Horn Loaded Supertweeter**

Manufactured by a world leader in quality loud speakers. This expertly designed speaker will prove its quality the moment you turn on your music system. From full rich bass to crisp clear highs every note is flawlessly brought to life. All frequencies below 2000 cps are reproduced by the powerful 12" woofer. With its cloth suspension and large 1¾ lb. magnet this is one of the finest woofers available at any price. Sounds above 2,000 cps are reproduced by an elliptical midrange element, at 4,000 cps the "supertweeter" takes effect and the result is an unbelievable balance from one end of the audio spectrum to the other. Response 20-18,000 cps. Power capacity 30 watts with 50 watt peaks. Impedance 8 ohms. Magnet weight: (woofer) 1¾ lb. (tweeter) 4.64 oz. Level control adjusts tweeter to suit your taste. Shipping weight 15 lbs.

**No. S-575**

**$39.98**

**2 FOR $69.98**

**★ SAVE — BUY A STEREO BALANCED PAIR**

## D 2-WAY SPEAKER SYSTEM

**• Genuine Walnut Veneer •8" High Compliance Woofer • Horn Tweeter**

In Olson's new two-way speaker system, full-range reproduction is achieved by expert blending of two high quality speakers: a high-compliance, long-travel 8" genuine woofer and a special horn loaded compression driver tweeter. This new system comes to you in a full size but gracefully slender cabinet that combines big speaker performance with elegant appearance. The wood is genuine walnut veneer in oil finish. A new custom-woven grille fabric provides a distinguished decorator touch. Size: 10" x 18" x 8½". Response: from smooth low frequencies thru 18,000 cps. Impedance: 8 ohms. Shipping weight 22 lbs.

**No. S-570**

**$37.88**

**2 FOR $70**

**★ SAVE — BUY A STEREO BALANCED PAIR**

## "Shield Crest" SPEAKER SYSTEM




**No. S-566**
**ALL 3 SPEAKERS**
**(PLUS) CROSSOVER NETWORK**
**$24.98**
**2 SYSTEMS $48**

**• Response 25 to 18,000 CPS; ± 4DB • Power Handling Capacity 25 watts**

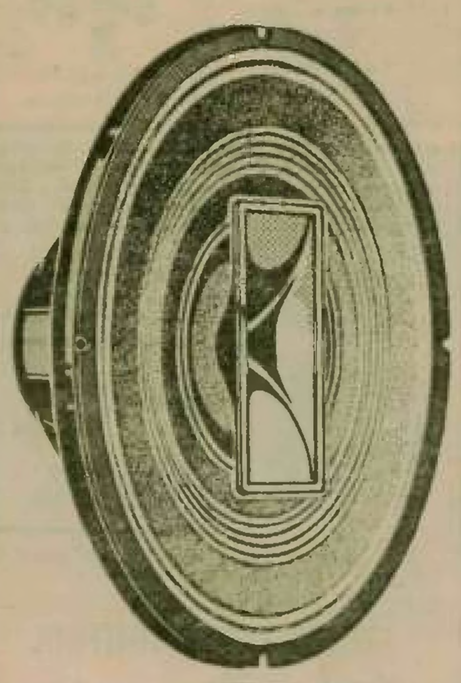
Rarely are we able to offer a set of Danish speakers as fine as these. Now, you can get these matched sets in factory sealed cartons at less than our 1962 price. Made by the largest and best Danish speaker manufacturer. Consists of a 12" woofer, a 5" midrange and a 2" tweeter. Also included is a precision crossover network which matches these speakers exactly and gives electronic crossover frequencies of 750 cps and 4000 cps. Overall impedance 8 ohm matches any amplifier. Easy to hook up instructions supplied. Shipping weight 14 lbs.

**INDIVIDUAL UNITS AVAILABLE**

| | | |
|---|---|---|
| 2" TWEETER: Resp. 3,000—18,000 CPS; Power 5 Watts, No. S-345 | ea. | $3.25 |
| 5" MID-RANGE: Resp. 750—6,000 CPS; Power 5 Watts, No. S-346 | ea. | $4.98 |
| 12" WOOFER: Resp. 25-900 CPS; Power 20 Watts, No. S-347 | ea. | $9.98 |
| CROSSOVER NETWORK No. T-257 | ea. | $7.50 |
| LEVEL CONTROLS (Optional, 2 Required) No. VC-204 | ea. | $1.39 |

## Olson 12" 3-WAY SPEAKER

**● Built-in Crossover ● Response 30-16,000 CPS ● Impedance: 8 Ohms**



**No. S-600**
**$19.98**
**Stereo Pair $39**

All of the latest advances in speaker design have been incorporated in this revolutionary 3-way speaker. Phenomenal bass, full-bodied mid range and silky smooth upper octaves are reproduced with unusually pleasing musical balance. Features heavy-duty die cast frame plus ribbed cone construction and independent compression horn tweeter. Use two of these fine speakers for the ultimate in stereo reproduction. Response: 30-16,000 CPS. Mechanical crossover 1800 CPS, electrical crossover 5,000 CPS, power handling capacity: 20 watts. Impedance 8 ohms. Shipping weight 11 lbs.

## Custom STEREO SPEAKER SYSTEM



**ALL 6 SPEAKERS**
**$19.95** No. S-509

**TWO 3-Way Speaker Systems**
**• 2—12" Woofers • 2—6x9 Midranges**
**• 2—3x5 Tweeters**
**Was $30.00 In Cat. 363**

The 12" woofers contain phenolic voice coil forms for extreme low frequency. The 6" x 9" "Heart of the System" speakers provide the all important midrange while the 3" x 5" tweeters go up to a smooth and clean 18,000 cps. 8 ohm, 30 watt music power. System consists of two 12" woofers, two 6x9 super flex-edge midrange speakers, and two 3x5 totally enclosed tweeters, complete crossover networks, and all necessary wire, and hardware. Ideal for custom installations and built-in systems. Shpg. wt. 14 lbs.

A. R. Tilford, Box 2684 Unit 1, McChord AFB, Wash., wins choice of merchandise worth $5 from Olson's "Treasure Hunt." See back cover for instructions.

## 12" WOOFER

Olson

**★ Response: 30-3500 CPS**
**★ 8 Ohms**

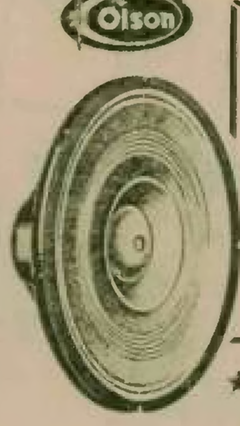


**No. S-541**
**ONLY**
**$13.95**
**Stereo Pair $26.50**

This superb speaker delivers remarkable transient response along with rich full-bodied bass. This exceptional performance is made possible by the newest advancements in high fidelity speaker design. Rugged heavy-duty die cast frame plus an accordion edge cone assures greatly improved bass response. Use to assemble new 2 and 3 way high-quality speaker systems at a budget price or modernize your old hi-fi or stereo. Response 30-3500 CPS, power handling capacity: 20 watts. Impedence 8 ohms. Shipping weight 10 lbs.

## 12" Full Range LOUDSPEAKER

Olson



**No. S-495**
**ONLY**
**$13.95**
**STEREO PAIR $26.50**

**★ Response: 30-16,000 CPS**

A heavy duty die cast frame is the hallmark of fine speakers. All other popular-priced loudspeakers have frames of stamped sheet metal which bend easily and allow the speaker cone and delicate voice coil to shift position.

The heavy magnet and ribbed cone contribute to the excellent sound of this speaker. Features whizzer cone for extended high frequency response. Frequency response 30-15,000 CPS, power handling capacity: 20 watts, impedance 8 ohms, rugged slimline design. Size 12" dia. x 5½" D. Shipping weight 11 lbs.

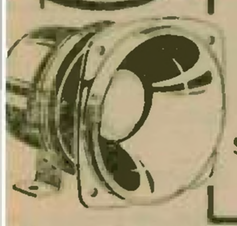
## CROSSOVER CAPACITOR KIT

**No. AS-552 ..... $1.50**

## Deluxe HORN TWEETER

**★ Response to 15,000 CPS**

Olson



**No. S-599**
**$3.49**
**STEREO PAIR $6.00**

A horn tweeter that produces silky smooth high frequencies and even dispersion. One of the finest horn tweeters available at any price. Entirely enclosed in metal case. Tweeter can be mounted to front of cabinet or on slanted self-supporting stand. Requires 2" mounting hole. 8 ohm. Size: 4 x 4½". Shipping weight ¾ lb.

Crossover Capacitor Kit, No. AS-552 ..... $1.50

**Olson SPEAKER SYSTEM**
S-541 Woofer (right) S-599 Tweeter (above)
T-294 Crossover (pg. 12)
AS-827 Stereo Pair $32.00 $16.20

## 4" Hard Cone TWEETER

**★ Built-In Crossover**

Olson



**No. S-533**
**$5.95**
**Stereo Pair $10.00**

★ Die Cast Frame

Features excellent high frequency characteristics and is capable of handling frequencies as low as 2,000 CPS. The tweeter has a built-in 2500 CPS crossover or it can be easily connected to your existing crossover network. Resp.: 2,000-16,000 CPS; Impedance: 8 ohms, power cap. 15 watts; Diameter: 4 in. Shipping weight 1½ lbs.

**Olson SPEAKER SYSTEM**
S-541 Woofer (right) S-533 Tweeter (above)
AS-758 Stereo Pair $32.00 $16.98

## Compression HORN TWEETER

**★ 1,000 CPS to 18,000 CPS**
**★ Cast Aluminum Horn**
**★ 20 Watts**



***Electronically Equivalent to:***
**Electro-Voice MFT, Jensen ORP201, University 4401**

**No. S-547**
**ONLY**
**$7.99**

Use with any 8, 12 or 15" speaker. Add smooth, transient-free high frequencies to your speaker system at a real money saving price. Low frequency response eliminates the need for a midrange speaker. 8 ohms. Size: 4" H x 10½" W x 11½" L. Shpg. wt. 6 lbs.

Crossover Capacitor Kit AS-552 ..... $1.50

**Olson SPEAKER SYSTEM**
S-541 Woofer (right) S-547 Tweeter (above)
T-294 Crossover (pg. 12)
AS-828 Stereo Pair $37.00 $19.05

# SALE

## Olsontone 24"x36" GRILLE CLOTH



REG. $1.39

**99c**

Write for Special Large Quantity Prices

★ Will Not Snag, Scuff or Fade
★ EASY TO INSTALL

Mahogany ..... No. CA-214
Blonde ..... No. CA-213



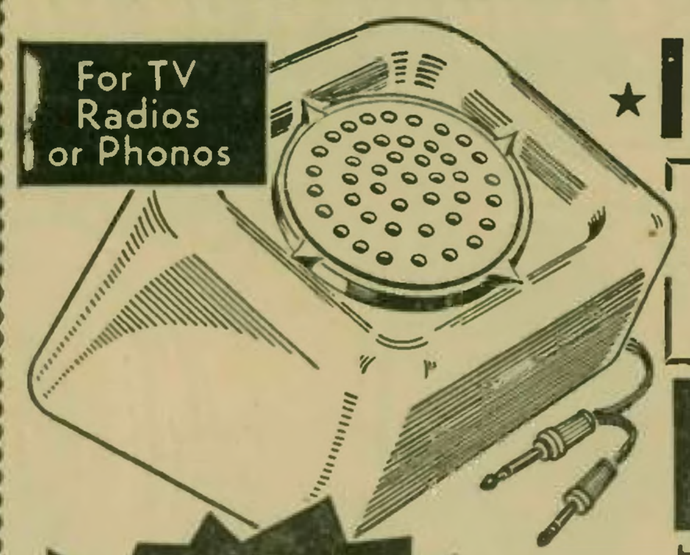
USE IN REMODELING



USE IN NEW CONSTRUCTION

Give those old enclosures a new look at a fraction of original cost. Pattern may vary from illustration. An OLSON BEST BUY! Shipping weight, 1¾ lbs.

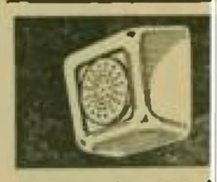
## EXTENSION SPEAKE



For TV Radios or Phonos

★ 10 FOOT CABL

Dual Miniature Plugs



Hang On Wal



Set On Desk

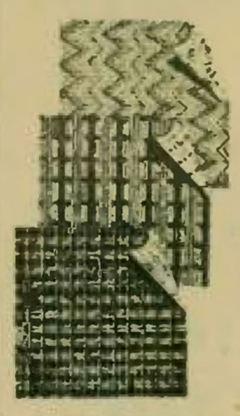
No. S-584

**$1.49**

3 FOR $4

★ Handsome Plastic Cabi

The perfect miniature tension speaker for rad phonos, TV or tape reco er. Large magnet, speaker mounted in an tractive, molded plastic cabinet. A 10 ft. cable extends from b tom of case and is terminated in two miniature phone plugs. plug is ⅛" in diameter and the other one is 3/32", just right to the earphone jack on most transistor radios and tape recorders. speaker on desk or table, or hang on wall. Has hole in back hang on picture hook. Size: 4⅛ W x 4⅛ D x 2⅝" H. Impeda 8 ohms. Shipping weight 2 lbs.



**$1.99** ★

3 For $5.00

Write for Special Large Quantity Prices

## Olsontone 36"x40" GRILLE CLOTH

Mahogany ..... No. CA-71
Blonde ..... No. CA-75

Ideal for modernizing old enclosures or in new construction. Pattern may vary from illustration. Shipping weight 1¾ lb.

### Universal CABLE KIT

★ Makes Any Type of Connection



Includes phono and phone type plugs plus clips. Ideal for connecting tuner to amplifier or tape recorder to radio, TV or phono. Shipping weight ½ lb.

No. W-422

**$1.59**

PER KIT

### STEREO SPEAKER WALL JACK



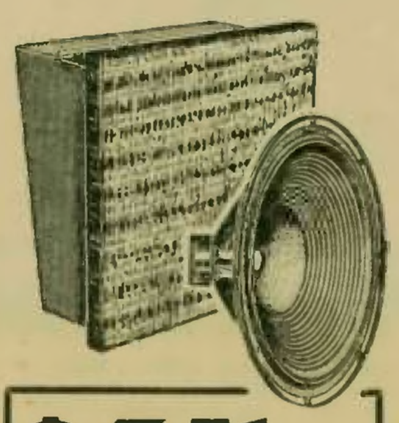
★ 2 Phone Plugs Included

Two ¼" jacks mounted on a standard wall plate. Two ¼" phone plugs are included. The wall plate can be mounted on a standard electrical outlet box or mounted directly on the wall. All hardware and mounting brackets are included. Ivory finish. Size: 2¾" x 4½". Shp. wt. ½ lb.

3 for $4.00
No. PL-97 ..... **$1.49**

Mortenson TV Radio, Box 388, Babbitt, Nev., wins choice of merchandise worth $5 from Olson's "Treasure Hunt." See back cover for instructions.

### 8" Speaker WITH BAFFLE



**$6.51** No. CA-136

3 for $18
Lots of 12, Ea. $5.00

Response: 50 to 10,000 CPS. Voice coil 8 ohms. Rated 6 watts. Speaker mounted. Size: 10" x 10" x 3¾". Shipping weight 4 lbs.

Spkr. Cable, 53', 24 ga., No. W-361 99c

### EXTENSION SPEAK



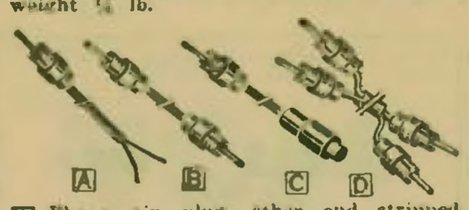
★ 20' Cable and Clips
★ Attractive Case

No. S-494
ONLY
**$2.98**

An attractively easy to listen to speaker ready to to any radio, tape record player, or sound source, across present leads. Can be pl table or hung hanger included. color, 8 ohm. Plas Size: 4½" x 4½" Shipping weight

### AUDIO CABLES

For quick connection between phonos, amplifiers, tuners, etc. Shielded cable with grey plastic outer sheath. Shipping weight ¼ lb.



A B C D

A Phono pin plug, other end stripped and tinned, 4-ft. cable.
No. W-325, 3 for $1.00 ..... 39c

B 2 phono pin plugs, one on each end. 5-ft. cable.
No. W-321, 3 for $1.79 ..... 65c

C Phono pin plug, other end phono pin jack. 5-ft. cable.
No. W-341, 3 for $1.79 ..... 65c

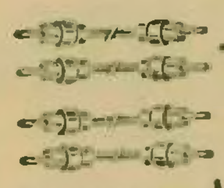
D Dual phono cable with pin plugs on each end. Color-coded for identification.

3-FT. DUAL CABLE, Color Coded
No. W-440, 3 for $3 ..... $1.17

6-FT. DUAL CABLE, Color Coded
No. W-441, 3 for $3.50 ..... $1.35

### 36" Audio Cables

★ KIT OF 4

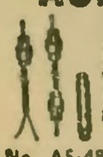


No. W-450

**$1.79**

Color coded cables. RCA type plug on each end. Shipping weight ¼ lb.

### AUDIO CABLE KIT



Consists of 2' audio lead with pin plug, other end tinned and stripped; 6' audio lead with pin plugs; 1 dual inline jack. Shipping weight: ¼ lb.

No. AS-481, 4 for $3.50 per kit ..... **99c**

### 2-WAY Crossover Network



No. T-294

**$2.97** Ea.

3 for $8.50
12 @ $2.50

3,000 cps "LC" crossover, channels high frequencies to tweeter and low frequencies to woofer. Impedance 8 ohms. Size: 3½" W x 1⅞" x 1¼". Shipping weight ½ lb.

### Stereo/Mono Speaker Switch



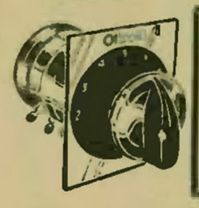
No. SW-130

**$1.69**

3 for $5.00
12 @ $1.40 ea.

Control up to 3 pairs of stereo speakers or 1 to 6 monaural speakers. Remotes may be switched in or out of circuit without effecting amplifier load. Can be used with 4 or 8 ohm speakers. Gold panel 3⅜"x2¼". With instructions. Shipping weight ¼ lb.

### 8 Ohm Monaural LEVEL CONTROL



**$1.39** No. VC-204

3 for $4.00
12 @ $1.25 ea.

For use with any speaker to provide separate and independent control of speaker volume, 20 watts. Shipping weight ¼ lb.

### STEREO LEVEL CONTROL

New!

★ DUAL 8 OHM CONTROLS



No. VC-269

**$2.39**

3 for $6.90

Two speaker volume controls conveniently mounted on one panel, individual knobs. Each control is heavy duty wire wound type for lasting dependability. Can be mounted on the back of a speaker cabinet or through a panel on the wall. Complete with hook-up instructions. Shipping weight ¼ lb.

### OLSON POWER CONTROL BOX



Controls power separately to any 3 appliances. 6 foot cord. Size: 4" x 2¾" x 1⅝". 5 amps @ 125 volts AC-DC. Shpg. wt. ¾ lbs.

No. SW-141 3 for $7.00 Ea **$2.49**

### STEREO SPEAKER SWITCH

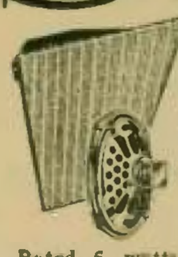


No. SW-234

**$1.99**

Dual 7 position switches permit the selection of all or 7 different combinations of any 3 pairs of speakers. Ivory knob with gold finish plates. Instructions included. Size 2¾" x 4½". Shipping weight ½ lb.

### 8" Corner Baffle with 6" x 9" Speaker



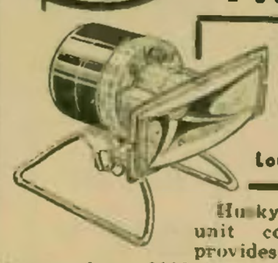
No. S-419

**$5.96** 3 For $17.50

Response: 50 to 11,000 CPS. Size: 14¾" H x 16½" W x 5⅜" D. Rated 6 watts. Voice coil 8 ohms. Speaker is mounted. Mahogany grained. Shipping weight 4 lbs.

Speaker Cable, 53' 24 ga., No. W-361 ..... 99c

### Horn TWEETER



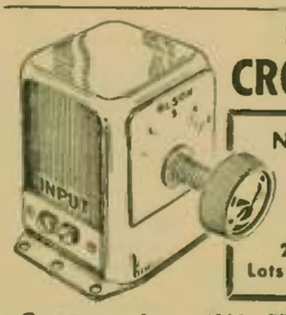
No. S-307

**$8.95**

2 for $17.50
Lot of 6, Ea. $8.00

Husky 20 watt driver unit coupled to horn provides uniform response from 2000 cps to above audibility. For use with any 8", 10", 12", or 15" speaker. Heavy die cast frame. Stand may be removed for internal mounting. Impedance; 8 ohms. Shpg. wt. 4 lbs.

### Speaker CROSSOVER

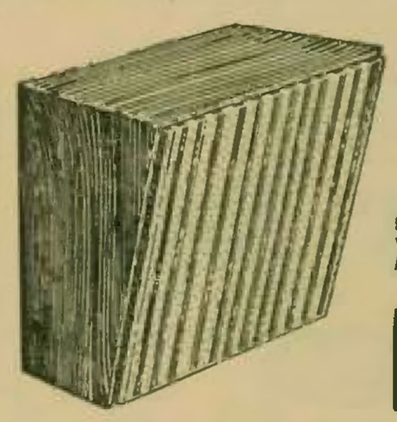


No. VC-222

**$5.97**

2 for $11.00
Lots of 6, Ea. $4.75

Crossover freq. 4000 CPS. Extra long shaft allows network to be mounted in wood panels up to ⅞" thick. Features tweeter level control. Impedance 8 ohms. Size: 4⅝" W x 3" D x 2¼" H. Shipping wt. ¾ lbs. Made in U. S. A.



Ceiling-Wa

### SPEAK

Mounts Flush Without Cuttin

★ 6" Speaker Factory Mounted
★ The Perfect Extension Speaker
★ Ready to Mount and Connect
★ For Rear Speaker in Station W

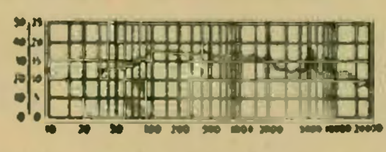
Thin Design



Old Design



SPEAKER RESPONSE CURVE



No. S-394

**$4.99**

3 for $14.50
Lots of 12, Ea. $4.50

Mounts on ceiling. Perf built-in Hi-Fi adding exten your present Ideal for a of background systems. Sty blend tastefull any decor. 6" delivers rich f Response: 60 t cps. Voice coil Overall depth 3". Finished in gold. Shpg. wt.

24 Ga. Speaker Cable, 53 ft. No. W-361 .....
Volume Control No. VC-204 .....
Line Transformer No. T-110, 3 for $4.50 ..... On Ea

### 36" Audio Cables

★ KIT OF 4



No. W-450

**$1.79**

Color coded cables. RCA type plug on each end. Shipping weight ¼ lb.

### AUDIO CABLE KIT



Consists of 2' audio lead with pin plug, other end tinned and stripped; 6' audio lead with pin plugs; 1 dual inline jack. Shipping weight: ¼ lb.

No. AS-481, 4 for $3.50 per kit ..... **99c**

### 2-WAY Crossover Network



No. T-294

**$2.97** Ea.

3 for $8.50
12 @ $2.50

3,000 cps "LC" crossover, channels high frequencies to tweeter and low frequencies to woofer. Impedance 8 ohms. Size: 3½" W x 1⅞" x 1¼". Shipping weight ½ lb.

### Corner Baffle with 6" x 9" Speaker



No. S-419

**$5.96** 3 For $17.50

Response: 50 to 11,000 CPS. Size: 14¾" H x 16½" W x 5⅜" D. Rated 6 watts. Voice coil 8 ohms. Speaker is mounted. Mahogany grained. Shipping weight 4 lbs.

Speaker Cable, 53' 24 ga., No. W-361 ..... 99c

### Horn TWEETER



No. S-307

**$8.95**

2 for $17.50
Lot of 6, Ea. $8.00

Husky 20 watt driver unit coupled to horn provides uniform response from 2000 cps to above audibility. For use with any 8", 10", 12", or 15" speaker. Heavy die cast frame. Stand may be removed for internal mounting. Impedance; 8 ohms. Shpg. wt. 4 lbs.

### Speaker CROSSOVER



No. VC-222

**$5.97**

2 for $11.00
Lots of 6, Ea. $4.75

Crossover freq. 4000 CPS. Extra long shaft allows network to be mounted in wood panels up to ⅞" thick. Features tweeter level control. Impedance 8 ohms. Size: 4⅝" W x 3" D x 2¼" H. Shipping wt. ¾ lbs. Made in U. S. A.



Ceiling-Wa

### SPEAK

Mounts Flush Without Cuttin

★ 6" Speaker Factory Mounted
★ The Perfect Extension Speaker
★ Ready to Mount and Connect
★ For Rear Speaker in Station W

Thin Design



Old Design



SPEAKER RESPONSE CURVE



No. S-394

**$4.99**

3 for $14.50
Lots of 12, Ea. $4.50

Mounts on ceiling. Perf built-in Hi-Fi adding exten your present Ideal for a of background systems. Sty blend tastefull any decor. 6" delivers rich f Response: 60 t cps. Voice coil Overall depth 3". Finished in gold. Shpg. wt.

24 Ga. Speaker Cable, 53 ft. No. W-361 .....
Volume Control No. VC-204 .....
Line Transformer No. T-110, 3 for $4.50 ..... On Ea

### REMOTE CONTROL SPEAKER

Similar to above but has volume controls for remote and main speaker, bargain priced. Size: 4½" x 4½" x 2½". With 20' cable and instructions. 8 ohms. Shipping weight 3 lbs.

No. S-549 **$**



Speaker BAFFLE

8" BAFFLE
(Less Speaker
★ 10½"x9¾"x6½"

Blond ..... No. CA-216
Walnut ..... No. CA-259
Mahogany ..... No. CA-218

Shipping wt. 2½ lbs.

**$4.89** Lots of 6, Each $4.19

12" BAFFL
(Less Speake
★ 14"x13⅝"x

Blond ..... No.
Walnut ..... No.
Mahogany ..... No.

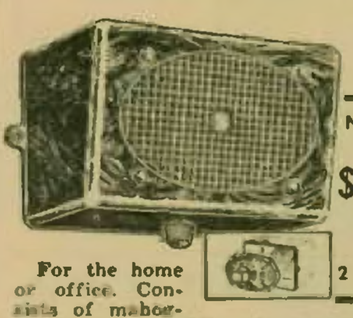
Shipping wt. 2

**$5.69** L

★ Scuff Resistant, Washable, Paintable, etc.
★ For Paging, P. A., School Rooms, Offices, etc.

ACCESSORIES:
8" PM Speaker No. S-86, Shipping Wt. 2 lbs.
12" RCA PM Speaker, S-442, Shpg. Wt. 5 lbs.
Line Transformer No. T-110
Speaker Cable No. W-361 (53 ft.)

### 6" x 9" EXTENSION SPEAKER



★ With Volume Control

No. S-408

**$4.70**

2 for $9.00

For the home or office. Consists of mahogany color molded baffle, 6x9 speaker, and speaker volume control, hardware and instructions. 8 ohm. Assembled. Size: 10¾" W x 4½" D x 8" H. Shipping weight 4 lbs.

Speaker Cable, 53' 24 ga., No. W-361 ..... 99c

### Acoustical FIBERGLASS



No. CA-25

**$1.2**

12 @ $1.00

Ideal for lining speaker cabinets insulating motor compartments cut, glue, or staple. 9 sq. ft. packa

ACOUSTIC FOAM—72" x 18"
Easily Cut To Any Size
No. CA-62, 3 for $6 ..... **$**



WRH

22 Watt Illuminated

# MAGNIFIER LIGHT



★ Tube Included!
★ Turns In A Full Circle!
★ Distortionless Magnification!

Large 5" diameter, four power magnification lens surrounded by a 22 watt circline fluorescent tube provides cool shadowless lighting. Can be raised or lowered: extends to 45". Mounts to desk, etc. For 110-125 volts A.C. Shipping weight 8 lbs.

★ MADE IN U.S.A.

No. EA-52
**$22.99**
3 for $68.50

# Weller Dual Heat SOLDERING KIT



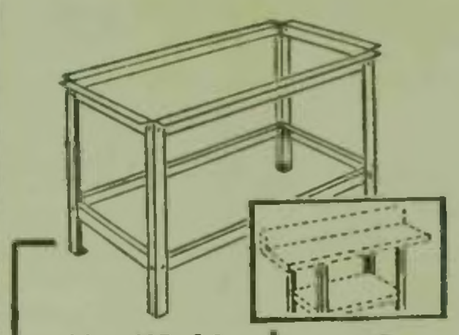
Model D550PK
240/325 WATTS

No. TL-183
ONLY
**$10.99**
Lots of 3, ea. 9.71

Instant heat trigger switch and dual pre-focused lights. Includes solder, carrying case, and tips. For 110-125 volts A.C., 50-60 CPS only. Shipping weight 6 lbs.

Energized Rosin Core Solder, 1-lb. No. X-620, 3 for $3.50 Shipping Wt. 1½ lbs. **$1.39**

# STEEL BENCH FRAME



No. KB-98
**$5.50**
3 for $15



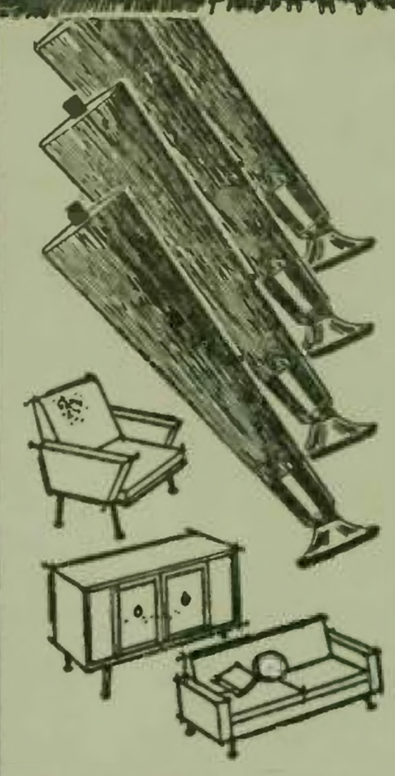
EASY TO ASSEMBLE

Sturdy all steel construction, pre-drilled ready for easy assembly. Just add top and shelf. Two or more frames may be combined. Size: 22½" x 47½" x 34" high. Grey finish. May be shipped parcel post to all cities. Shipping weight 17 lbs.

Albert J. Stewart, Box 191, Bayard, Neb., wins choice of merchandise worth $5 from Olson's "Treasure Hunt." See back cover for instructions.

# SALE

# FURNITURE LEGS



★ Finish to Match Furniture
★ Self-Leveling Swivel Glides

Tapered wood legs with brass ferrules and self-leveling swivel glides. Each kit contains 4 legs and 4 mounting plates. Legs mount straight up and down. Includes hardware. Shipping weight 5 lbs.

## 4" LEGS

Shpg. wt. 1½ lbs.
REGULAR ~~$1.79~~
NOW . . .

No. TL-407
**$1.49**
SET OF 4

REG. T~~$3.21~~

| Stock No. | Length | Shpg. lbs. |
|---|---|---|
| TL-408 | 6" | 1¾ |
| TL-409 | 12" | 2¼ |
| TL-410 | 14" | 2¾ |
| TL-411 | 17" | 3¼ |

YOUR CHOICE
**$1.99**
SET OF 4

# ifety GOGGLES



No. TL-412
**$1.19**
3 for $3.30
12 for $12.00

eet your eyes from serious injury hese adjustable goggles. Can be worn egular glasses. Shipping weight ¼ lb.

# ND NIBBLING TOOL



★ Cut squares, circles or complex designs in metals or plastic.

No. TL-161
**$3.85**
3 for $11

Bites through 18 gauge steel or ⅛" num, copper or plastic. Sharp angles ight curves cut effortlessly. Edges re- smooth after cut. Shpg. wt. ½ lb.

PUNCH
L-162, 3 for $5.50 **$1.87**

# POCKET HOIST



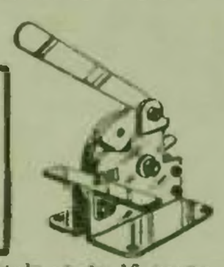
★ Lifts or Pulls up to 2000 lbs.
★ Lubricated for Life

**$6.95** No. TL-327
3 for $20

iature block and tackle with 7 to 1 is small enough to fit in pocket but or pulls up to 1 ton of weight. Per- or hunters, boaters, airplane owners, ists, etc. Comes with 100 ft. multi- Dupont nylon rope that tests at lbs. per strand. Made of high grade num with stainless steel axles. Weighs han 1 lb. Rustproof. Shpg. wt. 2 lbs.

# METAL WORKSHOP

nches, Shears, ms, Rivets



k No. TL-170
**9.55**

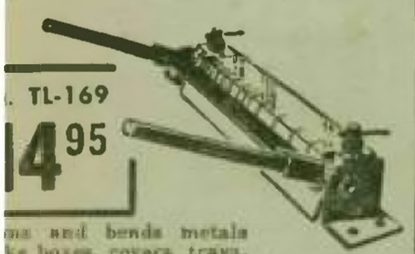
ches holes in metals up to 16 gauge, from edge of stock. Three round sizes included — ¼", 5/16" and ⅜". metals up to 1" width. 16 gauge ess. Forms rod or bar stock up to ich. Bends and forms up to 90°. or forms up to 16 gauge thick. with any type solid or hollow rivet. ing weight 8 lbs.

# SAVE! GET BOTH

No. AS-328 BOTH FOR ... **$24.00**
Shipping wt. 19 lbs.

# FORMING BRAKE

orms 16 Ga. Metals up to 90°



. TL-169
**4.95**

s and bends metals e boxes, covers, trays. deep slots in brake bar permits to fold in. Handles up to 18" stock. Provides flange edge to 1" Ruggedly constructed, accurate djustable. Shipping weight 13 lbs.

# 'ADJUST-A-LITE' KIT

*ASSEMBLE IT YOURSELF AND SAVE!*



**$9.95** No. EA-69

Incandescent lamp with shade. Swings full 360°. Extends to 36". Clamps to desk or horizontal surface. Less bulb. For 110-125 volts A.C. Shipping weight 5 pounds.

Same as above but completely assembled, No. EA-53, 3 for $38.50 ..... Ea. $12.88

# Swingline STAPLE GUN

MADE IN U.S.A.



JAM PROOF

No. TL-398
**$3.88**
3 for $11.50
Lots of 12, Ea. $3.50

Simply place stapler against surface and squeeze. Special jam proof construction. Handle locks in place for easy carrying. Shipping weight 3 lbs.

Box of 1000 ¼" Staples PER BOX **59c**
No. TL-399, 5 boxes $2.50

# CHASSIS PUNCH SET

★ 11-Piece Set

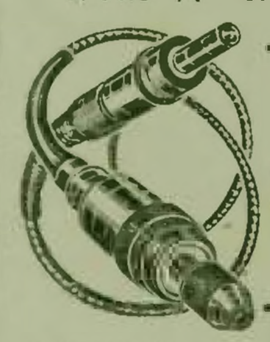


No. TL-246
**$6.95**
3 sets for $20.44

5 popular size chassis punches and deluxe reamer commonly used in most radio work. Makes mounting of jacks, switches, pilot lights and sockets easy. No extra tools necessary. Punch sizes are: ½", ⅝", ¾", 1" 1⅛" and 1⅜". Reamer cuts ⅛" to ½". Handsome wood box. Shpg. wt. 4 lbs.

# 36" Flexible Shaft

★ Fits ¼" or ½" Drill



No. TL-211
**$2.39**

Transfers power from stationary power tools for precision work. Capacity 3/16" to ½" size drill. Shipping weight 2 lbs.

Stewart-Warner
# RPM INDICATOR



**99¢** No. X-854
$3.49 in Cat. 661
4 for $3.50

An accurate device for checking vibration or RPM's within a range of 1,500 to 15,000. Shipping weight ¼ lb.

7-PIECE
# DRIVER SET



**$2.19** No. TL-174

Insulated, color size keyed shafts. In sizes 3/16", ¼", 5/16", 11/32", 3/8", 7/16", and ½". Shipping weight ½ lb.

# DYMO LABELMAKERS

INSTANT SELF-STICKING PLASTIC LABELS

EASY TO OPERATE ANYONE CAN USE IT

## LABELMAKER

Model M-4



No. TL-414
**$6.64**
Was $9.95 in 763 Cat.

WITH 6 FT. OF ¼" TAPE

Just dial the letters or numbers, they come up white on colored self-sticking vinyl, ready to apply on radios, brief cases, books, etc. So easy to operate, anyone can use it. Embossing wheel has 44 characters: A-Z, 0-9, plus $ ¢ & % + — . Includes 6 ft. roll of tape. Size 5½" x 6". Shpg. wt. 1 lb.

## 6' Tape Cartridges, ea. 75c

| | | | |
|---|---|---|---|
| Yellow | TL-416 | Lilac | TL-428 |
| Black | TL-417 | Lime | TL-429 |
| Red | TL-418 | Azure | TL-430 |
| Clear | TL-419 | Pink | TL-431 |
| Blue | TL-420 | Cinnamon | TL-432 |
| Gold | TL-421 | | |

## Model M-5 3/8" TAPEWRITER

★ Label Luggage, Sports Gear, Files



WAS ~~$19.95~~ IN 763 CATALOG

ONLY
**$10.99**
No. TL-393

Make your own embossed name plates. Easy to operate, just dial letters and numerals. Crisp white letters against a colored background. Cut off label with built-in cutter, apply pressure sensitive label anywhere. Tape is supplied in a new quick change throw away cartridge. 10 ft. roll included. Shipping weight 3 lbs.

10 ft. TAPE CARTRIDGES, Ea. $1.25

| | |
|---|---|
| 5201-9 Black M/S | No. TL-395 |
| 5201-2 Red M/S | No. TL-405 |
| 5201-5 Green M/S | No. TL-406 |

## 7" Power Saw Accessories

CARRYING CASE
For 7" and 8½" Ram saws. Shpg. wt. 7 lbs.
No. CA-118 ..... $6.48
Shipped PP except to 1st Class Post Office

EXTRA 7" BLADES

Combination — No. TL-202
Shpg. wt. ½ lb. ..... $2.25

Flooring Cut Off — No. TL-203
Shpg. wt. ½ lb. ..... $2.25

Planer Blade — No. TL-204
Shpg. wt. ½ lb. ..... $5.00

SAVE All 3 Blades — No. AS-406
Shpg. wt 2 lbs. ..... $7.93

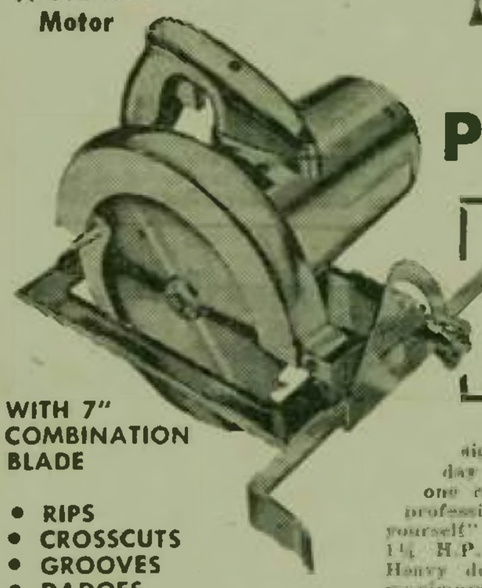
SAW TABLE



Converts Ram 7" power saw to table saw. Includes miter gauge and rip fence. Angles between 45° and 90°. 9¾" high. 15" x 15" square. (225 sq. inches). Shpg. wt. 12 lbs.
No. TL-205, 3 for $25.00 ..... $8.75

SAVE—GET ALL 5 UNITS ABOVE
No. AS-426 (Ship. wt. 26¼ lbs.) ..... $21.00

★ 1½ H.P. Motor



WITH 7" COMBINATION BLADE

- RIPS
- CROSSCUTS
- GROOVES
- DADOES
- RABBETS
- BEVELS
- ANGLES
- MITERS

RAM fury 7" Power SAW

No. TL-390
**$21.95**

The Fury power saw is designed for rugged every day all day use, but priced so low that anyone can own one. YOU can get that professional appearance on your "do it yourself" projects. Universal aircooled, 1½ H.P. motor with 3 conductor cable. Heavy duty die cast aluminum housing, maximum depth of cut 2⅜", maximum depth of cut at 45 degrees 1⅝". No-load speed 5000 rpm. Comes with combination blade, other blades available. Rips, crosscuts, grooves, dadoes, rabbets, bevels, angles, and miters. 110-125 volts AC/DC. Shipping weight 14 lbs.

# "JIFFY" JIG SAW

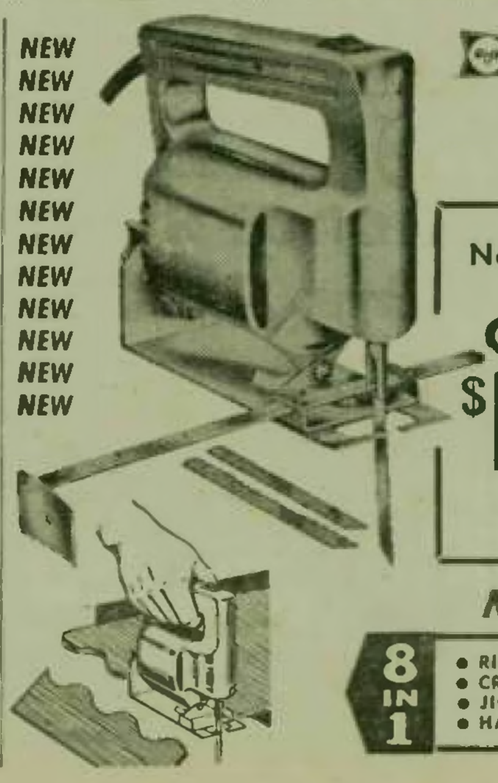
NEW! ★ FITS ANY ELECTRIC DRILL



No. TL-426
**$4.89**

This low price model has the same capacity and cutting speed as high priced jig saws. Does work of Jig, Keyhole, Coping, Rip, Crosscut, Band and Hacksaw. Cuts intricate patterns—however large—in plywood, plastics, metals — even cuts 2 x 4's! Automatic air-blower blows sawdust away from blade and cutting line. Extra large shoe-plate assures accurate and square cuts. Has self-lubricating bearings. Includes blade. Shipping weight 3 lbs.

NEW NEW NEW NEW NEW NEW NEW NEW NEW NEW NEW NEW



RAM fury SABRE SAW

★ ¼ H.P. Universal Motor
★ Mirror Finish

No. TL-433
ONLY
**$12.77**

Easily cuts 2 x 4's, plywood, plastic, composition board, aluminum, other metals and a host of materials. Operates on 115 volt, AC or DC. Features ¼ H.P. universal motor. Operates at 3500 strokes per minute. Length of stroke is 15/16". Has built-in cooling system, positive action slide switch, adjustable base, rip guide and miter gauge. Bevel cuts from 0° to 45°. Comes with 3 assorted blades. Shipping weight 12 lbs.

## MULTI-PURPOSE SAW

8 IN 1

- RIP SAW
- CROSSCUT SAW
- JIG SAW
- HACK SAW
- BAND SAW
- COPING SAW
- KEYHOLE SAW
- SCROLL SAW

15

WRH

# Exciting 2-WAY COMMUNICATION GEAR

## TELECON 1 Watt WALKIE-TALKIE




★ 2 Channels
★ 12 Transistors
★ Squelch Control
★ Weather Proofed

No. RA-612
**$79.98**
$8 MONTHLY
NO MONEY DOWN

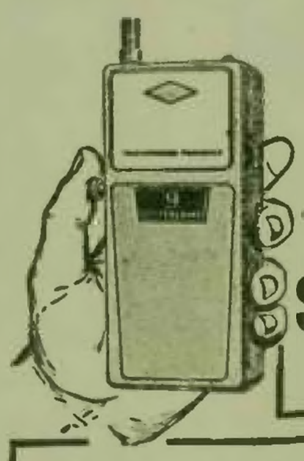
CHANNEL SWITCH
SQUELCH CONTROL
BATTERY METER

**10 Times More Powerful Than 100 MW Units**

A full 1-watt RF input crystal controlled 2-way walkie talkie with 12 transistors, 1 diode and 1 thermister. Olson RA-612 is 10 times more powerful than 100 MW transceivers, yet is still small enough to be hand held. Here's the answer to real portability without the usual sacrifice in operating range. Ideal for operation between base or mobile station and a man in the field. Equipped with 2 pair of crystals for operating on channels 2 and 9. Battery meter on front panel provides a constant check on battery condition. Squelch control eliminates unwanted background noise between transmissions. Sturdy metal case has push to talk button conveniently located on side. A jack is provided for earphones. Operates on 8 standard penlight type batteries (included). Also included at this low Olson price: earphone with plug, earphone case, and a leather shoulder strap. Size: 9¼" H, x 3⅛" W, x 2" D. Shipping weight 2½ lbs. ea.

**Extra Batteries (8 req'd) No. BA-67, 8 for ..... 59c**

## Citizens Band 9 TRANSISTOR WALKIE - TALKIE



★ Crystal Controlled
★ Crystals Included

No. RA-446
**$29.99**
Matched Pair
**$59.50**
$7 Monthly

**No License Required**

For use on popular 27 MC citizen's band. Receiver is specially designed superheterodyne circuit for reliable two-way communications. Operating range 1 mile and up under ideal conditions. Built-in speaker. Push-to-talk switch and volume on-off switch all conveniently located for fingertip control. Operates on 8 self-contained penlite cells available anywhere. Jacks provide for earphone. Built-in telescoping antenna. Complete with batteries, earphone and case. Styles may vary slightly. Size: 7½" x 2¾" x 1½". Shipping weight 4 lbs.
**Batteries (8 req'd) No. BA-67, 8 for ..... 59c**

## 2-Way WALKIE-TALKIE



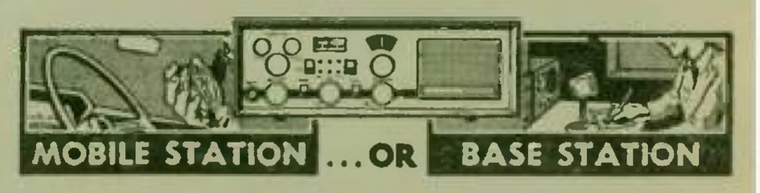

**NO LICENSE REQUIRED**

★ Easy To Build Kit Form

No. RA-583
2 for $18.45
**OLSON PRICE... $9.70**

Anyone can build and operate this fully transistorized Space Age transceiver that transmits with the same power as America's "Explorer" Satellites! You can communicate, under ideal conditions, with family or friends up to ¼ mile away. 27 MC CITIZEN'S BAND SPACEPHONE REQUIRES NO LICENSE—NO EXAMINATION—NO AGE LIMIT! High impact, shock resistant case. Uses standard 9-volt transistor battery available everywhere. (less battery). Crystal included. Shipping weight 1½ lbs.
**Battery (1 req'd.) No. BA-89 ..... ea. 21c**

## Olson Deluxe 6 Meter TRANSCEIVER






★ Receives Single Side Band
★ Made In U.S.A.

No. RA-570
**$139.98**
$8 MONTHLY
NO MONEY DOWN

- 15 Watts Input
- 100% Modulation
- Receive: SSB, AM & CW
- Dual Conversion Superhet

Olson brings you the utmost in flexibility and highest quality. Receiver features dual-conversion with crystal controlled local oscillator and ganged tuned second oscillator and mixer. Receiver tunes 49.9 to 52.2 MC with sensitivity of .5 μ for 6 db signal to noise ratio. Has tunable BFO for single-sideband reception. Image rejection is better than 24 db down. I.F. frequency is 12 MC for first I.F. and 595 KC for second I.F. Transmitter features 15 watts input with 100% modulation. Pi-network output tunes transmitter to match any antenna from 35 to 150 ohms. Spot switch provides a means for checking transmitter frequency. Dual purpose meter works as a receiver S-meter and transmitter tuning meter. Dual power supply, 117 volts AC (power cord included) and 12-volt DC. Complete with a Turner 350C push-to-talk mike with coiled cord. Size: 4½" H. x 12½" W. x 7" D. Shipping weight 22 lbs.

**12 V. D.C. Cable, No. W-430. Shpg. wt. ¼ lb. ..... $2.95**
**Mobile Mounting Bracket, No. HW-46. Shpg. wt. ¼ lb. $2.95**

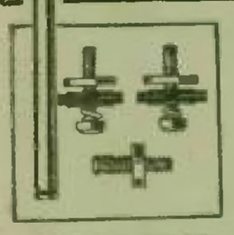
Frank Cermak, 2112 Powers Ave., Lewiston, Idaho, wins choice of merchandise worth $5 from Olson's "Treasure Hunt". See back cover for instructions.

## TELESCOPING WHIP ANTENNA

For CB WALKIE-TALKIES
No. AA-110
**$1.99**



EXTENDS TO 54½"
CLOSED LENGTH 6¼"
HEAVY CHROME PLATING



Adapters Fit Most Walkie Talkies

Highly efficient 11 section, telescoping antenna for CB "walkie-talkies". Chrome plated for lasting good looks and durability. Measures 54½" fully extended and 6¼" retracted. 3 adapters are included to change the screw-in type mounts to stud type (3 different sizes). These adapters make this a truly universal antenna that will fit almost any CB "walkie-talkie". Shipping wt. ¼ lb.

## CB TRANSMIT CRYSTALS




No. CB-1
**$1.99**
3 FOR $5.55
12 FOR $21.50

SPECIFY YOUR CHOICE OF CHANNELS 1 THRU 22

Popular 3rd overtone type crystals. Standard case with ½" mounting centers. These hermetically sealed crystals fit all Olson Transceivers as well as, General Radio, Globe CB 100, CB 100A, De Wald TR 910, Heath CB, United Scientific Labs R800-TR910-TR1000, and many others. Shipping weight ¼ lb.

## CB Base ANTENNA

Magnum 27
MODEL M-81
★ 6 DB Operating Gain



No. AA-90
**$24.87**

This new omnidirectional base antenna, end fed ½ wave length, shunted 27 M.C. CB antenna. Ruggedly built of rigid aluminum and cadmium plated steel. Hi-"Q" phasing transformer for proper resonance over entire citizens band. Shipping wt. 9 lbs. Shipped parcel post, except shipped railway express to 1st class post offices.

## LOW-COST WHIP ANTEN

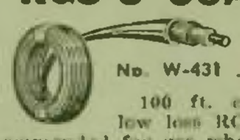
★ Top or Side Mounting
★ Swivel Joint
102" Spring Mounted



**$5.99** No. AA-9

May be cowl or fender mount terrific bargain f 27 M.C. mobile durable first lin tenna and mount bargain price. ping wt. 7 lbs. S railway express

## RG8-U COAX CABLE

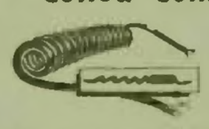


No. W-431 ..... **$10.99**

100 ft. coil of high quality low loss RG8-U coax cable recommended for use where antenna lead exceeds 50 ft. Shipping weight 12 lbs.

55 Ft. RG-58U COAXIAL CABLE
No. W-415 ..... $2.95

## Coiled Comm. MIKE CORD



Communication replacement cord. 1 wire shielded. 1 pair for control circuits. Shipping weight ½ lb.

No. W-424 ..... Ea. **$1.59**

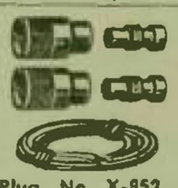
## Generator NOISE FILTER



Adjustable for 3 to 30 MCS. Ideal for C. B. Mounts on top of generator. Complete with instructions. Size 2½" L. x 2¾" H. x 1⅛" Dia. Shpg. weight ½ lb.

No. RA-532, 3 for $6.98 ..... **$2.49**

## Antenna Cable Kit

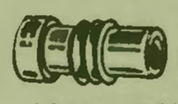


Kit to connect antenna to C. B. transceiver. 20' RG58U cable, 2-PL-259 plugs, 2-UG-176 reducers.
No. W-387 **$2.29**

Plug, No. X-852, 2 for $1.00 ..... Ea. 59c
Reducer, No. X-853, 2 for 30c ..... Ea. 16c

20 FT. ANTENNA CABLE, completely assembled. PL-259 connector on each end. Shipping weight 2 lbs. No. W-458 ..... $2.49

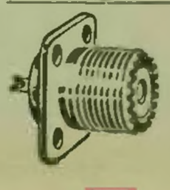
## UG-175 ADAPTOR



No. PL-95
2 for 30c Ea. **16c**

Adaptor enables PL-259 connector to be used with RG-59U coax cable. Shipping weight ¼ lb.

## R. F. COAXIAL JACK



No. PL-96 ..... Ea. **60c**

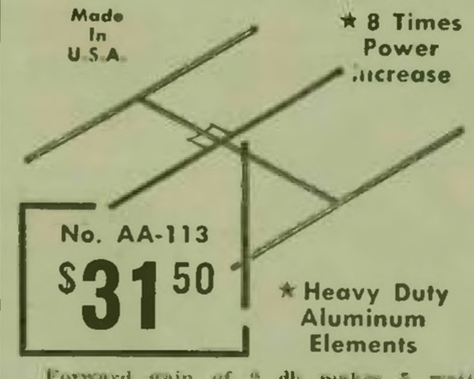
Chassis mounting receptical for PL-259 coax plug. Shipping weight ½ lb.

## hy-gain CB BEAM ANTENNA

Model 113-B

Made In U.S.A.

★ 8 Times Power Increase



No. AA-113
**$31.50**

★ Heavy Duty Aluminum Elements

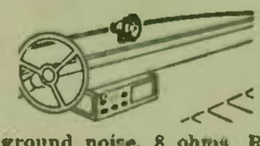
Forward gain of 9 db makes 5 watt signal equal to 40 watts. Mounts either horizontal or vertical. Three elements, factory pre-adjusted and matched for 52 ohm feed. Heavy duty aluminum elements, steel boom. Less Cable. Shipping wt. 15 lbs.

## OLSON 5 WATT TRUMPET SPEAKER



★ Adjust to Any Angle

No. S-453
**$6.95**
3 for $20



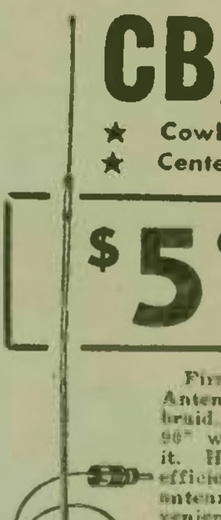
Connect to the external speaker jack of your CB for improved high level sound. Cuts through background noise. 8 ohms. Response: 400-8,000 CPS. Size: 5¼" dia. x 5" deep. Shipping weight 4 lbs.

Cable for Above Speaker, See Page 25

## CB NEW TRONI ANTENN

CB Phanto

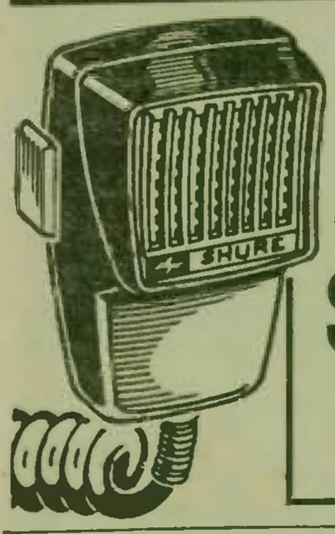
★ Cowl Mount
★ Center Loaded



**$5.97** No. AA-1

First and only Fibre Antenna sheathed in braid. Bending of more 90° will not crack or it. Has all the elec efficiency of an all antenna. Mounts on an venient location on truck. Only 48" high. on all channels with SWR. Complete with u sal automotive mount 5 ft. lead with PL-25 connecter. Shpg. wt.

## SHURE Communications MICROPHONE




No. M-175
OLSON PRICE
**$5.98** ★

★ Made in U.S.A.

For CB or amateur use in both mobile or base stations. "Shaped" voice response pattern gives maximum intelligibility. Response: 200-4000 cps, free from undesirable peaks. Omnidirectional polar pattern. With push-to-talk switch, shutter-proof case and kinkproof 5-ft. stretch cord. Features high output ceramic element for 100% modulation of your transmitter. Output level -55.5 db. Includes mounting bracket. Shipping weight 2 lbs.

## Magnetic MIKE HOLDER

★ Clips on Back of Mike
☆ Attach to Metal Surface



No. X-924 **99**

Powerful cer magnet attaches back of any handh with standard ha button. You can hang mike up on metal surface suc car dash or trans er case. No hole drill in mike or dash. Simply clip to back of and it's ready to use. Size: 1 1⅜" x 7/16". Shipping weight

Model 254X - COMMUNICATIONS
## DESK MIKE

★ High Output Crystal Element



**SALE**
No. M-167
**$13.82**

Ideal for CB amateur use. Touch to talk and locking on-off switch lever. One piece die cast case. Chrome trim. Response 50-7,000 CPS; output level is—50 db. Includes 7 ft. of shielded 3 conductor cable. Wired for relay o[illegible] Size: 3¾" H. x 6½" D. Shipping weight 1 lbs

Model 350C
## Communications MICROPHONE



★ Coiled Cord
★ Made in U.S.A.

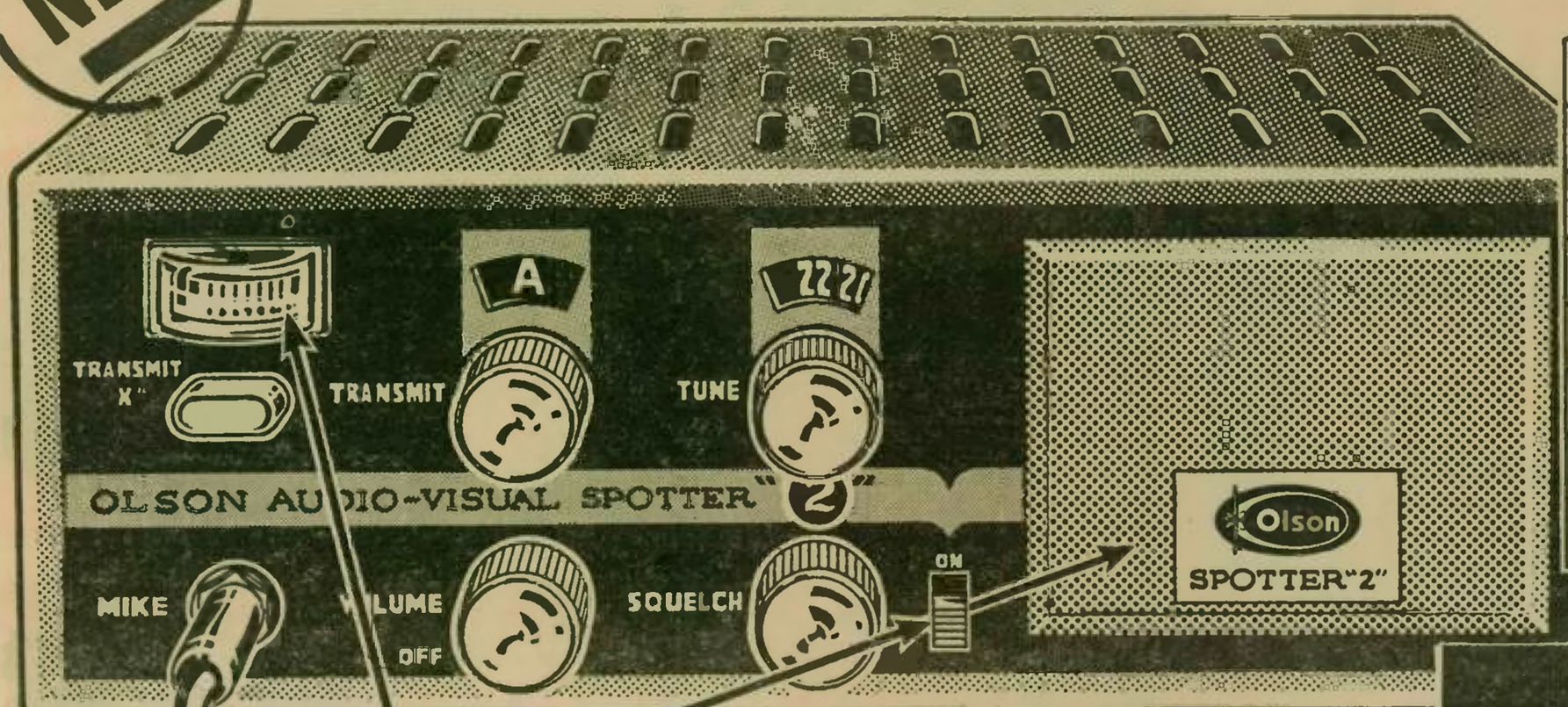
No. M-165
**$5.98**

With push-to-talk switch. Includes mounting clip and heavy duty coiled cord. Features a high impact polystyrene case. Ceramic element. Response 80-7,000 cps. Output level—54 db. High impedance. Shipping weight 2 lbs.

NEW

## Olson *Audio-Visual*

# "SPOTTER 2" CB Transceiver




| | |
|---|---|
| NEW | INCREASED OUTPUT |
| NEW | INCREASED SENSITIVITY |
| NEW | INCREASED SELECTIVITY |
| NEW | INCREASED MODULATION |
| NEW | TVI FILTER |
| NEW | HEAVY DUTY POWER SUPPLY |
| NEW | IMPROVED VENTILATION |
| NEW | GREY & BLACK FINISH - ALUMINUM KNOBS |

MADE IN U.S.A.






**STOP!**
You're On Channel

Olson brings you the fabulous NEW "Spotter 2" at no increase in price! Even though the original Spotter met with fantastic success, Olson was not satisfied. Even the best has some room for improvement. Our new "Spotter 2" has been remodeled and restyled to bring you the very latest in circuit design along with styling to rival units selling for several times Olson's low price. OLSON brings you the convenience of variable tuning receiver with the stability of crystal control, utilizing our new audio visual spotter. By using the spotter switch, the receiver can be tuned to the exact frequency of the crystal controlled transmitter. The exact receive channel tuning point is indicated on the "S" meter, as well as an audible tone signal.

Ideal for mobile rigs, where the meter might not be easily viewed. The unit comes equipped with a Turner 350C mike ready to plug in for clear undistorted voice pickup. Full five watts input, with 100% modulation, 5 watts or more output. Built-in power supply provides operation on 110-125 Volts, 6 and 12 Volts DC. Selectivity 5 kc. Auxiliary speaker terminal provides for internal and/or external speakers. NINE TUBES and FOUR DIODES offer performance equal to 19 tubes. Variable squelch with positive action. "S" Meter denotes received signal strength and relative modulation indication. Uses standard 3rd overtone type crystal, PL-259 type antenna connector. 110 Volt AC cable included. Unit attractively housed in low silhouette grey and black cabinet 4½" H x 12½" W x 7" D. Shipping weight 14 lbs.

No. RA-530
**$7** NO MONEY DOWN
MONTHLY
OLSON PRICE $119.95

### Check These Features:

- PERFECT 22 CHANNEL TUNING
- Tuneable Receiver with XTAL Spotter
- Dual Conversion Superhet
- 12 Channel XTAL Controlled Transmit
- Built-In "S" Meter-Modulation Indicator
- 19 Tube Performance
- Dual Series Gated Noise Limiter
- .3 of 1 Microvolt for 6 DB Signal To Noise
- With Channel 9 Transmit XTAL
- Front Panel, XTAL MTG For Transmit
- Adjustable Squelch Control
- 110 V AC, 6 and 12 V DC Power Supply Built-In
- Receive Local Oscillator XTAL Controlled
- Illuminated Dial

### Complete CB MOBILE STATION

*HERE'S WHAT YOU GET:*

| | |
|---|---|
| 1—"Spotter 2" Transceiver, RA-530 | $119.95 |
| 1—Phantom Antenna, No. AA-106 | 5.97 |
| 1—Mobile Mounting Bracket, No. HW-46 | 2.95 |
| 1—6 & 12V DC Power Cable, No. W-430 | 2.95 |
| Total Regular Catalog Price | $131.82 |

YOU PAY ONLY **$125** AS-826

### Complete CB BASE STATION

*HERE'S WHAT YOU GET:*

| | |
|---|---|
| 1—"Spotter 2" Transceiver, RA-530 | $119.95 |
| 1—A.S. M81 Base Antenna, No. AA-90 | 24.87 |
| 1—100-Ft. RG8-U Coax Cable, No. W-431 | 10.99 |
| 2—Connector Plugs, No. X-852 — 2 for | 1.00 |
| Total Regular Catalog Price | $156.81 |

YOU PAY ONLY **$149** AS-807

Same as above except has a 3-element beam antenna and rotor in place of AA-90 antenna. See page 16 for specifications on beam No. AA-113.

No. AS-890 (Reg. catalog price, $191.79) $179.00

**ACCESSORIES:**

| | |
|---|---|
| 6 or 12 Volt DC Cable, No. W-430 | $2.95 |
| Mobile Mounting Bracket, No. HW-46 | $2.95 |
| TRANSMIT CRYSTAL No. CB-1, 3 for $5.55 | ea. $1.99 |

# COMMUNICATE With Any CB Rig

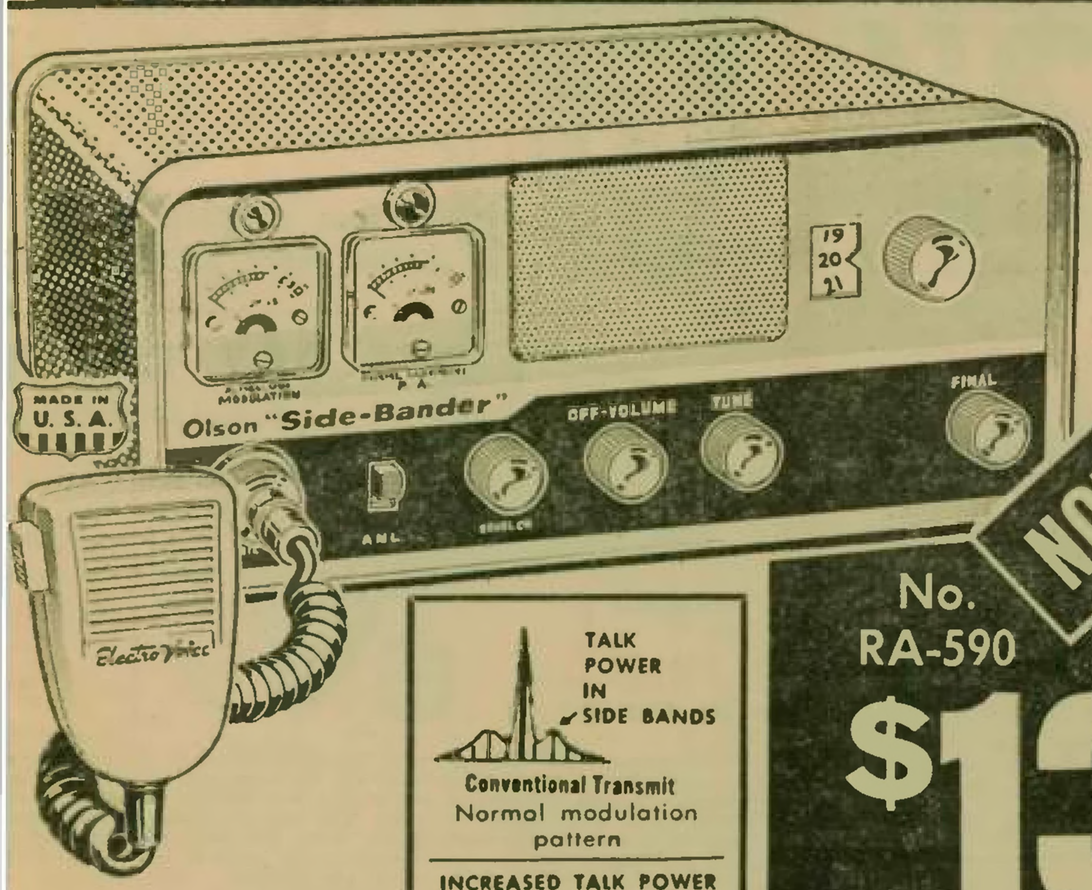




## Olson "*Side-Bander*"

# CB TRANSCEIVER

### Double Side-Band Power Gives Up To 4 Times More Range




NOTICE

No. RA-590
**$13** MONTHLY
NO MONEY DOWN
OLSON PRICE $214.95

- 25 Watt P.E.P.
- Dual Panel Meters
- 2-Tube Push-Pull Modulation
- Dual-Conversion Superhet Receiver

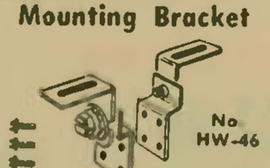
Here is new power, new performance never before available in any CB Transceiver. New Double Sideband Transmitter gives up to 4 times the normal operation range of most units. Even under the most difficult broadcast conditions the Olson "Side-Bander" delivers maximum power within FCC Regulations. Receiver has .15 microvolt sensitivity for 6 DB signal-to-noise ratio, and excellent selectivity, image and IF rejection figures. Space age technology has brought about an advanced new concept in frequency control. A frequency synthesizer provides full crystal-controlled transmitter and receiver operations on all 23 CB channels—no extra crystals to buy! Delta tuning circuit brings in off-frequency stations. Transmitter section has 25 watt P.E.P. modulation capability and pi-network output to match 50-75 ohms. Two tube push-pull modulation provides 100% modulation at all times. Dual panel meters provide a constant check on transceiver operation. Meters read strength of receiving and transmitting signal plus voltage and current to final tube. Red light comes on during transmit. A few of the other outstanding features are: adjustable squelch control, automatic noise limiter and crystal filter. Size: 5½" x 11½" x 9½". With universal power supply, push-to-talk ceramic mike with coil cord and all transmit and receive crystals for 23 channel operation. 110-125 Volts AC, 50 CPS and 12 Volts DC. Shipping weight 15 lbs.




ALL CRYSTALS INCLUDED FOR 23 CHANNELS

### ACCESSORIES:

**Mobile Mounting Bracket**



No. HW-46
**$2.95**

***Deluxe Mobile* Mounting Bracket**



No. HW-49
**$9.95**

**12 Volt DC POWER CABLE**



No. W-460
**$3.98**

### Complete CB Base Station

*HERE'S WHAT YOU GET:*

| | |
|---|---|
| 1—"Side-Bander" Transceiver, RA-590 | $214.95 |
| 1—A.S. M-81 Base Antenna, No. AA-90 | 24.87 |
| 1—100 Ft. RG8-U Coax Cable, W-431 | 10.99 |
| 2—Connector Plugs, No. X-852, 2 for | 1.00 |
| Total Regular Catalog Price | $251.81 |

YOU PAY ONLY **$239** AS-870

### Complete CB Mobile Station

*HERE'S WHAT YOU GET:*

| | |
|---|---|
| 1—"Side-Bander" Transceiver, RA-590 | $214.95 |
| 1—Phantom Antenna, No. AA-106 | 5.97 |
| 1—Mobile Mount Bracket, No. HW-46 | 2.95 |
| 1—12 Volt DC Power Cable, No. W-460 | 3.98 |
| Total Regular Catalog Price | $227.85 |

YOU PAY ONLY **$221** AS-871

### NEW Deluxe CB Base Station

*HERE'S WHAT YOU GET:*

| | |
|---|---|
| 1—"Side-Bander" Transceiver, No. RA-590 | $214.95 |
| 1—3 Element Beam Ant. No. AA-113 | 31.50 |
| 1—Alliance Tenna-Rotor, No. AU-12 | 25.40 |
| 1—100 Ft. RG8-U Coax Cable, No. W-431 | 10.99 |
| 1—100 Ft. 4 cond. Cable, No. W-62 | 2.95 |
| 2—Connector Plugs, No. X-852 — 2 for | 1.00 |
| Total Regular Catalog Price | $286.79 |

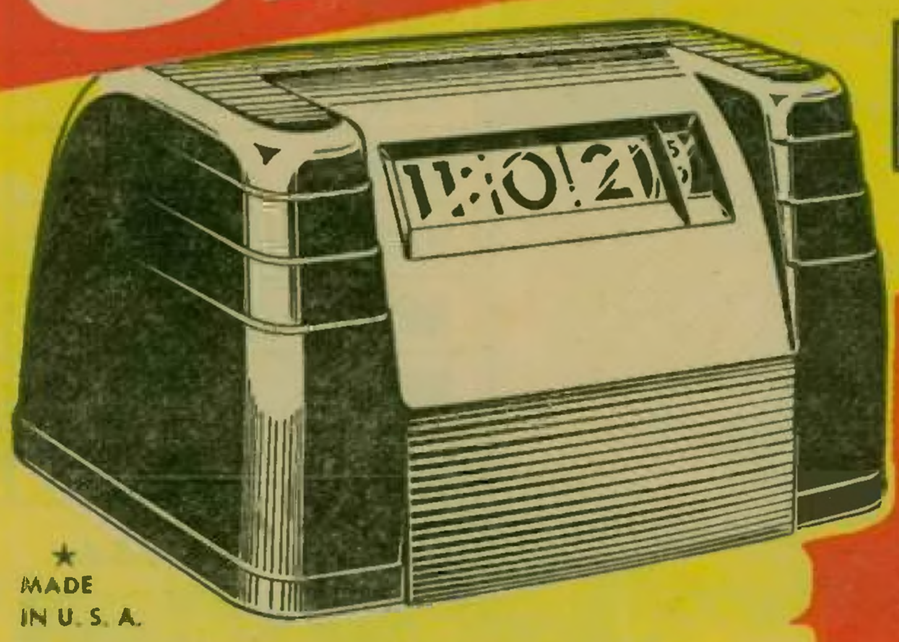
You Pay Only **$275** AS-891

# SALE

## Genuine TYMETER Automatic CLOCK

★ Factory Boxed

★ "Split-Second Time at a Glance"



★ MADE IN U. S. A.

**YOUR CHOICE**

| | |
|---|---|
| Walnut | No. EA-72 |
| Ebony | No. EA-76 |
| Ivory | No. EA-77 |

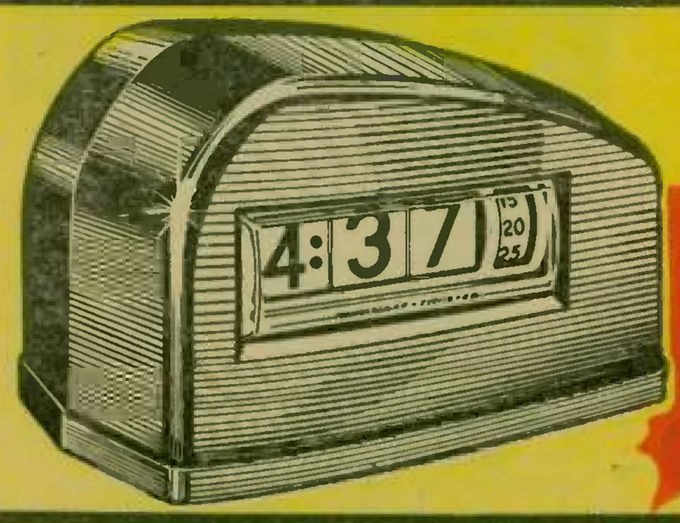
Mfr. 1963 List Price ..... ~~$10.95~~

NOW

**$4.99**

PLUS 50¢ F.E.T.

This handsome deluxe model is a fully automatic, self-starting clock with 4 revolving wheels that tell time directly in numbers. Dials tell you hour, ten minute, minute and second. No chance for error. Your choice of style to match any decor. Perfect for radio amateur ham shack, office, desk, kitchen, etc. U.L. approved motor and cord. For 110-125 volts AC, 60 cps. Shipping Weight 3 lbs.



## TYMETER Automatic CLOCK

★ Factory Boxed

★ Made In U.S.A.

**$7.99**

PLUS 80¢ F.E.T.

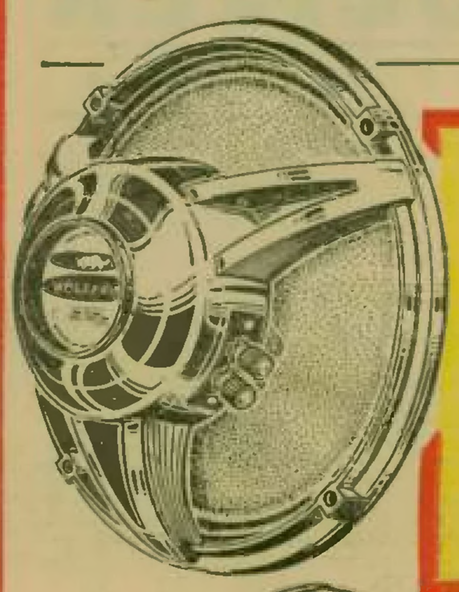
**YOUR CHOICE**

| | |
|---|---|
| Walnut | No. EA-71 |
| Ebony | No. EA-74 |

Beautiful Super Deluxe Model! Automatic and self-starting. Dials tell hour, ten minute, minute and second. For 110-125 volts AC, 60 cps. Shipping weight 5 lbs.

# SALE

## Electro-Voice 12" SPEAKERS



**REG. $20.50**

**$16.46**

No. S-338

### Electro-Voice 12" WOLVERINE Model LS-12

BUT NOW DURING THIS SENSATIONAL SALE! Features dual cone design which delivers a clean, smooth response of 40 to 14,000 cps. Powerful, beam-free woofer cone has a resonant frequency of 65 cps. Power capacity, 20 watts. Mechanical crossover, 4500 cps. Impedance, 8 ohms. Low-silhouette, heavy-duty frame results in permanent centering of all elements for distortion-free sound. Depth, 3¾". Shipping weight 10 lbs.



**REG. $31.36**

**$24.99**

No. S-473

### Electro-Voice 12"–3 Way Wolverine Model LT-12

Features the integral sonophase VHF driver which furnishes the highest audible frequencies. Response 40 to 16,000 cps with crossover point of 3500 cps. 8 ohms. Woofer voice coil 2" diameter, tweeter 1". Handles 20 watts of music program, 40 watt peak. Rigid die-cast frame with 12 oz. magnet. Built-in high frequency control with horn type tweeter. Use two for a balanced stereo system. Shipping weight 14 lbs.



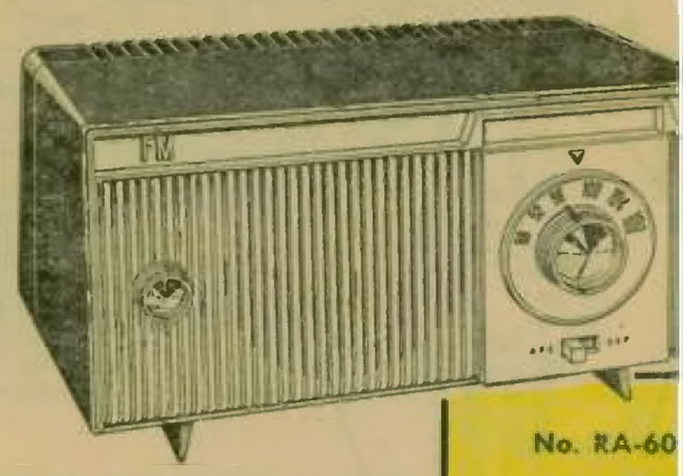
## CONCORD 440

NEW! NEW! NEW!



## FM TABLE RAD

★ 5 Tubes Plus 2 Diodes ★ AFC with Defeat Swit



Luxurious high fidelity FM reception is achieved by use of the latest engineering advancements. Employs 5 tubes, 2 diodes, 1 AFC silicon diode and 1 silicon rectifier. AFC with defeat switch makes tuning easy and eliminates drift. Handsome neutral tone cabinet with gold inlay knobs is accented by red pilot light. Complete with antenna and UL approved safety interlock type linecord. Don't pass up this fantastic FM radio value—at this low, low price you can have FM at your finger tips in every room of the house! Size: 3½" W. x 5" H. x 4½" D. For 110-125 volts AC, 60 cps. Shipping weight 4 lbs.

No. RA-60

ONLY

$17

## Tung-Sol 12AX




No. 2-328

**69¢**

3 for $2.00

★ BRAND NEW

★ Individually

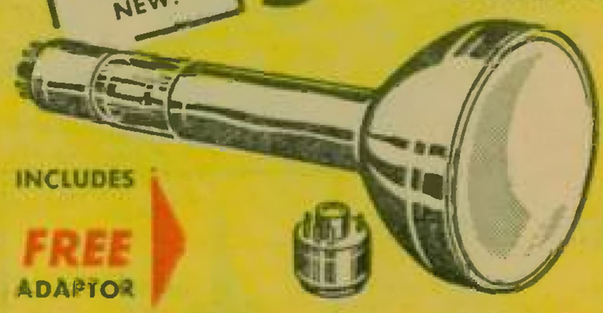
Famous name 12AX7 tube at a the manufacturer's All brand new, tubes and come dividually boxed, weight ¼ lb.

See our complete line of brand tubes listed on pag

## 5" C.R.T. TEST TI

★ Ideal for Bench T

BRAND NEW!



INCLUDES FREE ADAPTOR

No. T

ON

$4

This new 5" Test Tube is easily transportable. It is the perfect bench work or field video check of TV receiving sets—a must for chassis. It is as efficient as any of the well known test tubes 5AXP4 etc., and only ⅓ the price. The adapter (included free) tube to a magnetically focused test tube. No ion trap is needed. tube and adapter will be your most versatile piece of equipment. Qu quantities are limited. Shipping weight 2 lbs.

Extens

SPEAK

★ Includes 15 Ft.




No. S-58

$1.9

Heavy duty 4" PM speaker mounted in a leather carrying case. extension on radio, TV, Phono or Tape Recorder. Case has convenient handle. 15 foot 2 conductor cable is attached to speaker and anchored of case. Size: 8¼" W. x 6" H. x 2⅞" D. Impedance 4 ohms. See pa other speakers. Shipping weight 3 lbs.

# TRANSISTORIZED
# EO TAPE RECORDER

CORD AND PLAYBACK

RIZED PRE-AMPLIFIERS

7½, 3¾, and 1⅞ IPS.

AMIC MICROPHONES

lo. RA-624

99.95

The new Concord 440 is a rugged, transistorized tape recorder that will please the most critical connoisseurs of sound. The model 440 achieves a true major price breakthrough in quality stereo reproduction—quality found only in professional recorders at twice the price. The 440 records Stereo—plays Stereo . . . through its own amplifiers and stereo-separated speakers, or through any high fidelity system. The transistorized pre-amps provide superior recording and playback sound quality and utmost reliability. Features simple fool-proof push-button operation . . . no jamming of any type. The 440 is multiplex ready and comes equipped with two matched dynamic microphones. Specifications: 5 speeds, all standard size reels up to 7" diameter. Wow and Flutter: less than 0.2% at 7½ ips. Frequency Response: 50 to 15,000 cps at 7½ ips. Four inputs, 2-high-impedance and two low impedance. Output: low impedance to external amplifier, dual 8 ohm for external speakers. Level Indicators operate in record and playback. Tape Counter: Digital type counter. Transistor and Tube Complement: 2-2SB178A, 2-2SB175A, 2-2SB177A, 3-3OA5, 2-OA70 and 1-KCO-8L. Speakers: 1-4"x6" (channel one) 1-6½" (channel two). Power Output 10 watts. Size 20" x 26" x 16". For 110-125 volts AC, 60 cps. Shipping weight 42 lbs.

# NEW

## Directronic 3-DX Indoor TV ANTENNA FOR

BLACK | WHITE | COLOR | -FM-

The new Snyder Directronic 3-DX is electronically antenna-engineered to out perform all others. Has two 3-section gold tone brass staffs plus cylindrical phasing elements. Features Directronic 12-position beam selector to eliminate ghosts and reflections to give you steady, clear, static free reception. Smartly styled, compact, tip-proof base enhances beauty of any television cabinet. Complete with 300 ohm lead-in. Shipping weight 3 lbs.

snyder

No. AA-114 OLSON LOW PRICE . . .

$6.91




## new . . . Kinematix "IMP II" FM WIRELESS MIKE

$39.95

★ Eliminates Wires and Cables
★ Response 30-20,000 cps.
★ FCC Approved
★ Completely Transistorized




Made in U.S.A.

Just tune any blank spot on the standard FM dial (88 to 108 mc) and you're on the air with no static or background noise. This complete FM transmitter fits neatly into your shirt pocket, only 3⅛" x 2¼" x 1". You can walk and talk and be completely free from the bother of cables. Ideal for theatrical and TV productions. Perfect for investigation work, surveys—hundreds of other applications. Has input for optional external mike. Chrome plated steel case includes leather carrying case. Transmitter is tunable from 88 to 108 mc. Operating range: 175-225 Ft. Complete with operating instructions (less battery). Shipping weight 1 lb.



Transmits over 200'

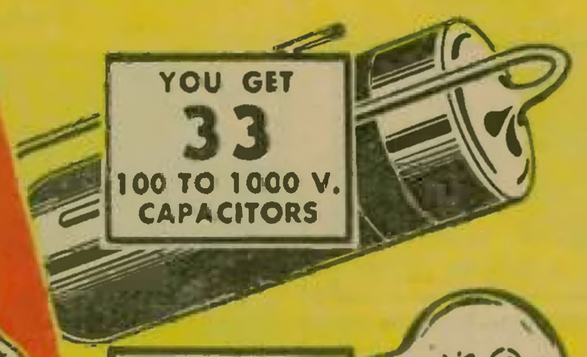
| | |
|---|---|
| No. RA-625, IMP-"II" (Less Mike) | $39.95 |
| No. RA-626, With Built-In "Pinhead" Mike | 49.95 |
| No. BA-100, Mercury MH126 Battery | 1.05 |

# FREE

GENERAL ELECTRIC Electric ALARM CLOCK



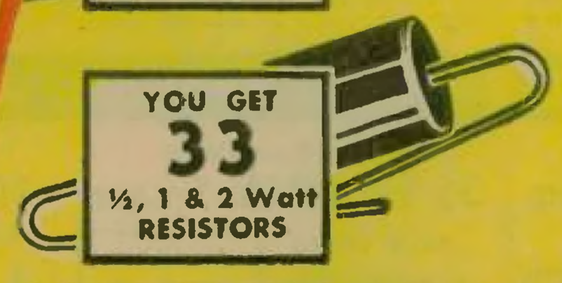
WITH PURCHASE OF 100 PIECE PARTS ASSORTMENT AT RIGHT



YOU GET 33 100 TO 1000 V. CAPACITORS



YOU GET 34 Disc & Tubular CAPACITORS



YOU GET 33 ½, 1 & 2 Watt RESISTORS

## 100 PIECE PARTS ASSORTMENT

ALL 100 Pieces

$3.99

No. AS-866

100 carefully selected components to fill most replacement and experimental needs. You get 33—½, 1 and 2 watt resistors. Also included are 34 tubular capacitors from 100 to 1,000 volts. To complete this fine kit, we have added 34 disc and tubular ceramic capacitors rated at 600 v. All parts in this kit are brand new with full length leads. All are made by leading manufacturers. Keep several of these kits handy in tool box or on your work bench, and you will always have the part you need when you need it. Shipping weight 2 lbs.

## 8" OXFORD SPEAKER PLUS 100 Precision RESISTORS

★ Speaker Impedance 8 ohms
★ Speaker Power Cap. 10 Watts
★ Selected Assortment of Resistors
★ Resistor Wattages ½ to 2 Watts



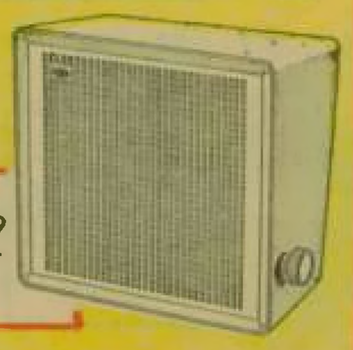
ALL FOR $3 No. AS-863

Here's a real "top-value" for the experimentor or hobbyist. You get a genuine 8" Oxford speaker suitable for replacement in radio, TV, phono, or extension speaker for your stereo. Precision resistors are ideal for all kinds of experimental circuits as multipliers, voltage dividers, etc. Resistance values marked on each resistor. Resistors range from very small ½ watt size to larger 2 watt size. An unusual combination at a usual Olson low price. Shpg. wt. 4 lbs.

## 8" SPEAKER & BAFFLE

★ LEVEL CONTROL
★ SHELF-WALL MOUNTING

$8.91 No. S-409 3 for $26



Satin Smooth hi-impact plastic baffle with level control and rugged 8" speaker wired and installed. Ideal for churches, schools, public buildings, or use around the house as an extension on radio, TV or phono. Attractively styled to match any decor. 4 watts 8 ohms. Response 50 to 9,000 CPS. Size: 16" x 9⅝" x 5⅝". Shipping weight 8 lbs.

SPEAKER CABLE, 33 ft., 24 Ga., No. W-361 ..... 99c

J. M. Aston, Rt. 2, Box 772, Astoria, Oreg., wins choice of merchandise worth $5 from Olson's "Treasure Hunt." See back cover for instructions.



## 45 RPM RECORD BARGAINS!

ALL 9 FOR 99c No. RP-251

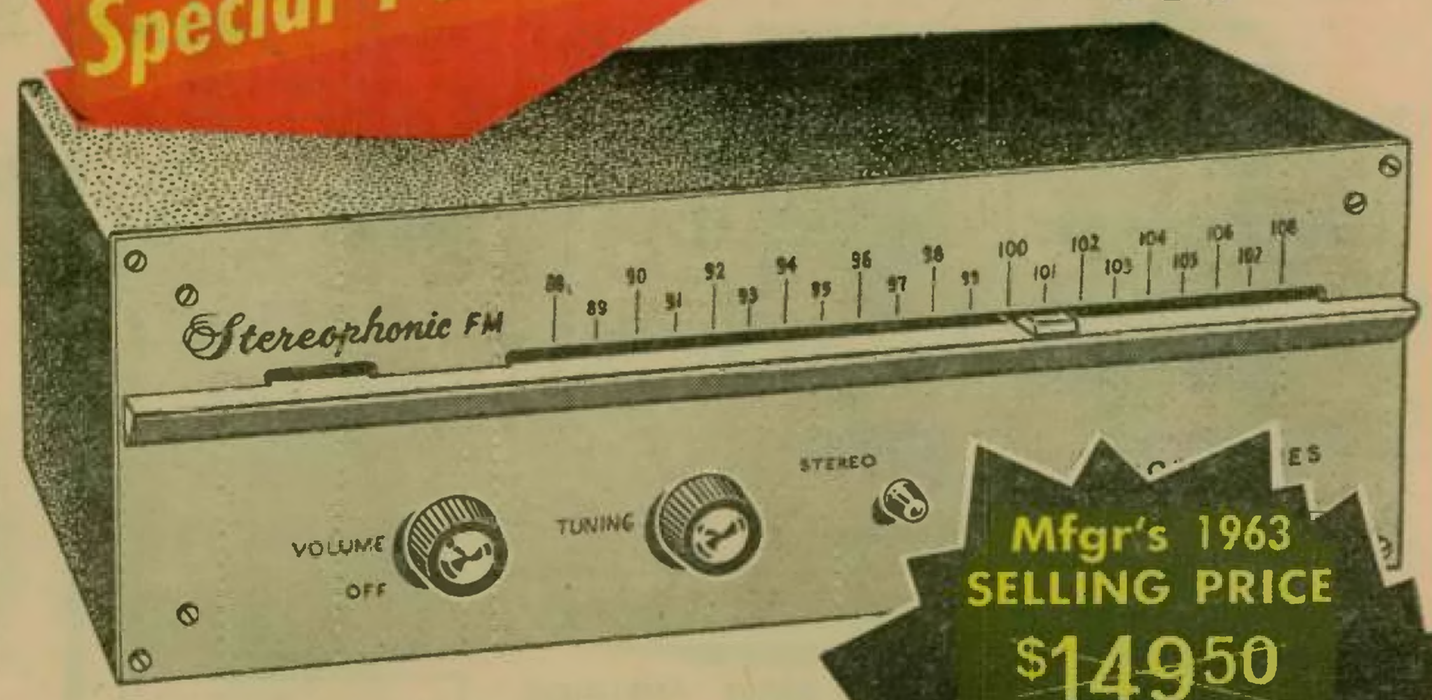
★ Famous Artists
★ Famous Brands

Another terrific deal from Olson! Name brand 45 RPM records at a fraction of their usual price. Such famous artists as Tony Bennett, DeJohn Sisters, Frankie Laine, Don Cherry, Ken Griffin, Jimmy Boyd and many others. Most records are Columbia brand, all are First Quality name brands. Assortments vary. Order now while the best selections are still available. Shipping weight 2 lbs.

## EXCLUSIVE Special Purchase

KARG LABORATORIES

# FM/FM STEREO Tuner




★ Gold Anodized Panel
★ Latest Multiplex Circuitry
★ Award Winning Design

Olson has just completed one of the most fantastic special purchases ever made. A high quality, U.S.A. made FM tuner at a fraction of the manufacturer's original price. Only a limited number were available and they won't last long at this low, low price. From the award winning styling to the outstanding performance, this is truly the most outstanding value anywhere. Features an automatic indicator which lights up when you tune in a multiplex (stereo) FM station. Automatic switching makes changeover from regular FM to FM stereo automatically. Low noise RF amplifier brings in even the distant stations with ease. Smooth action flywheel tuning on 9" slide-rule dial provides unusual accuracy. This fine tuner is equipped with a separate monophonic output jack as well as stereo outputs. Has built-in antenna plus provisions for external antenna. **Specification:** Sensitivity: 2.2 uv, IHFM; 0.8 uv, for 20 db. quieting. Response ± 1 db. 40-15,000 cps. Hum and noise: —48 db. with 50 uv. input. Distortion: less than 1.5%. Separation: 30 db. Size: 15⅝" W. x 5½" D. x 6" H. For 110-125 volts A.C. 60 cps. Includes metal cover. Shipping weight 12 lbs.

Mike's Musical Serv., Mike A. Young, Soldiers Grove, Wis., wins choice of merchandise worth $5 from Olson's "Treasure Hunt". See back cover for instructions.

Mfgr's 1963 SELLING PRICE ~~$149.50~~

OLSON LOW PRICE

$69.99

No. RA-622

LESS THAN HALF OF THE MANUFACTURERS ORIGINAL PRICE

# BOGEN ★ P. A. AMPLIFIERS ★




## 20 WATT
### P. A. AMPLIFIER
### Model CHB-20A

**$59.95** No. AM-247
NO MONEY DOWN
$7 MONTHLY

MODEL CHB 20. **POWER OUTPUT:** 20 Watts @ 5% distortion. **FREQUENCY RESPONSE:** 20-20,000 cps ± 2db. **INPUTS:** 1-microphone (high impedance), 2 Aux. (high impedance). **SENSITIVITY:** Mic.: 3 mv; aux.: .5 volts. **GAIN:** Mic.: 125 db; aux.: 100 db. **OUTPUT IMPEDANCE:** 4, 8 and 16 ohms. 25 volt balanced line (31 ohm), 70 volt line (250 ohm). **CONTROLS:** Mike volume, fader for 2 aux. inputs, master volume, bass, treble, power switch. **TONE CONTROL ACTION:** Treble (10KC) + 10db to —16 db; Bass (50 cps) + 14db to —10db. **TUBES:** 1-6EU7, 2-6GW8, 1-6CA4, 1-Silicon diode. **POWER CONSUMPTION:** 90 Watts, 105-125 V. AC, 50-60 cps. **DIMENSIONS:** 6¾"H. 15¾"W. 10" D. **SHIPPING WEIGHT** 16 lbs.

BOGEN

## 35 WATT
### P. A. AMPLIFIER
### Model CHB-35

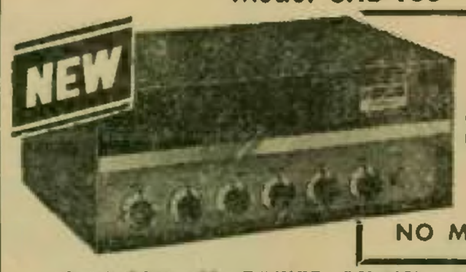



No. AM-248
ONLY
**$71.95**
$8 MONTHLY
NO MONEY DOWN

MODEL CHB 35. **POWER OUTPUT:** 35 Watts @ 5% distortion. **FREQUENCY RESPONSE:** 20-20,000 cps ± 2 db. **INPUTS:** 2 microphones (high-impedance), 1—Magnetic Phono, 2—Aux. (high-impedance). **SENSITIVITY:** Mic.: 4 mv.; Aux.: 2 volts; mag. phono: 12 mv. **GAIN:** Mic.: 125 db; Aux; 100 db; Mag. Phono, 115 db. **OUTPUT IMPEDANCE:** 4, 8 and 16 ohms. 25 volt line (18 ohm), 70 volt line (143 ohm). **CONTROLS:** Mike No. 1 and No. 2 volume, fader for 2 aux. inputs, master volume, bass, treble, power switch, mag. phono switch. **TUBES:** 1—6EU7, 2—7868, 1—12AX7, 1—6CA4, plus silicon rectifier. **POWER CONSUMPTION:** 125 watts, 105-125 V. AC, 50-60 cps. **DIMENSIONS:** 6¾" H. 15¾" W. 10" D. **SHIPPING WEIGHT** 16 lbs.

BOGEN

## 100 WATT
### P. A. AMPLIFIER
### Model CHB-100




No. AM-249
ONLY
**$112.45**
$7 MONTHLY
NO MONEY DOWN

Model CHB 100. **POWER OUTPUT:** 100 Watts @ 5% distortion. **FREQUENCY RESPONSE:** 20-20,000 cps ± 2db. **INPUTS:** 2 microphones (high-impedance), 1—Magnetic phono, 2—Aux. (high-impedance). **SENSITIVITY:** Mic: 5mv.; Aux.: 3 volts; Mag phono: 15 mv. **GAIN:** Mic.: 125 db; Aux.: 100 db; Mag. phono: 115db. **OUTPUT IMPEDANCE:** 4, 8 and 16 ohms, 25 volt line **BALANCED** (5 ohm), 70 volt line (50 ohm). **CONTROLS:** Mike No. 1 and No. 2 volume, fader for 2 aux. inputs, master volume, bass treble, power switch, magnetic phono switch. **TUBES:** 1—6EU7, 1—12AX7, 4—7868, 1—6C4 plus silicon rectifier. **POWER CONSUMPTION:** 150 watts, 105-125 V. AC, 50-60 cps. **DIMENSIONS:** 6¾" H. x 15¾" W. x 10" D. **SHIPPING WEIGHT** 31 lbs.

## "DO-IT-YOURSELF P.A." Schools, Churchs, Clubs

Bogen, Electro-Voice, Olson
### 20 Watt P. A. System
★ Indoor and Outdoor Use



No. AS-884
Save $19.14
**$105**
$7 MONTHLY

HERE'S WHAT YOU GET:

| | |
|---|---|
| 1—AM-247 20 Watt Amp. (above) | $59.95 |
| 2—S-175 Electro-Voice Speakers (right) | 42.92 |
| 1—M-164 Dynamic Mike (pg. 21) | 12.98 |
| 2—T-110 Line Transformers | 3.42 |
| 1—W-318 100 Ft. Speaker Cable | 2.59 |
| 1—M-95 Mike Stand (pg. 21) | 1.97 |
| 1—X-317 Microphone Connector | .31 |
| ★ TOTAL REGULAR CATALOG PRICE | **$124.14** |

Bogen, Electro-Voice
### 35 Watt P. A. System
SAVE $35.15



No. AS-885
**$169**
$11 MONTHLY

HERE'S WHAT YOU GET:

| | |
|---|---|
| 1—AM-248 35 Watt Amp. (above) | $71.95 |
| 3—S-175 Electro-Voice Speakers (right) | 64.38 |
| 1—M-140 Electro-Voice Mike (pg. 21) | 49.98 |
| 1—M-94 Floor Mike Stand (pg. 21) | 7.91 |
| 3—T-110 Line Transformers | 5.13 |
| 1—W-317 250 Ft. Speaker Cable | 4.49 |
| 1—X-317 Microphone Connector | .31 |
| ★ TOTAL REGULAR CATALOG PRICE | **$204.15** |

Bogen, Electro-Voice, Racon
### 100 Watt P.A. System
SAVE $11.58



No. AS-886
**$296**
$15 MONTHLY

HERE'S WHAT YOU GET:

| | |
|---|---|
| 1—AM-249 100 Watt Amp. (above) | $112.45 |
| 4—S-486 Racon Horns (right) | 65.80 |
| 4—S-487 Racon Drivers (right) | 59.80 |
| 1—M-140 Electro-Voice Mike (pg. 21) | 49.98 |
| 4—T-110 Line Transformers | 6.84 |
| 1—M-94 Floor Mike Stand (pg. 21) | 7.91 |
| 1—W-317 250 Ft. Speaker Cable | 4.49 |
| 1—X-317 Microphone Connector | .31 |
| ★ TOTAL REGULAR CATALOG PRICE | **$307.58** |

Bogen, Olson
### 20 Watt P. A. System
SAVE $20.30



No. AS-887
**$99**
$10 MONTHLY

HERE'S WHAT YOU GET:

| | |
|---|---|
| 1—AM-247 20 Watt Amp. (above) | $59.95 |
| 4—S-409 8" Speaker/Baffle (pg. 7) | 34.66 |
| 1—M-164 Dynamic Mike (pg. 21) | 12.98 |
| 1—M-95 Mike Stand (pg. 21) | 1.97 |
| 4—T-110 Line Transformers | 6.84 |
| 1—W-318 100 Ft. Speaker Cable | 2.59 |
| 1—X-317 Microphone Connector | .31 |
| ★ TOTAL REGULAR CATALOG PRICE | **$119.30** |

Bogen, Electro-Voice, Olson
### 35 Watt P. A. System
SAVE $27.14



No. AS-888
**$149**
$9 MONTHLY

HERE'S WHAT YOU GET:

| | |
|---|---|
| 1—AM-248, 35 Watt Amp. (above) | $71.95 |
| 4—S-409, 8" Speaker/Baffle (pg. 7) | 34.66 |
| 1—M-140 Electro-Voice Mike (pg. 21) | 49.98 |
| 1—M-94 Floor Mike Stand (pg. 21) | 7.91 |
| 4—T-110, Line Transformers | 6.84 |
| 1—W-317, 250 Ft. Speaker Cable | 4.49 |
| 1—X-317, Microphone Connector | .31 |
| ★ TOTAL REGULAR CATALOG PRICE | **$176.14** |

Bogen, Electro-Voice, Olson
### 100 Watt P.A. System
SAVE $29.14



No. AS-889
**$229**
$13 MONTHLY

HERE'S WHAT YOU GET:

| | |
|---|---|
| 1—AM-249 100 Watt Amp. (above) | $112.45 |
| 8—S-409 8" Speaker/Baffles (pg. 7) | 69.32 |
| 1—M-140 Electro-Voice Mike (pg. 21) | 49.98 |
| 8—T-110 Line Transformers | 13.68 |
| 1—M-94 Floor Mike Stand (pg. 21) | 7.91 |
| 1—W-317 250 Ft. Speaker Cable | 4.49 |
| 1—X-317 Microphone Connector | .31 |
| ★ TOTAL REGULAR CATALOG PRICE | **$258.14** |

### 70 VOLT LINE TRANSFORMER FOR ABOVE AMPLIFIERS

Primary: 2½ to 10 watts. Secondary: 3.2 & 8 ohms. 2" x 1½" Mtg. Ctrs. 2⅝". Use one line transformer with each speaker. Shipping weight ½ lb.

**$1.71** No. T-110
3 for $4.50
Lots of 12, Ea. $1.25

BOGEN
### PHONO TOP
Model LPC-4 ★ 4-SPEED



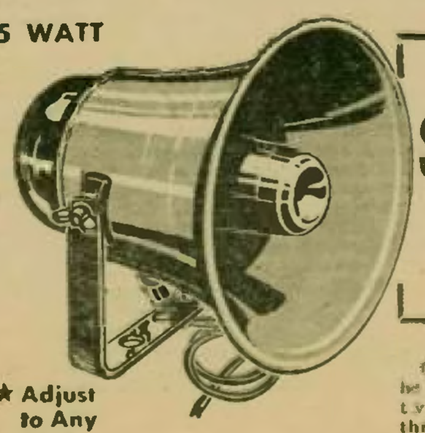
NEW

No. RP-270
ONLY
**$22.65**

Attaches to top of Models CHB50, and CHB100 . . . with tone arm, cartridge, rubber turntable mat and built-in 45 r.p.m. adapter. Dimensions: 4⅞" H. x 15" W. x 9½" D. Shpg. wt. 8 lbs.

20

Olson
### TRUMPET SPEAKER
5 WATT

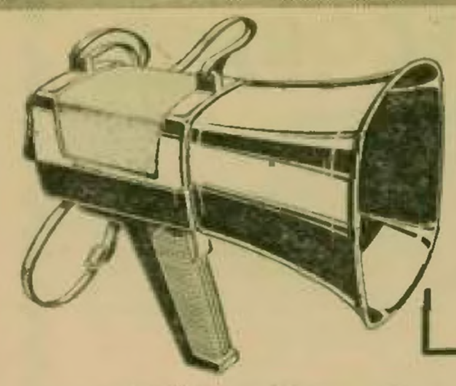


★ Adjust to Any Angle

No. S-453
**$6.95**
3 for $20

Clear even coverage can be gained with trumpet-type speakers. Cuts through background noise. Ideal extension speaker for CB transceivers. 8 ohms. Response: 400-8,000 CPS. Size: 5½" dia. x 5" deep. Shpg. wt. 4 lbs.

CABLE FOR ABOVE SPEAKER, SEE PAGE 25



POWER
## MEGAPHONE
★ Transistor Power Circuit

**$6.85** No. S-540

Pull the trigger and talk—no warm up required. Send your voice over long distance (Average range 100 yards). Ideal for playground, spectator sports, boating, civil defense, etc. Made of super high-impact plastic. Has attached sling handle for easy carrying. Operates on 4 standard flashlight batteries (not included). Size: 12" long, horn mouth 6 square. Shipping weight 5 lbs.

Batteries (4 req'd) No. BA-53 ..... Ea. 13c

Olson
SELF-POWERED
## MEGAPHONE
★ Range Over 600 Ft.
★ Trigger Switch
★ Battery Operated

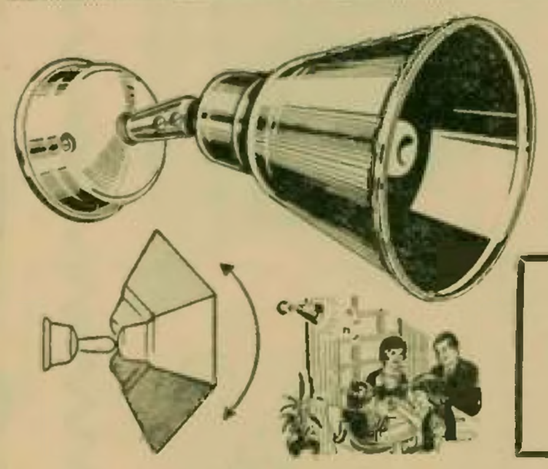


**$29.88** No. S-426
3 for $87

No warm-up required—use instantly—trigger switch built into handle. Press to talk, one hand operation. Operates on 4 standard flashlight cells (not included) has power selector switch for high and low output. All metal construction in grey enamel finish. Size: 15½" long. Horn mouth 5¾" diameter. Shipping weight 9 lbs.

Batteries (4 req'd) No. BA-53 ..... Ea. 13c

Olson
Paging & Talk Back
## SPEAKER
★ Weather Proof
★ Decorator Styled



No. S-565
**$12.98**
2 for $25

Styled to blend tastefully with today's most modern furnishings. Ideal for any location where appearance is a critical factor, such as churches, conference halls, restaurants and similar surroundings. This speaker is equipped with a driver type reproducer unit for high efficiency, directivity and intelligibility. Response: 300 to 10,000 cps. Space is provided under the base of the speaker to house a line matching transformer if one is used. The base is designed to facilitate mounting to the standard 4" utility box or electrical lamp offset crossbar. Power rating 15 watt. Impedance: 8 ohms. Size: 6⅞" diameter x 15" long. Shipping weight 5 lbs.

RACON
### 25 Watt P.A. & Paging Speaker
★ Weather-Proof Terminal Block



Made In U.S.A.

No. S-482
**$20.70**
Compare at $34.50

Complete with driver, universal mounting brackets, unibody construction, Fideliflare design and built-in terminal blocks with transparent covers. Speaker mechanism fully enclosed in all-cast housing. High power for P.A. Superb speech efficiency. 25 watt continuous; 50 watt peak. Response 250-15,000 CPS. Voice Coil impedance; 8 ohm. Length 9¼" diameter 10¼". Shipping weight 7 lbs.

RACON SPEECH & MUSIC



No. S-486
**$16.45**
2 for $32.00

● 3½ ft. Reentrant air column

True wide range reproduction of speech and music. Overall length 15", diameter 21". Supplied less driver. Shpg. wt. 13 lbs.

30 Watt Driver ● Model DA-30

For above speaker. Resp. 75-7500 CPS. 16 ohms. Shipping weight 7 lbs.

No. S-487, 2 for $29.00 ..... Ea. $14.95

### HI-FI MUSIC P. A. SPEAKERS
RACON

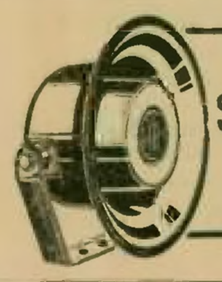


No. S-488
**$19.95**
2 for $39

★ 95-8000 CPS ★ 15 Watts Power

Low cost, but high in efficiency and realism. Single wide range speaker with 120° dispersion. Combination of horn and housing produces excellent sound. 8 ohms impedance. Size: 8⅛" overall length, diameter 15". Shipping weight 11 lbs.

RACON



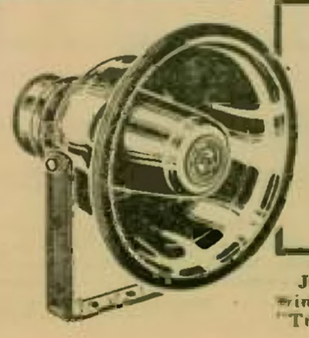
No. S-484
**$37.75**
2 for $74

★ 60-11,000 CPS ★ 30 Watts Power
★ Fully weather-proof

In this excellent music coaxial reproducer, with 120 degrees dispersion, an 8" woofer handles lows down to 60 C.P.S. Separate cone tweeter gives clean, smooth high frequencies. 8 ohms impedance. Size: Length 12¾" diameter 21½". Shipping weight 21 lbs.

Electro-Voice
Model 844

33 WATT
### PAGING SPEAKER
★ 90° Dispersion ★ Made In U.S.A.



No. S-175
**$21.46**

Complete horn and driver unit for general purpose paging and talk-back. Weatherproof construction. Response: 250-11,000 cps. Complete with transistorized hermetically sealed driver unit and mounting bracket. Size: 9½" dia. x 8⅛" deep. 8 ohm impedance. Shipping weight 9 lbs.

Johnson's Radio Serv., 11 North Ave., Burlington, Vt., wins choice of merchandise worth $5 from Olson's "Treasure Hunt." See back cover for instructions.

NEW

## Remote Control MICROPHONE

- Built-in Telephone Pick-Up
- Remote Control Switch




Genuine dynamic microphone has built-in transformer to change to hi-impedance. Slide switch on front selects microphone or telephone pick-up. Plug into tape recorder to make recordings of telephone conversation. A switch and extra set of wires is also included to operate a relay or start and stop tape recorder motor. Sensitivity: —53 db. Impedance: 50K ohms, telephone pick-up 2000 ohms. Frequency response: 60-10,000 cps. Shipping weight 2 lbs.

NEW

## Versatile DYNAMIC MIKE

- Desk Stand—Hand Held
- High Impedance




Beautifully designed and attractively finished in gray and brushed aluminum. Microphone slips easily from its cradled holder for use as a hand mike. Heavy cast base has rubber pads on the bottom so that it will not mar desk top. Microphone cradle has smooth vinyl insert to protect the fine finish on the mike. Rugged dynamic element is matched to transformer to give high-impedance output (50,000 ohms). Output level—53 db. Frequency response is 40-9,000 cps. Size: (mike) 1⅞" dia. x 3⅝" long. Has 5½ foot cable attached with flexible "cable-protector" at base of mike. Shipping weight 2 lbs.

NEW

## Deluxe DYNAMIC MIKE

- 50,000 ohm Impedance
- Adjustable Desk Stand




A rugged dynamic microphone with smooth response from 40-13,000 cps. Mike slips easily from its cast base for use as a hand mike. "Adjust-a-tilt" base has rubber feet to protect desk finish. Microphone is finished in satin black and chrome. Wide range dynamic element is perfectly matched to a high-fidelity transformer which gives an output impedance of 50,000 ohms. Output level is —55 db. Size: (mike) 1⅞" dia. x 4⅝" long. Has 6½ ft. shielded cable with flexible "cable-protector" at base of mike. Shipping weight 2 lbs.

NEW

## Hi-Lo Dual Impedance DYNAMIC MIKE

- With 25 Foot Cable
- Response: 50-10,000 CPS




For recording and P.A. applications requiring long mike cables. Cable can be extended to 100 ft. or more with no signal loss. An impedance matching transformer (not included) is required for matching into hi-impedance inputs when mike is wired for low impedance operation. Microphone has cardiod pick-up pattern. Standard ⅝"-27 thread. Response: 50-10,000 CPS. Output—55 db. Impedance: 50k ohms and 600 ohms. 5½" x 2½". Shipping weight 2 lbs.

NEW

## Stereo DYNAMIC MIKE

- Stereo-Monaural Switch
- Satin Chrome Plated




Dual high impedance dynamic elements. Eliminates need for two mikes when making stereo recordings or monaural recordings of large groups. Heavy cast base. Frequency response: 50-15,000 cps. 50 K ohms. Polar Pattern: 2 omni-directed patterns 90° apart. With cable. Size: 4" x 7¼". Shipping weight 6 lbs.

## Olson CRYSTAL MIKE

★ On-Off Switch



No. M-153
$2.95
3 for $8.50

High impedance crystal microphone suitable for voice recording, P. A. and amateur communications. Response: 50 to 7500 CPS. Output: —58 DB. Push to talk switch located conveniently at top. Contrasting gold grille. With 5 ft. shielded cable. Shipping weight ½ lb.

MIKE CABLE, 22 ft., No. W-362 ____ 99c
¼" Phone Plugs, No. AS-477, Kit of 2 99c

## Olson CRYSTAL MIKE

★ Includes Mike Stand



No. M-145
$3.88
3 for $11.50

With built-in On-Off switch for tape recording, P.A., etc. Satin chrome finish. All directional, high impedance. Uniform response 50 to 8500 cps. Output level —57 DB. With desk stand, lavalier cord and 6 ft. shielded cable. Shipping weight 2 lbs.

MIKE CABLE, 22 ft., No. W-362 ____ 99c
¼" Phone Plugs, No. AS-477, Kit of 2 99c

## Olson CRYSTAL MIKE

★ High Impedance



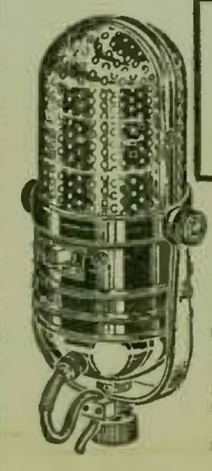
No. M-105
$3.66
3 for $10.50

High impedance; response 100 to 8,000 cps. Ideal for PA. or communications use. Output —55 DB. Finished in an attractive baked green enamel with chrome-plated front. Overall size: 2½" dia. x 4¼" long. Standard ⅝"-27 thread for mike stand with 5 ft. shielded cable. Shipping weight 2 lbs.

MIKE CABLE, 22 ft. No. W-362 ____ 99c
¼" Phone Plugs, No. AS-477, Kit of 2 99c

## Olson CRYSTAL MIKE

★ With Series Parallel Switch



No. M-102
$5.87
3 for $17.50

High indepedance crystal mike for music, voice, recording, P.A. etc. Equalize by a flip of the switch that is built into front of mike. Response 40 to 8,000 cps. Output—50 DB Double crystal cartridges give non-directional response when vertical to shielded cable. Shipping weight 3 lbs.

MIKE CABLE, 22 ft., No. W-362 ____ 99c
¼" Phone Plugs, No. AS-477, Kit of 2 99c

## Olson GUITAR MIKE

★ Matches Any Amp.



No. M-161
$6.95

Specially designed for guitars. Mounts under strings without tools or attachments. High impedance. Matches any amplifier. Has tone and volume controls. Unit slides up and down easily to create different tonal effects. Fits round hole opening. With 8 ft. plug-in cable. Shpg. wt. 5 lbs.

Stretch microphone cable. Extends to 16 ft., No. W-467 ____ $4.49

MIKE CABLE, 22 ft., No. W-362 ____ 99c
¼" Phone Plugs, No. AS-477, Kit of 2 99c

## Electro-Voice Model 664



Cardioid
DYNAMIC MIKE

$49.98 No. M-140

Response from 40-15,000 cps. Can be used with high or low impedance inputs. Low wind noise pickup means better outdoor sound. Output—55 db. Chrome finish. 18" cable. 7¼" long x 1⅞" diameter. Shipping weight 5 lbs.

¼" Phone Plugs, No. AS-477, Kit of 2 ____ 99c
Mike Cable, 22 ft., No. W-362 ____ 99c
Microphone Connector, No. X-317, Ea ____ 31c

## Olson Contact MIKE



No. M-130
$1.49 ea.
3 for $4.00

High impendance crystal contact mike with flexible 5½" shielded lead. Can be connected to guitars, pianos, etc. For recording or P.A. Also use as a detective mike. Shipping weight ½ lb.

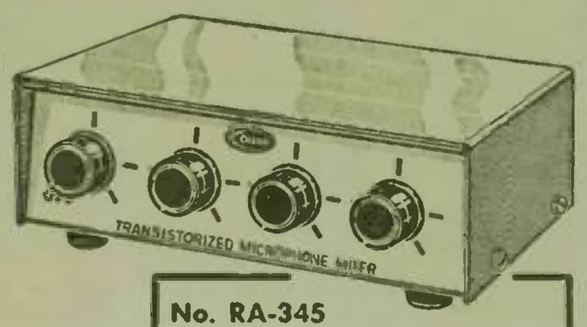
MIKE CABLE, 22 ft. No. W-362 ____ 99c
¼" Phone Plugs, No. AS-477, Kit of 2 ____ 99c

Bradford Radio Sound, P.O. Box 311, Westerly, R. I., wins choice of merchandise worth $5 from Olson's "Treasure Hunt." See back cover for instructions.

## Transistorized Mike Mixer

Olson

★ 4 Channels




Controls one to four signals from high impedance sources. Allows user to increase the volume of any channel while fading or holding the other channels. All four inputs have standard ¼" phone jacks. Output terminates in RCA type phone jack. Operates on single 9 volt battery (less battery). Size: 6" W. x 2¼" H. x 3½" D. Shipping weight 3 lbs.

BATTERY (1 reqd.) No. BA-89, Ea ____ 21c

No. RA-345
$4.85 2 FOR $9.50

## FLOOR Mike Stand

$7.91 No. M-94
3 for $23.00

Chrome finish. 61 inches extended. 32 inches collapsed. Cast iron base in grey wrinkle finish ⅝"-27 thread. Shpg. wt. 9 lbs.

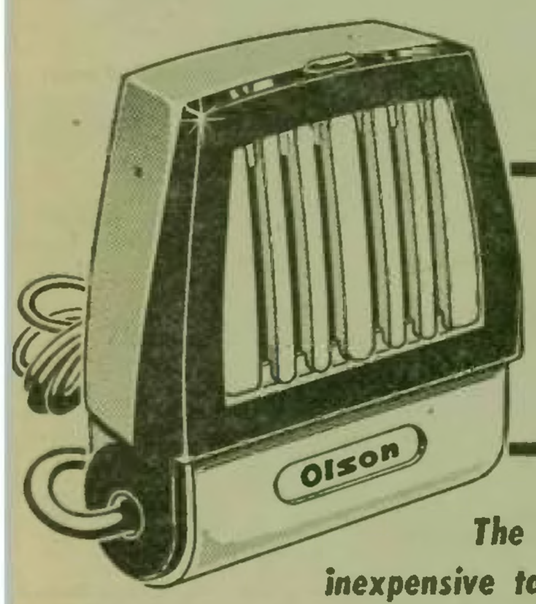
## DESK STAND

$1.97 No. M-95
3 for $5.00

6" high, standard thread. Shpg. wt. 2 lbs.

## Olson Crystal MICROPHONE

★ Sit On Desk
★ Hang On Wall
★ Hold In Hand



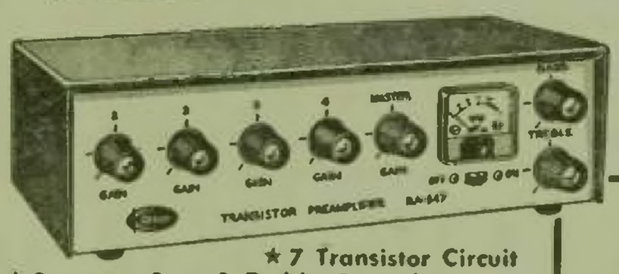

No. M-163
$2.99

MADE IN ENGLAND

*The ideal mike to make your inexpensive tape recorder sound better*

This high-output microphone is as handsomely styled as it is functional. Case is made of two-tone, hi-impact plastic. Three way stand folds around the microphone body permitting it to fit neatly into the palm of your hand. Equipped with an eight foot shielded cable which is finished in neutral grey. Ideal for tape recorder, PA, CB, or Amateur applications. Output—50 db. Resp. 40-8,000 cps. Use two for stereo. Shipping Weight ½ lb.

## Olson 4-Channel PREAMP MIXER




★ 65 db. Gain
★ Built-In VU Meter
★ 7 Transistor Circuit
★ Separate Bass & Treble Controls
★ Low Noise

No. RA-547
$34.98

A highly versatile, extremely well designed mixer-preamplifier for use in public address systems, tape recording and similar applications. Not to be confused with low priced mixers, Olson RA-547 is a mixer and preamplifier. Featuring 65 db. gain and extremely low noise level. The unit may be used for several combinations of high level and microphone mixing, since each channel can be individually switched for either use. The excellent signal to noise ratio of this unit makes it ideal for remote professional recording. Size: 3⅝" H x 11¾" W x 5¼" D. Operates on six pen-light batteries (Included). All metal case. Shipping weight 5 lbs.

STEREO MONO
Preamp Mixer

Same excellent features as above with added advantage of 2 channel stereo mixing separate outputs for each channel. This unit can also be used for mono application with just a flip of a switch. Features 9 transistors for high gain and low noise. Shipping weight 6 lbs.

No. RA-548 ____ $39.98

Batteries (6 req'd.)
No. BA-67 ____ 8 for 59c

## MIKE Cartridges

★ Crystal Type



Response 60 to 7,000 CPS. Output -55 db. Size: 2" dia. x1½". Shpg. wt. ¼ lb.

No. M-99, 3 for $5.00 ____ Ea. 1.99

As above but 1½" dia. x 1¼" thick. Shipping weight ½ lb.
No. M-134 3 for $3.00 Ea. 1.19

## MICROPHONE CONNECTOR



No. X-317
31c
4 for $1.00

Standard ⅝-27 thread
Shipping weight ½ lb.

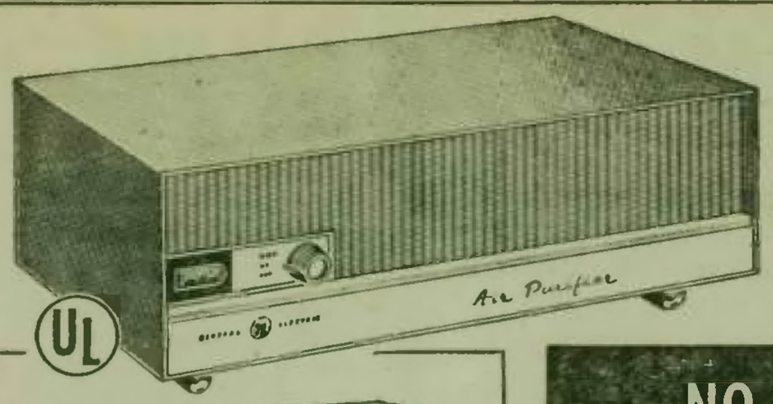
## 25' MICROPHONE Extension CABLE KIT

★ WITH 2 ADAPTOR PLUGS



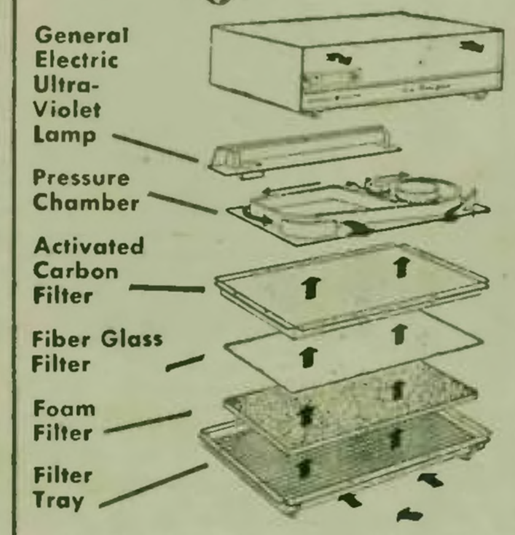
No. W-457
$4.31

Twenty-five feet of heavy duty shielded microphone cable with standard Amphenol type connectors on each end. Adaptor plugs convert Amphenol type plug to ¼" phone plug or ¼" phone jack. Extra flexible cable with rugged vinyl jacket is designed for heavy duty, everyday use. This universal extension cable makes any PA system more flexible. Shpg. wt. 3 lbs.




# Portable AIR PURIFIER

◀ Removes Smoke, Odors, and Air-Borne Particles




Air enters the bottom, passes through three filters, is exposed to the ultra violet rays, and is blown into your room clean and fresh.

**NO. MO-111**

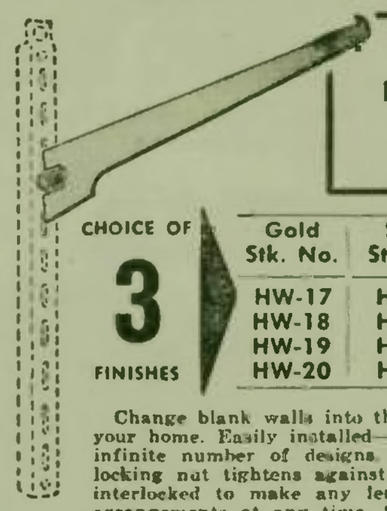
**$19.99**

★ HEAVY DUTY FOAM FILTER ★ ACTIVATED CHARCOAL ★ 18" ULTRA VIOLET LAMP

Wonderfully effective, stream-lined air purifier helps remove pollen, dust, smoke, and odors from the air; makes life more comfortable for allergy sufferers. A heavy-duty, washable foam filter removes most dust and dirt from the air passing through then a superfine fiber glass filter, removes smoke and other airborn particles down to approximately 1/1,000,000th of an inch. At least 90% of all household odors are actually removed from the air. After passing through this super-efficient filter system, the air is exposed to the rays of a General Electric 18-inch ultra-violet lamp. A quiet, but powerful 5-inch blower pulls 44 cubic feet of air every minute. Size: 21½" W. x 12" D. x 7½" H. For 110 to 120 V. AC, 60 cps. Shipping weight 24 lbs.

# Custom SHELF ACCESSORIES

## 6 TO 12" BRACKETS



AS LOW AS **23¢** EA.

Shpg. wt. ¼ lb. ea.

CHOICE OF **3** FINISHES

| Gold Stk. No. | Silver Stk. No. | Black Stk. No. | Shelf Widths | EACH |
|---|---|---|---|---|
| HW-17 | HW-21 | HW-25 | 6" | .23 |
| HW-18 | HW-22 | HW-26 | 8" | .26 |
| HW-19 | HW-23 | HW-27 | 10" | .33 |
| HW-20 | HW-24 | HW-28 | 12" | .36 |

Change blank walls into the most functional and attractive areas in your home. Easily installed—adjust shelf height in seconds—create an infinite number of designs. Brackets are adjustable at 1" intervals, locking nut tightens against strip. Strip standards, 12" long, can be interlocked to make any length standard. Change and enlarge wall arrangements at any time. Slim standards are barely visible. Shelves have an airy, floating look.



**12" STRIP WALL STANDARDS** 18¢ EACH

◀ Interlock To Any Length

Gold, No. HW-29
Silver, No. HW-30
Black, No. HW-31

Shpg. wt. ¼ lb. ea.

## Sound Powered PHONES

★ No Batteries Required



No. PH-53

**$5.95**

2 for $10.50




Provides instant 2-way communication up to 25 miles. No batteries required — only two wires to connect! Complete with coil cord attached that extends to 6 feet. As many as 12 phones can be connected. Shipping weight 3 lbs.

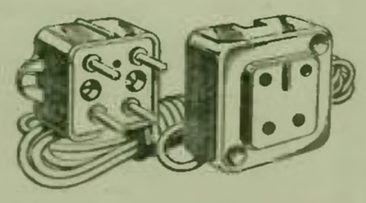
**Wire for connecting phones (indoor, outdoor or underground use).**

No. W-398, Per 100' coil ..... $3.00

## 25 Ft. Telephone EXTENSION CORD

★ Will Fit All Phones Listed On This Page
★ Move Your Intercom Phone To Any Room

BUY NOW!






No. W-442

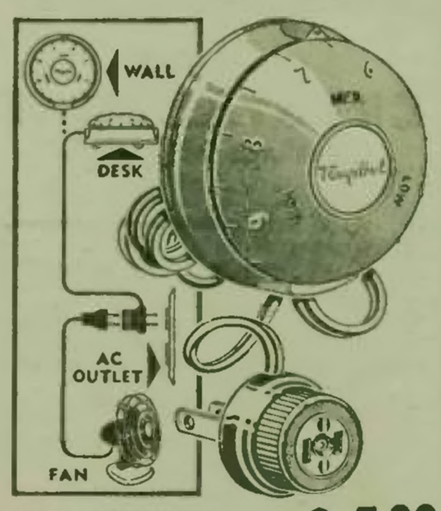
**$2.85**

$3.98 in CAT. 363

New extension cord for your telephone intercom. 25 feet of flexible cord and standard 4 pin plug and socket. Cord is completely assembled and ready to plug-in. Shpg. wt. ¾ lbs. Write for special large quantity prices.

PHONE PLUG, No. PL-82 ..... Ea. $1.25
PHONE JACK, No. PL-81 ..... Ea. $1.40

## Temptrol Automatic FAN CONTROL




Thermostatic Operation
MADE IN U.S.A.

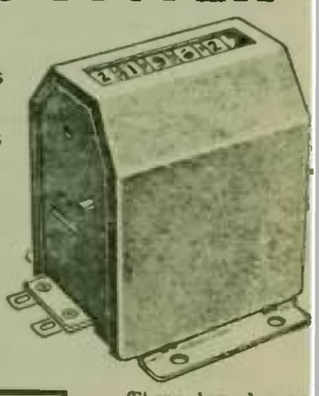
No. SW-280 **$4.99**

STARTS fan when room gets warm. | TURNS FAN OFF when room cools.

New automatic temperature control for all types of fans. No wires to connect, just plug "Temptrol" into any wall outlet and plug your fan into the outlet on the "Temptrol". Dial desired temperature and let "Temptrol" keep you cool automatically. Move from room to room wherever you use a fan, bedroom, kitchen or family room. 110-125 volts A.C., 60 cps. Shipping weight 1½ lbs. Limited Supply.

## 5 DIGIT Electro-Magnetic COUNTER

★ Turnstiles
★ Industry
★ Drive-In's
★ MADE IN U.S.A.
★ FOR 110-125 Volts A.C.



No. X-896

**ONLY $3.49**

10 for $30

These brand new counters are ideal for many counting operations, such as assembly line counting or door openings or machine operations, etc. Counts 400 pulses per minute. For 110-125 volts A.C. 60 cps. Size: 3" x 2½" x 2". Shipping weight 1 lb.

Jason Havemon, 9999 E. 32nd Rd 3, Holland, Mich., wins choice of merchandise worth $5 from Olson's "Treasure Hunt". See back cover for instructions.

## Telephone Operators HEADSET



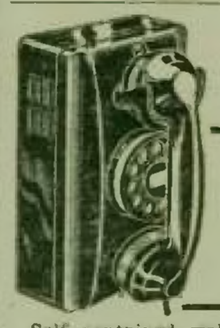
No. PH-84

**$19.99**

Consists of boom type mike and earpiece. Reconditioned, with cord and plug. Ideal for stage crews, telephones, etc. Frees hands. Shipping weight 2 lbs.

## WALL TELEPHONE

★ Wall Type with Dial & Bells



No. PH-49

**$8.95**

Self contained wall telephones. Includes bells, induction coil, capacitor, dial and handset. Ready to connect as extension for private systems. (General appearance may vary slightly from catalog illustration.) Used. Shipping weight 8 lbs.

Phone Wire, No. W-398, Per 100' Coil, $3.00
Phone Plug, No. PL-82 ..... Ea. $1.25

## DIAL PHONE

**$7.91**

2 for $15.00

Factory Tested

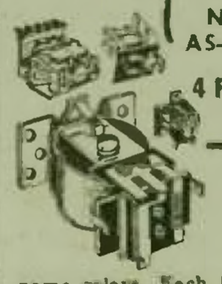
MAKE YOUR OWN PRIVATE INTERCOM



Western Electric ..... No. PH-61
Automatic Electric ..... No. PH-62

Can be used to make complete private systems. Includes handset, dial, bell, induction coil, etc., ready to connect. Used but factory tested. General appearance may vary slightly from catalog illustration. Available in 2 types. Shipping wt. 8 lbs.

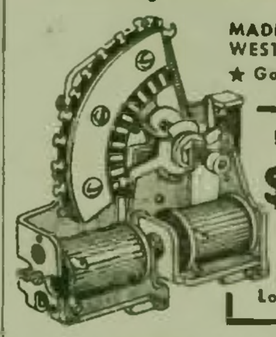
## GENERAL ELECTRIC RELAYS



No. AS-579 **4 FOR 99¢**

Attention: Experimenters, servicemen, students! Hundreds of applications can be found for these first quality, brand name relays. Each kit contains 4 assorted relays, all are made by General Electric. DPDT, DPST, etc., switch contacts. New in original factory cartons. Coils are rated 6 or 12 volts DC. Size: 1½" x 2" x 2". Shipping weight 3 lbs. Write for special large quantity prices.

## 10 Step & Reset RELAY



MADE IN U.S.A. BY WESTERN ELECTRIC
★ Gold Plated Contacts

No. SW-209

**$6.95**

3 for $19.50

Lots of 6, Ea. $6.00

Single pole, 10 position switch contacts. Operates on 6 or 12 volts. D.C. voltage impulses move selector bar one step at a time up to 10. Separate reset coil releases selector bar to starting position. Size: 3½" x 4" x 1¾". Excellent for experimenters, technicians, students, etc. Used but tested and in good condition. Shpg. wt. 2 lbs.

## Kit of 2 Sound Powered PHONE ELEMENTS



No. AS-569

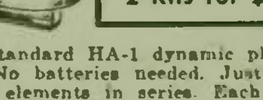
**99¢**

2 Kits for $1.75

Two standard HA-1 dynamic phone elements. No batteries needed. Just connect the two elements in series. Each element can be used as a receiver or transmitter or both. Four elements make two complete phones. Will operate over hundreds of feet of two conductor cable. Shpg. wt. ½ lb.

Phone Wire, No. W-398, Per 100' coil ..... $3.00

## TELEPHONE WIRE



2 conductor twisted No. 20 gauge stranded copperweld. Suitable for indoor, outdoor installations. Shipping weight 2¼ lb.

No. W-398, Per 100' Coil ..... **$3.00**

## COILED HANDSET CORD



No. W-395

**99¢**

4 for $3.50

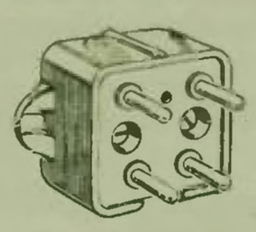
22

3 conductors. Works with W. E., A. E., North, St. Carl., Kellog, and Leich. Expands from 1 to 6 feet. Shipping weight ½ lb.

## Telephone ACCESSORIES

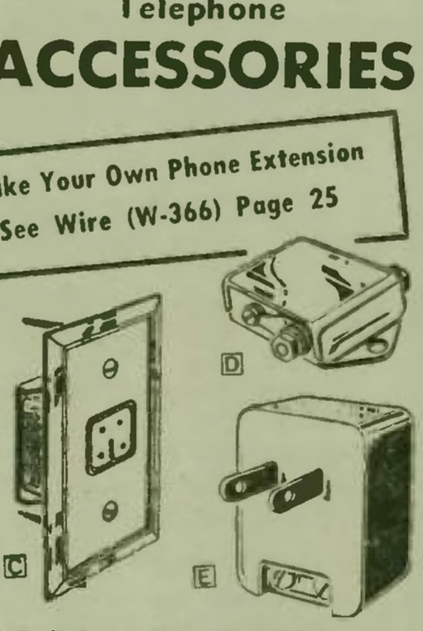
Make Your Own Phone Extension
See Wire (W-366) Page 25

A ★ PHONE PLUG ★



B ★ PHONE JACK ★






**A PHONE PLUG**
Shpg. wt. ¼ lb.
No. PL-82 ..... Each $1.25

**B PHONE JACK**
Shpg. wt. ¼ lb.
No. PL-81 ..... Each $1.40
100 ft. 3-cond. wire, No. W-105 ..... $1.50

**C Telephone WALL JACK**
For 2, 3, or 4 wire systems. Fits standard wall conduit boxes. Takes PL-82 plug. Shipping weight ½ lb.
No. AS-558 ..... Each $2.61

**D SIGNALING BUZZER**
Makes any phone (above) into a private intercom. For 6-8 volts A.C. Size: ⅞" x 2" x ½". Shipping weight ¼ lb.
No. EA-64, 3 for $8.50 Ea. $2.93

**E Transformer for use with buzzer**
110V. primary, 6.3V. secondary U.L. App.
No. T-329 3 for $5.50 Ea. $1.99

Steve Weber, 16500 S.W. Myrtle, Tuard 23, Oregon, wins choice of merchandise worth $5 from Olson's "Treasure Hunt." See back cover for instructions.

## TUNG-SOL "dynaquad" TOUCH CONTROL SWITCH

Transistorized
MADE IN U.S.A.




**$10.98** No. X-914

Build A Magic Lamp

PNPN transistor acts as an electronic switch that remains off until turned on and stays on until turned off. Works directly from 105-125 V. AC and can handle up to 100 watts. Self-contained in plastic case, 3" x 1¼" x 1¼". Useful for home lighting, burglar alarms, advertising displays, sick room alarms, etc. Shipping weight ¾ lbs.

## 5 Level 22 STEP RELAY

Made by WESTERN ELECTRIC
★ GOLD PLATED CONTACTS
★ 6-12 Volt D.C. Relay

MADE IN U.S.A.



No. SW-221

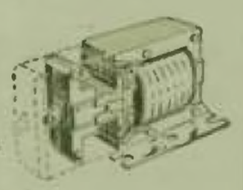
**$8.45**

3 for $24.00

All bridging wipers SPDT interrupter switch. Used but tested, and in good condition. Size: 7½" x 5" x 2". Shipping weight 4 lbs.

## 115-VOLT A.C. SOLENOID

★ Provides 5 to 10 lbs. pull or lift
Made for Hotpoint



No. SW-215

**$1.49** 3 for $4 12 for $15

Ideal for operating animated displays, hobby devices, and makes an excellent actuator for a remote power switch. Size only 2½" x 1⅝" x 2½". One inch armature travel. Shipping weight 2½ lbs.

## 3 Transistor PHONE CADDY



No. PH-75

**$7.99**

Allows freedom of movement without interruption of conversation. Small compact unit leaves desk clear. (Battery included). Size: 2 5-16"x4½"x4". Shipping weight 3 lbs.

Extra Battery, 9 V. (1 req'd.) No. 8A-89 ea. 21¢

RCA

# Battery CHARGER
Plus
2—Nickle-Cadmium
# BATTERIES



Rechargeable Penlight Size

RCA charger and two nickel-cadmium, rechargeable batteries. Batteries are standard penlight size and can be used in place of standard penlight batteries. Actual battery voltage is 1.25 volts. Charger charges 4 cells in series or may be used with any 6 volt rechargeable battery. An adaptor cord is included to charge directly from 12 volt auto battery. Size of charger: 3⅛" x 2½" x 2⅝". For 110-125 volts AC, 60 cps. Shipping weight 3 lbs.

## SALE!

REG. ~~$3.36~~ VALUE

ALL 3 ITEMS

**$2.99**

No. AS-880

★ ABOVE UNITS SOLD SEPARATELY ★

RCA BATTERY CHARGER
No. BA-94 ——— $4

RCA RCB-3 NICKLE-CADMIUM BATTERY
No. BA-96, 4 for $4 ——— Ea. $1.19




★ BUILD INTO WALL

Model 8406

# FASCO
## FM-AM RADIO INTERCOM SYSTEM

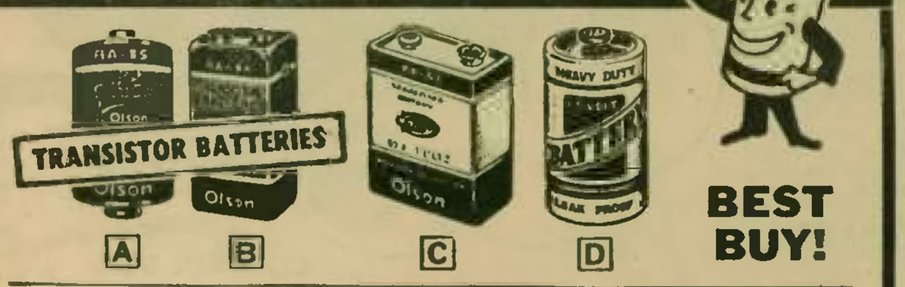
ALL STATIONS CAN INITIATE A CALL

No. AS-832
COMPLETE SYSTEM
**$99.99**
$10 MONTHLY
NO MONEY DOWN
Lots of 3, ea. $91.85

★ Phono Jack
★ 5 Remote Stations
★ Hardware & Wire Included

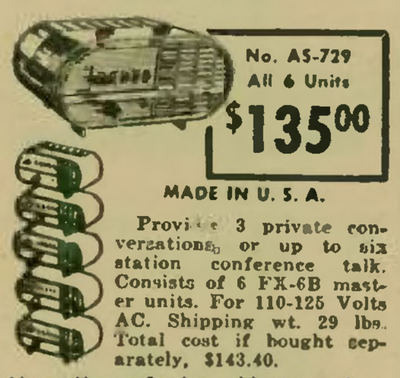
Master station panel is finished in brushed copper to blend with any decor. Complete system includes 1—master station with FM-AM radio and phono jack, 4—indoor remote stations with selector switches and one door remote station plus all hardware, wire and complete instructions. Master can call all remotes or play radio or phono through remotes. Remotes can call master or other remotes and can also answer door remote. Each remote is equipped with a hi-lo volume and selector switch. Radio features vernier tuning dial for easy tuning. All wiring is color coded and requires no soldering. Exclusive "Automatic Station Control" eliminates the complicated switching arrangements found on most radio intercoms. Remote stations may be operated as private or non-private units depending upon the setting of the selector switch. Size: Master, 15⅜" x 10¾" x 4". Indoor remotes: 8" x 8" x 1½". Outdoor remote 6" x 4" x 1½". For 110-125 v. AC. 60 cps. Shpg. wt. 26 lbs.

# BATTERIES




| | Stock No. | Volts | Replaces | Each | Lots of 10, ea. | Lots of 100, ea. |
|---|---|---|---|---|---|---|
| A | BA-85 | 9 | Burgess P-6, P-6M, RCA, VS-300, VS-314 and Eveready 226 ¼ lb. | 39c | 34c | 29c |
| B | BA-89 | 9 | Burgess, 2U6, RCA, VS-312, ¼ lb. Eveready 216, and NEDA 1604 | 21c | 20c | 19c |
| C | BA-99 | 67½ | Eveready 467, Burgess XX-45, and RCA VSO-16 ¾ lb. | $2.94 | $2.94 | $2.94 |
| D | BA-53 | 1½ | Burgess 2R, Eveready 950 or RCA VSO-36 ¼ lb. | 13c | 9c | 9c |

Fanon-Masco ALL MASTER
## 6-STATION INTERCOM
Model FX-6B



No. AS-729
All 6 Units
**$135.00**

MADE IN U. S. A.

Provides 3 private conversations or up to six station conference talk. Consists of 6 FX-6B master units. For 110-125 Volts AC. Shipping wt. 29 lbs. Total cost if bought separately, $143.40.

Above Master Station sold separately,
No. AM-212, Shpg. wt. 4 lbs ——— $23.90
11 Conductor Universal Cable
No. W-354 ——— Ft. 7c

Remote station for use with above master unit for master remote intercom. Model FCB. Up to five remotes may be used with a master. Shipping weight 2 lbs.
No. AM-226 ——— $8.40

Fanon-Masco 2-STATION
## Wireless Intercom
★ Model FW 50 B



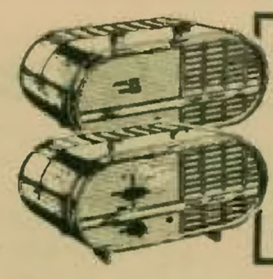
No. AM-227
BOTH FOR
**$49.95**

★ 3½" ALNICO MAGNET SPEAKER

No wires to connect, just plug in and use. Features powerful 4 tube plus silicon rectifier amplifier . . . picks up at considerable distances. "Dictate" position on talk-listen switch permits operation as a baby sitter. Noise silencing control eliminates interference of power lines. Several stations may be added to any system. Size: 8¾" W x 4¾" H x 5¾" D. For 110-125 volts AC. Shipping weight 7 lbs.

Extra station for above. Shpg. wt. 3½ lbs.
No. AM-228 ——— $25.45

Fanon-Masco DELUXE
## TWO STATION INTERCOM
Model FX-2B



No. AM-211
BOTH FOR
**23.90**

MADE IN U. S. A.

Substation can "originate" calls, or can be left open for baby sitting, dictation etc. or receive calls from master. Cabinet is 8¾" W. 4¾" H. 5¾" D. of high impact styrene. Black and gold trim. Complete with 50 ft. of 3 conductor cable. For 110-125 volts AC. Shipping weight 7 lbs.

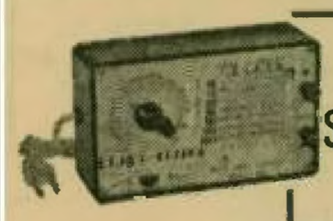
Extra Cable—100 ft. Shpg. wt. 2 lbs.
No. W-105 ——— $1.50

Transistor Radio Battery
## Eliminator-Charger



Charge batteries in 1 to 1½ hours. Converts transistor portables to AC. Use with batteries BL - 006P, MV - 006P, Burgess 2116. For 110-120 volts AC. Size, design may vary from picture. Shipping weight ½ lb.
No. BA-78, 3 for $8 ——— Ea. **$2.93**

Nickel Cadmium
## BATTERY CHARGER
★ Charge 1 to 10 Cells in Series



No. RA-602
**$9.95**

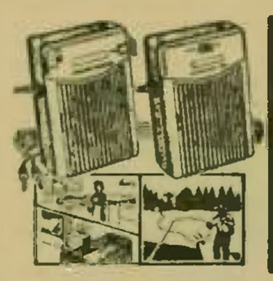
This unit will charge from 1 to 10 cells in series up to a maximum of 250 milliamperes. Battery manufacturers recommended charging rate is 10 per cent of rated cell capacity. Simply select correct charging rate in MA and read correct pointer setting beneath the number of cells being charged. Size: 6¼" x 2" x 5⅜". Shipping weight 3 lbs.

## Bag of 8 Pen-Lite Cells



Bag of 8 Replaces Burgess Z, Eveready 915, Ray-O-Vac 7R, etc. 1.5 volts. Shpg. wt. ¼ lb.
No. BA-67
24 for $1.50 8 for **59c**

TRANSISTORIZED
## Portable Intercom
● Completely Portable ● 2-Way Signal
● Battery Operated ● Outdoor-Indoor

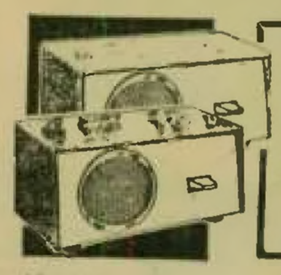


No. RA-516
BOTH FOR
**$9.45**
3 for $27

All purpose, outdoor or indoor 2 way intercom. Uses one 9 volt battery for power, (included) no A.C. cord, no chance for shocks. Battery saver two way buzzer signal operates even though master is turned off. Cable has miniature telephone type plug at each end for quick setup or mounting. Clear, loud, tone. Substation is on when master is on so you can hear children without pushing button. Size: 1¼" x 2½" x 4". Shipping weight 2 lbs.

Extra battery, No. BA-89 ——— Ea. 21c

Portable 2-Station
## INTERCOM KIT
★ 3 Transistors



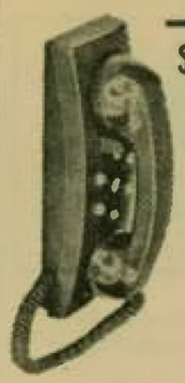
SALE
No. KB-95
ONLY
**$9.99**

Handsome gold enamel finish. Operates on 4 size "C" cells. Size: 7¼" x 3½" x 3½". Less batteries and transistors. Shipping weight 7 lbs.

★ ACCESSORIES FOR KB-95 ★
Batteries (4 req'd) No. BA-41 ——— Ea. 13c
Transistors No. X-857 (2 req'd) ——— Ea. 85c
Transistors No. TR-13 (1 req'd) ——— Ea. 69c
Extra Cable No. W-103 ——— Per 100 ft. 89c

Thomas S. Eader, 200 A St. SW, Glen Burnie, Md., wins choice of merchandise worth $5 from Olson's "Treasure Hunt." See back cover for instructions.

Bogen
ALL MASTER TELEPHONE
## INTERCOM SYSTEM

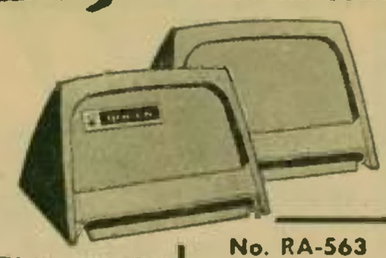


$20.95 No. AM-156

Model TQ-6. A total of 7 instruments can be used in a system. Any station can call any other station. (6 pushbuttons). Grey, high impact polystyrene case, with coil-cord. For desk or wall mounting. Less cable and power supply. Shipping weight 5 lbs.

117 V AC Transformer Power Supply (1 req'd). Shpg. Wt. 4 lbs.
No. AM-157 ——— $ 22.50
Complete System (7-AM-156, 1-AM-157). Shpg. Wt. 40 lbs.
No. AS-657, $9 monthly ——— $148.00
Cable (11 conductors) No. W-354 Per Ft. 7c

Bogen
Transistorized
## TWIN-COM



No. RA-563
**$23.90**
$39.85 in 363 Catalog

This versatile, compact intercom can be used anywhere or even moved from place to place. Operates independently of house current. Uses self contained batteries (not included). Attractively styled to match any decor. Ideal for home, office, work area, sickroom monitoring and many other applications. Sound engineered to give clear, natural sounding voice reproduction. Includes two stations plus 50 feet of cable. Size: 3½" x 5⅞" x 3¾". Shipping weight 6 lbs.

Batteries (4 req'd). No. BA-67 ——— 8 for 59c

Precision Radiation Instruments
# PRI GEIGER COUNTER
## AND RADIATION DETECTOR!
*The Model 107C "Professional"*

SCHOOLS
C. D. UNITS
LABORATORIES
HOSPITALS
INDUSTRY
HOBBYISTS
"ROCK HOUNDS"

★ [ Orignal Factory Cartons ] ★

Mfgr's 1955 List Price ~~$149.50~~
**$27**
No. ME-120

NEW

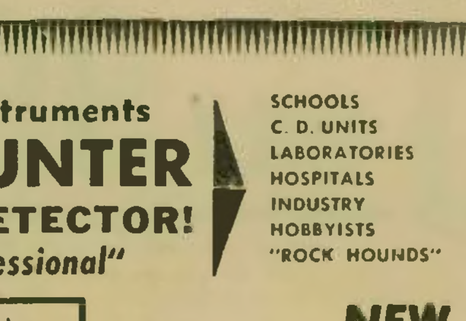
INCLUDES:
- Assay Container
- Instruction Book
- Ore Sample Bag
- Headphone
- Leather Carrying Case



The model 107C "Professional" has four ranges of sensitivity: .04, .2, 2.0 and 20 milliroentgens per hour full scale. Two time constants are provided. The extra fast time constant makes it easier to assay ore in the field. Features a Dyna-Mu circuit which utilizes the latest type of low current subminiature tubes. Tube compliment: one 1B85, four 6097, two NE-2 and one NE-51. The sensitive Geiger Mueller tube is enclosed in a sturdy metal probe housing with sliding door and three foot shielded cable. A calibrated control is provided on the top panel and a calibrated radio active sample is supplied, making it possible to calibrate the instrument in the field with no additional equipment. A handsome saddle grain leather carrying case with shoulder strap plus assay container, headphone, ore sample bag and instructions is included. (less batteries). Size: 3⅝" x 4⅝" x 7⅝". Shipping weight 11 lbs.

COMPLETE SET OF BATTERIES for model 107C Geiger Counter. Contains: 3—1½ volt, Nedu No. 215, 1—67½ volt, Nedu No. 200, 1—45 volt Burgess No. XX-30.

NO AS-831 ——— **$5.35**



Precision Radiation Instruments
# PRI SCINTILLATOR
## 60 TIMES
*The Sensitivity Of A Geiger Counter*

NEW
ORIGINAL FACTORY CARTONS

*The Model 117 B "Special"*
★ Completely Self Contained
★ Steadier Meter Reading

Mfgr's 1955 List Price ~~$299.50~~
**$75**
No. ME-121



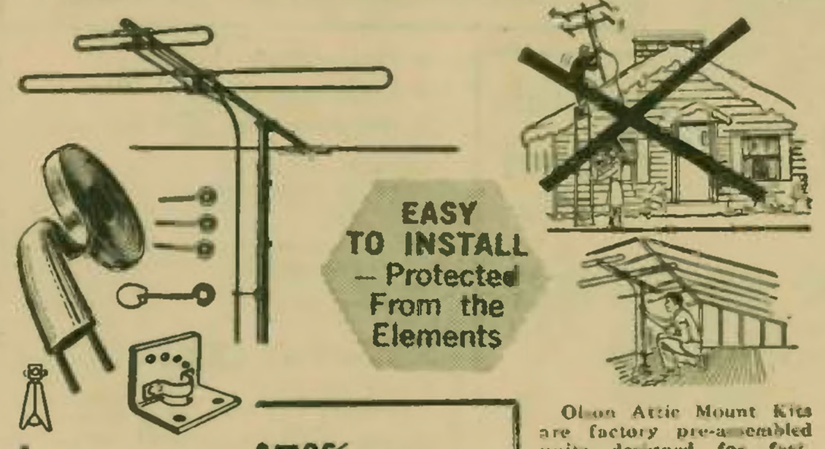
The Model 117B has sixty times the sensitivity of a geiger counter. The detecting element is a 1" diameter x ½" thick Thallium activated Sodium Iodide crystal hermetically sealed and optically coupled to an RCA 6199 photomultiplier tube. The tube and crystal assembly is enclosed within the instrument case and is magnetically shielded. Operating ranges of the Model 117B are .025, .05, .25, .5, 2.5 and 5 milliroentgens per hour. It has an accuracy of 25 per cent on all ranges except the 5 MR/HR range. The counting rate of the 117B is in excess of 65,000 counts per minute in a one milliroentgen field. The photo tube and crystal are shock mounted. This instrument is complete with saddle grain leather carrying case with shoulder strap plus a calibrated ore sample. Shpg. wt. 11 lbs.

Complete Set of Batteries for Model 117B Scintillator. Contains: 2 - 45 volt Burgess No. XX-30, 1 - 22½ volt, Nedu No. 215, 4 - 1½ volt, Nedu No. 813.

No. AS-846
**$6.38**

# ★ TV-FM ATTIC ★ ANTENNA

• High Gain • All Channel (VHF) • 50 Mile Range



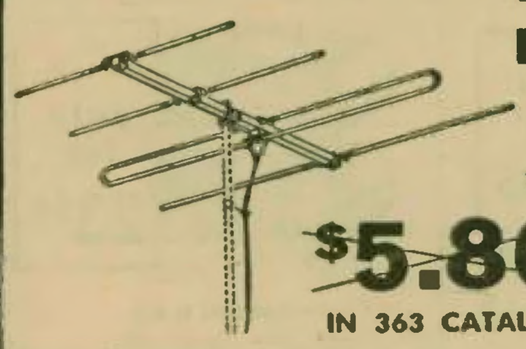
EASY TO INSTALL — Protected From the Elements

$5.86 IN 563 CATALOG

No. AA-36 **$4.88**

Olson Attic Mount Kits are factory pre-assembled units designed for fast, easy installation. Employs a new all-channel (VHF) yagi-type antenna. If desired, antenna may be installed outside. High gain gives excellent reception up to 50 miles. Kit includes: antenna, antenna mast, 50-ft. lead-in wire, hardware. Shipping weight 5 lbs. Shipped Parcel Post, except shipped Railway Express to first class post offices.

## 4 Element Fringe FM ANTENNA



RANGE: TO 60 MILES

★ Ideal for Multiplex

★ All Aluminum construction

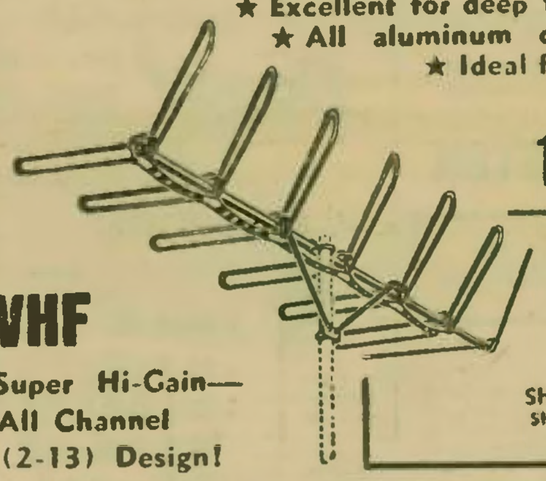
~~$5.86~~ IN 363 CATALOG

No. AA-84 **$3.99**

- Preassembled snap-out elements
- For long-distance FM reception
- Sensitive Yagi design. Shipping Weight 4 lbs.

## 7 Element Fringe TV-FM Antenna

★ Preassembled snap-out elements
★ Excellent for deep fringe areas
★ All aluminum construction
★ Ideal for color TV



Range: To 150 MILES

VHF Super Hi-Gain— All Channel (2-13) Design!

No. AA-88 **$17.50**

Lots of 3, Each $17
Shipping Weight 10 lbs.
Shipped Railway Express For More Careful Handling



$41.15 No. AS-800

Element Antenna
No. AA-88 (Above)
Alliance T-20 Rotor
No. AU-12 (above-right)

## 16 Element CONICAL TV-FM ANTENNA

RANGE: TO 75 MILES



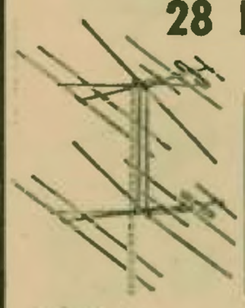
$5.20 No. AA-86
Lots of 3, Each $4.95

★ Semi-fringe all channel (2-13) VHF antenna
★ All aluminum construction
★ Preassembled snap-out elements

Shipping Weight 6 lbs.

## 28 Element ARRAY TV-FM ANTENNA

RANGE: TO 75 MILES



No. AA-28 **$11.83**
Lots of 3, $11.50

★ All channel UHF-VHF Color
★ All aluminum construction
★ Preassembled snap-out elements
★ Hi-gain Conical Yagi Design
★ Stacked array

Shipping Weight 10 lbs
Shipped Railway Express For More Careful Handling



$35.78 No. AS-802

28 Element Antenna
No. AA-28 (above)
Alliance T-20 Rotor
No. AU-12 (above right)

## UHF Corner Reflector ANTENNA



No. AA-98 **$4.56**

Range: To 50 Miles
★ Ideal for Fringe Area
★ Preassembled

Popular corner reflector UHF antenna. Features high gain and broad band. For channels 13-83. Range to 50 miles. All aluminum. Gold anodized. Shpg. wt. 6 lbs.



Olson

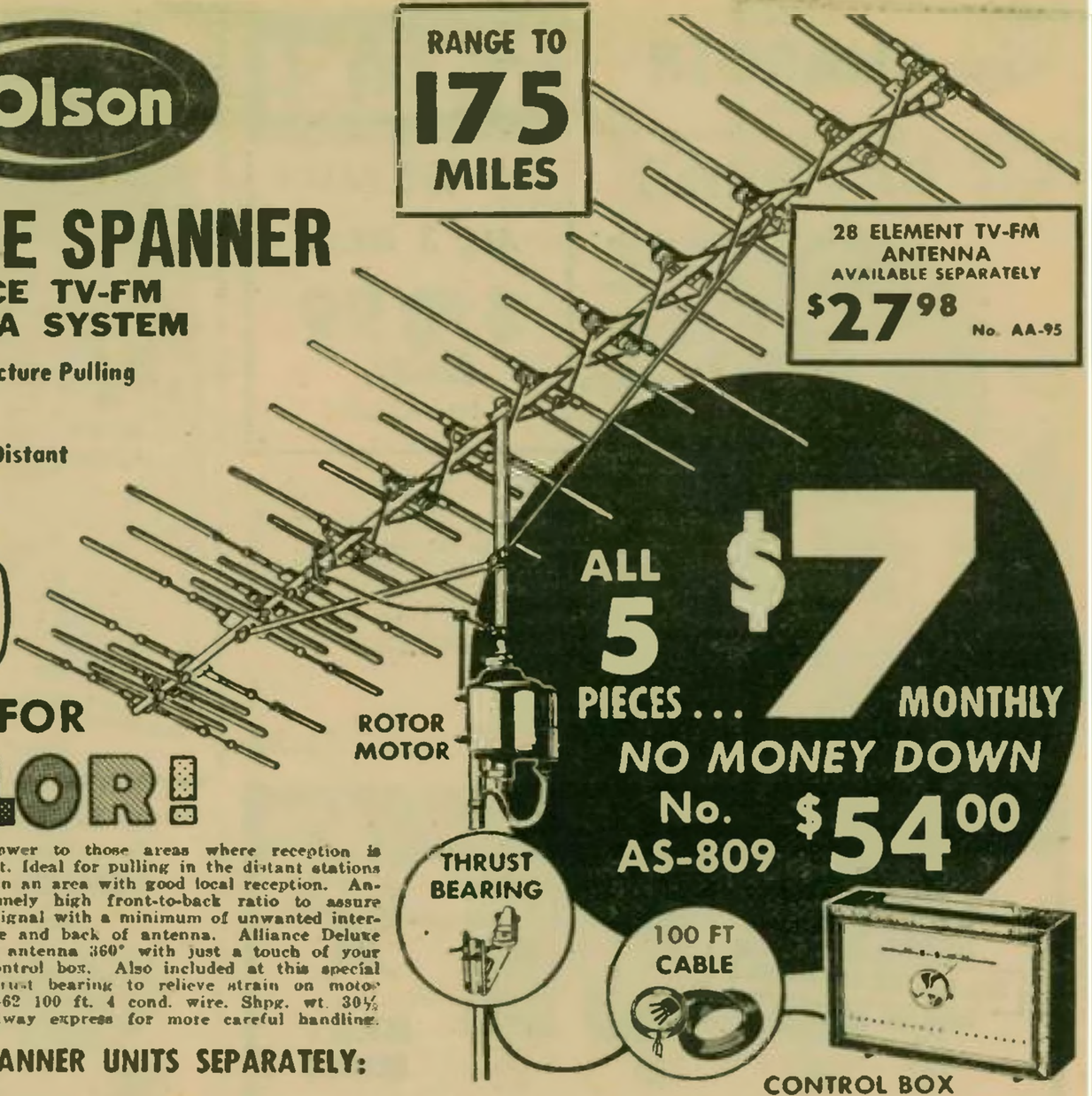
# RANGE SPANNER

## 5-PIECE TV-FM ANTENNA SYSTEM

★Maximum Picture Pulling Power

★Beam-In on Distant Stations

RANGE TO 175 MILES



28 ELEMENT TV-FM ANTENNA AVAILABLE SEPARATELY $27.98 No. AA-95

ALL 5 PIECES... $7 MONTHLY

NO MONEY DOWN

No. AS-809 **$54.00**

ROTOR MOTOR

THRUST BEARING

100 FT CABLE

CONTROL BOX

## IDEAL FOR COLOR!

Here's the answer to those areas where reception is really hard to get. Ideal for pulling in the distant stations even if you live in an area with good local reception. Antenna has extremely high front-to-back ratio to assure clean high gain signal with a minimum of unwanted interference from side and back of antenna. Alliance Deluxe T-20 rotor turns antenna 360° with just a touch of your finger on the control box. Also included at this special price: AU-13 thrust bearing to relieve strain on motor bearings and W-62 100 ft. 4 cond. wire. Shpg. wt. 30½ lbs. Shipped railway express for more careful handling.

## RANGE SPANNER UNITS SEPARATELY:

| | | |
|---|---|---|
| 28 ELEMENT IN-LINE TV-FM ANTENNA | No. AA-95 | $27.98 |
| ALLIANCE T-20 TENNA-ROTOR COMPLETE WITH MOTOR & CONTROL BOX | No. AU-12 | $25.40 |
| ROTOR THRUST BEARING | No. AU-13 | $2.91 |
| 100 FT. 4 CONDUCTOR CABLE | No. W-62 | $2.95 |

## SALE Gallo TWIN Indoor TV ANTENNA



★ Non-Directional ★ TV and FM

**$7.77** No. AA-108 REG. ~~$9.95~~

A completely engineered system, the remarkable GALLO TWIN ANTENNA was developed to deliver highest quality, intense signals in congested metropolitan areas . . . matchless reception, even in so-called "fringe" areas as well. It's ideal for color reception . . . perfect for black and white. The TWIN is actually two separate antennas directly coupled to a common feed line. Shipping weight 2 lbs.



NO UGLY "EARS"



ENDS INTERFERENCE



SEE THE DIFFERENCE

TWIN LINE



## TV-FM LEAD-IN

300 OHM

Made of pure polyethylene, conductors are all stranded copper. Available in two grades.

**22 Gauge Copper, 40 Mil Insulation**

3 for $3
100' COIL No. W-73 **$1.19**
250' SPOOL No. W-312 **$2.39** 3 for $6

Shpg. wt. 3 lbs. Shpg. wt. 5 lbs.

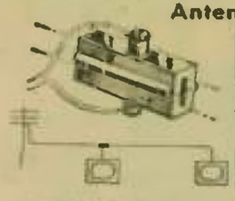
**20 Gauge Copper, 100 Mil Insulation**

100' COIL No. W-311 **$1.98** 3 for $5
250' SPOOL No. W-313 **$3.39** 3 for $9

Shpg. wt. 3 lbs. Shpg. wt. 6 lbs.

## TV-FM MASTER ANTENNA SYSTEM

Connect Any Number of Sets to One Antenna

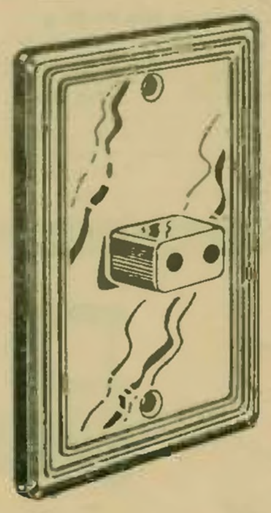


**$1.15** No. AA-69
3 for $3.09
Lots of 12, Ea. $1.00

Operate two or more TV sets or multiple systems. Operates 20 or more sets from one antenna without amplification. Provides clear reception on all channels with no interference between sets. Shipping weight ½ lb.

## TV-FM Wall Plate

★ Eiminates Unsightly Wires



No. AA-51 **ONLY 99c** 7 for $6 ★ 12 @ 65c ea.

Allows you to put an outlet for 300 ohm flat TV lead-in wherever you wish. Comes with polarized plug, mounting hardware and complete instructions. Shipping weight ⅓ lb.

## UHF Regency CONVERTER

★ Easy To Connect



No. RA-344 **$17.97** 3 for $50

Just put converter between antenna and TV set. Automatically disconnects antenna from converter and sends VHF signal through when not in use. Uses 6AF4-A oscillator tube and low-noise mixer diode. Handsome cabinet in dark mahogany. Size: 5⅝" x 2⅝" x 4". For 110-125 volts A.C. Shipping weight 5 lbs.

## INDOOR TV-FM ANTENNA



No. AA-25 3 for $5 **$1.91**

★ With 12-position switch

Covers VHF and UHF as well as FM Stereo. Has 12 position phasing switch built into base. Complete with 300 ohm lead-in for any set. Extends to 34". Shipping weight 2 lbs.

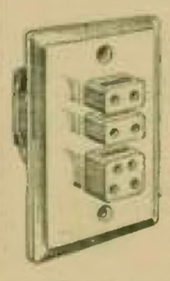
## FM Dipole ANTENNA



No. AA-71 **89c**

Flexible folded dipole antenna for FM or TV. Can be attached to back of cabinet. 300 ohm. Shpg. weight ½ lb.

## WALL PLATE/COUPLER



★ 2 TV Sets & Rotor
★ TV & FM plus Rotor

No. AA-99 3 for $6.00 **$2.19**

Antenna wall jack combined with a highly efficient two-set coupler. You can connect two TV sets or a TV set and an FM radio to one antenna. Shipping weight ½ lb.

W. P. Kern, 112 W. Whitlock Ave., Winchester, Va., wins choice of merchandise worth $5 from Olson's "Treasure Hunt." See back cover for instructions.

## TV-FM Plug & Socket



★Kit of 3 Pairs

For TV or FM lead-in. No soldering. Plug size: ¾" x 1½". Socket: 1⅝" x 1" x 1½". Shpg. wt. ½ lb.

4 Kits for $3.50
No. PL-59 **99c**

## TV-FM Plug & Socket



★Kit of 3 pairs

For TV, FM lead-in or speaker wire. No soldering. Plug: 1⅝" x ¾"; socket: 1" x ⅞". Shpg. wt. ½ lb.

4 Kits for $3.50
No. PL-60 **99c**

## B-T LABS Deluxe UHF-VHF Two-Set COUPLER



**$3** No. AA-100

Enables operation of two TV sets or FM radios from single antenna without loss of signal strength. For standard 300 ohm line. With hardware and instructions. Size: 3" x 2¼" x 1⅝". Shipping weight ½ lb.

## TV-FM ANTENNA SPLITTER



No. AA-30 **$1.69** 3 for $4.50

Balun coil type—operates 3 TV's from one antenna. Uses Balun Coils for maximum efficiency in the distribution and transfer of TV signals from a single antenna to 3 sets. Can also be used with a combination of TV and FM sets. Use with AA-51 and AA-69. 4" x 2¼" x 1½". Shipping weight ½ lb.

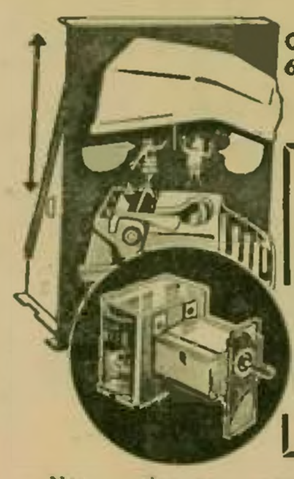
# OLSON WANTS TO BUY!

Olson will pay top CASH prices for electronic parts and equipment similar to the items found in this catalog. Merchandise must be first quality. May be complete or incomplete. Large quantities preferred.

**WRITE GIVING QUANTITY AND DESCRIPTION TO:**

**Irving F. Olson**
260 S. Forge Street
Akron, Ohio 44308
Area Code 216, 535-9191

Antimated
## DISPLAY CARD



★ Complete With 6 RPM Motor & 2-Eveready Batteries

**All For $1.99**

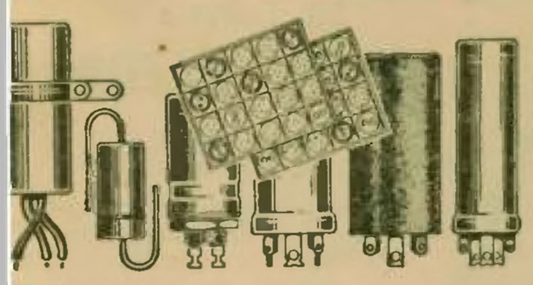
3 For $5
No. X-948

Now, make your own "live" display cards and signs. Simply attach your own custom sign, photo, lightweight products, etc. to the moving "attention getting" portion of the card. The rest is automatic—your sign will travel up and down (4½" stroke) for days. Self standing easle card was originally made for a famous U.S. typewriter manufacturer at a cost many times Olson's low, low price. Card size: 14⅝" x 22½". Operates on two standard "D" flashlight batteries. Complete with card, easle, motor, display mechanism and two batteries. Shipping weight 2 lbs.

. . . AN OLSON SUPER BARGAIN!

## GIANT Electrolytic CAPACITOR KIT

★ KIT OF 40



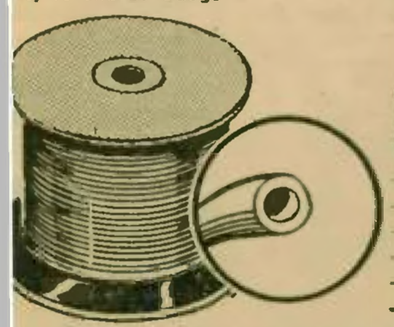
**LESS THAN 15c EACH**
No. AS-893 **ONLY $5.99** Per Kit

Howard Radio Shop, London Howard, Box 23, arner, Okla., wins choice of merchandise worth from Olson's "Treasure Hunt." See back cover r instructions.

F. P. twist lock and tubular electrolytic capacitors at a fantastically low Olson price. Kit contains 40 assorted single, double, and triple capacity electrolytics. Capacities vary from 10 to 125 MFD with working voltages from 6 to 450 volts. Shipping weight 7 lbs.

50 and 1,000 Foot Rolls
16, 18 and 20 Gauge

## PLASTIC TUBING



Thin flexible plastic tubing is ideal for use as spaghetti insulation. Stock up now at these low, low prices. Just the right sizes to fit over long bare resistor or capacitor leads.

| Stk. No. | Length | Gauge | Shpg. Wt. | Price |
|---|---|---|---|---|
| W-508 | 50 Ft. | 16 Ga. | ¼ lb. | 49c |
| W-509 | 50 Ft. | 18 Ga. | ¼ lb. | 49c |
| W-510 | 50 Ft. | 20 Ga. | ¼ lb. | 49c |
| W-511 | 1000 Ft. | 16 Ga. | 2 lb. | $3.50 |
| W-512 | 1000 Ft. | 18 Ga. | 2 lb. | $3.50 |
| W-513 | 1000 Ft. | 20 Ga. | 2 lb. | $3.50 |

## ornish . . . PUSH-BACK WIRE



No. W-515
**79c**

22 Gauge Solid
100 Foot Coils

Genuine Cornish Brand hook-up wire at BARGAIN PRICE! Wire is 22 gauge id with braded lacqured PVC insulation. pular push-back type insulation is a l time saver in kit construction and perimental projects. Stock up now at s low price while our limited supply ts. Shipping weight ¼ lb.

Varnished
## SPAGHETTI TUBING



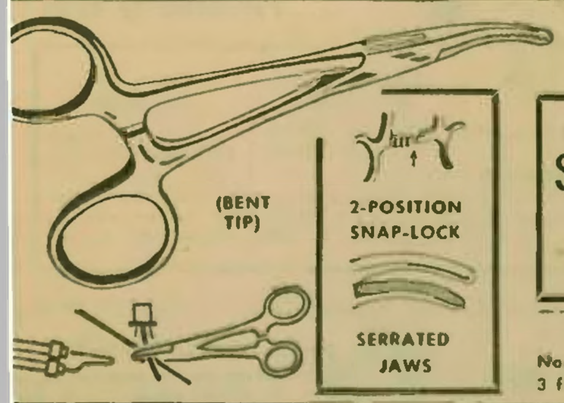
★ 10—36" Pieces
★ For Size 20 (or smaller) Wire

**49c** No. W-507

A very useful item for servicemen, experimenters and builders. You get 10 pieces of green varnished tubing, each 36" long. This tubing is for size 20 wire but may also be used with smaller wire such as found on resistor or capacitor leads. Shipping weight 1 lb.

## Holding FORCEPS

★ Just Like a Third Hand




No. TL-358
**$2.49**
3 for $7

Outreaches, outholds needle nose pliers. Approximately 6" long, stainless steel finish. Snap-locks to hold parts while soldering. Used. Shpg. wt. ½ lb.

STRAIGHT TIP FORCEP
No. TL-364
3 for $7.00 ____ **$2.49**

## 5" SLIDE RULE

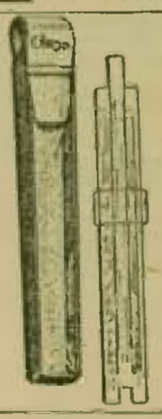


★ With Vinyl Case

**$2.29** No. TL-424

All plastic slide rule with engraved scales. Has A, B, C1, C, D, K, S, L and T scales. Also has a 5-inch ruler on one edge and 0-13 centimeter scale on the other side. Size: 5⅞" x 1½" Shpg. wt. ⅛ lb.

## 10" SLIDE RULE



★ With Vinyl Case

**$4.44** No. TL-425

A full sized, highly accurate slide rule. Each number and calibration mark is permanently etched into the surface of the ruler. Has A, B, C1, C, D, and K scales on the front and S, L and T scales on the back. Shipping weight ⅝ lb.

## 10" LOG-LOG DUPLITRIG SLIDE RULE



★ Warp-Free Construction
★ Complete with Leather Case

**$10.45** No. TL-373

Laminated, nonhygroscopic bamboo. Scales are engraved on white plastic. Scales are L, LL1, DF, CF, CIF, C, D, LL3, LL2, LL0, LL00, A, B, K, C1, C, D, S, ST and T. A valuable tool for high school and college students, technicians and engineers. illustrated instruction manual, ing sample problems. Shpg wt. ¾ lb.

## 4" SLIDE RULE



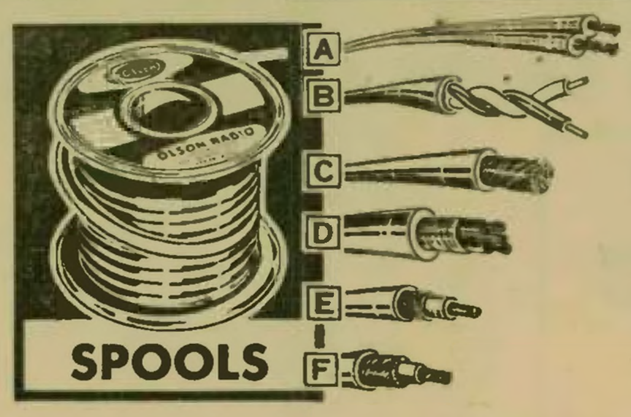
★ With Leather Carrying Case
★ Bamboo Construction
★ Engraved Scales

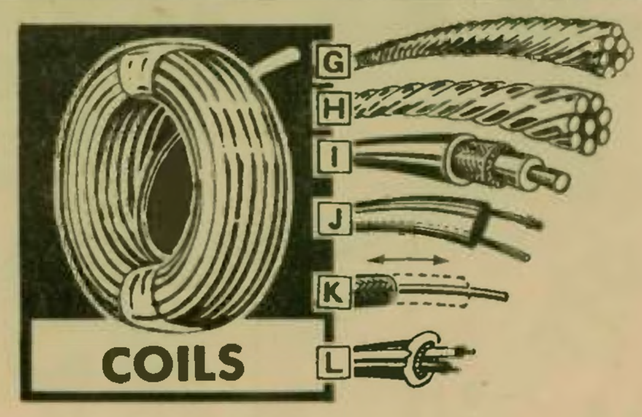
No. TL-366
**$3.19**
3 for $9.00

2X CURSOR gives readings equivalent accuracy of an 8" slide rule.

Has A, B, C1, C, D, S, L, and T scales. Also 0 to 4" measuring scale divided into 32nds of an inch plus 0 to 10 millimeter scale. Size overall: 4⅝". Shpg. wt. ⅛ lb.

# Olson WIRE VALUES




### A SPEAKER CABLE—53 FT.
- 2 Conductor
- Plastic Insulated
- No. 24 Stranded
- Shipping wt. ½ lb.

No. W-361 ____ **99c**

### A Speaker Cable—200 Ft.
- No. 24, Stranded
- Shpg. wt. 3 lbs.

No. W-399 ____ **$2.95**

### A Speaker Cable—100 Ft.
- No. 21, Polarized
- Heavy Duty
- Shipping wt. 3 lbs.

No. W-400 ____ **$1.95**

### B INTERCOM CABLE
No. 20 Stranded

3 COND. 28 FT. With Jacket No. W-366
2 COND. 60 FT. Less Jacket No. W-363

**99c** Shpg. wt. ½ lb.

### C HOOK-UP WIRE
No. 20 Stranded
- 75 Ft. Spool
- Vinyl Insulation
- Tinned Copper
- Shpg. wt. ½ lb.

No. W-375 **99c**

### D 2 Cond. Shielded 80 Ft.
2-No. 22 ga. stranded conductors

With aluminum foil shield. Plastic jacket. Shpg. wt. 3 lbs.

No. W-404 **$2.95**

### E MIKE CABLE—22 FT.
- 15" Diameter
- Gray Plastic Jacket
- Braided Sheild
- Shpg. wt. ½ lb.

No. W-362 ____ **99c**

### E MIKE CABLE—72 FT.
- 15" Diameter
- Lapel Mike Type
- Shpg. wt. 3 lbs.

No. W-401 **$2.95**

### E MIKE CABLE—60 FT.
- Heavy Duty
- .20" Diameter
- Shpg. wt. 4 lbs.

No. W-402 **$2.95**

### F AUDIO CABLE—23 FT.
Wrap shield, stranded center with grey plastic sheath. Shipping wt. ½ lb.

No. W-368 **99c**

75 Ft., No. W-403, Shpg. wt. 3 lbs. $2.95

### G Antenna Wire—50 Ft.
Stranded copper

Ideal for making citizens band and short wave antenna. Shpg. wt. ¾ lb.

No. W-378 ____ **99c**

### H GUY WIRE—100 FT.
Galvanized-Rust Resistant
- Heavy-Duty
- Stranded Steel
- Shpg. wt. 4 lbs.

No. W-380 ____ **99c**

### I COAXIAL CABLE—20 FT.
- Vinyl Insulation
- Shipping wt. ½ b.

RG-59/U ___ No. W-383
RG-58/U ___ No. W-384 **99c**

### I COAXIAL CABLE—55 FT.
RG-59/U ___ No. W-414
- Shipping wt. 3 lbs.

**$2.95**

### I COAXIAL CABLE—55 Ft.
RG-58/U ___ No. W-415
- Shipping Wt. 3 lbs.

**$2.95**

### J DELUXE TWIN LEAD
100 FEET

Heavy duty 300 ohm lead-in for finest TV and FM reception. Shipping weight 3 lbs.

No. W-412 ____ **$2.95**

### K PUSH BACK WIRE
Genuine Lenz—100 Ft.

Solid tinned No. 22 gauge wire, with waxed push-back cotton insulation. Shipping weight ¼ lb.

No. W-419, 3 for $2.00 **69c**

### L 14/2 ROMEX CABLE
50 Foot Coil
- Standard Electric Cable
- 14 Gauge
- 2 Conductor
- Shpg. wt. 6 lbs.

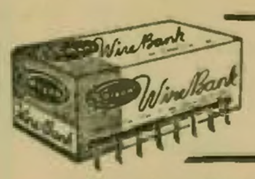
No. W-445, 3 for $5 **$1.80**

Olson
## WIRE BANK

**8** DIFFERENT TYPES OF WIRE— 1 ROLL EACH:

★ 30' — 22 Ga. Hook-up Wire
★ 20' Miniature Clear Zip-Cord
★ 30' Bell Wire
★ 30' Aluminum Tie Wire
★ 94' Magnet Wire
★ 25' Rosin Core Solder
★ 15' Picture Wire
★ 30' Utility Copper Wire

274 FEET
*(Plus Free Dispenser)*

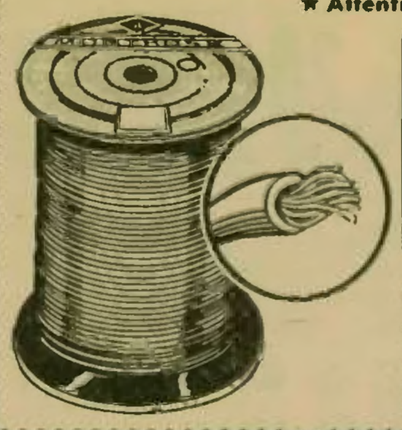



No. W-444 **$2**

Shipping Weight 3 lbs.

## INSULATED HOOK-UP WIRE

★ Attention Manufacturers and Industrial Users.

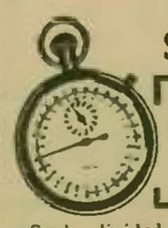


No. W-465 - Green
No. W-466 - Orange
**$10** per 3500' reel
(Less than 3/10c per foot)

- 3500 Ft.
- 22 Gauge
- 300 Volt Insulation
- PVC Insulation

Here's an opportunity to stock up on top quality hook-up wire and save money too. Each roll contains 3500 ft. of the finest quality PVC insulated wire. Your choice of color. Insulation withstands 80°C temperature. Stranded conductor wire is tinned for easy soldering. Insulation strips easily. Ideal for production lines. Shipping weight 12 lbs.

Jeweled Swiss
## Stop (n' Go) Watch



**$8.99** No. X-531

Scale divided in 1/10 seconds up to 30 seconds on outer dial. Inner dial registers up to 15 minutes. Side and crown push buttons for starting and stopping action, plus continuing action, from point where stopped: 1¾" dial. Shipping weight ½ lb.

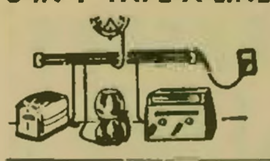
### Stranded Hook-Up Wire 100' Coils

18 Gauge



**79c** No. W-452
Shpg. wt. ⅛ lb.

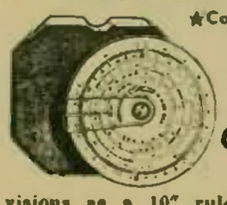
### 8-IN-1 TAPE-A-LINE $1.47



No. W-278
Up to 8 appliances can be handled. Ivory color 12" long. Six foot cable. ½ lb.

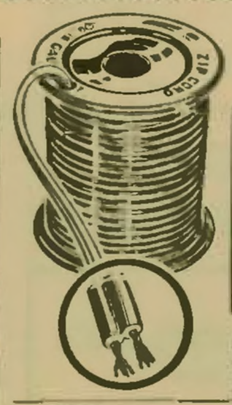
### CIRCULAR SLIDE RULE

★Comparable to 10" Rule



No. TL-397 **$2**
*ONLY*

Has as many subdivisions as a 10" rule. Conversion tables for volume, weight, length, velocity, and energy. Only 3⅜" in diameter. Complete with carrying case. Shipping weight ¼ lb.



## ZIP-CORD

★ 18 Gauge
★ U. L. Approved

100 FOOT
No. W-318
Shipping Wt. 4 lbs. **2.59**

250 FOOT
No. W-317
Shipping Wt. 7 lbs. **4.49**

No. 18 stranded pure copper wire, brown vinyl insulated. For 117 v.

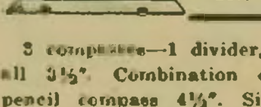
### Immersion HEATER



Gives boiling water in 3 minutes. 36" line cord with plug. For 110 volts AC only. Shipping weight ¼ lb.

No. X-761
3 for $1.20 ____ **49c**

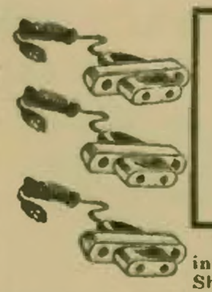
## Intercom CABLE



All copper, insulated and color coded.

| Stock No. | Conductors | 100 ft. | 300 ft. |
|---|---|---|---|
| W-103 | 2 | .89 | $2.50 |
| W-105 | 3 | $1.50 | $3.50 |
| W-354 | 11 | $7.00 | $20.00 |

## TV INTERLOCK CORDS



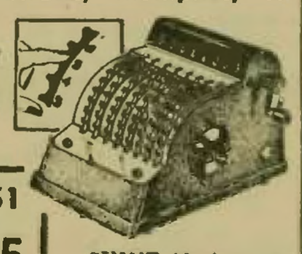
No. W-61
3 FOR
**99c**

Kit of 3 standard TV interlock cords 6' long. Shpg. wt. ¼ lb.

## Sumit ADDING MACHINE

★ Adds, Subtracts, Multiplies, to 999,999.99

MADE IN U.S.A.



No. X-861
**$18.95**

SUMIT ideal as an auxiliary adding machine. "Scoop Control" the new system of control fingering that permits fast, accurate calculating. Dimensions—7" x 5" x 6". Durable metal housing. Ship-

## 11-PIECE DRAFTING SET



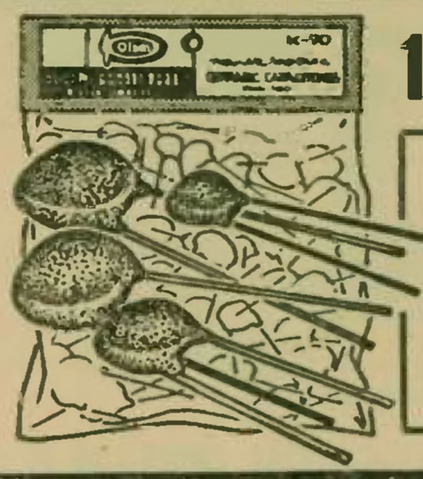
★ Quality Instrument
Made in W. Germany

**$2.49** No. X-472
3 for $7.25
Lots of 12, Ea. $2.20

3 compasses—1 divider, 1 pencil, 1 pen, all 3½". Combination divider, pen and pencil compass 4½". Side screw adjustment. Accessories. All brass nickelplated in felt lined snap case. Shpg. wt. ½ lb.

DELUXE DRAFTING SET
No. X-553 ★ Center Screw Adjustment
Shipping weight ¾ lb. **$4.98**
12 @ $4.30 ea. EA
3 @ $4.70 ea.

# Sensational KIT VALUES



## 100 Piece Ceramic Capacitor KIT

No. K-90

**99c**

★ Disc Type
★ 600 Volts or More

Truly an Olson "Best Buy". This jumbo kit contains 100 ceramic condensers, all rated at 600 volts or more. All top quality made by leading manufacturers. Every serviceman, experimenter and hobbiest needs one or more of these kits. Keep it handy on your work bench so you will always have the right value and size capacity at your finger tips when you need it. Take advantage of this terrific deal now while our assortments are complete. Kit may contain some tubular type ceramics. Shipping weight ½ lb.

## 100 PIECE CAPACITOR KIT

★ TUBULAR TYPE

★ Values: .001 mfd to .5 mfd
★ Voltages: 100 to 1000 volts



No. C-175

**$1.99**

ALL 100 PIECES . . .

Kit of 100 of the finest quality tubular capacitors. This is a must for every service man's or experimentor's service bench and tool box. Values range from .001 mfd to .5 mfd at voltages from 100 to 1000 volts. Condensers cost you less than 2c each, which is a very small fraction of their cost when purchased separately. Order several kits at this money saving price. Shipping weight 3 lbs.

## 100 PIECE RESISTOR KIT

★ 85 ½, 1 and 2 Watt Carbon Resistors
★ 15 Wire Wound Resistors up to 10 Watts



No. R-70

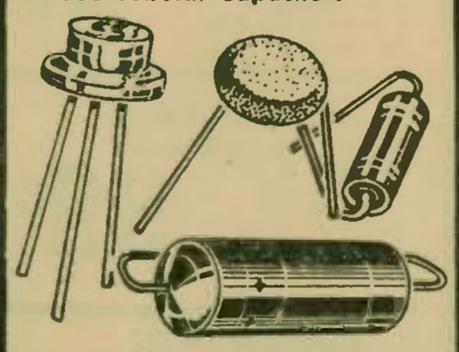
**$1.99**

ALL 100 PIECES . . .

100 top quality resistors. All are clearly marked with value. Standard color codes used throughout. Your cost is less than 2c each. Values have been carefully selected to fit most of your replacement needs. You get 85 ½, 1 and 2 watt carbon resistors plus 15 wire wound resistors up to 10 watts in size. Shipping weight 3 lbs.

## 315 PIECE Parts Assortment

★ 15 PNP Transistors
★ 100 Ceramic Condensers at 600 V.
★ 100 Carbon and Wire Wound Resistor
★ 100 Tubular Capacitors



No. AS-845

**$5**

ALL 315 PIECES . . .

Three hundred and fifteen carefully selected components to fill most replacement and experimental needs. You get 85—½, 1 and 2 watt carbon resistors plus 15 wire wound types ranging up to 10 watts. Also included are 100 disc and tubular ceramic condensers and 100 standard tubular condensers, and 15 popular PNP transistors. Shipping weight 4 lbs.

# ★ ELECTROLYTIC BARGAINS! ★

A new high in value, a new low in cost as Olson offers these two most popular electrolytic tubulars at rock bottom prices. Full insulation protects against heat and humidity. Shipping weight ¼ lb. each.

**50-30 MFD @ 150 WVDC** — Buy Now!

No. C-149

**33c**

7 for $2
50 for $12.50



**40-40-20 MFD @ 150 WVDC** — Buy Now

No. C-803

**75c**

3 for $2

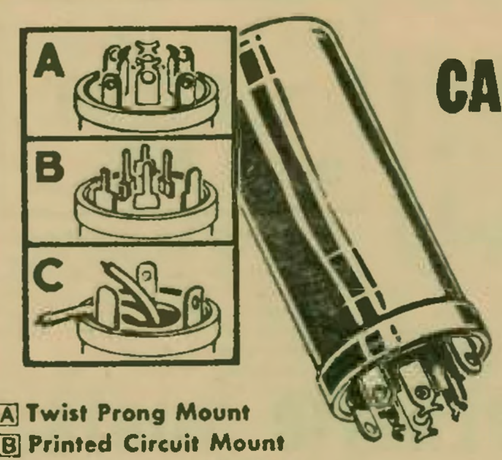




**Capacitors Size Approx. 2¼" x 7/8" Dia.**

| STOCK NO. | MFD | WVDC | PRICE EACH | QUANTITY PRICE | QUANTITY PRICE |
|---|---|---|---|---|---|
| C-147 | 70-30 | 150 | 35c | 7 FOR $2 | 50 FOR $13 |
| C-146 | 80-50 | 150 | 52c | 4 FOR $2 | 50 FOR $24 |
| C-145 | 50-30-20 | 150 | 49c | 5 FOR $2 | 50 FOR $18 |
| C-144 | 80-40-20 | 150 | 59c | 6 FOR $3 | 50 FOR $24 |

Vernon E. Britt, 177 E. Greening St., P. O. Box 167, Las Cruces, N. Mex., wins choice of merchandise worth $5 from Olson's "Treasure Hunt." See back cover for instructions.




Electrolytic
## CAN CAPACITORS

★ MADE IN U.S.A.
★ BRAND NEW!

Never before has Olson offered Bargain like this on Metal Electrolytics. Both twist prong and printed circuit types are available. All are popular capacities at standard working voltages. All fresh brand new stock from leading American manufacturers. Buy in standard package quantities and save real money. Ideal for service men and experimenters. Limited quantities on some numbers. Shpg. wt. ¼ lb. e

A Twist Prong Mount
B Printed Circuit Mount
C Twist Prong with Wire Leads

| Stock No. | Type | Capacity | Working Volts D.C. | Size | |
|---|---|---|---|---|---|
| C-906 | B | 450/100/50 | 16 | 1"x2" | 5 FOR $1 |

| Stock No. | Type | Capacity | Working Volts D.C | Size | |
|---|---|---|---|---|---|
| C-903 | A | 500/150 | 16 | 1"x2" | 4 OF A NUMBER $1 |
| C-164 | A | 40 | 250 | 2⅝"x1" | |
| C-166 | A | 60 | 350 | 2¾"x1⅜" | |
| C-918 | A | 40/40 | 150 | 1"x2" | |

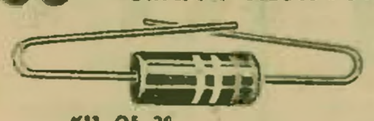
| Stock No. | Type | Capacity | Working Volts D.C. | Size | |
|---|---|---|---|---|---|
| C-984 | A | 5/100/200 | 500/300/15 | 1⅜"x4" | 2 OF A NUMBER $1 |
| C-160 | C | 40 | 350 | 3½"x1⅛" | |

# Olson RESISTOR KITS

MADE IN U.S.A.

★ ★ ★ Five new, carefully selected, resistor kits to save you time and money. Values selected for kits are the results of years of experience in supplying your needs. Ideal for service technician, student, experimental lab, and anywhere electronic components are used. Manufactured for Olson by a famous U. S. manufacturer. ★ ★ ★

### 30 Most Needed ½-W Carbon RESISTORS



KIT OF 30

**$1.69**

No. R-62
6 @ 1.49 ea.
Shpg. wt. ½ lb.

KIT CONTAINS ONE OF EACH

| OHMS | OHMS | OHMS | OHMS | OHMS |
|---|---|---|---|---|
| 10 | 150 | 2.2 K | 33 K | 330 K |
| 15 | 220 | 4.7 K | 47 K | 470 K |
| 22 | 330 | 6.8 K | 68 K | 1 meg |
| 33 | 470 | 10 K | 100 K | 1.5 meg. |
| 47 | 1 K | 15 K | 150 K | 2.2 meg. |
| 100 | 1.5 K | 22 K | 220 K | 10 meg. |

### 20 Most Common 1 W. CARBON RESISTORS



KIT OF 20

**$1.69**

No. R-63
6 @ 1.49 ea.
Shpg. wt. ½ lb.

| OHMS | OHMS | OHMS | OHMS | OHMS |
|---|---|---|---|---|
| 10 | 47 | 470 | 10 K | 150 K |
| 15 | 100 | 1 K | 15 K | 330 K |
| 22 | 150 | 1.5 K | 47 K | 470 K |
| 33 | 330 | 4.7 K | 100 K | 1 M |

### COMBINATION KIT



★ 30-½ Watt/20-1 Watt
**$2.98** No. R-64
6 @ $2.79 ea.

See No. R-62 and No. R-63 for values all in one handy kit at a savings. Shipping weight ¾ lb.

### 10 25 Watt Wire Wound RESISTORS



No. R-73

**$3.29**

Kit contains 2 each of the five most popular 25 watt filiment resistors. Two each of the following values are packed in a handy plastic box, 59 ohms, 51 ohms, 45 ohms, 41 ohms, and 33 ohms. Shipping weight ½ lb.

### 10-Watt Wire Wound Resistors



Kit of 27 Most Popular Values
PER KIT
**$2.50** No. AS-357
Shpg. wt. 2 lbs.



# ATR VIBRATORS

Lots of 3 Ea. $1.19
EACH...

**$1.29**

Popular non-synchronous types in 6 and 12 volt. Size: 1½" x 2⅞".

★ May Be Assorted For Quantity Price

Choose from these

**4-VOLT, 4-PIN No. VB-60**
Replaces Mallory 294, 859, 901 M, Radiart 5300, 5301, Vokar NP-42-V; many others. Shpg. wt. ¼ lb.

**12-VOLT, 3-PIN No. VB-61**
Replaces ATR 1343, C-D 6330, Delco 8650, 1220-155, Mallory G874, Radiart 6330. Shpg. wt. ¼ lb.

**12-VOLT, 4-PIN No. VB-62**
Replaces ATR 1340 and Mallory G859, also many others for new 12 V car radios. Shpg. wt. ¼ lb.

## TUBULAR CAPACITORS

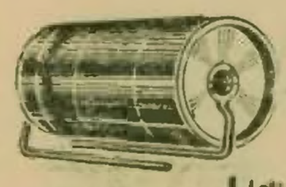
★ 600 VOLT



Molded for greater protection. Factory fresh, capacity and working voltage clearly marked. Long, flexible, tinned leads firmly imbedded. Shpg. wt. ¼ lb.

| Stock No. | MFD | SIZE | YOUR PRICE |
|---|---|---|---|
| C-304 | .001 | ¼"x ⅜" | 12 for $1.00 |
| C-305 | .002 | ¼"x ⅜" | 12 for $1.00 |
| C-306 | .005 | ¼"x ⅜" | 12 for $1.00 |
| C-307 | .01 | ¼"x1" | 11 for $1.00 |
| C-309 | .05 | ½"x1⅛" | 10 for $1.00 |
| C-310 | .1 | ⅝"x1⅜" | 7 for $1.00 |

## TUBULAR ELECTROLYTIC



16 MFD @ 450 WVDC

No. C-137
Ea. **50c**
Lots of 100 each 5 for $2

Made in U.S.A.
Size: 1¾"L x ¾"W

This factory fresh capacitor is ideal for a wide variety of applications where dependable service is required. Shipping weight ¼ lb.

## GLO-BAR DROPPING RESISTOR



**$2.99** No. R-40
3 for $8.00

Reduces 12 volts from battery to 6 volts D. C. Up to 10 amps. Changes resistance with load. Shipping weight ⅓ lb.

## TUBULAR CAPACITORS

★ .05 mfd. X 400 Volt
★ .1 mfd. X 400 Volt



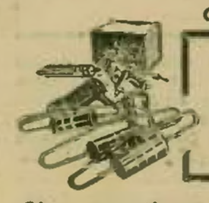
KIT OF 24 (12 of each Value)
**99c**
No. AS-840

Highest quality tubular capacitors for replacement or new construction. Sealed in wax with gray vinyl jacket to protect against heat and moisture. Leads are firmly embedded in each end. Size: .1 mfd. 13/16" x ½", .05 mfd. 1" x ½". Shipping weight 1 lb.

.05 mfd. X 400 Volt (Kit of 24) No. C-171 — **99c**
.1 mfd. X 400 Volt (Kit of 24) No. C-172 — **99c**

## 232 Pc. RESISTOR KIT

Carbon & Wire Wound

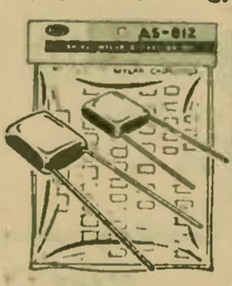


No. AS-84
**$3.99**
3 Kits $11.50

Olson recently purchased a large quantity of top quality insulated resistors in ½, 1 and 2 watt sizes plus 5 to 25 watt wire wound resistors. This generous assortment consists of 200-½, 1 and 2 watt resistors in assorted values plus 52-5 to 25 watt wire-wound resistors. The values of these resistors were carefully selected to satisfy most of your replacement and experimental needs. Stock up now while assortments are complete. Shpg. wt. 4 lbs.

## 50-Pc. Mylar CAPACITOR KIT

★ 600 Volts



No. AS-812
**$3.50**

| Qty. | Mfd. | Qty. | Mfd. |
|---|---|---|---|
| 5 | .1 | 10 | .05 |
| 5 | .005 | 10 | .02 |
| 5 | .002 | 10 | .01 |
| 5 | .001 | | |

Kit of 50 carefully selected mylar capacitors to fill most of your replacement and construction needs. Mylar insulation withstands heat and moisture. Ultra compact size makes replacement, even in small spaces, easy. Shpg. wt. ½ lb.

## TV CAPACITOR

High Voltage

★ 500 MMFD. X 20K Volt



No. C-173
KIT OF 3
**99c**

Standard door knob type filter condenser for high voltage circuits such as those found in most television sets. Threaded studs extend ⅜" from each end. Overall size: 2" (inc. studs) x 1". Shpg. wt. ¼ lb.

## 600 WV. DC CONDENSERS



KIT OF 100
**$5.69**
No. AS-268

| Q'ty | MFD | Q'ty | MFD |
|---|---|---|---|
| 10 | .001 | 20 | .02 |
| 10 | .002 | 20 | .05 |
| 10 | .005 | 10 | .1 |
| 20 | .01 | | |

Shpg. wt. 2 lbs.

## Olson MINIATURE CAPACITORS

### MYLAR BYPASS

★ Packaged 10 of a type per kit



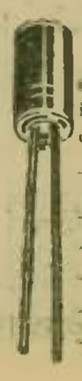
**SALE 99c PER KIT**

(⅜" x ¼"), single ended for easier repair work on transistor circuits. Shpg. wt. ¼ lb.

| No. | MFD | WVDC |
|---|---|---|
| C-971 | .001 | 100 |
| C-972 | .005 | 100 |
| C-973 | .01 | 100 |
| C-974 | .02 | 100 |
| C-975 | .04 | 100 |
| C-976 | .05 | 100 |
| C-977 | .1 | 100 |

### MINIATURE ELECTROLYTICS

★ STOCK UP NOW!



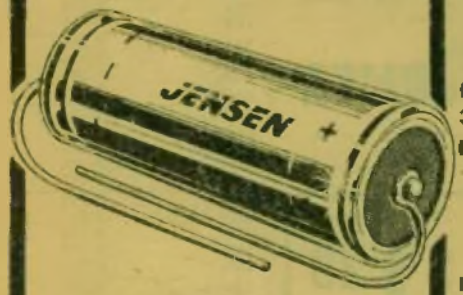
Poly plastic jacket protection. Designed for reliability, and ease of installation. Size approximately ⅜" dia. x ½" long. Shpg. wt. ¼ lb.

| Stock No. | MFD | WV-DC | YOUR PRICE |
|---|---|---|---|
| C-966 | 5 | 10 | Pkg. of 5 of a type 99c |
| C-967 | 10 | 10 | |
| C-968 | 30 | 10 | |
| C-969 | 50 | 10 | |
| C-970 | 100 | 10 | |

# JENSEN CAPACITORS
## Made In Denmark

Made in Denmark by Jensen's unhurried craftsman who are proud to produce precision capacitors to exacting specifications. Every bit of insulation is the finest. Every processing standard is painstakingly maintained. Sealed in tubular aluminum cases and insulated overall with colored transparent plastic jacket. Equipped with long tinned leads. Average shipping weight each ¼ lb.

## 450 VOLT
Withstands 500V Surges




**20 MFD**
1⅜" long x ⅞" dia.
6 for $3
No. C-152 ____ EA. **52c**

**40 MFD**
2⅜" long x 1" dia.
5 for $3
No. C-153 ____ EA. **79c**

**80 MFD**
2½" long x 1¼" dia.
4 for $3
No. C-154 ____ EA. **99c**

**200 VOLT** Withstands 225V Surges
200 MFD, 2⅜" long x 1" dia.,
No. C-155, 4 for $3 ____ EA. **99c**

## DUAL
### 450 VOLT
Withstands 500V Surges

**20-20 MFD**
2⅜" long x 1" dia.
No. C-156
3 for $2
EACH ____ **79c**

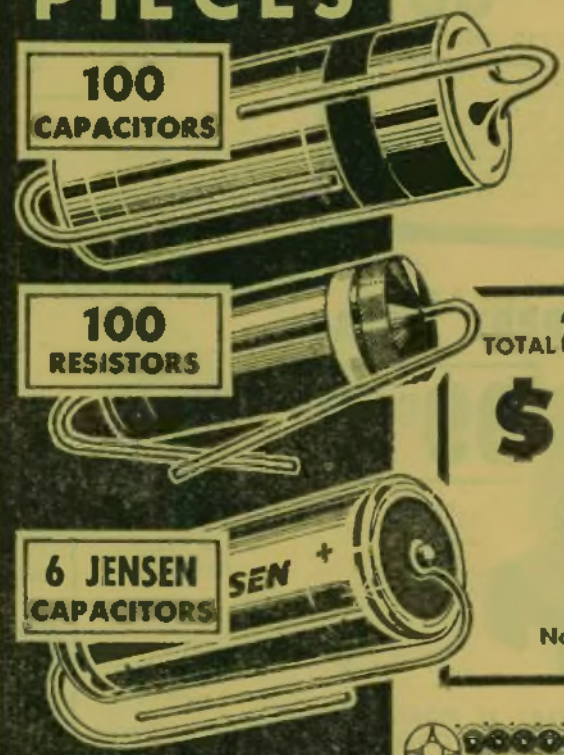
**40-40 MFD**
2¾" long x 1¼" dia.
No. C-157
4 for $3
EACH ____ **99c**

## TRIPLE
### 450 VOLT
Withstands 500V Surges

**20-20-20 MFD**
2⅜" long x 1¼" dia.
No. C-158
4 for $3
EACH ____ **99c**

**40-40-40 MFD**
3" long x 1¼" dia.
No. C-159
3 for $4
EACH ____ **$1.39**

# 206 PIECES




# PLUS
*Special Olson Offer!*

# CAPACITOR and RESISTOR KIT KIT

## CONSISTS OF:

100—Assorted 100 to 1000 V. Capacitors
100—Assorted Carbon & Wire Wound Resistors
1—JENSEN 20 MFD @ 450 V. Electrolytic
1—JENSEN 40 MFD @ 450 V. Electrolytic
1—JENSEN 80 MFD @ 450 V. Electrolytic
1—JENSEN 40-40 MFD @ 450 V. Elect.
1—JENSEN 40-40-40 MFD @ 450 V. Elect.
1—JENSEN 200 MFD @ 200 V. Electrolytic

TOTAL 206 PIECES
**$8**
No. AS-872

Kit of 206 of the finest quality components . . . A must for every serviceman's or experimenter's service bench and tool box. Values have been carefully selected to fill most of your experimental and replacement needs. Each kit contains: 100 tubular capacitors from .001 to 5 mfd. @ 100 to 1000 volts . . . 100 resistors including ½, 1 and 2 watt carbon type and a quantity of wire wound types, plus six Jensen Electrolytics. PLUS a free Westinghouse tube coupon. The coupon is good for a Westinghouse tube worth up to $3.00 mfrs. list price. Shipping weight 7 lbs.

# Westinghouse FREE TUBE

FREE with each 206 pc. kit you will find 1 certificate good for a Westinghouse tube worth up to $3.00 mfrs. list price. You get your choice of any tube; and if you sell or use the tube, the kit actually cost you only $5.

Record Changer

## 10 PC. KNOB KIT

★ Webcor, VM, Collaro, BSR



No. KN-20

**ALL 10 FOR 99¢**

3 Kits (30 KNOBS) $2

Record changer knobs are often hard to find but Olson has them and in just the types you need. Each kit contains 10 brand new knobs in assorted colors to fit the following changers: VM, Webcor, Collaro and BSR (Monarch). Shipping weight ½ lb.

Power

## Transformer



No. T-386

**ONLY $3.69**

High voltage winding delivers 281 volts DC at 250 ma with a 5U4GB rectifier. Has 5 volt winding at 3 amps. and 6.4 volt winding at 2.6 amps. This output power transformer is ideal for radio, power supplies for transmitters, receivers and many experimental applications. Size: 3½" x 4½" x 3". Shipping weight 2 lbs.

Stancor Output

## TRANSFORMER

★ 15 Watts, 40 to 17,000 cps.



No. T-383

**ONLY $2.99**

High fidelity, push-pull output transformer with 8000 ohm c.t. primary. Perfect for 7591, 6BQ5 or EL-84. Secondary impedance is 4, 8 and 16 ohms to match any speaker. Primary current 100 ma. Finished in attractive gray enamel. Size: 2⅝" x 2¼" x 2⅝". Shipping weight 2 lbs.

## TUBE BARGAINS

★ Famous Brands

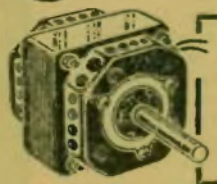


Individually BOXED

| TUBE TYPE | ORDER STOCK NO. | PRICE EACH |
|---|---|---|
| 0A2 | Z-312 | $ .75 |
| 1AG5 | Z-317 | 1.00 |
| 1L5 | Z-293 | 2.00 |
| 1K3 | Z-308 | .69 |
| 1U5 | Z-314 | .59 |
| 3AL5 | Z-326 | .39 |
| 3V4 | Z-296 | .79 |
| 4DT6 | Z-294 | .79 |
| 5AN8 | Z-319 | .79 |
| 5AV8 | Z-330 | 1.25 |
| 5EA8 | Z-299 | 1.00 |
| 5U8 | Z-292 | .79 |
| 5Y3 | Z-307 | .39 |
| 6AN8 | Z-311 | .79 |
| 6CM7 | Z-330 | .69 |
| 6SF5 | Z-327 | 1.25 |
| 6SL7 | Z-324 | .79 |
| 8CM7 | Z-277 | 1.00 |
| 10DE7 | Z-305 | 1.20 |
| 12AU6 | Z-301 | .44 |
| 12AU7 | Z-306 | .69 |
| 12BF6 | Z-310 | .79 |
| 17AX4 | Z-282 | .59 |
| 17DQ6 | Z-295 | 1.00 |
| 19T8 | Z-285 | 1.00 |
| 25C06 | Z-297 | 1.25 |
| 25DN6 | Z-316 | 1.50 |
| 25Z5 | Z-321 | 1.00 |
| 35C5 | Z-284 | .39 |
| 117Z3 | Z-315 | 1.60 |
| 7189 | Z-293 | 1.00 |
| EF-85 | Z-318 | 1.00 |
| EM-84 | Z-325 | 1.00 |

General Industries

## 4-Pole MOTOR



No. MO-109

**ONLY $2.99**

Shaded pole induction type motor. ⅜" dia. shaft. Permanently lubricated bearings. 1550 RPM. For 110 to 120 volts, A.C. 60 cps. Size: 3¾" x 2½". Shpg. wt. 2½ lbs.

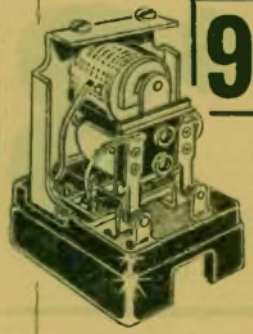
HEAVY-DUTY 4-POLE MOTOR

Similar to above, for heavy duty application.

No. MO-53 **$3.49**

Potter & Brumfield

## DPDT RELAY

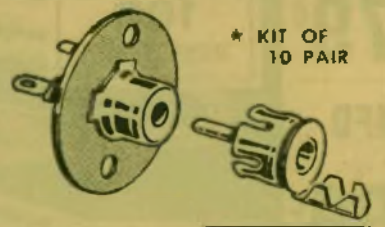


**99¢** No. SW-232 6 FOR $5

Kussel power switching relay operates on 6 or 12 volts DC. Has 10 AMP. D.P.D.T. contacts. Mounted in metal container to seal out dust and dirt. Size: 1⅞" W. x 2⅛" L x 2" H. Shpg. wt. 1 lb.

ENTIRE RELAY IS MOUNTED IN STURDY METAL CONTAINER

## PHONO PLUGS & JACKS



★ KIT OF 10 PAIR

★ RCA TYPE PLUGS & JACKS

No. PL-108

**99¢**

Kit of 10 pair of RCA type phono plugs and jacks. Plugs intent on use of shielded cable and have clamp type strain relief. Board type chassis mounting jacks. Shipping weight 1 lb.

Variable

## TRANSFORMER



★ Delivers up to 5 amps. at 4v. (intermittently)

No. T-385

**$1.29**

Attention experimenters and hobbyists. Here's a real unusual transformer with hundreds of applications. Primary winding is 117 volts AC at 60 cps. Secondary no-load voltage is 11 volts. Output voltage is reduced automatically as you increase the load. Will actually deliver 5 amps. intermittently at 4 volts. Perfect for those special low voltage applications. Size: 2¾" x 1¾" x 1⅝". Shipping weight 1 lb.



KIT OF 5 **$1**

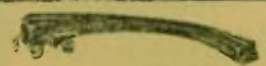
No. AS-355

5 PIECE HANDLE KIT plastic and leather. Shipping weight ½ lb.



**99¢** No. X-937

SOLENOID. For 117 volt AC. Armature travel ⅜". Armature rotates counter clockwise ¼" as it pulls in. Shipping weight 2 lbs.



**$1** Kit of 3 . . .

No. RP-268

VM CHANGER ARMS. Replacement arms for popular VM changer. Less cartridge. Shipping weight ¼ lb.



KIT OF 5 **$1**

No. AS-357

AC CHASSIS SOCKETS, receives 1⅛" mtg. hole. Shipping weight ½ lb.

Belden

## HEAVY DUTY AC CORD



★ With Plug

2 FOR **99¢**

No. W-462

Heavy duty AC line cord. Ideal for replacement on power tools and motors. Heavy rubber insulation resists wear and scuffing. 8 ft. long. Shpg. wt. 1 lb.

## PLUG & SOCKET KIT

★ 6 Pair



No. AS-850

6 PAIR . . **99¢**

Kit of 6 pair of 110 volt plugs and sockets. Plug size: 1" dia. Socket size: 1⅛" x ¾". Pins are of different sizes so plug fits only one way. Ideal for counter plugs. Shipping weight 1 lb.

Pilot Lamp

## Socket Kits

★ 10 Assorted Sockets



**99¢** No. AS-843

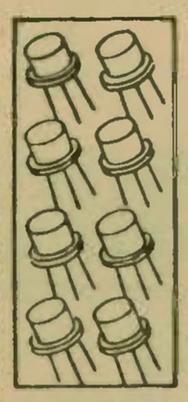
For bayonet type bulbs. Most often needed mountings. Many have long wire leads. Perfect for replacement in radio, TV or phono. Shipping weight 1 lb.

Join Dine-O-Matic, 227 N. Foreman, Vaffa, Okla., with choice of mechanic worth $5 from Olson's "Treasure Hunt." See back cover for instructions.

# TRANSISTORS

★ Made by a Leading U.S.A. Manufacturer!

BRAND NEW!



No. TR-24

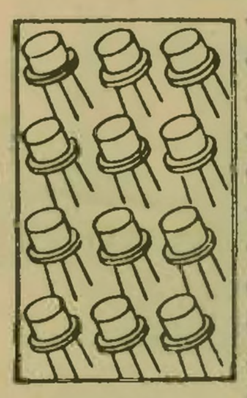
YOUR CHOICE **$1**

BAG OF **8**

**PNP** High Frequency **AUDIO**

SAVE $2
10 Bags (80 Transistors) **$8**

Brand new, first quality transistors with full length leads. Ideal for experimental and replacements needs in high frequency audio circuits. Replaces many popular numbers without circuit changes. These transistors are made by one of the leading U. S. manufacturers. Shipping weight 1½ lbs.



No. TR-25

BAG OF **12**

**PNP** General Purpose **AUDIO**

SAVE $2
10 Bags (120 Transistors) **$8**

These first quality audio transistors will work in most audio circuits as replacements or use them for 90% of experimental audio applications. Replaces many popular numbers without circuit changes. All are brand new with full length wire leads. Shipping weight 1½ lbs.

Universal Mounting

## HEAT SINK

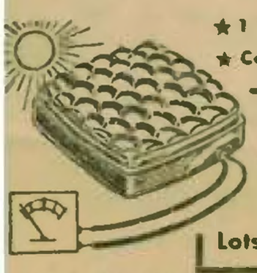


**79c** No. X-945

Highly efficient heat sink for mounting and protecting power transistors. Mounting surface provides closest possible contact to the transistor face. Finned construction provides unusually large surface area resulting in rapid heat dissipation. Total radiating area: 33.42 sq. in. Size: 3" x 3⅛" x 3¼". Shipping weight ¼ lb.

IOR INTERNATIONAL RECTIFIER

## SILICON CAPSULE



★ 1 V @ 10 to 16 MA
★ Color Coded Leads

No. RE-51
**$3.99**
3 for $10
Lots of 12, ea $3

Each capsule contains 2 cells already connected in series and ready to deliver .8 to 1 volts @ 10 to 16 MA depending on brilliance of sun. Size: 1⅛" x 1⅛". Shipping wt. ½ lb.

## FERRI-TENNA



Use with any 365-410 MMF variable condenser. Coil tapped for properly matching transistor input. With instructions. Shipping weight ¼ lb.
No. L-73, 2 for $1
Lots of 100, Ea. 35c Ea. **71c**

FERRITE BAR

## ANTENNA COILS



★ KIT OF 3

Replaces most antenna coils in transistor radios. Size: 2¼" x ½", 2⅛" x ⅜", and 1⅝" x ⅜". Shpg. wt. ¾ lb.
No. L-82 **79c**

## SELENIUM CELLS



● .5 Volts @ 1-2 M.A.
● 5" Colord Coded Leads

No. RE-50
**69c**
3 for $2
12 for $6.95

Gives up to .5 volts @ 2 MA. in average sunlight. Size: 1⅛" x ⅝". Shipping weight ¼ lb. Lots of 100, Ea. 50c

## SOLAR CELL KIT



8 assorted selenium photo cells. Output from ⅛ to ½ volts. Current output from 250 micro-amps to 5 MA. Made by International Rectifier. Shpg. wt. ¼ lb.
No. RE-77 KIT OF 8 **$1.98**

## 365 MMFD Variable CAPACITOR



⅞" square, with short shaft and 1¼" dia. transparent engraved dial. Shipping weight ¼ lb.
No. C-861, 3 for $2 **81c**

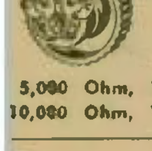
## Miniature Volume Control With Switch



For transistor circuits. Complete with switch and knob. Shipping weight ¼ lb.
5,000 Ohm, VC-258, 4 for $3.50, ea. 99c
10,000 Ohm, VC-259, 4 for $3.50, ea. 99c

2-Gang Variable

## CONDENSER

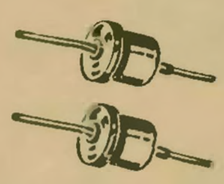


**$1.49** No. C-995
3 for $4

Two gang variable condenser for superset transistor radios. Use for replacement or new construction. Can be used on printed circuit board or standard wiring. Size: 13/16" x 1⅝" x 1½" long. Shipping weight ¼ lb.

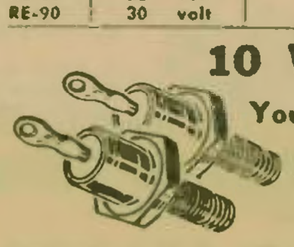
## ZENER DIODES

These zener diodes are suitable for applications such as voltage references, voltage regulated power supplies, transistor bias, voltage switches for non-sensitive relays, transient absorbers for meters and other circuits, and other applications where the operating current range is always greater than the test current listed.



**1 WATT**
Your Choice
**$1.19** PAIR

| Stk. No. | Nom. Voltage | Test Current M.A. |
|---|---|---|
| RE-85 | 4.7 volt | 40 M.A. |
| RE-86 | 6.8 volt | 30 M.A. |
| RE-87 | 10 volt | 20 M.A. |
| RE-88 | 15 volt | 13 M.A. |
| RE-89 | 22 volt | 9 M.A. |
| RE-90 | 30 volt | 5 M.A. |



**10 WATT**
Your Choice
**$1.39** PAIR

| Stk. No. | Nom. Voltage | Test Current M.A. |
|---|---|---|
| RE-91 | 4.7 volt | 400 M.A. |
| RE-92 | 6.8 volt | 300 M.A. |
| RE-93 | 10 volt | 200 M.A. |
| RE-94 | 15 volt | 140 M.A. |
| RE-95 | 22 volt | 90 M.A. |
| RE-96 | 30 volt | 60 M.A. |

## PNP Audio TRANSISTOR

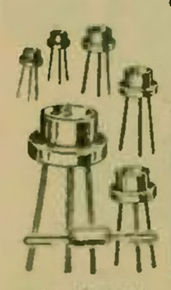


Replaces the following popular transistors. 2N173, 2N174, 2N277, 2N-278, 2N441, 2N442. Shpg. wt. ¼ lb.

**$1.99** No. TR-12
3 for $5

## TRANSISTORS

★ MATCHED SET OF 6
Plus one diode



No. TR-20
PER SET . . . **$1.99**
3 Sets, $5.50

Consists of: 1—mixer, 2—IF's, 1—driver and 2 output PNP transistors. Plus diode. Shipping weight ½ lb.

## POWER TRANSISTORS



**69c**
3 for $2.00
Lots of 100, Each 59c
Shpg. wt. ¼ lb.

**No. TR-13 Low Wattage Type**
A general replacement for low wattage types such as —2N176, 2N178, 2N179, 2N256, 2N256, 2N257, TS176.

**No. TR-14 Med. Wattage Type**
A general replacement for medium and low wattage types such as—2N155, 2N156, 2N230, 2N250, 2N301, 2N301A, 2N307, 2N325, 2N350, 2N350A, 2N351, 2N351A, 2N376, 2N376A, 2N554, 2N555, CTP 1104, CTP1108, CTP1109, CTP1117, CTP1157.

**No. TR-15 High Wattage Type**
A general replacement for high, medium and low wattage types such as—2N176B, 2N176G, 2N234, 2N234A, 2N235, 2N235A, N235B, 2N236, 2N236A, 2N236B, 2N242, 2N285, 2N285A, 2N307A, 2N362, 2N363, 2N399, 2N400, 2N401, 2N669.

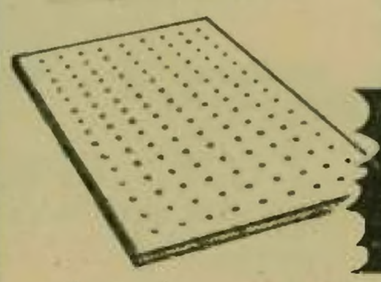
Motorola
**Power Transistor MOUNTING KIT**
No. X-773 4 for 99c

# SALE

# Olson PERF-BOARD

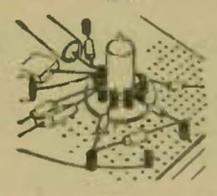
BUILD, DESIGN, CONSTRUCT RAPIDLY—Experimental or Permanent Electronics Circuits. Accepts OLSON Miniature Components (below) for rapid set-up. May be easily cut with saw, to size you desire. Phenolic Boards with 3/32" holes punched on .265 centers, 1/16" thick.

**Unclad (Punched) PERF-BOARD**



**23% OFF**

★ For Experimental & Design Applications



No. K-116
Size: 3 21/32" x 6⅞" Shpg. wt. ¼ lb.
Reg. 43c **33c**

No. K-118
Size: 6⅞" x 9 13/16" Shpg. wt. ¼ lb.
Reg. $1.00 **77c**

**COMPLETE—Fast and Simple To Use—Solderless Breadboard Circuit Components**

## ALLIGATOR CLIPS With Jacks



★ KIT OF 10
Color coded 5 red—5 black. 1¼" long. Shpg. wt. ¼ lb.
No. HW-32 99c

## SPADE LUGS With Jacks



★ KIT OF 10
Color coded 5 red—5 black. 13/16" long. Shpg. wt. ¼ lb.
No. HW-33 99c

## BINDING POSTS With Jacks



★ KIT OF 10
Color coded 5 red—5 black. ⅛" long. Shpg. wt. ¼ lb.
No. HW-34 99c

## BANANA PLUGS



★ KIT OF 10
Color coded 5 red—5 black. 13/16" long. Shpg. wt. ¾ lb.
No. HW-35 99c

## SPRING TYPE Banana Plugs



★ KIT OF 10
For quick and easy connections. 1⅛" long. Shipping weight ½ lb.
No. HW-36 99c

## Volume Control Holder



★ KIT OF 10
Right angle bracket with 2 mounting holes. 1⅝" H x 1" W. Shpg. wt. ¼ lb.
No. HW-37 99c

## Banana Plug CORD SETS



★ Kit of 10 Sets
18" wire with plug on each end. 10 different colors. Shipping weight 1¼ lb.
No. HW-42 $1.99
Banana Plug Cord Sets No. HW-38 Same as above but with 6" wire **$1.49**

## Transistor Socket



Binding posts premounted. With mounting hardware.
No. HW-43 59c

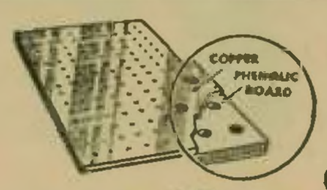
## 9-Pin Tube Socket



Binding posts premounted. With mounting hardware. Shpg. wt. ¼ lb.
No. HW-39 $1.29

**Copper Clad Perf-Board**

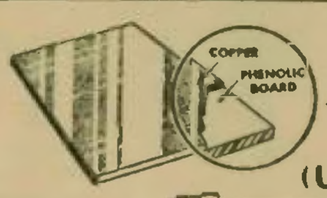
★ For Design of Printed Circuits



| No. | Size | (Punched) Ea. | 3 for | Olson's Low Price Lots of 100 Ea. |
|---|---|---|---|---|
| K-120 | 3 23/32"x6⅞" | .53 | 1.50 | .48 |
| K-122 | 6⅞"x9 13/16" | 1.50 | 4.00 | 1.20 |

**Copper Clad Board**

★ For Making Your Own Printed Circuits



| No. | Size | (Unpunched) Ea. | 3 for | Olson's Low Price Lots of 100 Ea. |
|---|---|---|---|---|
| K-124 | 3 23/32"x6⅞" | .43 | 1.20 | .38 |
| K-126 | 6⅞"x9 13/16" | 1.35 | 4.00 | .90 |

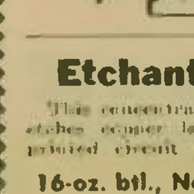
## Etchant Solution

This concentrate, mixed with water, etches copper laminated surfaces on printed circuit boards.
16-oz. btl., No. X-919 **$1.25**

## TAPE RESIST

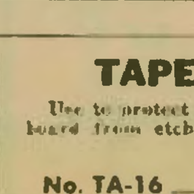
Use to protect areas of printed circuit board from etchant. 1/16" x 520".
No. TA-16 **75c**

## 7-Pin Tube Socket



Binding posts premounted. With mounting hardware.
No. HW-41 99c

## OCTAL SOCKET



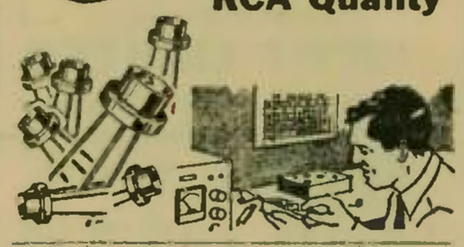
Binding posts premounted. With mounting hardware. Shipping weight ¼ lb.
No. HW-40 $1.19

# ★SALE★

## TRANSISTORS

RCA

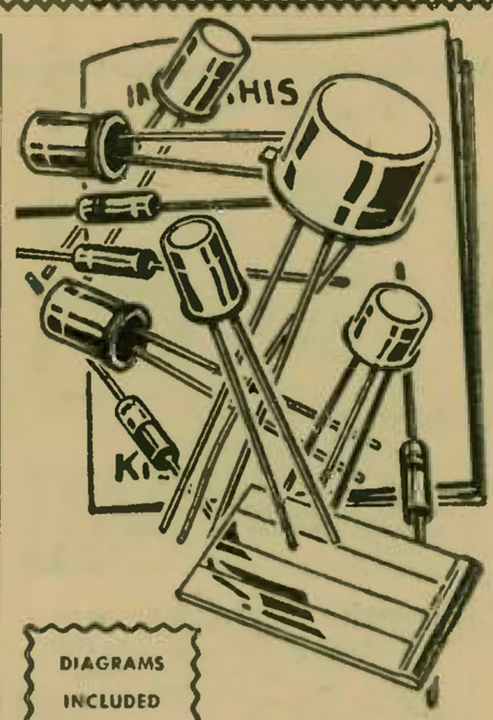
YOU CAN RELY ON **RCA Quality**



| Stock No. | RCA No. | Description | SALE |
|---|---|---|---|
| X-745 | 2N412 | Mixer-oscillator | 69c |
| X-746 | 2N410 | 1. F. Amplifier | 66c |

**INDUSTRO TRANSISTORS**

| Stock No. | RCA No. | Description | SALE |
|---|---|---|---|
| X-857 | 2N633 | Audio Output | 85c |
| X-858 | 2N482 | 1. F. Amplifier | 85c |
| X-859 | 2N485 | Mixer-oscillator | 85c |



DIAGRAMS INCLUDED

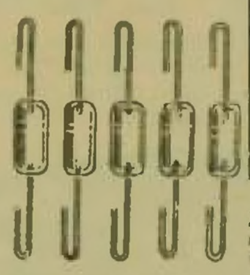
11-Piece
## SEMI-CONDUCTOR Assortment

No. RE-82
**$2.49**
Was $2.93 In Cat. 1163

Here's an Olson "Top-Value" for experimenters and hobbyists. Kit contains 11 semi-conductor devices including 1 controlled rectifier, 1 transistor, 8 diodes, and 1 silicon solar cell. Diagrams are included to make the following: Audio oscillator, transistor preamplifier, photo cell light meter, photo electric relay, power supplies, automatic tachometer, and many others. Shipping weight ¼ lb.

Perdy Radio & TV, Bowdon, N. Dak., wins choice of merchandise worth $5 from Olson's "Treasure Hunt." See back cover for instructions.

## GERMANIUM DIODES



No. DI-18
10 FOR **88c**

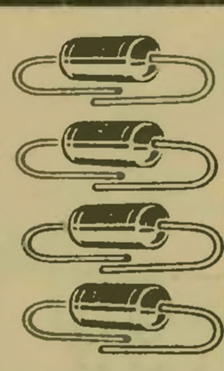
Replaces 1N34, 1N34A, 1N60 and 1N51. Shp. wt. ¼ lb.

## SILICON DIODES



No. DI-19
6 FOR **88c**

Replaces general purpose types 1N34, 1N34A, 1N51, 1N456, 1N625, 1N482, etc. Forward current 100 MA. Reverse current 25 UA. Shipping weight ¼ lb.



500 MA Silicon
## DIODES

★ RMS 280 Volts
★ PIV; 400 Volts
Shpg. wt. ¾ lb.

No. RE-76
4 FOR **88c**

## TOP HAT Silicon Diode

★ 500 MA
★ RMS 280 Volts
★ PIV; 400 VOLTS
Shpg. wt. ¼ lb.



No. RE-73
3 FOR **88c**

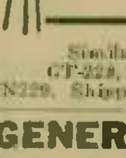
## SYLVANIA 2N233 NPN RF AMPLIFIER TRANSISTORS



No. X-802
2 FOR **88c**

Similar to General Transistor GT-229, G. E. 2N170 and Sylvania 2N229. Shipping weight ¼ lb.

## GENERAL PURPOSE



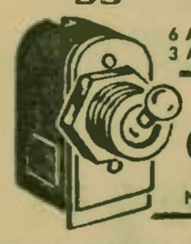
No. TR-16
4 FOR **88c**

Pkg. of 4 PNP junction transistors similar in characteristics to GE 2N-107. A high quality transistor at a low price suitable for experimenters and hobbyists. Shipping weight ¼ lb.

# SALE

YOUR CHOICE **99c** per pkg.

## SPST Toggle Switch



6 Amps @ 125 V.
3 Amps @ 250 V.

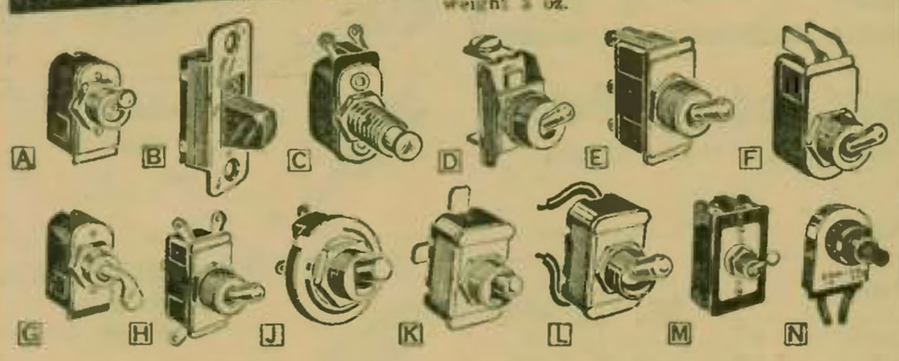
Kit of 6 **99c**

No. SW-317

## Carling SWITCHES

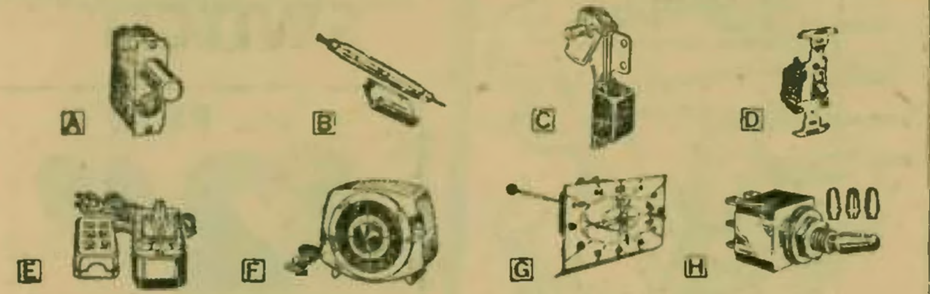
★ Heavy Duty AC and AC-DC.
★ U.L. Approved ★ Made in U.S.A.

A special purchase by Olson Electronics makes possible this variety of high quality switches at real money-savings prices. Heavy duty construction for dependable trouble free service made to the rigid specifications of this U.S.A. manufacturer. U.L. approved. Shipping weight 3 oz.




| Stock No. | Fig. | Action | Amps. @ 125V. | Amps. @ 250V. | Quantity | Price |
|---|---|---|---|---|---|---|
| SW-316 | A | SPST† | 6 | 3 | Pkg. of 4 | |
| SW-286 | B | SPST | | | Pkg. of 12 | |
| SW-287 | B | SPDT | 4 | | Pkg. of 4 | |
| SW-314 | B | SPST | 6 | 3 | Pkg. of 2 | |
| SW-313 | B | SPDT | 15 | 10 | Pkg. of 2 | |
| SW-239 | C | SPDT‡ | 1 | | Pkg. of 3 | |
| SW-291 | C | SPST‡ | 1 | | Pkg. of 4 | |
| SW-292 | C | DPST‡ | 1 | | Pkg. of 4 | |
| SW-293 | D | SPST | 3 | | Pkg. of 4 | |
| SW-294 | E | DPDT | 3 | 1 | Pkg. of 2 | |
| SW-315 | E | SPDT | 3 | 1 | Pkg. of 2 | |
| SW-296 | F | SPST | 6 | 3 | Pkg. of 3 | |
| SW-297 | G | SPST‡ | 6 | 3 | Pkg. of 2 | |
| SW-298 | H | SPDT | 6 | 3 | Pkg. of 2 | |
| SW-299 | H | DPST | 6 | 3 | Pkg. of 2 | |
| SW-300 | J | DPDT | 6 | | Pkg. of 2 | |
| SW-301 | J | SPDT | 15 | 7½ | Pkg. of 3 | |
| SW-302 | J | SPST | 3 | | Pkg. of 3 | |
| SW-303 | J | SPDT | 15 | 7½ | Pkg. of 3 | |
| SW-304 | K | SPST | 15 | 10 | Pkg. of 3 | |
| SW-305 | L | SPDT** | 15 | 10 | Pkg. of 2 | |
| SW-306 | L | SPDT* | 3 | | Pkg. of 2 | |
| SW-308 | L | DPDT* | 6 | 3 | Pkg. of 2 | |
| SW-309 | L | DPDT‡ | 15 | 6 | Pkg. of 2 | |
| SW-310 | L | SPST* | 15 | 10 | Pkg. of 3 | |
| SW-311 | M | DPST | 12 | 6 | Pkg. of 3 | |
| SW-312 | N | SPST | 3 | 1 | Pkg. of 4 | |

‡ Indicates momentary action † Indicates wire leads ‡ momentary one way
* Indicates center off ** Indicates one terminal to mounting bar




### A MICRO SWITCH

Heavy duty Microswitch normally closed 10 amp. 125 V AC, 5 amp 250 V AC. Screw type terminals. Rugged heavy duty metal supported switch. Made in U.S.A. Shipping weight ¼ lb.

No. SW-208, 3 @ 25c Ea.
100 @ 20c Ea. _____ Ea. **29c**

### B MAGNETIC SWITCH

For burglar alarms, position indicators. Contact rating: 15 watts resistive up to 1 amp up to 250 volts DC. Use with relay for heavier load. Shipping wt. ½ lb. Write for special large quantity prices.

No. SW-229, $1.79 In 363 Cat. ____ **67c**

### C TRIGGER SWITCH

★ With Push-button Lock

Heavy duty. Used as original equipment in power tools made by Ram, Pet, Black & Decker, McGraw Edison, Porter, Cable & others. Switch rating is 10 amp at 125 v. or ½ HP at 125 volts. Size: 3⅝" x 1⅞". Shipping weight ¼ lb.

No. SW-251
3 for $2 _____ Ea **80c**

### D DELAY SWITCH

Made in U.S.A.

Lights remain on for about 60 seconds, then turn off automatically. Easily installed like any regular switch. Ideal for use when you go to the car, etc. Shipping weight ⅓ lb.

No. SW-179, 3 for $6 _____ Ea. **$2.19**

### E TIMER EXTENSION CORD

Automatically Turns Light Off

Heavy duty extension cord with mechanical timer. Time cycle 0-4 hours. Extension cord has three outlets. Ideal for turning off fans, motors, radios, lights, etc.

No. SW-178
Lots of 3, Ea. $4.50 _____ **$5.11**

### F TIME SWITCH

Turns Appliances ON-OFF

Makes any radio a clock radio. Turns on and off coffee makers, lights, fans, etc., for as little as 15 minutes or as long as 23½ hours. Manual control for manual switching. Capacity 15 amps: 1650 watts. For 117 volts. AC only. Size: 5" W x 4" H x 2¼" D. Shpg. wt. 2¼ lbs. Made in U. S. A.

No X-706 _____ **$7.99**

### G Telechron Clock Movement

Made in U.S.A. Turns on TV sets, radios, phonos and or other appliances at any pre-set time within a 12 hour period. Has sweep second hand. A 60 minute slumber switch, manual on-off switch. For 117 volts A.C. Size: 6¾" x 4" x 2" Less knobs. Shipping wt. 3 lbs.

No. X-879
3 for $11.50 _____ Ea **$3.93**

### H SPDT Miniature Toggle Switch

1.5 amps. 125 V. Size: 1⅛" x ½" x ⅓". Shipping weight ⅛ lb.

No. SW-211, 4 for $3.50 ____ Ea **99c**

### H DPDT Miniature Toggle Switch

Same as above but DPDT.

No. SW-212, 3 for $3.75 _____ Ea. $1.29

### ABOUT OUR PRICES

Your order is shipped at the current price. Prices in this catalog replace prices in all previous Olson catalogs and are subject to change without notice. Orders are filled at the price in effect at time of shipment.

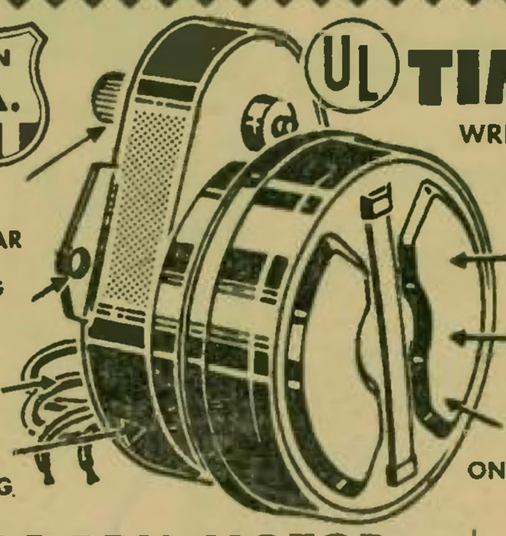
YOU BENEFIT FROM ANY PRICE REDUCTION. If prices are lowered during the life of this catalog you get the advantage of the lower price. We reduce the cost accordingly and send you a refund at the time we make the shipment.



MADE IN U.S.A.

# UL TIMING MOTORS

WRITE FOR SPECIAL 100 to 1000 PRICES!




### 1/60 RPM MOTOR

One revolution per hour. Ideal for making clocks, equipped with clutch so motion can be reset while shaft is turning. 110-125 v. AC 60 cps. Shipping weight ½ lb.

No. MO-71
3 for $1.00 Ea. **39c**

### 1/37.5 RPM MOTOR

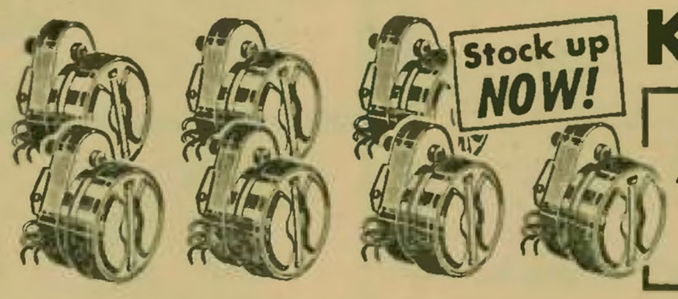
Incorporates all fine features of MO-71 except clutch. Many uses for the experimenter. 110-125 v. AC 60 cps. Shipping weight ½ lb.

No. MO-72, 2 for $1.00 ____ ea. **59c**

### 5 RPM MOTOR

300 revolutions per hour. The ideal timing motor to perform perfectly for years under tough conditions. 110-125 v. AC 60 cps. Shipping weight ½ lb.

No. MO-74, 3 for $2.00 ____ ea. **69c**




# KIT of 7 MOTORS

$2 No. AS-767

Kit contains 7 assorted motors of various speeds and voltages. A rare opportunity to stock up for your every experimental need. Shipping weight 3½ lbs. Similar in design and construction as shown. Shpg. wt. 3 lbs.

### Read-Out COUNTER

★ 24 V. DC Solenoid




★ Large Numerals

X-918 **$1.50** Lots of 4, Ea. $1.25

Ideal for industrial counting operations, score boards, assembly line counting, etc. Ruggedly built for continuous operation in computers. Large numbers 0 thru 9 are painted on a drum which is rotated by a solenoid. Each number is 1" high so that it can easily be read at a glance. Size: 3¾"x1⅞"x1½". Used. Shpg. wt. 2 lbs.

### PHOTO-EYE

Olson



No. SW-203 **$3.66** 3 for $10.50

Turns lights, signs, appliances and displays on and off at dusk and dawn automatically. Keeps prowlers away from your home when you are away by turning lights on at night. Size: 3½" x 2⅝" x 1½". For 117 volts A.C. Cap. 300 watts. Shipping weight ½ lb.

### Fisher-Pierce NIGHT LIGHTER

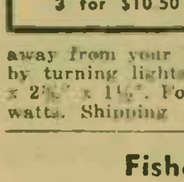
Made In U. S. A.



No. X-638 **$11.08**

Turns on lights or signs at dusk and off at dawn. Just plug Nightlighter into 115 volt AC socket and plug appliance into Nightlighter adaptor cord. Max. load 300 watts. Shipping weight 4 lbs.

### Experimenter's SPECIAL!



**No. MO-76**
Size: 1¾"x2½"x2¾"
Shaft: ⅜"x⅛" dia.
90 V AC @ 50 cps.
Shpg. Wt. 2½ lbs.

Was ~~$1.69~~ in 563 Cat. May Be Assorted — YOUR CHOICE 2 for $1

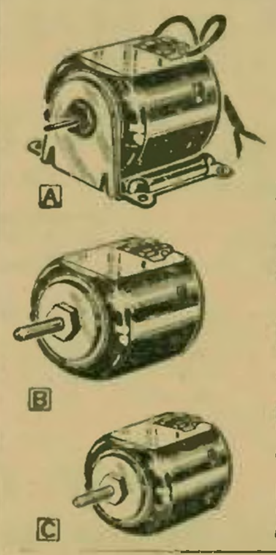


**No. MO-75**
Size: 1¾"x2½"x2¾"
Shaft: ⅜"x⅛" dia.
95 V AC @ 60 cps.
Shpg. Wt. 2½ lbs.

These rugged heavy duty motors are ideal for experimenters and students. Bronze type bearings and extra heavy magnetic core result in smooth quiet operation. Standard squirrel cage induction type design. Shaded poles for self starting.

### Miniature HOBBY MOTORS

★ Lubricated Bearings
★ Reversible



These high torque, miniature motors are perfect for all kinds of hobby applications. Because of their high efficiency and small size they are ideal for racing cars, boats and many other working models. All have permanently lubricated bearings. Threaded mounting hole on bottom of case makes mounting to any surface easy. Shipping weight ¼ lb. Write for special large quantity prices.

[A] 3 to 4 volts DC. Current (no load) .190 amp. Torque 9.92 gr./cm @ 8100 RPM. With 1½"x1¼" mounting stand. ⅛" dia. shaft. MO-106, 3 for $2.00 ____ Ea. **79c**

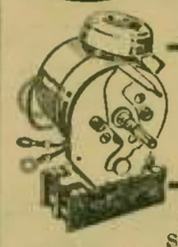
[B] 3 to 4 volts DC. Current (no load) .190 amp. Torque 9.92 gr./cm @ 8100 RPM. ⅛" dia. shaft. MO-105, 5 for $3.00 _____ Ea. **69c**

[C] 1.5 to 3 volts DC Current (no load) .210 amp. Torque 6.41 gr./cm @ 5900 RPM. ⅛" dia. shaft. MO-104, 3 for $1.25 _____ Ea. **49c**

### LUX 5 Hr. TIMER

With Bell

★ Heavy Duty Switch

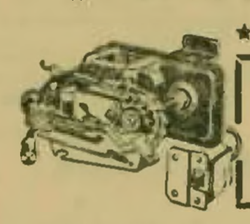


**SALE** No. SW-281 **99c** Reg. $1.99

Heavy duty D.P.S.T. Switch is turned on by rotating shaft fully clockwise. At the end of the time cycle (5 hr.), the switch turns off and a bell begins to ring. Switch may also be operated manually. Rated at 30 amps. @ 230 volts. Motor operates on 110-125 volts A.C. 60 C.P.S. Size: 4¼" x 2¾" x 2¾". Shipping wt. 2 lbs. Write for Special Large Quantity Price.

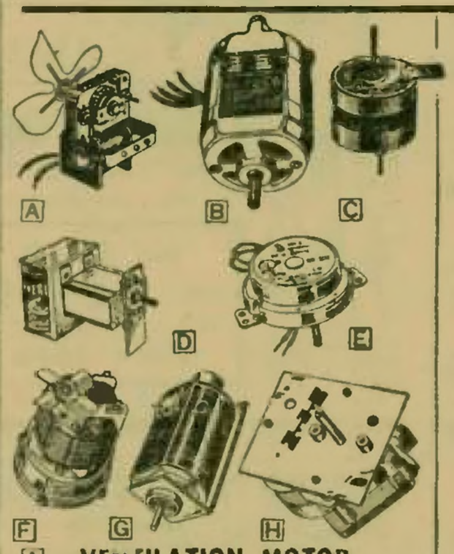
### Switching Motor

★ 13 RPM Gear Mechanism
★ 117 Volts AC



No. MO-107 **$1.99**

Rugged self starting motor with attached gear train. Stepping mechanism on end of gear box shaft rotates at 13 RPM. This stepper operates a leaf type switch opening a set of normally closed contacts at the rate of 13 times per revolution. Once each RPM a second set of normally closed contacts opens. For 110-125 v. AC 60 cps. Shipping weight 3 lbs.




### [A] VENTILATION MOTOR

Motor is ruggedly constructed of laminated steel and features permanently lubricated type bearings. Universal mounting bracket. 3" blade. Shpg. wt. 2 lbs. 110-125 volts. A.C. 60 cps.

No. MO-83 ____ ea. **$2.49**

### [B] BODINE 1/25 HP

High speed 3300 RPM motor for intermittent use in home or shop. ¼" shaft has geared face and extends ¾" from motor housing. Easily gear-coupled to any application. Operates on 110-125 volts A.C. or D.C. Size: 4" x 2½". Shipping weight 4 lbs.

No. MO-64, 3 for $5.50 Ea. **$1.98**

### [C] FASCO 4-POLE MOTOR

4-coil, 4-pole self-starting induction type. ½" shaft extends 1¼" from front of motor and ⅜" from back of motor. 1550 RPM. For 110-125 volts AC. 60 cps. Size: 2½" x 3½" plus shaft. Shipping weight 5 lbs.

No. MO-110,
3 for $9.00 _____ ea. **$3.50**

### [D] Ingraham TIMER MOTOR

1 RPM

Features heavy duty gear box and motor frame plus fully insulated coil. Size: 1 13/16" dia. x 1⅜" deep. The gear box has a ⅛" diameter shaft extending ⅜". For 110-125 v. AC 60 c.p.s. Shipping weight 1 lb. Write for special large quantity prices.

No. MO-113 3 for $3 ____ ea. **$1.19**

### [E] 6 RPM DC MOTOR

3 Colt D.C. motor and gear drive is completely enclosed. ⅛" diameter shaft rotates a 6 RPM. ⅜" shaft has flated side for set screw. Battery holder accepts two standard "D" size flashlight batteries (included). Size: 1⅞" x 1½" x 2⅛" plus shaft length and mounting bracket. Shpg. wt. 2 lbs.

No. X-942 3 for $3 ____ ea. **$1.19**

### [F] 24 RPM MOTOR

High torque 24 RPM motor features permanently lubricated bearings in rugged cast housing. Gear reduction ratio 137-1. Operates on 110-125 volts AC. Motor size 4¼" x 3¼". Shaft size ⅞" long x 3/16" dia. Shipping weight 5 lbs.

NO. MO-81 3 for $10 ____ ea. **$3.50**

### [G] 3-6 V. MINIATURE MOTOR

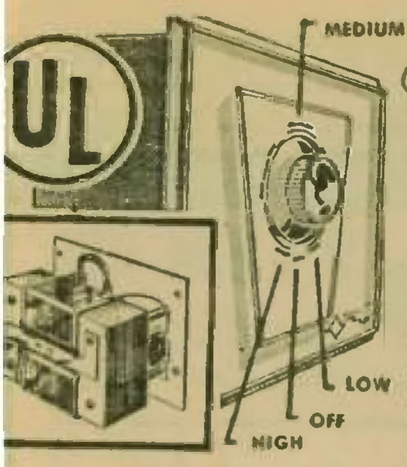
Operates on 3 to 6 volts D.C. Current drain only .200 amperes. 9 gr/cm torque @ 4500 RPM. Self aligning bearings. Shaft: ⅛" long by .079 dia. Overall size: 1⅜" x ⅝". With mounting bracket. Shpg. wt. ¼ lb.

No. MO-65, 3 for $2.50
12 @ 75c Ea. _____ Ea. **89c**

### [H] Telechron TIMER MOTOR

Synchronous motor with multiple gear train. Front panel shaft sets timer for up to one hour. Buzzer sounds at end of time cycle. Size: 2⅝" x 2½" x 3⅛" including 1½" shaft. 110-125 v. AC 60 cps. Shipping weight ¾ lbs.

No. SW-254 _____ **99c**




PROGRESS WEBSTER

## Variable TRANSFORMER

**500 WATT POWER CAPACITY**

★ Front Panel & Knob Included
★ New! Factory Sealed Carton

**Limited Stock—Order Now!**

**$4.99** No. T-353 Was ~~$9.99~~ In Cat. 363 Mfrs. 1962 List $29.95

A heavy duty variable transformer designed to give variable control of light intensity. Use to create beautiful and unusual lighting effects. Use with incandescent or fluorescent lights with dimmer ballast. Included are knob and front panel with two color inserts to match any decor. This ruggedly built transformer also has many applications on the service man's or experimenter's bench. Use for any application where an adjustable AC voltage is desired. Voltage range from 42 volts to 125 volts. Power capacity 500 watts. Rugged transformer housing size: 6⅝" x 7½" x 3½". Front panel size: 7⅛" x 8" for 0-125 volt AC 60 CPS. Shipping weight 17 lbs.

## SILICON RECTIFIERS

### 500 MA

No. RE-30 Ea. 47¢ 10 for $4.25

PIV: 200 volts RMS: 140 volts Size: ⅜"x⅜" Shpg. wt. ¼ lb.

### 500 MA (MINIATURE)

★ 24 Karat Gold Plated

No. RE-70 KIT OF 4 PER KIT 99¢ 4 Kits $3.50

PIV: 100 volts RMS: 70 volts Size: ¼"x7/16" Shpg. wt. ¼ lb.

### 750 MA

No. RE-29 Ea. 57¢ 10 @ 51c

PIV: 400 volts RMS: 280 volts Size: ⅜"x⅜" Shpg. wt. ¼ lb.

### 750 MA

No. RE-32 69¢ 3 for $2.00

SPECIFICATIONS: Mfgrs. Type: SD-500-90; RMS A.C. Input: 280 Volts; Peak Inverse Voltage: 400 Volts. Output: D. C. 500 MA @ 100° C; Current: 750 MA @ 50° C. Shpg. wt. ¼ lb.

### 2 AMPERE

00 PIV
" Hex-Stud Mount
Shpg. wt. ¼ lb.

No. RE-66 Ea. 99¢ 4 for $3.50

ame as above with wire leads on both nds. Shipg. wt. ¼ lb.
RE-81, 4 for $3.50 ..... ea. 99c

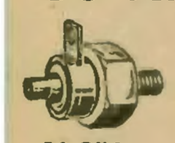
### 15 AMPERE



400 PIV
" Hex-Stud Mount
hpg. wt. ¼ lb.

No. RE-65 EA. $2.79 3 for $8.00

### 50 AMPERE



50 PIV
" Hex-Stud Mount
Shpg. wt. ¼ lb.

No. RE-71 EA. $3.50 3 for $9.75

. J. Street, 75 E. Manzel St., Valdese, C., wins choice of merchandise worth from Olson's "Treasure Hunt". See cover for instructions.



## POWER TRANSFORMER

★ Built-in Rectifier Sockets

**$3.99** No. T-382

Has built-in sockets for two 5U4's. Delivers 800 v. CT @ 250 ma. and 6.3 v. @ 10 amp., plus 2-5 volt windings @ 3 amp each. High voltage and 5 volt windings are connected to the sockets. 4½" x 3¾" x 5½". 110-120 V. AC 60 cps. Shpg. wt 8 lbs.




WITH MTG. BRACKETS

Matched Pair 455 kc IF TRANSFORMERS

No. L-83 ONLY 99¢ PER PAIR

Consists of one each, input and output transformer. Size: ¾" x ¾" x 2". Complete with instructions. Shipping weight ⅛ lb.

### 456 KC IF TRANSFORMER

Size: ¾" x ¾" x 2". For all input and output circuits. With mtg. bracket. Shpg. weight ¼ lb.

No. L-32, 10 for $4.90 ..... Ea. 59c

Miniature
### 455 KC IF TRANSFORMERS



★ Kit of 6 No. T-380 99¢

Only ⅝" x ⅜" x ½". Standard 455 KC. Ideal for transistor radios. Contacts are designed for printed circuit board. Shpg. weight ¼ lb.

Olson
### Audio TRANSFORMERS



Your Choice 79¢

¾" square for miniature circuits. Shpg. wt. ¼ lb.

| Stock No. | Use | Primary Imp. Ohms | Secondary Imp. Ohms |
|---|---|---|---|
| T-230 | driver | 10,000 | 2,000 |
| T-231 | output | 500 | 8 |

### AUDIO Transformers
ULTRA-MINIATURE



79c 2 for $1.50

Only 7/16" square overall. Tab mount. Long insulated leads. Especially suited for printed circuit transistor applications. Shpg. wt. ¼ lb.

| Stk. No. | Use | Primary Imp. Ohms. | Secondary Imp. Ohms |
|---|---|---|---|
| T-332 | Driver | 10,000 | 2,000 CT |
| T-333 | Output | 500 CT | 8 |

## • AUDIO OUTPUT • FILAMENT • POWER TRANSFORMERS

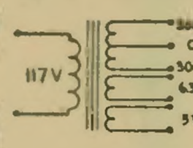
STANCOR



A

### A POWER

SECONDARY: 300-0-300 V. @ 200 M.A. 6.3 volts @ 6 Amp. 5 volts @ 3 Amp.
SIZE: 4" x 4" x 3"
Shpg. wt. 8 lbs.

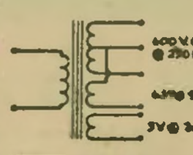



$3.66 No. T-381

### A POWER

★ WITH COOLING FINS

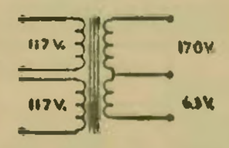
SECONDARY: 300-0-300 Volt @ 250 MA., 6.3 V. @ 9A, 5 V. @ 3A
SIZE: 4½" x 4½" x 4¾"
Shpg. Wt. 8 lbs.



No. T-377 $3.69 3 for $10.50

### A POWER

SECONDARY: 170 Volt @ 45 MA 6.3 Volt @ 1.1 Amp.
SIZE: 2⅜" x 2⅜" x 2"
Shpg. Wt. 2 lbs.




$1.79 No. T-359

### A POWER

★ WITH COOLING FINS

SECONDARY: 300-0-300 V. @ 275 M.A. 6.3 volts @ 10 Amp. 5 volts @ 3 Amp.
SIZE: 3¾" x 3⅛" x 3½"
Shipping weight 8 lbs.

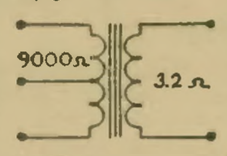



No. T-378 $3.59 3 for $10

RCA

### A OUTPUT

PRIMARY: 9000 OHM C. T. 25 Watt
SECONDARY: 3.2 OHM
APPLICATION: P. P. 50L6GT
SIZE: 3¾" x 2½" x 2¼"
Shpg. Wt. 3 lbs.




$1.79 No. T-373

### B POWER STANCOR

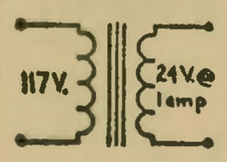
PRIMARY: 117 Volts A.C.
SECONDARY No. 1: 240 V. @ 540 ma.
SECONDARY No. 2: 145 V. C.T. @ 165 ma.
SECONDARY No. 3: 6.22 V. @ 6 AMPS.
SIZE: 2⅞" x 3⅜" x 4⅛"
SHIPPING WEIGHT: 7 lbs.




No. T-384 $3.59 3 for $10

### C POWER

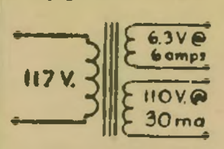
SECONDARY: 24 v. @ 1 amp
SIZE: 2¾" x 2¼" x 2¼"
SHIPPING WEIGHT: 2 lbs.




No. T-290 $1.49 3 for $4 12 @ $1.25

### C POWER

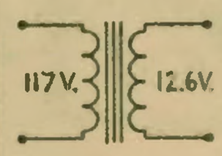
SECONDARY: 6.3 volts @ .6 amps 110 volts @ 30 MA.
SIZE: 1⅞" x 1⅜" x 2"
Shpg. Wt. 1 lb.




No. T-173 $1.32 3 for $3.50

### C FILAMENT

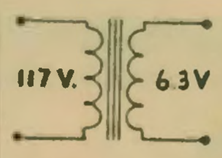
SECONDARY: 12.6 volts @ 1 amp.
SIZE: 2" x 1⅝" x 1¼"
Shpg. wt. 1 lb.




No. T-304 $1.49 3 @ 1.29 ea.

### C FILAMENT

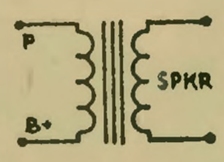
PRIMARY: 110-125 volts A. C.
SECONDARY: 6.3 v @ 1 amp.
SIZE: 1¼" x 1¾" x 1⅝"
Shpg. Wt. 1 lb.




No. T-76 89¢ 3 @ 80c ea.

### C AUDIO OUTPUT

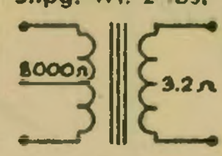
PRIMARY: 2500 ohms; 2 watts
SECONDARY: 3.2 ohms
APPL.: 50C5, 50L6, etc.
SIZE: 1½"x1¼"x1"
Shpg. Wt. ⅛ lb.




No. T-334 39¢ 3 @ 33c 100 @ 28c

### C AUDIO OUTPUT

PRIMARY: 8,000 ohm C.T.
SECONDARY: 3.2 ohm
APPLICATION: P.P., 6BQ5, EL-84
SIZE: 2⅜"x1¾"x2"
Shpg. Wt. 2 lbs.




89¢ No. T-374

### TV Transformers & Coils



No. L-77 KIT OF 10 57¢ was..~~66¢~~

Assorted TV I.F. transformers, discriminators, peaking coils, and chokes. Shipping weight ¼ lb.

### 65 MA Selenium RECTIFIER



No. RE-75 39¢ 3 for $1.00

A.C. input 130V RMS Size ¾"x¾"x¾" Ideal replacement in most AC-DC radios. Shipping weight ¼ lb.

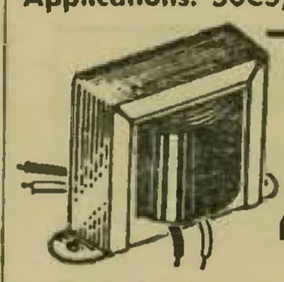
### FUSE HOLDERS ..... 67c



No. FU-6 99c in 662 Cat. Kit of three standard fuse holders for chassis mounting. Shpg. wt. ¼ lb.

### Audio Output TRANSFORMER

Primary: 2,500 ohms; 3 watts
Secondary: 3.2 ohms
Applications: 50C5, 50L6, etc.



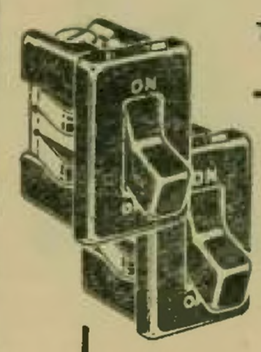
No. T-92 49¢ 3 @ 45c ea. 100 @ 39c, ea.




Size: 1½" x 1 3/16" x 1". Shpg. Wt. ¼ lb.

### Electric Range SWITCH

★ Snap-In Switch

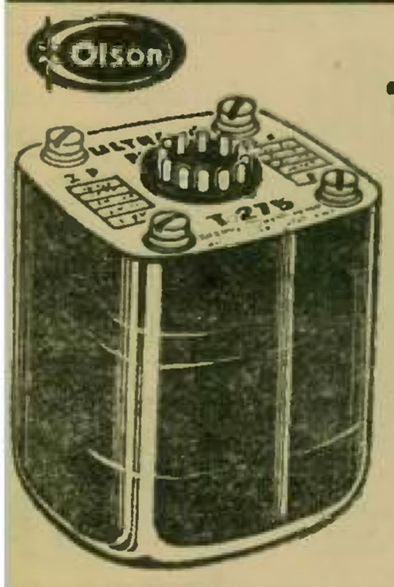



No. KB-153 $1 2 FOR . . .

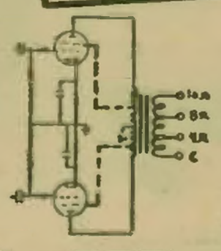
20 amp. at 125 volts. Mounts in ⅞" x 1 3/16" hole. Shipping weight ¼ lb.

Olson
### 15 Watt Hi-Fi Output TRANSFORMER

• Response ±1 DB 15 to 50,000 CPS



$4.95 No. T-275 2 for $9.50




Matches most popular output tubes in push-pull circuit to most speakers. All internal leads brought out to terminals at bottom. Primary impedances: 5,000, 8,000, and 10,000 ohms. Secondary impedances: 4, 8, and 16 ohms. Size: 2½"x2½"x3". Shipping weight 8 lbs.

### NEW! STEREO OUTPUT TRANSFORMER

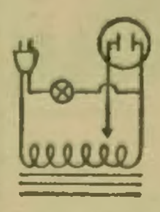
Two high fidelity output transformers in one compact case. Primary windings are tapped for ultra-linear operation. Primary impedance is 8,000 and 10,000 ohms with center tap which will match most popular output tubes in push-pull. All internal leads are brought out to terminals at the bottom of the transformer. ± 1 DB 15 to 50,000 CPS. Power rating: 20 watts. Size: 4⅛"x2½"x3". Shpg. wt. 4 lbs.

No. T-355 $7.99

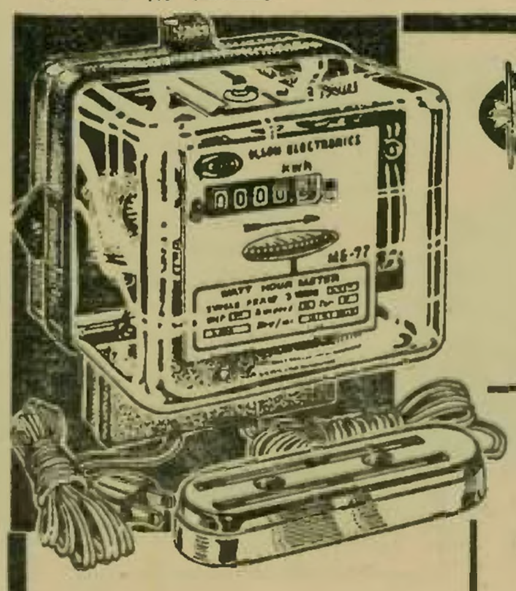
### 500 WATT VARIABLE VOLTAGE CONTROL




No. T-279 $12.93 3 for $38.50 Lots of 6, Ea. $11.00



Variable auto-transformer of toroidal core design delivers variable A.C. voltage from 0 to 130 volts. Maximum rating applies over full range of output voltage. Ideal for schools, service shops, laboratories, etc. Can be used to dim lights, experimental applications or to adjust for low or high voltages. Negligible voltage change from no load to full load. Comes with line cord and plug. Output voltage available from built-in A. C. outlet. A. C. input 110-125 volts A. C. 50 to 60 cps. Shipping weight 11 lbs.




Olson
### Watthour METER

• 117 VOLT 60 CPS
• 10 AMPERES
• SINGLE PHASE

**Ideal For: Hotels, Motels, Apartments, Rental Service**

No. ME-77 ONLY $9.99

Measure the power consumed by power tools and electrical appliances. Ideal for amateur radio operators, to determine operating costs. This meter is completely assembled with cords and plugs. Just plug power tool or appliance into the handy extension cord and plug the watt-hour meter into any electrical outlet. Read power consumed in kilowatt hours directly on the front of the meter. Know how much of your electric bill is for power tools, etc. More than one tool or appliance can be plugged in at a time. For 110-125 volt AC 60 cps. Size: 4¼" x 5⅝" x 4¼". This fine meter will pay for itself many times in savings to you. Shipping weight 6 lbs.



WRH

# FREE!

Howard W. Sams Book "HOW TO READ SCHEMATIC DIAGRAMS." Contains all types of schematic symbols and diagrams including tubes, transistors, capacitors, resistors, microphones, etc. 96 pages.
No. B-280, Sells separately for ..... $1.50

**With Purchase of KB-141 Below**




Olson

**Combination SIGNAL GENERATOR and TRACER KIT**

▶ This Kit Has All Major Components Premounted & Tested At Factory

**PRE-FAB KIT CONSTRUCTION**

**No. KB-141**

**$24.95**

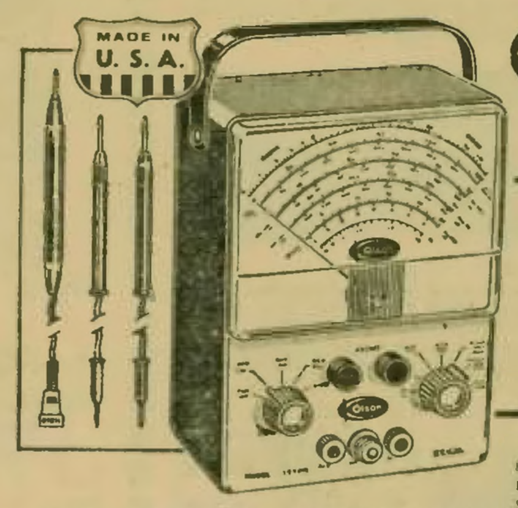
- ★ High Stability Electron Coupled Oscillator
- ★ Most Used Frequencies Marked in Color
- ★ Separate RF & Audio Signal Probes

This signal generator and tracer, unlike any standard signal tracer, first injects its own signal then traces that controlled signal to locate the trouble spot by standard signal tracing techniques. Designed for use with RF or audio signals and circuits. Five frequency ranges available with an attenuator switch which controls both the RF signal (modulated or unmodulated) or the 400 cps audio tone. Front panel jacks can be used for earphones. V.T.V.M. or scope. Easy to follow Olson construction manual with large, easy-to-read diagrams make building this kit pleasant. Housed in a steel cabinet with etched aluminum panel. For 110-125 volts 60 CPS. Size: 7½"x9½"x5¾" complete with probes. Range: 250 KC-120 MC in 5 bands. AUDIO: 400 CPS audio signal. TUBES: 5965, 5687, 6350, 6AG5. Shpg. wt. 12 lbs.

# FREE!

Howard W. Sams Book "101 USES FOR VOM-VTVM." By Robert Middleton. A practical guide to the use of the VOM and VTVM. 150 illustrations. 116 pages.
No. B-278, Sells separately for ..... $2

**With Purchase of KB-140 Below**




Olson

**V.T.V.M. KIT**

★GIANT 6" METER
★Two Color Scales

**$25.95** No. KB-140

A highly accurate DC voltmeter, AC voltmeter, and ohmmeter, with a large 6" 400 microampere meter with easily read black and red scales. It will measure AC peak-to-peak voltages to 2,000 volts any wave form, from 30 cps to above 5 MC with no accessory probes. AC RMS can be read up to 1500 volts if a sine wave. Resistance can be read directly from 0.2 ohms to 1,000 megohms. Direct reading decibel scale is calibrated from −10 to +18 DB, reference 1.73 volts, 6 MW into 500 ohm line. Zero center measurements can also be made.

**SPECIFICATIONS—DC voltage ranges:** 0-3, 15, 75, 150, 300, 750, 1500 volts. Input resistance: 11 megohms (1 megohm in probe) on all ranges. **AC voltage:** RMS ranges 0-3, 15, 75, 150, 300, 750, 15,000 volts. Peak to peak ranges 0-8, 40, 200, 400, 800, 2000 volts. **Decibel ranges:** −10 to +18 DB +10 to +38 DB, +30 to 58 DB response 30 cps to above 5 megacycles. **Ohmmeter ranges:** 0-1000, 10,000, 100,000 ohms, 0-1 meg. 10 meg, 1000 megohms center scales 10, 100, 1000, 10,000, 100,000, ohms 1 megohm 10 megohms. **TUBES:** 1—12AU7 twin triode balanced bridge, 2—9006 peak to peak rectifiers, 1 power supply selenium rectifier. **Power:** 110-125 volts AC 60 cps. **Size:** 7½" x 6½" x5". Shipping weight 8 lbs.

**Accessories:**
RF Probe for KB-140, No. TE-167 ..... ea. $3.75
Battery, (1 req'd) No. BA-53 ..... ea. 13c

---

Olson

**MULTITESTER 30,000 OHMS PER VOLT**

★ Self Shielded Magnet
★ COMPACT



**No. TE-179**

**$13.92**

Self shielded magnet minimizes outside interference to the extent that it is negligible. Unique single deck rotary switch gives instant positive selection of desired range. Specifications: DC volts: 0-250 mv — 1v 10v - 50v - 250v - 500v-1000v at 30,000 ohms per volt, AC volts: 0—10v-50v-250v-500v at 12,000 ohms per volt, DC Current: 0—50ua—10ma—250 ma. Resistance: 0—5k—500k — 5 meg. ohms, DB:—10 to + 22 db. Size: 4¾" x 3¾" x 1¾". Shipping weight 2 lbs.

---

12-Piece
**TEST LEAD KIT**



**$1.79** No. W-348 3 for $5

Consists of two 36" red and black test leads with banana plugs on each end. 2 heavy-duty spade lugs, 2 phone tip plugs, two 5" test probes and insulated clips. Shipping weight ¼ lb.

---

Olson

Transistorized
**SIGNAL INJECTOR**



**NO. TE-150**

**$3.94**

3 for $11

Produces an audio signal, suitable for signal tracing in A.F., I.F., and R.F. circuits. Operates on 4 standard penlite cells. Size: 4¾" x 1⅜" x 1¼", includes batteries. Shipping weight ¼ lb.
Batteries (4 req'd) No. BA-67 Bag of 8 ..... **59c**

---

SICO

Superior
**TUBE TESTER**

★ Made in U.S.A.



★ Tests Over 600 Types ★

**No. TE-180**

**$19.95**

★ Multiple Sockets

The use of multiple sockets permits elimination of element switches, thus reducing testing time and the possibility of incorrect switch settings. To test any tube, you simply insert it into a numbered socket as designated, turn the filament switch and press down the quality switch—That's all! Read quality on the meter. Inter-element leakage, if any, indicates automatically. Tester is mounted in portable carrying case with lid. Size: 15¾" x 9½" x 4". For 110-125 volts A.C. 60 cps. Shipping weight 11 lbs.

---

Olson

Transistor
**D.C. POWER SUPPLY**

★ FOR MOST TRANSISTOR DEVIC

- Completely Wired
- 6-9-12 Volt Outputs
- Vernier Voltage Control
- 0-15 DC Meter



Everyone working with transistors or other low voltage, low current DC devices, will find this an extremely useful tool.

**No. RA-472**

**$13.98** ★

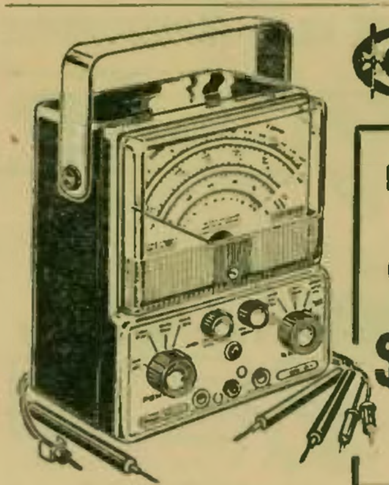
Alligator clips, which are included, can be connected as desired in circuit, voltage adjustable up from 5½ to 15 volts, as required for test. All controls, leads, fuse and meter readings available on front panel. Easily controlled 12 step tapped transformer source of DC voltage. 110-125 volts AC, 50-60 cps. Size: 5½" x 4½" x 4". Shipping weight 6 lbs.

---

Olson

**6½" VTVM**

MADE IN U.S.A.



**No. TE-158**

**ONLY $29.95**

D. C. Ranges: 0 to 3, 15, 150, 300, 1500 volts. A. C. R.M.S. Ranges: 0 to 3, 15, 150, 300, 1500 volts. Peak to Peak Ranges: 0 to 8, 40, 400, 800 volts. OHMMETER Ranges: 0 to 1000 meg. ranges). 110-125 volts A 50-60 cps. Shpg. wt. 6

Fred Hurst, 1414 S. Bro erton, Muncie, Ind. w choice of merchandise wo $5 from Olson's "Treas Hunt." See back cover instructions.

---

*IN-CIRCUIT CAPACITOR*

Olson

**TESTER KIT**

**MEASURES ELECTROLYTICS IN-CIRCUIT**

★ EASY TO READ Light Bar Indicator
★ Sharp, Non Confusing Readings
★ Electrolytic Dial
★ Direct Reading Dial
★ Low Loss Coaxial Test Leads




**$17.98** ★ No. KB-147

Instantly reveals opened and shorted capacitors without removing them from circuit. Checks by-pass, coupling, blocking, and filter capacitors of all types including electrolytics. Also finds dried out electrolytics, as well as opened and shorted electrolytics, by directly indicating capacitance on new easy-to-read EM-84 eye tube. Indicates in-circuit electrolytic capacity from 2 mfd to 400 mfd in two ranges. Condenser is automatically proven non-shorted and not open if capacity reading can be read. Rugged ripple finish steel cabinet with easy-to-read two color panel. Complete with leads, detailed assembly instructions and operating manual. Size: 7½" x 5¾" x 4¼". For 110-125 volts AC, 60 cps only. Shipping weight 7 lbs. Order today.

---

SICO

Superior
**AC VOLTMETER**

MADE IN U.S.A.

★ JUMBO METER
★ Mirrored Scale




**No. TE-176**

**$3.99**

**REG. $5**

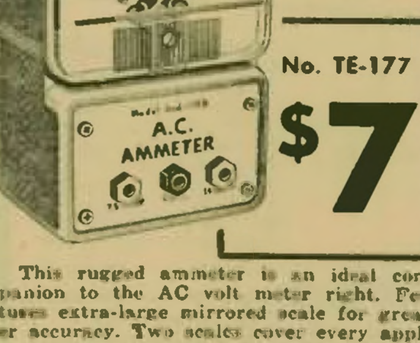
Large full-view meter with big clear numerals. This fine meter is made even more accurate by a mirrored scale. Reflection of meter hand gives accurate readings even when viewed from an angle. Features these most often used ranges: 0-150 volts AC, 0-300 volts AC, and 0-750 volts AC. Meter size 3⅝" wide x 3¼" high. New streamlined case has four standard pin jacks on front panel for quick and easy connection. Size: 3⅝" wide x 5⅜" high x 2½" deep. Shipping weight ¾ lb.
12-pc. Test Lead Kit for Above Meter
No. W-348 ..... $1.79

---

SICO

Superior
**C. R. T. TESTE**

▶ Tests and Rejuvenates All Picture Tubes



**No. TE-181**

**$24.95**

★ Tests Color Tub
★ Tests Tubes in Set or Out of Set
★ MADE IN U.S.A

A new, improved circuit designed specifically to test older black and white tubes, as well as black and white tubes, and all color picture tubes. Test 50 degree to 110 degree types from 8" to 30" sizes. Separate filament operating voltages are provided for older 6.3 volt tubes and new 2.4 volt tubes. Red, green, and blue sections of color tubes are tested individually. Tester indicates tubes that require rejuvenation, then applies selective low voltage to assure increased life with no danger of cathode damage. Employs a 4" air-dampened meter with quality and calibrated scales. Features handsome portable saddle-stitched case, complete with all necessary sockets. Size: 11⅝" x 6" x 3½". For 110-120 volts A.C. 60 cps. Shipping weight 8 lbs.

---

Transistor Radio
Olson
**TESTER KIT**

★ Signal Generator and Tracer
★ Large easy to read meter
MADE IN U. S. A.



**SALE**

**No. KB-143**

**$24.99**

A highly versatile tester for transistors or transistor circuitry. Completely portable, operates on self-contained batteries (included). Housed in an attractive rugged carrying case. Tests PNP and NPN transistors for leakage and relative gain. Signal generator produces an audio modulated RF signal which may be applied to any stage, can be traced and heard through amp and speaker in tracer. Complete with all necessary probes and leads plus large easy to follow instructions. Size 11" x 7" x 4". Shipping weight 8 lbs.

---

**SALE**

SICO

Superior
**AC VOLTMETER**

MADE IN U.S.A.

★ JUMBO METER
★ Mirrored Scale




**No. TE-176**

**$3.99**

**REG. $5**

Large full-view meter with big clear numerals. This fine meter is made even more accurate by a mirrored scale. Reflection of meter hand gives accurate readings even when viewed from an angle. Features these most often used ranges: 0-150 volts AC, 0-300 volts AC, and 0-750 volts AC. Meter size 3⅝" wide x 3¼" high. New streamlined case has four standard pin jacks on front panel for quick and easy connection. Size: 3⅝" wide x 5⅜" high x 2½" deep. Shipping weight ¾ lb.
12-pc. Test Lead Kit for Above Meter
No. W-348 ..... $1.79

---

SICO

Superior
**AC AMMETER**

MADE IN U.S.A.

★ JUMBO METER ★ Mirrored Scale




**No. TE-177**

**$7**

This rugged ammeter is an ideal companion to the AC volt meter right. Features extra-large mirrored scale for greater accuracy. Two scales cover every application. 0-7.5 amp. AC and 0-15 amp. AC. Meter size: 3⅝" wide x 3¼" high. The streamlined case has three standard pin jacks on the front panel for quick and easy connection. Size: 3⅝" wide x 5⅜" high x 2½" deep. Shipping weight ¾ lb.
12-pc. Test Lead Kit For Above Meter
No. W-348 ..... $1.79

---

SICO

Superior
**A.C. Expanded Sca VOLTMETER**




Employs OB2 Regulator Tube
Made In U. S. A.

**No. ME-124**

**$5**

★ Indicates Exact Voltage Constantly

Expanded scale spreads 105 to 125 range over 55% of the complete scale. tube improves accuracy and reliabil of meter. Features large, easy-to-r numerals and divisions. Each volt betwe 95 and 135 is clearly indicated. Accura is plus or minus 1% or one scale divisi whichever is greater. Large 3½" meter equipped with over-size damping chamb Size: 6" x 4" x 2½". Shipping weight 0

---



EXTRA BATTERY (3 req'd.) ..... No. BA-67 ..... 8 for 59c

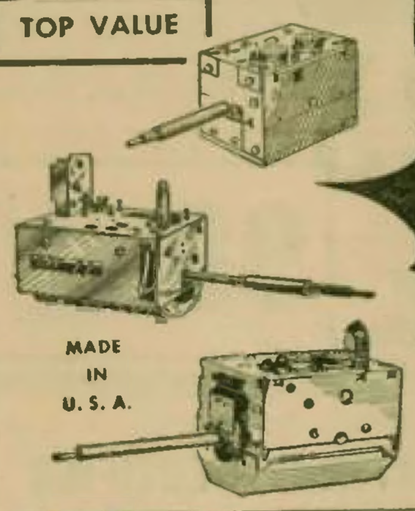
# SALE

## TV TUNERS

STOCK UP NOW

LIMITED QUANTITIES

TOP VALUE



MADE IN U. S. A.

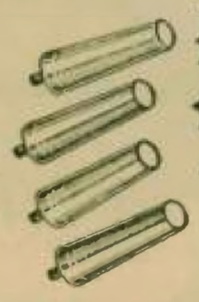
No. TV-109

$1.88

Popular Standard Coil Tuners. All kinds, all sizes, less tubes. Ideal for repair parts. Install new tubes and tuner may be in working order. Quantities are limited so stock up now. Shpg. wt. 3 lbs.

## SALE 3" FURNITURE LEGS

★ Wood & Plastic

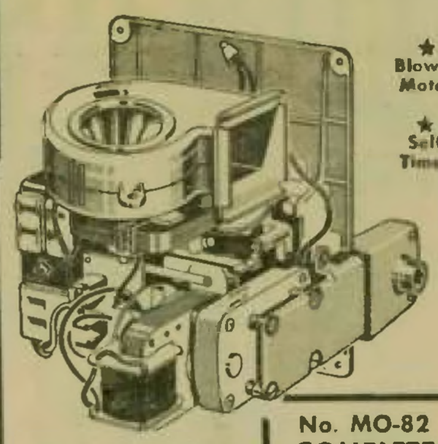


YOUR CHOICE SET OF 4 . . . 88¢

| WOOD | |
|---|---|
| STOCK NO. | FINISH |
| CA-285 | UNFINI. |
| PLASTIC | |
| CA-289 | BLONDE |
| CA-290 | WALNUT |
| CA-291 | MAHOG. |

3" legs in many modern finishes. Ideal for building end tables, etc. Some are finished some are unfinished and can be painted to match your furniture. Approx. shipping weight 4 lbs. Made in U. S. A.

## KENMORE ROTISSERIE CONTROL CENTER



★ Blower Motor

★ Self Timer

No. MO-82 COMPLETE $7

Each unit has a motor with gear train to turn the spit plus a squirrel cage blower with independent motor. There are three heavy-duty toggle switches plus two leaf-action switches and three AC receptacles. Size: 7½" x 8" x 8½". For 110-125 v. A.C., 60 CPS. Shipping weight 8 lbs.

### METAL KNOB KIT



★ Kit of 3 ★ ¼" Shaft

3 Kits for $3.50 No. KN-18 $1.29

Kit of three matched aluminum knobs to fit standard ¼" shaft. Set screw locks knob firmly to shaft. Modern appearance is accented by gradual taper from 11/16" dia. to 13/16" dia. Length of knob, 13/16". Shipping weight ⅓ lb.

### CLAROSTAT 8 OHM L PAD



Provides separate control of speaker volume. 1" dia. Shaft ¼" dia. x 1" long. Shpg. wt. ¼ lb.

No. VC-261, 3 for $2 Ea. 79c

### CLAROSTAT ROTARY SWITCH



★UL APPROVED

Size: 1⅜" dia. Shaft ¼" dia. x 1¼" L.

No. SW-231, 6 for $1 Ea. 19c

# 25pc. METAL KIT

## ALUMINUM

## STEEL



★ Assorted Sizes and Shapes

★ Aluminum Pre-Punched Chassis

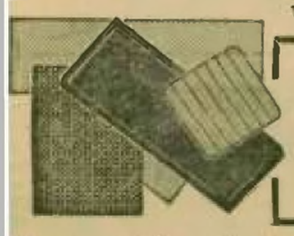
Here is a rare bargain for the builder or experimentor. All kinds of brackets and chassis can be formed to suit your special needs. Each kit contains at least one aluminum, pre-punched chassis (size 15⅞" x 7½" x 2⅛"). Ideal for building power supplies, transmitters, receivers and many other items. Metal plates and panels can be cut and bent to form a chassis of your choice. Order several of these kits and take advantage of Olson's money saving price while our assortment is complete. Shipping weight 15 lbs.

No. CA-295

99c

## Metal Grille Kit

★ Kit of 10

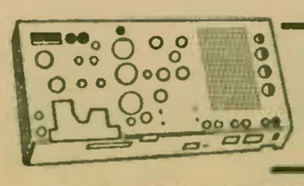


No. CA-283 99¢

Kit of 10 assorted pieces of metal grille. Ideal for use as speaker grille in radios, TV or phono. Makes excellent grille for ventilation openings. Shipping weight 4 lbs.

PRE-PUNCHED

## ALUMINUM CHASSIS



No. X-927 2 FOR 99c

Ideal for experimental circuits. 15⅞" x 7½" x 2⅛". All Aluminum chassis. Pre-punched with holes for tube sockets, transformers, coils, switches and many other parts. Ideal for building power supplies, transmitters, receivers, etc. Shpg. wt. 4 lbs.

KIT OF 6

Octal

## SOCKET KIT

★ Molded Type



No. AS-849 99c

Kit of 6 standard Octal sockets. All molded type. Some are saddle type mount and some are for snap ring mounting. Terminal lugs are all clearly numbered. Shipping weight 1 lb.

Cabinet

## HARDWARE KIT

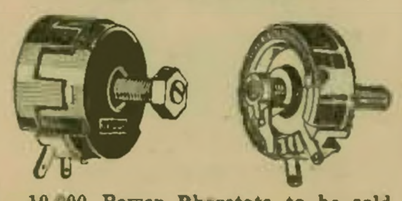
★ 12 Pieces



No. AS-847 99c

Generous assortment of all kinds of cabinet hardware. You're sure to find just what you need to repair furniture or cabinets. Kit contains several kinds of hinges, knobs and fasteners. Shipping weight 2 lbs.

## POWER RHEOSTATS



10,000 Power Rheostats to be sold fast! Famous makes included, Clarostat, Ward-Leonard, Hardwick-Hindle, Dejur, etc. STOCK UP NOW. Ideal for regulating lights, adjusting speeds also for model railroads. Shipping weight ¾ lb.

10 FOR $4.50 EACH 49c

MAY BE ASSORTED

### 125 OHMS — 25 WATTS

No. VC-265

¼" Round shaft ½" long. Mounting stud: ⅜" dia. x ½" long. Size: 1½" dia. x 2⅞" deep.

### 250 OHMS — 25 WATTS

No. VC-260

Heavy ceramic housing. 1½" dia. Shaft ¼" dia. x 1" long.

### 20,000 Ohms — 25 Watts

No. VC-268

Screwdriver Shaft. Mounting stud: ⅜" dia. x ⅝" long. Size: 1 1/16" dia. x 1⅜" deep.




# GIANT

## SURPRISE KIT

No. AS-700 ONLY $5

A deluxe HIGH VALUE Surprise Kit worth MANY TIMES Olson's low, low price! Kit may contain transformers, motors, relays, capacitors, resistors, controls, wire and countless other valuable components. Shipping weight 20 lbs.

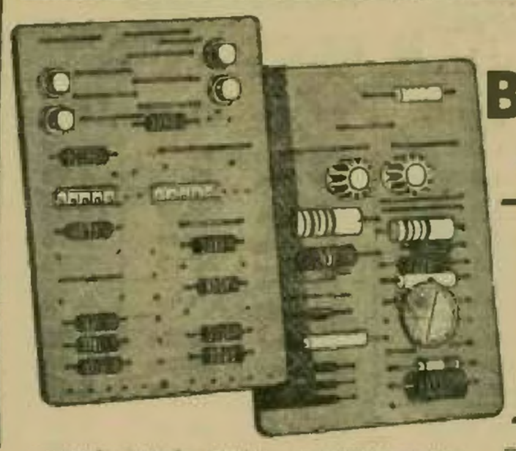
5-LB. SURPRISE KIT

Shipping Weight 7½ lbs. No. AS-137 $1.98

SEMI-CONDUCTOR AND PARTS

## BARGAIN!

★ 4 Transistors ★ 20 Parts



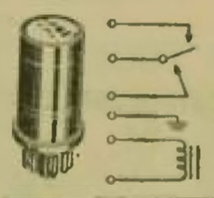
No. X-932 BIG VALUE ONLY $1

Circuit boards contain a generous assortment of top quality components. Included are diodes, ceramic capacitors, transistors and resistors. All parts are of highest quality, made by leading U.S.A. manufacturers. Such names as ERIE, IBM and GE appear on the component parts. The parts can easily be removed from circuit boards which will contain a minimum of 4 transistors and 20 additional components. Some boards will contain extra parts. Size of each board 2¾" x 3⅞". Shpg. wt. 1 lb.

Purdue University, W. R. Miller, 211 Education, Lafayette, Ind., wins $5 in merchandise from Olson's "Treasure Hunt." See back cover for instructions.

## SPDT PLATE RELAY

★ 1400 Ohms



No. SW-206 $1

3 FOR . . .

1400 ohm, 13 MA D.C. Contacts 50 volts at 1 MA. Size: 1" dia. x 2⅛".

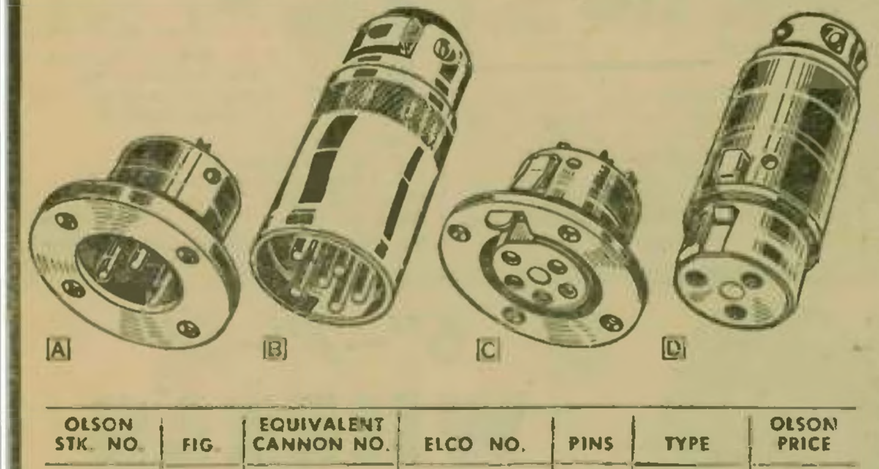
## ELCO AUDIO PLUGS

(EQUIVALENT TO CANNON P AND PCG SERIES)

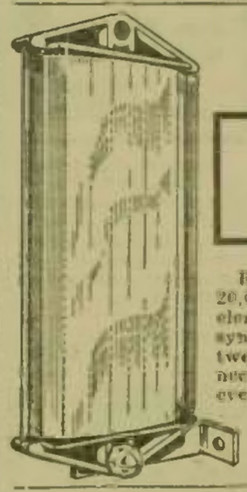
★ Prices Good While Stock Lasts ★ Limited Quantities

Olson bought all the manufacturers had. Industrial users and experimenters stock up now.

Will handle up to 30 amps. Housings are die cast zinc alloy and steel to withstand hard usage. Contacts are silver-plated brass, with a silver-plated beryllium copper spring added to the female contacts. Fully-tinned solder cups at contact tail ends will take up to No. 10 wires. Finished in satin chrome. A latch lock device provides quick and secure locking of a mated pair. Positive polarization. Cable connectors may be plugged into each other or into the panel receptacle. Plugs are 1⅛" in diameter and 2⅛" long. Shpg. wt. ¾ lb. ea.




| OLSON STK. NO. | FIG. | EQUIVALENT CANNON NO. | ELCO NO. | PINS | TYPE | OLSON PRICE |
|---|---|---|---|---|---|---|
| PL-109 | A | P2-14 | B-2209-2 | 2 | Male | $1.05 |
| PL-110 | A | P3-14 | 3 | 3 | Male | 1.15 |
| PL-111 | A | P4-14 | 4 | 4 | Male | 1.30 |
| PL-112 | A | P5-14 | 5 | 5 | Male | 1.40 |
| PL-123 | B | P2-CG-12S | B-2212-2 | 2 | Male | 1.65 |
| PL-124 | B | P3-CG-12S | 3 | 3 | Male | 1.75 |
| PL-125 | B | P4-CG-12S | 4 | 4 | Male | 1.85 |
| PL-126 | B | P5-CG-12S | 5 | 5 | Male | 1.95 |
| PL-118 | C | P2-13 | B-2211-2 | 2 | Female | 1.60 |
| PL-119 | C | P3-13 | 3 | 3 | Female | 1.70 |
| PL-120 | C | P4-13 | 4 | 4 | Female | 1.80 |
| PL-121 | C | P5-13 | 5 | 5 | Female | 1.90 |
| PL-114 | D | P2-CG-11S | B-2210-2 | 2 | Female | 2.10 |
| PL-115 | D | P3-CG-11S | 3 | 3 | Female | 2.20 |
| PL-116 | D | P4-CG-11S | 4 | 4 | Female | 2.30 |
| PL-117 | D | P5-CG-11S | 5 | 5 | Female | 2.40 |



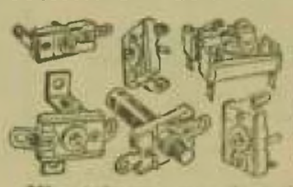
Electrostatic

## TWEETER

No. S-588 99c

Response to beyond 20,000 cps. The moving element is a metalized synthetic foil. Two tweeters may be connected in parallel for even better high frequency reinforcement. Complete with instructions. Shpg. wt. 2 lbs.

## Trimmer CAPACITOR KIT



★ 6 Pieces

No. C-178 99c

Mica trimmer capacitors in various sizes for a variety of applications. Treated to resist moisture. Low-loss ceramic base. Convenient screwdriver adjustment. Shipping weight ½ lb.

DARE

## RF INDICATOR PROBE

★ RANGE TO 300 MC

★ USE TO PEAK TRANSMITTER

★ LOCATE RF LEAKS



$9.99 No. RE-84 Mfgrs. 1963 List $29.95

The new DARE RF1-1 probe is a complete, self-contained instrument which responds instantly to the presence of RF energy, yet requires no power, has no batteries, or tubes. Determining radiation patterns, etc. Operating range to 300 MC. Size: 2½" x 10½". Shipping weight 3 lbs.

## 12 to 9 Volt TRANSVERTER

Saves Cost of Batteries



No. X-946 $1.47

Just plug into the cigar lighter of any 12 volt car, truck or bus and connect to the battery terminals of your 9 volt transistor radio. Complete with 36" cable, plug for cigar lighter and snap type battery connector to replace popular 9 v battery. Complete with instructions. Shipping weight ¼ lb.

3-Transistor

## INTERCOM

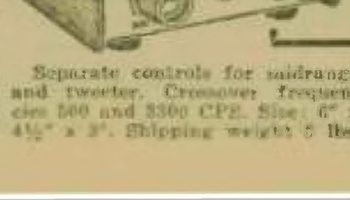
★ Battery Operated ★ Includes Wire



No. AM-241 $11.81

Operates on one standard, self-contained battery (included). Sub-station can call master even when master is turned off, saves battery life. Complete with battery and 60 feet of 2 conductor wire. Size: 2⅝" x 4-6/8" x 1-6/8". Shipping weight 3 lbs.

## 3-WAY Speaker Crossover



No. VC-208 $8

Separate controls for midrange and tweeter. Crossover frequencies 500 and 3300 CPS. Size: 6" x 4½" x 3". Shipping weight 5 lbs.

SALE!

Superior
## AC VOLTMETER
★ JUMBO METER
★ Mirrored Scale—Made In U.S.A.

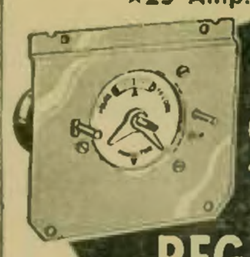



$3.99 No. TE-176
REG. ~~$5~~

Large full-view meter with big clear numerals. This fine meter is made even more accurate by a mirrored scale. Features these most often used ranges: 0-150 volts AC, 0-300 volts AC, and 0-750 volts AC. Meter size 3⅝" wide x 3¼" high. New streamlined case has four standard pin jacks on front panel for quick and easy connection. Size: 3⅝" wide x 5¼" high x 2½" deep. Shipping weight 1 lb. 12-pc. Test Load Kit for Above Meter No. W-348 $1.79

SALE!

GE—Telechron—International Register
Automatic
## TIME SWITCH
★25 Amp. Contacts



No. SW 249
$1.49
REG. ~~$1.99~~

On-Time is adjustable in intervals of 15 minutes up to 5½ hours. Size of basic timer mechanism is 4½" x 3¼". Size and style of face plate may vary from illustration. Switch contacts are rated at 25 amps at 230 volts. Motor is for 110-125 volts AC 60 cps. Less knobs. Shipping weight 2¼ lbs.

BUY NOW!
Photo Electric
## CONTROL CHASSIS
★ Cadmium Sulfide Photo Cell ★ For 117 Volt



No. SW-284
$2.49

★ Sigma Relay

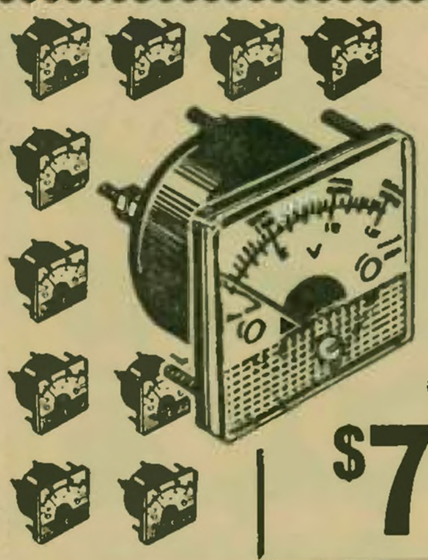
Can be easily adapted to turn yard lights and advertising signs on at dark and off in the day time. Sensitivity can be adjusted by sliding screen over the photo cell. Features a genuine Sigma relay with double break S.P.S.T. contacts. Units are used but in excellent working condition. Completely assembled ready to connect and use. Appearance may vary slightly from illustration. Size, 5" dia. x 2" above chassis. For 110-125 volts AC, 60 cps. Shipping weight 2 lbs.

## PARTS VALUE
Photo Electric CONTROL CHASIS

A wonderful buy of parts, relays, controls, etc. All parts OK but units not operable. Buy now & save. Used. Shipping weight 4 lbs.

BUY NOW!

99¢ No. X-895
$1.32 in 763 Cat.



2¼" Universal
## PANEL METER KIT

11 Meters In One

The following 11 meters can be made with this kit:

| | | |
|---|---|---|
| AC VOLTMETER | | 0-15V |
| " | " | 0-150V |
| " | " | 0-300V |
| DC MILLIAMMETER | | 0-1MA |
| " | " | 0-50MA |
| " | " | 0-100MA |
| " | " | 0-500MA |
| DC VOLTMETER | | 0-15V |
| " | " | 0-150V |
| " | " | 0-300V |
| " | " | 0-600V |

No. ME-119 ONLY $7.99

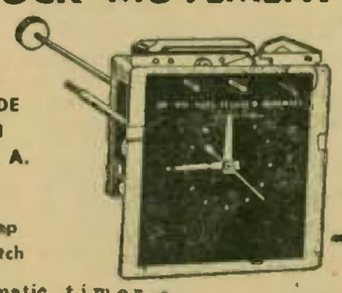
Olson brings you the most unusual meter kit ever offered. Basically the meter is a precision 2-jewel 0-1 ma. movement. It comes complete with all resistors, adaptor boards, meter faces, hardware and instructions to make 11 different panel meters. Olson even supplies the screwdriver to put it together. With the simple step-by-step instructions included you can make almost any meter you need. Meter can be changed from one type to another quickly and conveniently. Shipping weight 2 lbs.

Extra Meter for Above Kit, No. ME-115 $4.95

L. H. Hatchell Jr., 205 Elliott St., Chester, S. C., wins choice of merchandise worth $5 from Olson's "Treasure Hunt." See back cover for instructions.

Telechron
## CLOCK MOVEMENT

★ MADE IN U. S. A.




Automatic timer switch can be attached to any radio or appliance. Turns radio or appliance on at preset time. Sleep switch can be set to turn off appliance after 60 minutes. Ideal for radios so you fall asleep to music. Switch rating 15 amp at 115 volts. Motor operates on 117 volts AC, 60 cps. Shipping weight 3 lbs.

No. X-944 $2.49

Heavy Duty
## BLOWERS
★ TORRINGTON FANS
★ HIGH SPEED MOTORS

Ideal for ventilating or cooling all types of electronic equipment such as ham gear or commercial broadcast equipment. Write for special large quantity prices.




## HEAVY DUTY BLOWER
★ 60 Cubic Ft. Per Min.

For use where continuous circulation of air with minimum noise is required. Two pole. Shaded-pole motor for cool, efficient, continuous duty. Size: 6½" x 6". 110-125 v. AC 60 cps. Shipping weight 5 lbs.

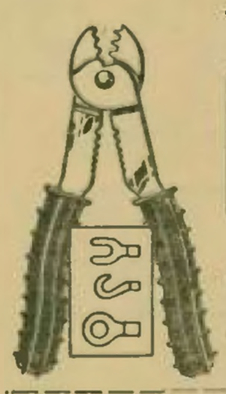
NO. MO-79 $7.95

## DUAL BLOWER
★ 120 Cubic Ft. Per Min.

A versatile blower unit for use where quiet circulation of a large volume of air is required. Features cool running, two pole motor. Size: 10⅛" x 6¼". Flange mounting. 110-125 v. AC 60 cps. Shipping weight 9 lbs.

NO. MO-78 $10.95

## CRIMPING TOOL
WITH TERMINALS



★ Cuts Wire
★ Strips Wire
★ Crimps Terminals

$1.49 No. TL-369
3 for $4.00
Lots of 12, Ea. $1.25

Made of tempered tool steel, chrome plated with insulated handles. Size: 8⅛" long. Includes generous assortment of terminals. Shipping weight ½ lb.

Package of 41 Assorted Terminals No. TL-376 Per Pack $1.00

## Portable LAMP

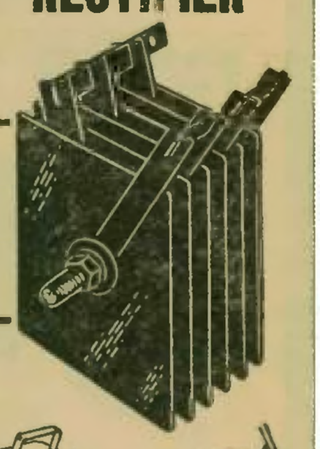
6 FT CORD



Made in U.S.A.
No. X-617
$1.72
3 for $5

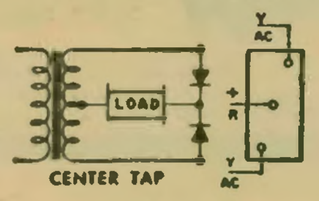
The handiest lamp ever. Just clamp onto anything. Position it over your work area. Move it about as you move. Has 4½" dia. reflector and 6 ft. A.C. cord. Shipping weight 2 lbs.

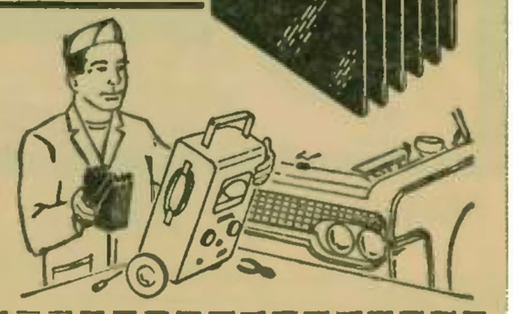
IOR INTERNATIONAL RECTIFIER
## BATTERY RECTIFIER
★100 AMP.
★FOR 6 and 12 VOLT



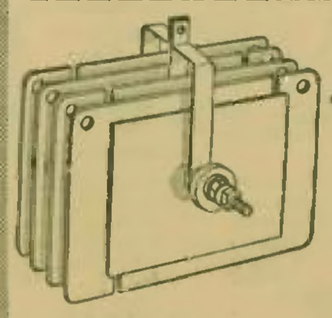
Mfg. Type No. JD4346B. Exact replacement for all fast charge 6 and 12 volt battery chargers. Delivers up to 100 amps. Brand new, heavy duty selenium rectifiers made by a nationally famous manufacturer. Size of plates 6" x 6" x 3" thick. Equipped with mounting stud. Shpg. wt. 4 lbs.

No. X-499
$14.47
3 for $40.00
12 @ $12.50 Ea.



Ideal for Replacement or "Do-It-Yourself" Units

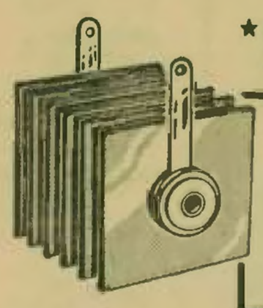


## 100 AMP BATTERY RECTIFIER
FOR 6 AND 12 VOLT

No. RE-68
$8.93
3 for $24

Similar to above except has smaller plate area. Brand New Factory Boxed. Size: 4¼" x 6" x 3". Shpg. wt. 3 pounds.

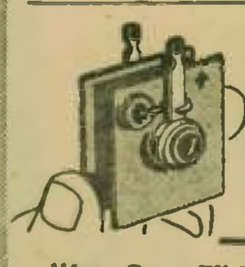
500 MA Selenium
## RECTIFIER



★ Fills 90% of All Needs

No. RE-67
89¢
3 for $2.50
10 @ 73c ea.

New tri-density selenium gives greater current output and smaller physical size. (Only 1⅜" x 1¼" x 1"). Individually factory boxed. Shipping weight ½ lb.



Silicon
## "UNISTAC"
$1.68 No. RE-34

Mfgrs. Type: TV-500. RMS A.C. Input: 280 Volts. Peak Inverse Voltage: 400 Volts. Output D.C. Current: 750 MA. Size: 1½" x 1½" x 1". Shipping weight ⅓ lb.

Warren O. Fieber, RR 1, Bonilla, S. Dak., wins choice of merchandise worth $5 from Olson's "Treasure Hunt." See back cover for instructions.

Hi-Density
## SELENIUM RECTIFIERS



★ Provide More Power in ½ The Size
★ RMS A.C. Input 130 Volts

Mfgrs: Type: TO65/075 Size: 1⅛x1⅛x½"
Replaces: Any Rectifier up to 75 MA
Shipping weight ¼ lb.
No. RE-35 Ea. 44c

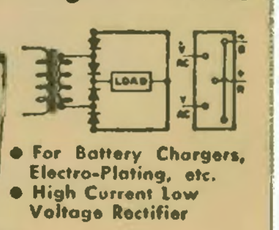
Sarkes Tarzian
## SILICONE DIODE



1.5 amp. 200 PIV. AC RMS 140. ⅛" dia. x ¾" deep. With 1½" leads. Shpg. wt. ¼ lb.
2 for $1.00
No. RE-79 Ea. 59c

## Selenium Bridge Rectifiers






● For Battery Chargers, Electro-Plating, etc.
● High Current Low Voltage Rectifier

Mfgrs. Type: M1B
A.C. Input Voltage: 25 volts
D.C. Current Output: 1.2 amps
Size: 2"x2"x3¾"
Shpg. wt. ¼ lb.
No. RE-2, 3 for $4.50 $1.69

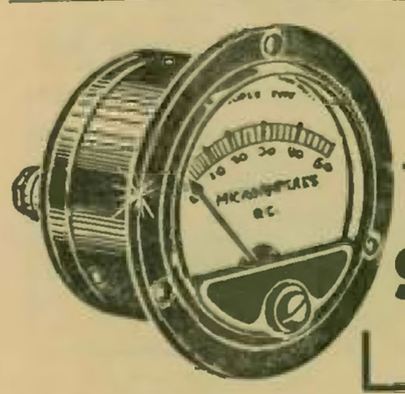
Olson
## PANEL METERS
★ JEWELED FOR EXTENDED LIFE!




A complete line of high quality meters at a "value-plus" price. Each meter is carefully packed complete with mounting and operating instructions. These fine meters can be used whenever a rugged compact meter is required. Order now! Shipping weight ¼ lb ea.

| TYPE | STYLE | SIZE | RANGE | INT. RES. | STK. NO. | PRICE |
|---|---|---|---|---|---|---|
| DC Microammeter | A | 1⅝x1⅝x1⅞" | 0-50 DC μa | 900 ohms | ME-100 | $5.95 |
| | A | " | 0-500 DC μa | 195 ohms | ME-101 | 4.95 |
| DC Milliammeter | A | " | 0-1 DC ma | 75 ohms | ME-97 | 3.95 |
| | A | " | 0-50 DC ma | 3.1 ohms | ME-98 | 3.95 |
| | A | " | 0-100 DC ma | 3.1 ohms | ME-99 | 3.95 |
| DC Ammeter | A | " | 0-20 DC amp | 3.1 ohms | ME-96 | 3.95 |
| DC Voltmeter | A | " | 0-15 DC V. | 15K ohms | ME-102 | 3.95 |
| | A | " | 0-150 DC V. | 150K ohms | ME-103 | 3.95 |
| | A | " | 0-300 DC V. | 300K ohms | ME-104 | 3.95 |
| AC Voltmeter | A | " | 0-15 AC V. | 15K ohms | ME-105 | 4.50 |
| | A | " | 0-150 AC V. | 150K ohms | ME-106 | 4.50 |
| | A | " | 0-300 AC V. | 300K ohms | ME-107 | 4.50 |
| "S" Meter | A | " | 500 μa | XXXX | ME-108 | 4.50 |
| | B | 1¹⁵⁄₁₆x1¼x1⅛" | 500 μa | | ME-109 | 4.95 |
| "VU" Meter | A | 1⅝x1⅝x1⅞" | 100 ma | 3.9K ohms | ME-110 | 5.95 |
| | B | 1¹⁵⁄₁₆x1¼x1⅛" | 100 ma | 3.9K ohms | ME-111 | 5.95 |
| FM Tuning Meter | C | ⅞ x ⅝ x 1⅝₆" | XXXX | 1.3K ohms | ME-112 | 3.95 |

## 0-6 R F AMMETER
G. E. and Westinghouse



No. ME-127
$2.99

★ Thermocouple Type
★ 2" Diameter

Ideal for antenna ammeter, audio or RF power meter, etc. D'arsonval movement with jeweled bearings. Easy to read black dial with white scale. Black bakelite case. Size 2½" dia. x 1¼" deep. Shipping weight 1 lb. Quantity limited, order today.

## VOLUME CONTROL KIT



No. VC-274
6 Kits, $5
Kit of 12
99¢

Brands such as Centralab, Mallory and others. Various shaft lengths and diameters. Some include switches. Carbon and wire wound types. Shipping weight ¼ lb.

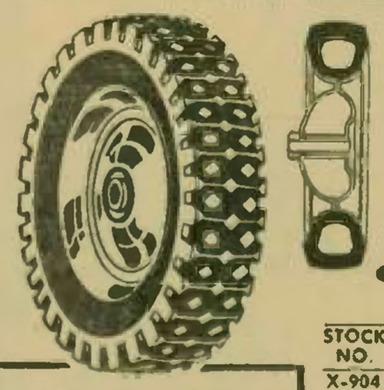
## Weston 0-1 MA. Meter
Model 406 ★2½" dia.



$3.98 No. ME-122

Genuine Weston Meter. Model Number 506. Scale 0 to 1 ma. Internal resistance 26 ohms. By adding appropriate resistors you can make any range meter you need. Mounts in 2⅛" round hole. Shpg. wt. 1 lb.

## 6"–7"–8" WHEELS
★ ALL METAL OFFSET WHEELS
● Semi-Pneumatic ● Deep Tread



7" WHEEL
AS LOW AS 72¢ EACH

SELF-LUBRICATING BEARING

| STOCK NO. | BEARING BORE | DIAMETER & TIRE WIDTH | HUB LENGTH | PRICE EACH | LOTS O 4, EAC |
|---|---|---|---|---|---|
| X-904 | ½" | 6"x1½" | 1½" | .89 | .79 |
| X-903 | ½" | 7"x1½" | 1⅜" | .72 | .72 |
| X-898 | ½" | 8"x1½" | 1⅜" | .99 | .88 |

STEEL BALL BEARING

| STOCK NO. | BEARING BORE | DIAMETER & TIRE WIDTH | HUB LENGTH | PRICE EACH | LOTS O 4, EAC |
|---|---|---|---|---|---|
| X-905 | ½" | 6"x1½" | 1½" | $1.29 | $1.17 |
| X-906 | ½" | 7"x1½" | 1¾" | 1.39 | 1.25 |
| X-907 | ½" | 8"x1½" | 1½" | 1.49 | 1.37 |

Shipping Weight 2 lbs. Ea.

SALE!

## Insulated TUBE PULLER

Straight Type



No TL-294

**50c**

REG ~~99¢~~

7½" long for cramped areas. ¼ lb.

SALE!

## Phono Plug ADAPTORS



No. AS-470
KIT of 3

**50c**

REG ~~99¢~~

Kit of 3 inline adaptors to convert RCA type phono plug to standard ¼" phone plug. Size: ½" dia. x 2⅞". ¼ lb.

SALE!

## Tube SOCKETS



No. AS-479
KIT of 6

**50c**

REG ~~99¢~~

Kit of 6. Consists of 3 each miniature 7 pin and 9 pin tube sockets. Shipping weight ¼ lb.

SALE!

## Electrician's TAPE

66-ft. roll



No TL 268

**50c**

REG. ~~99¢~~

¾" plastic insulating electricians tape. Shipping weight ¼ lb.

SALE!

## GRILLE CLOTH

6-Piece Kit

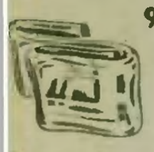


No. K-104

**50c**

~~99¢~~ In 563 CAT

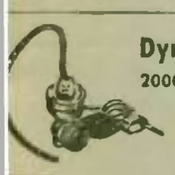
Different patterns and sizes in mahogany and blonde from 5" x 10" to 12". Shipping weight ¾ lb.



### 9'x12' Dropcloth 66c

No. TL-253

Sturdy, seamless, transparent plastic can be used for table spread to protect indoor and outdoor furniture. ¼ lb.



### Dynamic Earphone 66c

2000 Ohms No. PH-77

3 ft. of cord and plug. Response to 4,000 cycles. Shipping weight ¼ lb.



### 7 Pin Sockets 66c

Kit of 15 No. AS-570

Kit of 15 — 7 pin miniature tube sockets. Wafer type construction. Shipping weight ¼ lb

# YOUR CHOICE 66¢

ALL SENSATIONAL BARGAINS!

### 2% Precision Resistors 66c



Kit of 25 No. R-52

Each marked with resistance. Values from low, low ohms to many million ohms. Shipping weight ¼ lb.

### Push Switches 66c



Kit of 5 No. AS-473

Five S.P.S.T. miniature push switches, spring return. Size: ⅝" x ⅞". Shpg. wt. ¼ lb.

### Inline ¼" Jacks 66c



Kit of 3 No. PL-61

Inline ¼" phone jacks. Fit all standard ¼" phone plugs. Size: ⅝" x 1½" long. ¼ lb.

### Mike Transformer 66c



No. T-348

Miniature mike transformer. Primary 5 ohm, secondary 300 ohms with 30 ohm tap. Size: ¾"x⅝"x½". ¼ lb.

### Assorted Knobs 66c



★ Kit of 25, No. AS-482

25 assorted knobs for radio and TV replacement. Variety of styles and colors. Shipping weight 2 lbs.

### Microswitches 66c

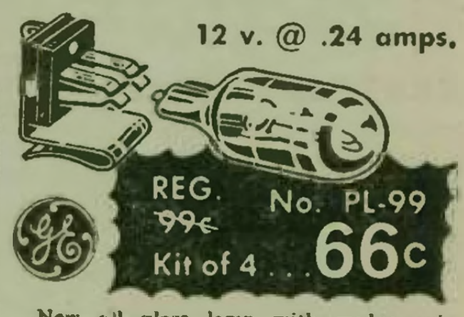


KIT of 5 No. SW-166

Kit of 5. May be assorted. Shipping weight ¼ lb.

### NEW! Wedge Grip LAMP & SOCKET

12 v. @ .24 amps.

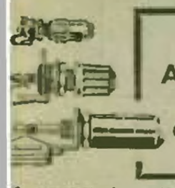


REG. ~~99¢~~ No. PL-99

Kit of 4 . . . 66c

New all glass lamp with wedge grip contacts. GE number 158 bulb. Ideal for hard to reach places. Shipping weight ¼ lb.

### Miniature PLUGS & JACKS



No. AS-442

6 Pairs

**99c**

6 assorted pairs. Jacks are closed circuit type. Ideal for transistor earphones and receivers. ¼ lb.



# YOUR CHOICE 99¢

4 FOR $3.50

### Knife Switches 99c

Kit of 5 No SW-155

Double pole, double throw knife switches with screw terminals. Size: 1½" x 2½". ¾ lb.

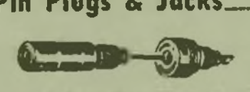
### Speaker Control 99c



No SW-133

Reduces volume of one speaker while gradually increasing volume of other speaker. With hardware. ¼ lb.

### Pin Plugs & Jacks 99c

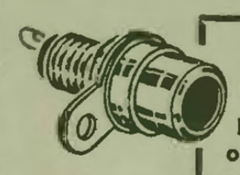


4 Pairs No. PL-70

2 red, 2 black.

Knurled nut tightens against wire making soldering unnecessary to pin plugs. Jacks mount in ⅝" hole. ¼ lb.

### Phono PIN JACKS



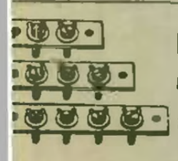
No. AS-441

Kit of 6

**99c**

Kit of 6. Takes RCA type pin plug. Mount on single ¼" hole. Plated. Size: ⅜" x ⅜". Shipping weight ¼ lb.

### Lug Terminals 99c



Kit of 13 No. AS-438

Size: ⅝" x ⅜" lengths: 1½" 2¼" & 2⅝". ¼ lb.

### TOGGLE SWITCHES 99c



Kit of 3 No. SW-154

(SPST and DPDT). Rated @ 3 amps 125 volts. Size: 1¼" x ¾". ¼ lb.

### BOTTLE LIGHT 99c



No. X-867

Make your own lamp. Socket, cord, plug and switch. Press-on fitting fits snugly into bottle. ¼ lb.

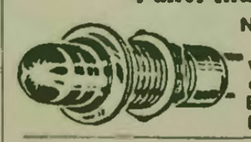
### Phone Plug Sets 99c



2 Pairs No. PL-91

Two pair of male and female ¼ inch phone jacks and plugs. Color coded black and red identification. ⅓ lb.

### Panel Indicators 99c



No. PL-65—KIT OF 2 (1 red, 1 green) with 6 volt bulbs. ¾" dia. x 1" long. ¼ lb.
Extra Lamps, No. PL-66, 10 for 99c

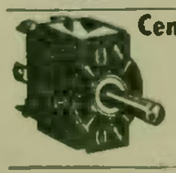
### Terminal Strip Kit 99c



No. AS-506

48 Pieces, 12 ea. 1 through 4 lugs. Solder type with mounting lug. ¼ lb.

### Center-Off Toggle 99c



Kit of 2 No. SW-156

DPDT center off toggle switches. Rated 6 amps @ 125 volts or 3 amps @ 250 volts. Size: ¾" x 1⅝" x ⅞". ¼ lb.

### Speaker Faders 99c



Kit of 3 No. VC-231

Permits control of both set speaker and remote speaker. 1⅛" diameter x 1" long. With instructions. Shipping weight ½ lb.

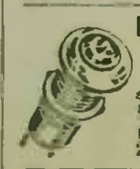
### Phone Plug Adaptors 99c



Kit of 2 No. AS-471

Convert standard ¼" phone plugs to RCA type phono plug. Size: 1" diameter x 2⅛". ¼ lb.

### NEON PILOT LIGHTS 99c



Kit of 3 No. KB-90

With neon lamp, jewel and socket. Operates on 115 volts. ¾" dia. x 1⅛". Requires dropping resistor 100,000 ohms. 2-Red, 1-Yel. Shpg. wt. ¼ lb.

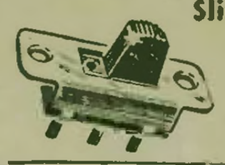
### Calibrated Knobs 99c



Kit of 4 No. KN-14

Grey finish with black numerals. Dial diameter: 1½" Fits ¼" shaft. ¼ lb.

### Slide Switches 99c



Kit of 6 No. SW-153

Assorted SPST, SPDT, DPST and DPDT. 1 amp. 125 volts. Size: ½" x ⅞" x 1¼". ¼ lb.

### Switches & Controls 99c



Kit of 12 No. AS-485

12 assorted selector switches and volume controls. Shipping weight 2 lbs.

### PLUGS & JACKS 99c



Kit of 4 pairs No. PL-63

Kit of 4 pairs banana plugs and jacks. 2 red pairs and 2 black pairs With soldering lug. Shipping weight ¼ lb.

### Pilot Lights 99c



Kit of 5 No. PL-64

Jeweled pilot light assemblies with bayonet base sockets. 2 with red jewels, 2 with green and 1 amber. ¼ lb.

### Clock Radio Knobs 99c



Kit of 25 No. KN-12

Various colors for all makes and models of clock radios. 25 assorted colors. ¼ lb.

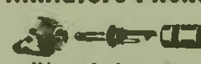
### ALLIGATOR CLIPS 99c



★ Kit of 14 No. AS-447

Kit of 14 insulated Alligator clips, 7 red clips and 7 black clips. Asst. sizes. ¼ lb.

### Miniature Phone Plugs & Jacks 99c



3 PAIRS No. AS-642

Kit of 3 pairs of miniature, shielded, phone type plugs, and shorting jacks. Ideal for remote speaker hookups, small microphones and many other uses. ¼ lb.

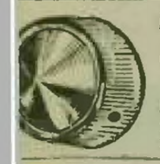
### 15-Ohm Earphones 99c



Kit of 2 No. PH-36

Response 50 to 4,000 CPS. Size: ⅝" x ¾"diameter. ¼ lb.

### MATCHED KNOBS 99c



No. KN-8 Kit of 5

Matched set of 5 white knobs with polished gold inlay. Set screw type for ¼" dia. shaft. ¼ lb.

### Clip Leads 99c



Kit of 10 No. X-804

10 leads 14" long with insulated miniature alligator clips attached one to each end. ½ lb.

### Transistor Sockets 99c



Kit of 10 No. AS-444

Takes transistors with three contacts in line or triangle (JEDEC). Size: ⅜" x ⅛" ½ lb.

### Phone Plugs 99c



SHIELDED

Kit of 2 No. AS-477

Kit of 2 shielded standard ¼" phone plugs. Plated all metal barrel. Screw terminals. ¼" shaft. Barrel 1⅝" x ½". ¼ lb.

### Jeweler's Screwdrivers 99c



No. TL-118

Five-piece set. 7 blades measuring .080, .070, .055, .040 and .025. ½ lb.

### Dial Cord 99c

100 Feet No. X-182

Finest nylon glass core. Standard thin .028 dia. ¼ lb.

### AUDIO CABLE KIT 99c



No. AS-481

Consists of 3' audio lead with pin plug, other end tinned and stripped; 6' audio lead with pin plugs; 1 dual inline jack. ¼ lb.

### ¼" PHONE PLUGS Per Kit 99c



★ KIT OF 4

No. X-253 4 for $3.50

Plugs into ¼" phone jack. ¼ lb.

### 6" Diagonal Cutters 99c



No. TL-7

6-in. heavy duty; cuts the finest to the toughest wire. Shpg. wt. ¼ lb.

### Plugs & Sockets 99c



6 Pairs No. PL-68

Assorted colors, ivory, red and black. Plug size: ¾" x ½". Receptacle. ½"x½". ¼ lb

### FLEXIBLE "Y" ADAPTOR KIT 99c



Kit of 2, No. W-423

Both have 1 male and 2 female connections with 3¾" length 5⅝". ¼ lb.

flexible leads. Total

### ¼" PHONE JACKS 99c



★ Kit of 5 No. AS-445

Open and closed circuit. Takes any standard ¼" phone plug. ½ lb.

### Needle Nose Pliers 99c



6" Bent

No. TL-247

Nose is bent 90° to get into small spaces and corners. ¼ lb.

### A.C. Chassis Sockets 99c



Kit of 8 No. X-803

Bag of 8. Rated for 117 volts, 10 amps. Mount in ½" x 15/16" hole. ¼ lb.

### Dual Inline Jacks 99c



Kit of 4, No. AS-476

Dual inline phono jacks allow connection of two audio cables having phono pin plug ends. Size: ½" diameter x 1½" long. ½ lb.

### "Y" Adaptor Kit 99c



Kit of 2 No. X-817

One has 3 female connections, other has 2 female and 1 male connection. For many hi-fi uses. Size: 1⅝"x1⅜". ⅛ lb.

### 6" Needle Nose Pliers 99c



No. TL-5

With side cutters. For Radio and TV repair. 6 inches long. ¼ lb.

### A.C. Plugs 99c



Kit of 12 No. PL-58

Brown, black and grey rugged plugs. Rated for 117 volts 10 amps. ¼ lb.

### Battery Holders 99c



Kit of 10 No. BA-55

3 penlite, 3 miniature penlite, 1 flashlight and one 4 penlite cell holders. Shipping weight ½ lb.

### Insulating Tape 99c



★ Two 33' Rolls No. TA-5

2 rolls of ¾" wide, self-sticking plastic insulating tape. 2 colors: one roll red, one roll black. ⅛ lb.

### Insulated Tube Puller 99c



Bent Type
No. TL-295

7½" long. Removes tubes from cramped areas. Shpg. wt. ¼ lb.

### 12 A.C. Plugs 99c



6 Sets No. W-349

6 male and 6 female sockets. Grey bakelite. 10 amps, 117 Volts. ½ lb.

### Loopsticks 99c



Kit of 3
No. L-75

Kit of 3. All directional radio antenna. Pulls in distant radio stations with remarkable ease. ½ lb.

### Phono Pin Plugs 99c



Kit of 5 No. PL-57

All metal. New design makes soldering easy. Size: ⅝" diameter x 1⅝" long. ¼ lb.

### Goodyear Pliobond 99c



No. TL-276

Cements anything, metals, woods, glass, fabrics, etc. Also can be used as a liquid "Spaghetti." ½ pint can. ½ lb.

### PENLIGHT BATTERY HOLDERS 99c



Kit of 3 No. BA-91

Easy snap together construction. One each 4, 6 and 8 cell holders ¼ lb.

### Phono Pin Plugs & Jacks 99c



3 Pairs
No. AS-440

3 plugs and jacks for making audio connections. Size: ⅜" diam. x 1⅜" long. ½ lb.

# Close-Outs

**SPEAKER ENCLOSURE**, for 12" speaker. Slim-line design. Size: 25" x 19" x 10½". Fiber glass lined interior. Shipping weight 20½ lbs.
No. CA-251 Walnut ---------- $14

**RCA 6" PM SPEAKER**, extra heavy duty magnet for greater power capacity. 3 lb.
No. S-536 ---------- $1.49

**ELECTROLYTIC CAPACITOR**, can type Twist prongs. 15 + 15 @ 350 volts. ¼ lb.
No. C-927 (89c in 162 Cat.) ---- 5 for $1

**FUSE KIT**, 6 assorted fuses. Slow blow, ¼ lb.
No. FU-7 (99c in 563 cat.) ---- 76c

**UTAH 8" SPEAKER**, 10-oz. magnet. 1¾" voice coil. Power capacity 10 watts. Response: 75-9,000 cps. 8 ohms. Shipping weight 4 lbs.
No. S-504 (Was $9.95 in 763 cat.) $5

**VERTICAL OUTPUT TRANSFORMER.** Primary resistance 300 ohms. Secondary resistance 300 ohms. Size: 2½" x 3⅝" x 1⅞". Shipping weight 2 lbs.
No. S-337 ---------- 39c

**DYMO-INDUSTRIAL TAPEWRITER.** Uses ½" wide tape. Makes raised letters on self-sticking vinyl tape. Includes a role of tape. (Was $39.95 in 563 cat.)
No. TL-400 ---------- $24.00

**10" PM SPEAKER.** Ideal for replacement applications or as extension on radio or TV. 3.2 ohm v.c. Shpg. wt. 2 lbs.
No. S-587 ---------- $3.49

**AC SOCKETS.** Kit of 10 Snap-in AC Sockets Size, ¾" x 1⅜". Rating 15 amp. at 125 volts. Shpg. wt. ½ lb.
No. KB-154 ---------- $1

**TELEPHONE DIAL.** Standard dial as removed from telephone. Many applications for the experimentor. Shpg. wt. ½ lb.
No. PH-41 ---------- $1.49

**GENERAL ELECTRIC NE-2, Neon Lamp.** Requires 50,000 OHM Resistor for 117 Volt operation.
No. PL-51 100 for $5.88 Pkg. of 15 $1

**TV LEAD-IN INSULATORS,** 3½" length with strap to fasten to mast.
No. X-260 ---- pkg. of 25 $1

**NEON INDICATOR LAMPS,** kit of 10 snap-on neon indicators. Mounts in ⅝" x ⅜" hole. 117 volts AC. 1 lb.
No. AS-811 ---------- $1

**PILOT LAMP SOCKETS,** kit of 20 standard screw base pilot lamp socket. ¼ lb.
No. PL-98 ---------- 50c

**FILING KADDY,** aluminum kaddy holds supply of billing forms. Size: 10x6½". has self storing compartment. 2 lb.
No. F-2 ($3.49 in 163 catalog) ------ $2

**FILTER CONDENSER,** can type with twist prongs. 500 + 250 + 50 @ 16 volts DC. Ideal for low voltage power supplies. Shipping weight ½ lb.
No. C-904 ---------- 6 for $1

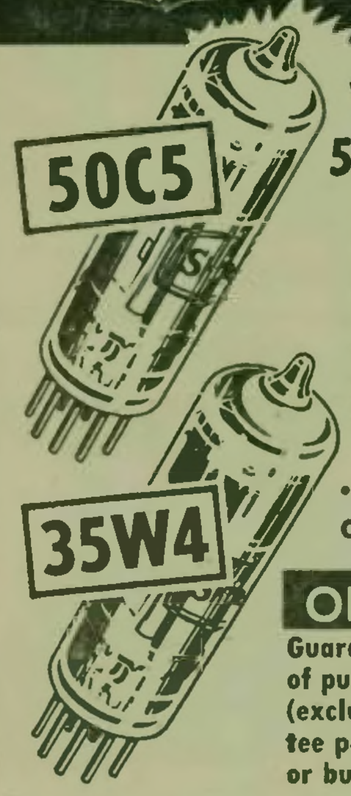
**MALLORY ½ WAVE RECT.,** selenium AC input 130 volts. DC output 300 MA. ½ lb
No. RE-52 (69c in 761 cat.) ---3 for $1

**MALLORY ⅛ WAVE RECT.,** selenium AC input 175 volts. DC output 250 MA. ½ lb.
No. RE-54 (59c in 761 cat.) ---4 for $1

**ALPHA HOOK-UP WIRE,** 1000 ft. on metal reel. 22 gauge solid. Rayon, push-back insulation. Shipping weight 3 lbs.
No. W-514 ---------- $3.50

**FILTER CONDENSER** 60-40 MFD x 150 v. ½ lb.
No. C-996 (Tubular type) ---- 4 for $1

# Shield TUBES




MADE IN U.S.A.

YOUR CHOICE
50C5 or 35W4

# FREE

. . . with each purchase of any 8 Shield Brand Tubes!

## ONE YEAR GUARANTEE

**Guaranteed for a full 12 months from the date of purchase. We will replace any defective tube (exclusive of freight charges) within the guarantee period. This does not apply to broken tubes or burned out filaments.**

| TUBE TYPE | PRICE EACH | TUBE TYPE | PRICE EACH | TUBE TYPE | PRICE EACH | TUBE TYPE | PRICE EACH | TUBE TYPE | PRICE EACH |
|---|---|---|---|---|---|---|---|---|---|
| 1B3/1G3 | $ .89 | 5U4GB | $ .60 | 6BQ6 | $1.12 | 6GX6 | $ .66 | 12BE6 | .38 |
| 1J3 | .79 | 5U8 | .84 | 6BQ7 | 1.30 | 6HS8 | .82 | 12BH7 | .77 |
| 1K3 | .79 | 5Y3 | .46 | 6BS8 | 1.60 | 6J6 | .71 | 12BL6 | $ .57 |
| 1R5 | .77 | 6AB4 | .54 | 6BU8 | .70 | 6S4 | .62 | 12BQ6 | 1.36 |
| 1U5 | .65 | 6AC7 | 1.22 | 6BX7 | 1.32 | 6SL7GT | .84 | 12BY7 | .77 |
| 1X2 | .95 | 6AF4 | 1.01 | 6BZ6 | .55 | 6SN7GTB | .79 | 12BZ7 | .86 |
| 2AF4 | 1.14 | 6AG5 | .70 | 6BZ7 | 1.20 | 6T8 | .98 | 12D4 | .82 |
| 2CY5 | .71 | 6AH4 | .81 | 6C4 | .45 | 6U8 | .83 | 12DQ6 | 1.06 |
| 3A3 | .76 | 6AH6 | 1.10 | 6CB6 | .55 | 6V6 | .53 | 12SN7GT | .81 |
| 3AL5 | .46 | 6AK5 | 1.20 | 6CD6GA | 1.51 | 6W4 | .75 | 12V6 | .63 |
| 3AU6 | .56 | 6AK6 | .98 | 6CG7 | .61 | 6W6 | .80 | 12W6 | .71 |
| 3AV6 | .42 | 6AL5 | .52 | 6CG8 | .80 | 6X4 | .41 | 12X4 | .56 |
| 3BC5 | .63 | 6AM8 | .78 | 6CL8 | 1.00 | 6X8 | .97 | 13EM7 | 1.08 |
| 3BN6 | .76 | 6AN8 | .93 | 6CM7 | .80 | 7AU7 | .65 | 17AX4 | .67 |
| 3BU8 | .71 | 6AQ5 | .53 | 6CN7 | .70 | 8FQ7 | .74 | 17DQ6 | 1.06 |
| 3BY6 | .58 | 6AS5 | .96 | 6CQ8 | .92 | 12AB5 | .72 | 19AU4 | .87 |
| 3BZ6 | .56 | 6AU4 | 1.10 | 6CS6 | .68 | 12AD6 | .57 | 19T8 | 1.02 |
| 3CB6 | .56 | 6AU6 | .65 | 6CU5 | .70 | 12AE6 | .50 | 25BQ6 | 1.40 |
| 3DG4 | .85 | 6AU8 | .88 | 6CY5 | .70 | 12AQ5 | .72 | 25C5 | .58 |
| 3DK6 | .72 | 6AV6 | .53 | 6CY7 | .86 | 12AT6 | .60 | 25CD6GB | 1.52 |
| 3DT6 | .54 | 6AW8 | .90 | 6DA4 | .68 | 12AT7 | .75 | 25DN6 | 1.70 |
| 4AU6 | .64 | 6AX4 | .83 | 6DE6 | .61 | 12AU6 | .48 | 25L6 | .57 |
| 4BC8 | 1.29 | 6BA6 | .56 | 6DK6 | .59 | 12AU7 | .75 | 35C5 | .48 |
| 4BQ7 | 1.29 | 6BC5 | .62 | 6DQ5 | 2.28 | 12AV6 | .38 | 35W4 | .42 |
| 4BZ6 | .56 | 6BC8 | 1.14 | 6DQ6 | 1.05 | 12AV7 | .98 | 35Z5GT | .60 |
| 4BZ7 | 1.29 | 6BE6 | .55 | 6DT6 | .53 | 12AX4 | .85 | 50C5 | .63 |
| 4CB6 | .56 | 6BG6GB | 1.70 | 6EA8 | .67 | 12AX7 | .61 | 50EH5 | .53 |
| 5AM8 | .79 | 6BH6 | .68 | 6EB8 | .94 | 12AZ7 | .82 | 50L6 | .60 |
| 5AN8 | .90 | 6BH8 | .98 | 6EM7 | 1.08 | 12B4 | .68 | 7025 | .82 |
| 5AQ5 | .54 | 6BJ6 | .65 | 6EW6 | .57 | 12BA6 | .38 | | |
| 5AT8 | .83 | 6BK7 | .85 | 6FQ7 | .76 | | | | |
| 5BK7 | .86 | 6BL7 | 1.09 | 6GH8 | .67 | | | | |
| 5BQ7 | 1.20 | 6BN6 | .74 | 6GK5 | .82 | | | | |
| 5CG8 | .81 | 6BN8 | .80 | 6GM6 | .68 | | | | |
| 5CL8 | .76 | 6BQ5 | .59 | 6GN8 | 1.20 | | | | |

## ORDER NOW!

# BRAND NEW - FACTORY SEALED
# Westinghouse TUBES
## ONE YEAR GUARANTEE

**Brand new. All tubes are guaranteed for a full 12 months from the date of purchase. We will replace any defective tube (exclusive of freight charges) within the GUARANTEE period. This does not apply to broken tubes or burned out filaments.**

| TUBE TYPES | MFRS. LIST PRICE | YOUR COST 1 - 10 Each | YOUR COST 11 - Up Each |
|---|---|---|---|
| OZ4 | 2.40 | 1.18 | 1.01 |
| 1B3/1G3/GT | 2.90 | 1.42 | 1.21 |
| 1K3 | 2.90 | 1.42 | 1.21 |
| 1R5 | 3.05 | 1.50 | 1.28 |
| 1S5 | 2.90 | 1.42 | 1.21 |
| 1T4 | 2.90 | 1.42 | 1.21 |
| 1U4 | 2.90 | 1.42 | 1.21 |
| 1U5 | 2.65 | 1.30 | 1.11 |
| 1V2 | 2.10 | 1.03 | .88 |
| 1X2B | 3.05 | 1.50 | 1.28 |
| 2AF4-A | 4.05 | 1.98 | 1.70 |
| 2BN4 | 2.55 | 1.25 | 1.07 |
| 2CY5 | 3.05 | 1.50 | 1.28 |
| 3A3 | 3.40 | 1.66 | 1.42 |
| 3AL5 | 2.05 | 1.00 | .86 |
| 3AU6 | 2.35 | 1.15 | .98 |
| 3BC5 | 2.35 | 1.15 | .98 |
| 3BN6 | 3.85 | 1.89 | 1.61 |
| 3BU8 | 3.10 | 1.51 | 1.29 |
| 3BZ6 | 2.30 | 1.13 | .97 |
| 3CB6 | 2.25 | 1.10 | .94 |
| 3DG4 | 3.40 | 1.66 | 1.42 |
| 3DT6 | 2.20 | 1.08 | .92 |
| 3S4 | 3.20 | 1.56 | 1.33 |
| 3V4 | 2.50 | 1.22 | 1.05 |
| 4BC8 | 4.05 | 1.98 | 1.70 |
| 4BQ7-A | 4.00 | 1.96 | 1.68 |
| 4BZ6 | 2.25 | 1.10 | .94 |
| 4CB6 | 2.30 | 1.13 | .96 |
| 5AM8 | 3.55 | 1.74 | 1.49 |
| 5AQ5 | 2.20 | 1.08 | .92 |
| 5AT8 | 3.70 | 1.81 | 1.55 |
| 5B8 | 5.30 | 2.60 | 2.22 |
| 5BK7A | 3.40 | 1.66 | 1.42 |
| 5BR8 | 3.65 | 1.79 | 1.53 |
| 5CG8 | 3.35 | 1.64 | 1.40 |
| 5CL8A | 3.35 | 1.64 | 1.40 |
| 5T8 | 3.40 | 1.66 | 1.42 |
| 5U4-GB | 2.10 | 1.03 | .88 |
| 5U8 | 3.30 | 1.62 | 1.38 |
| 5V4GA | 3.50 | 1.71 | 1.47 |
| 5X8 | 3.45 | 1.69 | 1.45 |
| 5Y3GT | 1.75 | .86 | .73 |
| 6AB4 | 2.15 | 1.05 | .90 |
| 6AC7 | 5.10 | 2.50 | 2.14 |
| 6AF4-A | 4.00 | 1.96 | 1.68 |
| 6AG5 | 2.75 | 1.35 | 1.15 |
| 6AH4GT | 3.45 | 1.69 | 1.45 |
| 6AH6 | 4.65 | 2.28 | 1.95 |
| 6AK5 | 4.40 | 2.15 | 1.84 |
| 6AK6 | 2.90 | 1.42 | 1.21 |
| 6AL5 | 1.85 | .91 | .78 |
| 6AM3A | 3.45 | 1.69 | 1.45 |
| 6AN8A | 4.00 | 1.96 | 1.68 |
| 6AQ5A | 2.35 | 1.15 | .98 |
| 6AQ7GT | 4.00 | 1.96 | 1.68 |
| 6AS5 | 2.40 | 1.18 | 1.01 |
| 6AS8 | 3.80 | 1.86 | 1.59 |
| 6AT6 | 1.90 | .93 | .80 |
| 6AT8A | 3.80 | 1.86 | 1.59 |
| 6AU4GTA | 3.55 | 1.74 | 1.49 |
| 6AU5GT | 4.30 | 2.11 | 1.80 |
| 6AU6A | 2.10 | 1.03 | .88 |
| 6AU8A | 3.50 | 1.71 | 1.47 |

TUBE TYPES MAY BE ASSORTED FOR QUANTITY PRICE

| TUBE TYPES | MFRS. LIST PRICE | YOUR COST 1 - 10 Each | YOUR COST 11 - Up Each |
|---|---|---|---|
| 6AV5GA | 4.20 | 2.06 | 1.76 |
| 6AV6 | 1.65 | .80 | .69 |
| 6AW8A | 3.70 | 1.81 | 1.55 |
| 6AX4GTB | 2.65 | 1.30 | 1.11 |
| 6BA6 | 2.00 | .98 | .84 |
| 6BA8A | 3.85 | 1.89 | 1.61 |
| 6BC5 | 2.35 | 1.15 | .98 |
| 6BC8 | 4.00 | 1.96 | 1.68 |
| 6BE6 | 2.20 | 1.08 | .92 |
| 6BF5 | 3.55 | 1.74 | 1.49 |
| 6BF6 | 1.80 | .88 | .75 |
| 6BG6GA | 6.50 | 3.20 | 2.72 |
| 6BH8 | 3.65 | 1.79 | 1.53 |
| 6BJ6 | 2.60 | 1.27 | 1.09 |
| 6BK5 | 3.70 | 1.81 | 1.55 |
| 6BK7B | 3.35 | 1.64 | 1.40 |
| 6BL7GTA | 3.95 | 1.94 | 1.66 |
| 6BN4A | 2.50 | 1.22 | 1.05 |
| 6BN6 | 3.20 | 1.56 | 1.33 |
| 6BQ5 | 2.40 | 1.18 | 1.01 |
| 6BQ6GTB | 4.35 | 2.13 | 1.82 |
| 6BQ7A | 3.95 | 1.93 | 1.65 |
| 6BS8 | 3.75 | 1.84 | 1.57 |
| 6BU8 | 2.80 | 1.37 | 1.17 |
| 6BX7GT | 4.35 | 2.13 | 1.82 |
| 6BY6 | 2.50 | 1.22 | 1.05 |
| 6BY8 | 2.65 | 1.30 | 1.11 |
| 6BZ6 | 2.25 | 1.10 | .94 |
| 6BZ7 | 4.00 | 1.96 | 1.68 |
| 6C4 | 1.85 | .91 | .78 |
| 6CB6A | 2.25 | 1.10 | .94 |
| 6CD6GA | 5.80 | 2.84 | 2.43 |
| 6CF6 | 2.55 | 1.25 | 1.07 |
| 6CG7 | 2.45 | 1.20 | 1.03 |
| 6CG8A | 3.30 | 1.62 | 1.38 |
| 6CL6 | 3.75 | 1.84 | 1.57 |
| 6CL8A | 3.15 | 1.54 | 1.32 |
| 6CM7 | 2.90 | 1.42 | 1.21 |
| 6CN7 | 2.90 | 1.42 | 1.21 |
| 6CQ8 | 3.50 | 1.71 | 1.47 |
| 6CS6 | 3.35 | 1.15 | .98 |
| 6CS7 | 2.95 | 1.44 | 1.24 |
| 6CU8 | 4.15 | 2.03 | 1.74 |
| 6CY5 | 2.75 | 1.35 | 1.15 |
| 6CW4 | 4.45 | 2.18 | 1.86 |
| 6CX8 | 3.85 | 1.89 | 1.61 |
| 6DE4 | 2.85 | 1.39 | 1.17 |
| 6DE6 | 2.55 | 1.25 | 1.07 |
| 6DQ6 | 4.10 | 2.01 | 1.72 |
| 6EA8 | 3.20 | 1.56 | 1.33 |
| 6EB8 | 4.00 | 1.97 | 1.68 |
| 6EM7 | 5.10 | 2.50 | 2.14 |
| 6H6 | 4.00 | 1.96 | 1.68 |
| 6J5 | 3.65 | 1.79 | 1.53 |
| 6J6 | 2.80 | 1.37 | 1.17 |
| 6J7 | 4.95 | 2.43 | 2.07 |
| 6K6GT | 2.65 | 1.30 | 1.11 |
| 6L6 | 8.60 | 4.21 | 3.60 |
| 6L6GC | 4.20 | 2.06 | 1.76 |
| 6S4A | 2.45 | 1.20 | 1.03 |
| 6SA7 | 4.30 | 2.11 | 1.80 |
| 6SC7 | 4.20 | 2.06 | 1.76 |
| 6SJ7 | 4.15 | 2.03 | 1.74 |
| 6SK7 | 3.95 | 1.93 | 1.65 |
| 6SL7GT | 3.50 | 1.71 | 1.47 |

TUBE TYPES MAY BE ASSORTED FOR QUANTITY PRICE

| TUBE TYPES | MFRS. LIST PRICE | YOUR COST 1 - 10 Each | YOUR COST 11 - U Each |
|---|---|---|---|
| 6SN7GTB | 2.60 | 1.27 | 1.09 |
| 6SQ7 | 3.80 | 1.86 | 1.59 |
| 6T8A | 3.35 | 1.64 | 1.40 |
| 6U8A | 3.30 | 1.62 | 1.38 |
| 6V3A | 4.55 | 2.23 | 1.91 |
| 6V6GT | 2.20 | 1.08 | .92 |
| 6W4GT | 2.40 | 1.18 | 1.01 |
| 6W6GT | 2.80 | 1.37 | 1.17 |
| 6X4 | 1.65 | .80 | .65 |
| 6X5GT | 2.05 | 1.00 | .86 |
| 6X8 | 3.15 | 1.54 | 1.32 |
| 7AU7 | 2.60 | 1.27 | 1.09 |
| 7N7 | 7.55 | 3.70 | 3.16 |
| 8AW8A | 3.65 | 1.79 | 1.53 |
| 10DE7 | 3.40 | 1.66 | 1.42 |
| 12ABS | 3.50 | 1.71 | 1.47 |
| 12AD6 | 2.40 | 1.18 | 1.01 |
| 12AQ5 | 2.60 | 1.27 | 1.09 |
| 12AT6 | 1.85 | .91 | .78 |
| 12AT7 | 3.05 | 1.49 | 1.28 |
| 12AU6 | 2.15 | 1.05 | .90 |
| 12AU7A | 2.45 | 1.20 | 1.03 |
| 12AV5GA | 3.85 | 1.89 | 1.61 |
| 12AV6 | 1.65 | .80 | .69 |
| 12AV7 | 3.55 | 1.74 | 1.49 |
| 12AX4GTA | 2.70 | 1.32 | 1.13 |
| 12AX7 | 2.50 | 1.23 | 1.05 |
| 12AZ7A | 2.75 | 1.35 | 1.15 |
| 12B4A | 2.70 | 1.33 | 1.14 |
| 12BA6 | 1.65 | .80 | .69 |
| 12BE6 | 1.75 | .86 | .72 |
| 12BH7A | 3.05 | 1.49 | 1.28 |
| 12BQ6GTB | 4.45 | 2.18 | 1.86 |
| 12BR7 | 3.20 | 1.56 | 1.33 |
| 12BY7A | 3.05 | 1.50 | 1.28 |
| 12C5/12CU5 | 2.45 | 1.20 | 1.03 |
| 12CA5 | 2.85 | 1.39 | 1.17 |
| 12D4 | 2.75 | 1.35 | 1.15 |
| 12DQ6B/A | 4.20 | 2.06 | 1.76 |
| 12L6GT | 2.75 | 1.35 | 1.15 |
| 12SA7 | 4.30 | 2.11 | 1.80 |
| 12SK7 | 3.90 | 1.91 | 1.63 |
| 12SN7GTA | 2.70 | 1.32 | 1.13 |
| 12SQ7 | 3.75 | 1.84 | 1.57 |
| 12V6GT | 2.40 | 1.16 | 1.01 |
| 12W6GT | 3.00 | 1.47 | 1.26 |
| 12X4 | 1.90 | .93 | .80 |
| 17D4 | 2.75 | 1.35 | 1.15 |
| 17DQ6B | 4.20 | 2.06 | 1.76 |
| 19AU4GTA | 3.45 | 1.69 | 1.45 |
| 19T8 | 3.50 | 1.71 | 1.47 |
| 25BQ6GTB | 4.60 | 2.26 | 1.93 |
| 25DN6 | 6.80 | 3.34 | 2.74 |
| 25L6GT | 2.35 | 1.15 | .98 |
| 25Z6GT | 3.50 | 1.71 | 1.47 |
| 35C5 | 2.15 | 1.05 | .90 |
| 35L6GT | 2.40 | 1.18 | 1.01 |
| 35W4 | 1.10 | .53 | .45 |
| 35Y4 | 4.80 | 2.35 | 2.01 |
| 35Z5GT | 1.85 | .91 | .78 |
| 50B5 | 2.95 | 1.45 | 1.24 |
| 50C5 | 2.15 | 1.05 | .90 |
| 50EH5 | 2.30 | 1.13 | .96 |
| 50L6GT | 2.55 | 1.25 | 1.07 |
| 117Z3 | 4.35 | 2.13 | 1.82 |

TUBE TYPES MAY BE ASSORTED FOR QUANTITY PRICE



## NE-2
Neon Lamp
No. PL-51
**9c** Ea.
15 for $1.00
100 for $5.88

Use with dropping resister of 56,000 to 100,000 ohms, 1/25 watt. For 110-120 V. AC.

## 20 TIMES BRIGHTER!



NE-2P High Brightness Neon Lamps
No. PL-106
**15c** ea.
10 for $1.45
100 for $12.00

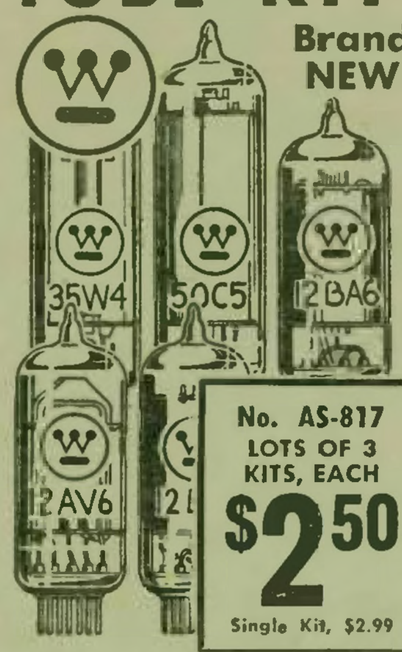
Bulb size 3/4" long with 1" wire leads. Operates on 95 to 135 volts with dropping resistor. Shipping weight 1/4 lb.



## No. 47 PILOT LAMPS
• 6-8 Volts • .15 Amps
3 Boxes for $1.75
No. PL-53, Box of 10
**59c**

## No. 51 PILOT LAMPS
• 6 Volt • .25 Amps
3 Boxes for $1.75
No. PL-89, Box of 10
**59c**

## Westinghouse 5 Pack TUBE KIT




Brand NEW

No. AS-817
LOTS OF 3 KITS, EACH
**$2.50**
Single Kit, $2.99

Each kit contains 5 brand new Westinghouse tubes—1 each as listed: 35W4, 50C5, 12BA6, 12AV6, 12BE6. Most common types for AC DC home radios. Shpg. wt. 1 lb.

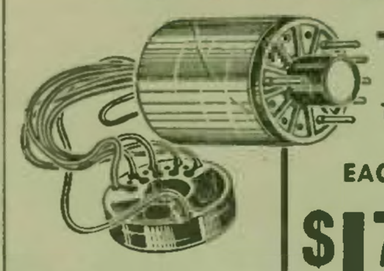
## UNIVERSAL BOOSTER



No. T-335
**99c**
4 for $3.50

Increases brightness on old or dim picture tubes. Works with series, parallel, conventional 70°, 90° or 110° tubes. Shipping weight 1/4 lb.

## 4-WAY BOOSTER

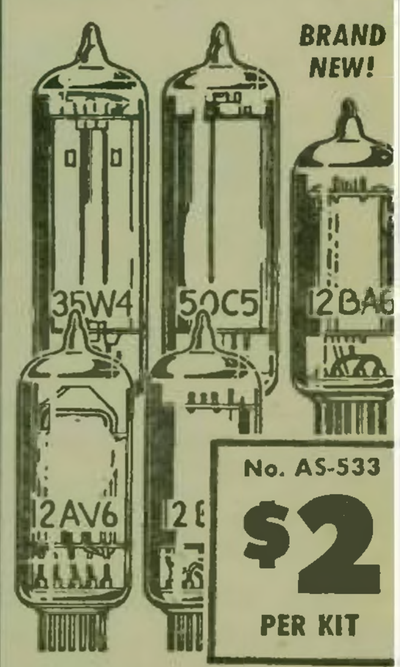


No. T-276
EACH
**$1.77**
3 for $5
12 @ $1.40 ea.

Adds months to any picture tube life. Connects between picture tube base and socket. 2 1/2" x 1 1/4". Shipping weight 1/4 lb.

## 5 Pack TUBE KIT

Olson




BRAND NEW!

No. AS-533
**$2**
PER KIT

Each kit contains 5 tubes—1 ea as listed: 35W4, 50C5, 12BA6, 12AV 12BE6. Most common types for A DC home radios. Shpg. wt. 3/4 lb.

## GIANT SURPRISE KIT

★ Tremendous Value



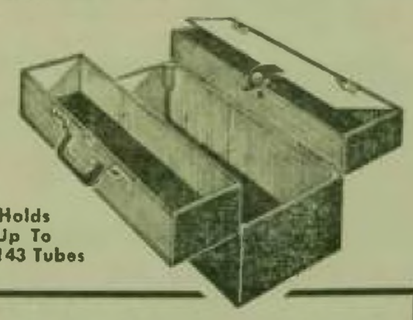

A deluxe HIGH VALUE Surprise Kit worth MANY TIMES Olson's low, low price! Kit may contain transformers, motors, relays, capacitors, resistors, controls, wire and countless other valuable components. Shipping weight 20 lbs.

No. AS-700
ONLY
**$5**

5-LB. SURPRISE KIT
Shipping Weight 7 1/2 lbs.
No. AS-137 **$1.98**

## TUBE CADDY

★ Handy Tool Compartment



★ Holds Up To 143 Tubes

**$7.97** No. CA-125
2 for $15

Durable heavy grey covering. Size: 15 3/4" W x 12 1/2" H x 8" D. Shpg. wt. 8 lbs.

R. Melzer, 362 A Chance St., Ft. Devens, Mass., wins choice of merchandise worth $5 from Olson's "Treasure Hunt". See back cover for instructions.

## SPECIAL PURCHASE TUBES

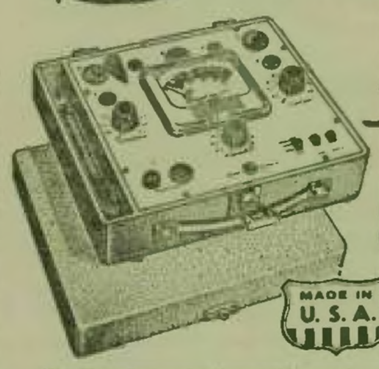


| | | | |
|---|---|---|---|
| 6SA7 | $1.02 | 12SA7 | $ |
| 6SK7 | .95 | 12SK7 | |
| 6SQ7 | .94 | 12SQ7 | |

## Portable TUBE TESTER KIT

Olson

PRE-FAB KIT CONSTRUCTION
All Major Components Premounted and Tested



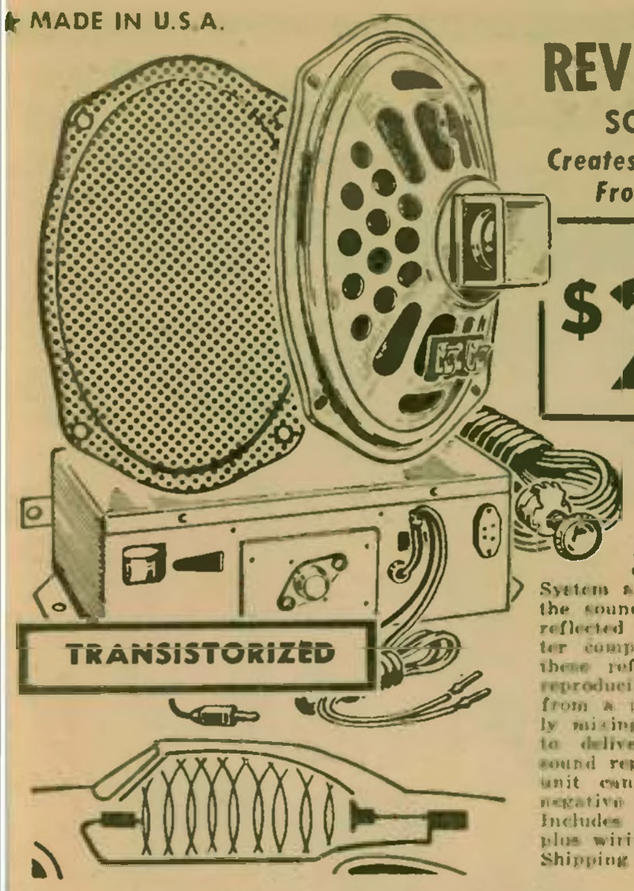
No. KB-142
**$17.95**
MADE IN U.S.A.

★ Checks All Modern Tubes
★ Checks Shorts & Leakage Between all elements
★ Fun To Build

Designed to test modern tubes in radio, TV and Hi-Fi equipment. Single rotary switch speeds operation over slow cumbersome single slide switches. Simply plug tube into appropriate socket, set filament switch for proper voltage and rotate element switch, shorts show on leakage indicator. Tube emission is read on large easy to read meter face as good, ?, bad. Olson's easy to read step-by-step instruction manual with large, clear diagrams assure professional style construction and performance. Housed in handsome, rugged carrying case with removable cover. For 110-125 volts AC 60 CPS. Size: 10 1/2" x 8 3/4" x 3 1/2". Shipping weight 6 lbs.

OLSON TUBE TESTER (NOT A KIT wired & ready to use) No. TE-153 ____ $21.95
Picture Tube Test Adaptor No. TE-154 ____ $ 3.83

★ MADE IN U.S.A.




Concert Master

# REVERBERATION SOUND SYSTEM

*Creates Concert Hall Sound From Your Auto Radio*

No. RA-577

**$26.97**

★ Use with Any 12-volt, Negative Ground Auto Radio—AM-FM

Add "life" to the sound from your car radio. Concert-Master Reverberation System adds depth and dimension to the sound by electronically creating reflected sound waves. Concert-Master compensates for the absence of these reflected waves in a car by reproducing a second set of waves from a rear speaker and acoustically mixing both sets of sound waves to deliver this new dimension in sound reproduction in your car. This unit can be added to any 12-volt negative ground radio—AM or FM. Includes 6x9" speaker with grille plus wiring harness and instructions. Shipping weight 6 lbs.

Thos. B. Morgan, 69 Brookfield, Upper Montclair, N. J., wins choice of merchandise worth $5 from Olson's "Treasure Hunt." See back cover for instructions.

12 Volt All Transistor

# AUTO RADIO

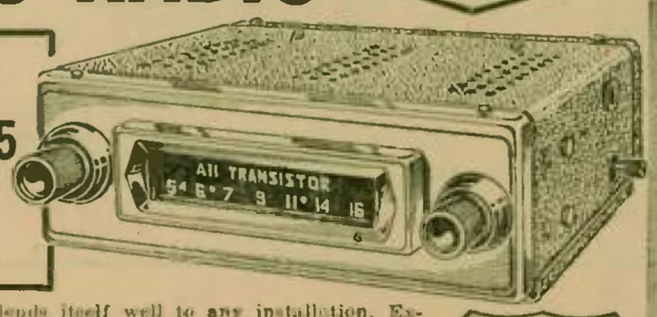
★ With Built-In 4" Speaker

★ Slide Rule Dial Tuning

No. RA-450

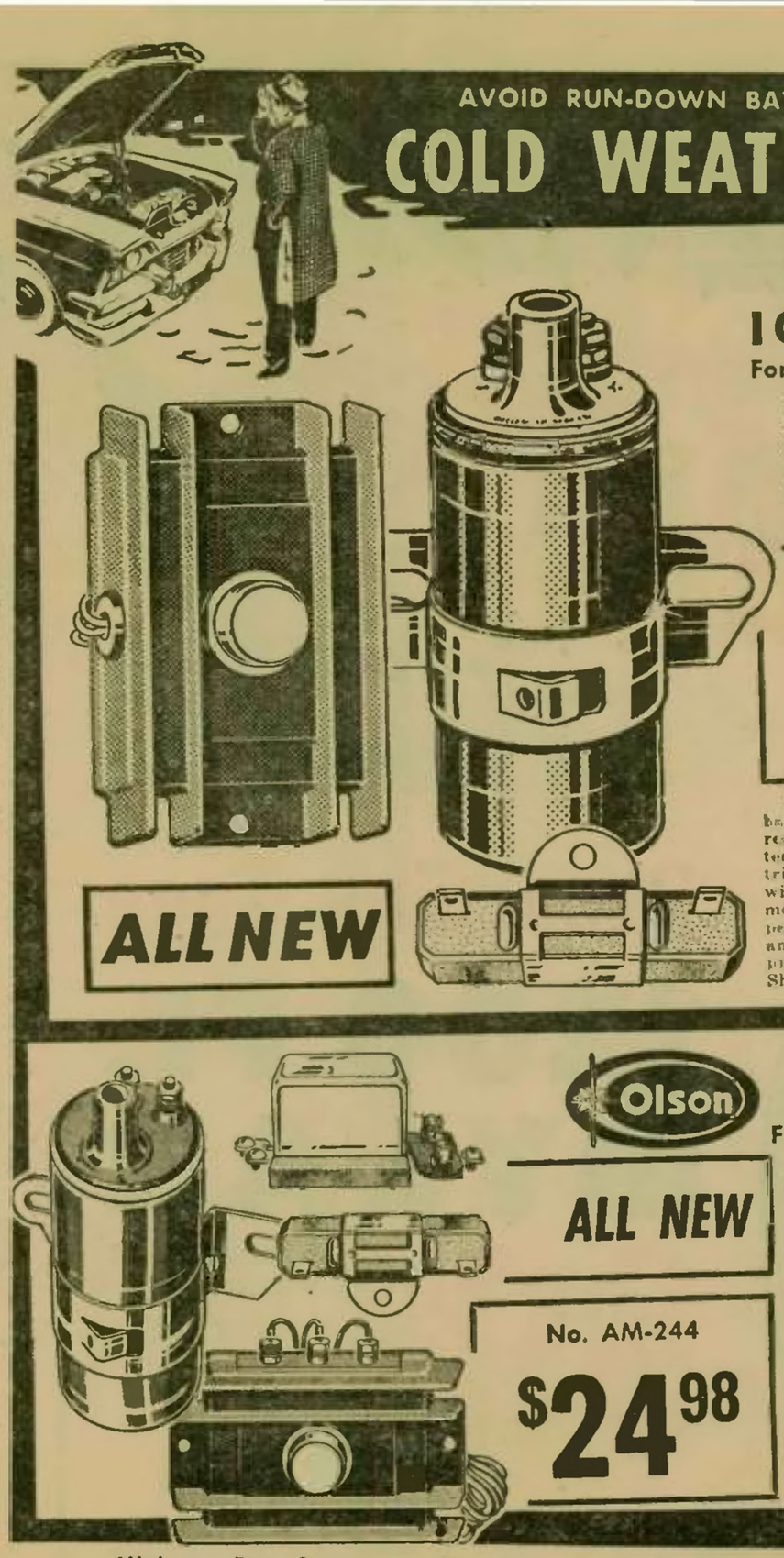
**$29.95**

3 @ $28.50 ea.




Low silhouette lends itself well to any installation. Excellent sensitivity and stability plus effective AVC assure steady clear reception in any area. All transistor circuit for greatest economy. No warm up. Radio is "instant-on." Compact size: 6½" x 2¾" x 8¾". With hardware and instructions. Shipping weight 8 lbs.

MADE IN U.S.A.



AVOID RUN-DOWN BATTERIES — *GET FAST DEPENDABLE*

# COLD WEATHER STARTING!

Olson Transistor

## IGNITION SYSTEM

For 6 & 12 V. Negative Ground Systems

★ New—Easier Installation
★ Saves Gas, Plugs and Points
★ Insures Quick Starts
★ Eliminates Misfire
★ Reduces Maintenance Costs
★ Improves Engine Performance

No. AM-243

**$17.99**

ALL NEW

For quick, easy installation on 6 volt cars with no ballast resistor and 12 volt cars with ceramic ballast resistor mounted in the engine compartment. This system is also recommended for boats, farm and industrial equipment. This advanced type ignition system will save you money in gas and tune-up costs, and most of all, it will give your engine that "just-tuned" performance every day. Features single transistor and heavy duty coil for most efficient operation. Neoprene coated wires resist oils, acids, heat and weather. Shipping weight 3 lbs.



Olson

Deluxe Transistor

## IGNITION SYSTEM

For All 12 Volt Negative Ground Systems

★ 400:1 Ratio Coil
★ Molded Ceramic Resistor
★ Heavy Duty Primary Relay

ALL NEW

No. AM-244

**$24.98**

This deluxe transistor ignition system is recommended for use on all 12 volt negative ground systems. The heavy duty primary relay eliminates by-passing or rewiring of present ignition switch circuit. This makes installation particularly easy on cars which have the ignition resistance wire built into the wiring harness. Only two wires need to be changed from original wiring. Features a single high voltage 15 ampere transistor for more reliable operation. Heavy duty 400:1 ratio coil has extremely low primary resistance which reduces coil temperature. Universal mounting bracket can be used with any car. Neoprene covered wires resist oils, acids, heat and weather. Shipping weight 6 lbs.

## TECHNICAL BOOKS

CA TUBE MANUAL. Latest edition. 480 pages. 380 receving tubes plus 200 picture tubes.
No. B-275 — $1.25

WS MAGNETIC RECORDING FOR THE HOBBYIST. How to record from phonographs, copying old records, how to record broadcasts and many more.
No. B-287 — $2.50

WS 101 USES FOR VOM-VTVM. By Robert G. Middleton. Over 150 illustrations. 116 pgs.
No. B-278 — $2.00

WS TUBE SUBSTITUTION HANDBOOK. TUB-6 96 pages of substitutions for American, industrial European receiving, picture tubes.
No. B-271 — $1.50

WS TRANSISTOR SUBSTITUTION HANDBOOK VOL. SSH-4. 6500 Direct Substitutions. 668 U. S. Substitutions for Japanese Transistors. 530 Semiconductor Diode Substitutes.
No. B-273 — $1.50

WS HOW TO READ SCHEMATIC DIAGRAMS. Contains all types of schematic symbols and diagrams including tubes, transistors, capacitors, resistors, microphones, etc. 96 pages.
No. B-280 — $1.50

WS TV SERVICING GUIDE BY SYMPTOMS. Explains trouble-shooting techniques based on analysis of symptoms. 132 pages. 8½" x 11".
No. B-281 — $2.00

WS ABC'S OF TRANSISTORS. TRA-1. By George B. Mann. Construction, basic circuits, temperature considerations, training and servicing procedures. Illustrated, 96 pages.
No. B-282 — $1.25

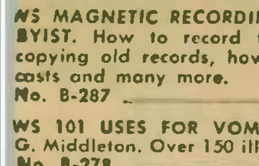
WS UNDERSTANDING CAPACITORS AND THEIR USES. CAP-1. A 96 page book that makes it easy to understand capacitors.
No. B-274 — $1.95

RADIO SERVICING COURSE. A practical radio training course for home study. The course covers basic electricity, including ohms law, coils, transformers, etc.
No. B-285 — $2.50

TELEVISION SERVICING COURSE. A complete home study course covering the basic essentials of TV servicing.
No. B-284 — $3.00

PHOTO & SOLAR CELL HANDBOOK. 112 pages of charts, data, and projects.
No. B-272 — $1.00

## 8-IN-1 TAP-A-LINE



No. W-278

**$1.47**

Up to 8 appliances can be handled. Ivory color 12" long. Six foot cable. ½ lb.

## 5 POWER Flashlight MAGNIFIER



No. X-900

**$1.71**

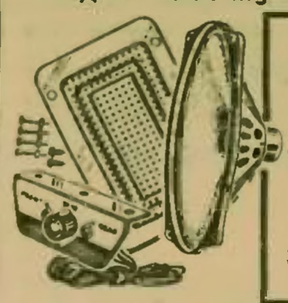
3 for $4.50
12 @ $1.25 ea.

Polished chrome with ivory plastic trim. Uses two "C" cells (not included). Size 6¾" long. Shpg. wt. ¾ pound.

BATTERIES (2 req'd)
No. BA-41 — Ea. 13c

## 6x9" Rear Deck SPEAKER KIT

★ No Soldering Required



No. S-333

**$3.63**

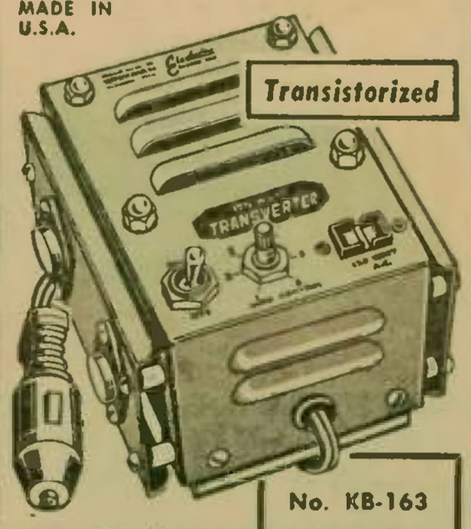
3 for $10.00

No soldering required. Speaker has Fahnestock clips and wire is pretinned. Fader control enables volume to be adjusted to any desired level. Includes 6x9 speaker, fader control, wire, chromed grille, hardware and easy to follow instructions. Shipping weight 2 lbs.

## WORKMAN TRANSVERTER KIT

12 V. DC to 117 V. AC

MADE IN U.S.A.




No. KB-163

**$22.95**

Supplies 117 volt AC 60 cycle voltage at 100 watts continuously from 12 V. DC battery. Highly efficient, no vibrators, uses four TXB-9 transistors. Has three foot cord with plug to fit into lighter receptacle and standard electrical female output. Size: 5⅛" x 5⅛" x 4". Shipping weight 5 lbs.

**Factory Assembled Transverter** 125 watts continuous. **$29.95**
No. RA-584

## BEACON LANTERN

★ With Red Flasher



No. X-784

**99c**

3 for $2.70
Lots of 12, Ea. 85c

Use as lantern, flasher - beacon or both. Shipping wt. 2 lbs.

Batteries (4 req'd) No. BA-53 — Ea. 13c
Extra Lantern bulb No. PL-45 — Ea. 15c
Extra Flasher bulb No. PL-44 — Ea. 15c

Miniature Rear Seat

## SPEAKER KIT

★ Prewired—Install in Minutes



No. S-501

**$2.29**

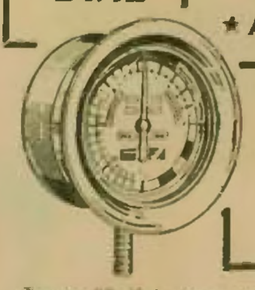
This prewired kit can be installed in minutes in any car. Selector switch permits selection of front, rear or both speakers. Mirror-finish steel case can be installed in any auto, convertible, foreign car or station wagon. Size: 2¼" sq. x 1¾" deep. Shipping weight ½ lb.

BIG 3" DIAL

Vacuum & Pressure

## TESTER

★ All Metal Case



No. ME-125

**$1.49**

3 for $4

Large 3" dial type compound, reads 0 to 20 inch vacuum and 0 to 5 lbs. pressure. Has two color dial. Use for tune-up work such as more exact ignition timing, locating burned or sticking valves, defective rings, choked mufflers, defective choke and throttle valves on carburetors. Also used on fuel pump vacuum and pressure tests to indicate condition of fuel pump. Shipping weight 2 lbs.

LUX

MARINE Accessory

## CLOCK

★ Luminous 24-hr. Dial



No. EA-70

Plus 90c F.E.T.

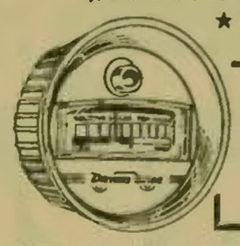
**$9**

Lux Precision movement with jeweled balance stud and screw. This handsome clock is moisture and shock resistant. Practical and nautical, at home, in roanboat, cruiser, or landlubber's den. Can be surface or flush mounted. Requires 3⅛" hole for flush mounting. Sweep second hand. 24 hr. mechanical mechanism. Shipping weight 1 lb.

Electronic

## MILES PER GALLON COMPUTER

★ No Gas Line Connection
★ Easy To Intall



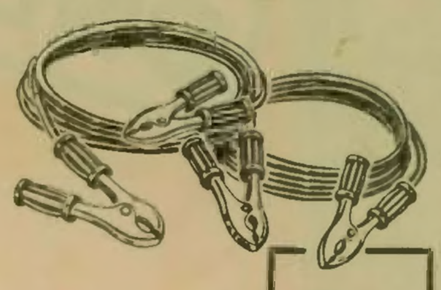
No. X-933

**$24.50**

Measures relative miles per gallon at all speeds. Easy to read, illuminated indicator mounts above dash. Simple installation, only three wires to connect. Complete with cable and instructions. For 12 volt negative ground systems. Size: 3½" dia. x 3" long. Shipping weight 3 lbs.

8 FT. Battery

## BOOSTER CABLES



W-352

**$1.29**

3 Sets $3.60

Two rugged 8 foot cables with heavy duty battery clips on each end. Easy to use—connect from your battery to a friend's battery—turn the switch and start your car without pushing. Shpg. wt. 2 lbs.

ACROTACH Transistorized

## TACHOMETER

★ Illuminated Dial



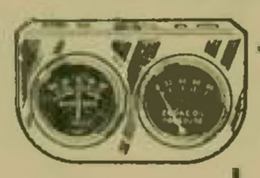
No. X-941

**$19.95**

Jewel bearing D'Arsonval meter and modern, zener regulated transistor circuit provide reliable, trouble-free performance. Adjustable reference pointer can be set for correct shifting speed or maximum safe RPM. Works with regular and dual-point ignition systems, magnetos and transistor ignition systems. With hardware and instructions. For 12 volt, negative ground. Size: 3½" W. x 4½" H. x 3" D. Shipping weight 2½ lbs.

*Accurate* Ammeter-Oil

## PRESSURE GAUGE



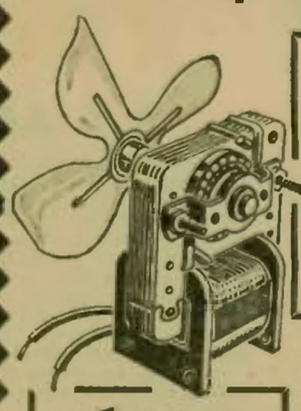
No. ME-117
Non-Illuminated

**$4.99**

Illuminated ME-118 $6.10

Can be mounted in any location that offers easy readability. Eliminates guesswork resulting from red indicator lights now used in most cars. Easy to connect to any car. Complete with all fittings and connectors. Oil pressure range: 0 to 80 pounds. Ammeter range: 60-0-60 amps. Both meters are mounted on a universal mounting, chrome panel. Illuminated model includes socket, bulb. Can be used in any 6 or 12-volt system. Shipping weight 3 lbs.

## 1 and 2 Speed FAN MOTORS & BLADES



AS LOW AS **$1.98**

**Your Choice of Motors**

| 1-SPEED | | 2-SPEED | |
|---|---|---|---|
| 4" BLADE No. MO-98 | $1.98 | 4" BLADE No. MO-101 | $2.96 |
| 6" BLADE No. MO-99 | $2.59 | 6" BLADE No. MO-102 | $3.31 |
| 8" BLADE No. MO-100 | $2.98 | 8" BLADE No. MO-103 | $3.97 |

Motors deliver up to 1500 rpm. Ideal for cooling and ventilating all types of electronic equipment. Motors are of the squirrel cage induction type with shaded poles for self starting. Your choice of one or two speed motor with 4", 6" or 8" blade. Shipping weight 3 lbs. For 110-125 volts AC 60 cps.

SWITCHES FOR ABOVE:
For Two Speed Motor, No. SW-275 — 59c
For One Speed Motor, No. SW-238 — 29c
A.C. Line Cord, No. W-43 — 29c

★ Made By A Leading U. S. A. MANUFACTURER

# REPEAT OFFER

NAME BRAND



## Recording Tape

# 1200 Ft. MYLAR

99¢ Each, Lots of 10

★ Factory Boxed
★ 7" Reel

No. TA-75

Lots of 3, Ea. $1.19

Single Ea. $1.29

Olson purchased another entire lot of top quality U.S.A. manufactured, recording tape and now passes the savings on to you. Features a uniform coating of oxide bonded to a tough mylar base. High signal to noise ratio, low distortion and uniform output. Standard ¼" width for all recorders. Shipping wt. 1 lb.

# SALE REG. $7.77

## SCOURMASTER

★ SCOURS
★ SCRUBS
★ SHINES
★ POLISHES
★ PORTABLE




Mfgr's List Price $29.95

$4.99 No. MO-112

WITH EVEREADY BATTERIES



HEAVY DUTY PAD SCOURS POTS & PANS



SOFT PLASTIC BRUSH CLEANS VEGETABLES



NYLON FIBER PAD POLISHES SILVERWARE

EXTRA BATTERIES, (2 req'd.) 6V EVEREADY 539 No. BA-92 Ea. $1.19



Scourmaster not only scours and scrubs dirty pots and pans but also shines and polishes silverware and copperware, cleans dishes and glassware. No need to plug into a wall outlet. Scourmaster operates on self contained batteries (included). The exclusive "Pow-R-Pack" handle contains a highly efficient motor that gives just the right amount of cleaning power and splash-proof speed to remove stubborn scorch, even burnt-on stains. This hand-contoured, rubber-clad handle is completely safe and comfortable to use in or out of water—it's completely water-proof. Scourmaster is automatically self-starting, just lift the handle from its cradle and the motor starts instantly. Complete with batteries, 6 heavy duty scouring pads, 2 nylon fiber pads, 1 soft plastic brush and wall mounting plate. Cabinet Size: 6¼" H x 9" W x 3" D. Shipping weight 10 lbs.

## 24 HOUR Phone Service

Direct Dial Area Code 216
Akron, Ohio

**Phone: 535-9191**

If you can't phone during the day, you can phone ANYTIME at night and give your order to our night operator. Your order will be shipped the next day!

## TREASURE HUNT

*Look For Your Name—You May*

**WIN $5 IN MERCHANDISE**

Somewhere throughout this catalog are the names of 36 Olson customers. Your name may be there! If it is, write us giving the page number and OLSON will send you FREE from the catalog, $5 worth of merchandise of your choice.

OFFER EXPIRES May 30, 1964

# Superior Battery CHARGER




ONLY

No. RA-617

$3.99

3 FOR $11.50

★ 1.25 Amp.
★ Overload Circuit Breaker
★ Can Not Overcharge
★ Two 4½ Foot Cables
★ Rugged Metal Case

## ★ 6 AND 12 VOLT ★

Keep your car battery charged ready to deliver full power when you need it. Battery may become discharged even while standing idle. With charger attached, battery remains fully charged at all times. Switch on front panel selects 6 or 12 volt batteries. Has 4½ foot charging cables with 25 amp, easy-to-attach clips. Charging rate tapers off as battery becomes charged. Can't overcharge. Re-set circuit breaker trips automatically if an overload should occur for any reason. Indicator light tells you if circuit breaker has been tripped. Features rugged metal cabinet for lifetime use. Size: 8" x 2½" x 5". For 110-125 volts A.C., 60 cps. Don't miss this tremendous value! Shipping weight 4 lbs.

Tony Perrella, 1879 Cherry Ct., Cheyenne, Wyo., wins choice of merchandise worth $5 from Olson's "Treasure Hunt." See instructions above.

★ SEE PAGE 23 FOR MORE CHARGERS

OLSON ELECTRONICS, INC.
260 S. Forge St., Akron, Ohio 44308
RETURN REQUESTED

Catalog 364

BULK RATE U. S. POSTAGE PAID AKRON, OHIO PERMIT No. 240

N MINCR
NILTON IND

963
N

SICO Superior

MFGR'S 1963 LIST $8.95

## Electronic CAR STARTER

★ HELPS START WET, COLD, OVER-HEATED or SLUGGISH CAR ENGINES—INSTANTLY!




No. AM-246

$2.99

★ 5 Times Normal Spark
★ Only Two Connections
★ For 6 or 12 Volt Cars
★ Saves Your Battery

Two simple connections can make the difference . . . whether your car starts instantly, or you have to grind away at the battery and your temper. In just a few minutes, you can connect this amazing device to your car, 6 or 12 volt. Electronic Car Starter sends FIVE TIMES the normal amount of spark from your plugs, insuring a positive start every time. This device disconnects itself automatically the instant the engine begins running. Electronic Car Starter will never damage the plugs. Size 6⅛" x 1½" x 1½". Includes 25" wire leads.

# OLSON ELECTRONICS

260 S. FORGE ST.
AKRON, OHIO 44308

WRH

# 55% OFF

Mfgr's. 1963 List Price

OLSON ACTUAL SELLING PRICE $139.50

# BELL-O-MATIC

# STEREO TAPE RECORDER

## Records Stereo-Plays Stereo

*. . . also Monaural Record / Playback!*




- ★ 4-TRACK
- ★ 2-SPEED
- ★ 2 Microphones Included
- ★ Handles Tape Cartridges
- ★ Handles Reels
- ★ Dual Speakers
- ★ Copies Stereo Records
- ★ Records Up To 4 Hours
- ★ Factory Sealed Cartons
- ★ Automatic Shut-Off
- ★ Records Stereo Off The Air
- ★ Model 603

Mfgr's. 1963 List Price ~~$199.95~~

# $88.88

★ No. RA-620 ★

ONLY $9 MONTHLY

OLSON ACTUAL SELLING PRICE $139.50

NAME BRANDS

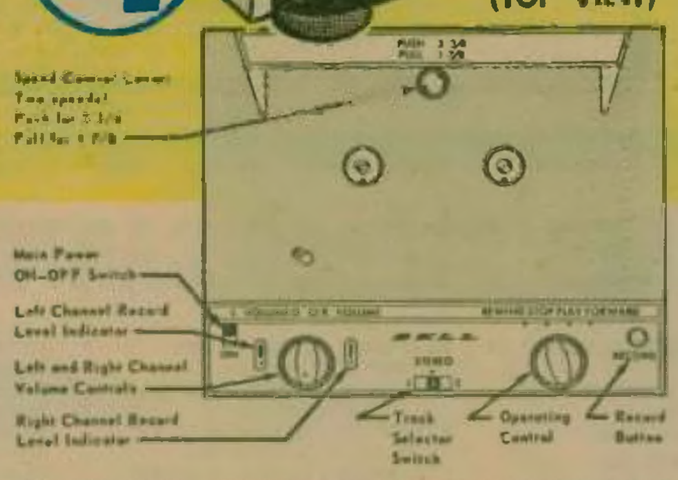
...he ...ew ...ape ...artridge ...ou Can ...oad In **TWO** ...econds!



**AT NO EXTRA CHARGE . . .**

Olson Includes a TAPE CARTRIDGE — Pre-Recorded On One Side and Blank On Other — Start recording immediately!

UL




**BONUS**

Also Records Stereo & Plays Stereo From **REEL-TO-REEL** (3" Size)

See Special Tape Reel Listings Below at Left!










**MOST EXCITING STEREO TAPE RECORDER ALUE WE HAVE EVER OFFERED!** Brand new, irst model **603** Bell-O-Matic recorder plays d records stereo from your favorite records, f the air or make your own live stereo re-ordings. Uses the latest, most popular tape rtridge now available from all major tape ands: Bel Canto, Audio-tape, RCA, Minnesota ining. Each blank cartridge contains 600 ft. recording tape, enough for two full hours stereo or four hours of regular monaural cording. Hundreds of Pre-recorded Stereo pes readily available.

You never touch the tape. Just drop the car-dge in place, flick the switch on and the N begins. Bell-O-Matic has fast forward and st rewind plus automatic shut-off that turns f the entire machine. Other features include: al inputs for recording from microphones, ano, radio, etc. and dual pre-amp outputs r playback through other sound systems. Re-corder is complete with two hermetically sealed crystal microphones, one pre-recorded tape cartridge, two full-range speakers (one in de-tachable lid). Case is made of durable brushed aluminum. Size 8½H x 10⅞W x 10½D. Freq. Response 50–12,000 cps. Speeds 3¾ and 1⅞. Shpg. wt. 29 lbs. For 110—125 Volt AC.

**BELL-O-MATIC MONAURAL TAPE CARTRIDGE RECORDER.** Model 601. Similar to above but Monaural record/playback only. With micro-phone. (Less Tape Cartridge). For 110 V. AC. Shpg. wt. 20 lbs.

No. RA-621 ..... $75

**ACCESSORIES**

Blank Tape Cartridges Loaded With 600 ft.

| | | |
|---|---|---|
| 3M No. 150 MYLAR | No. TA-22 | $2.97 |
| 3" EMPTY Reels | No. TA-124 | .30 |
| 3" Reels Loaded | No. TA-123 | .98 |

CATALOG 164, COPYRIGHTED 1963, OLSON ELECTRONICS, INC.

# PRE-RECORDED

## Stereo Tape Cartridges

Mfgr's 1962 List Up To ~~$9.95~~

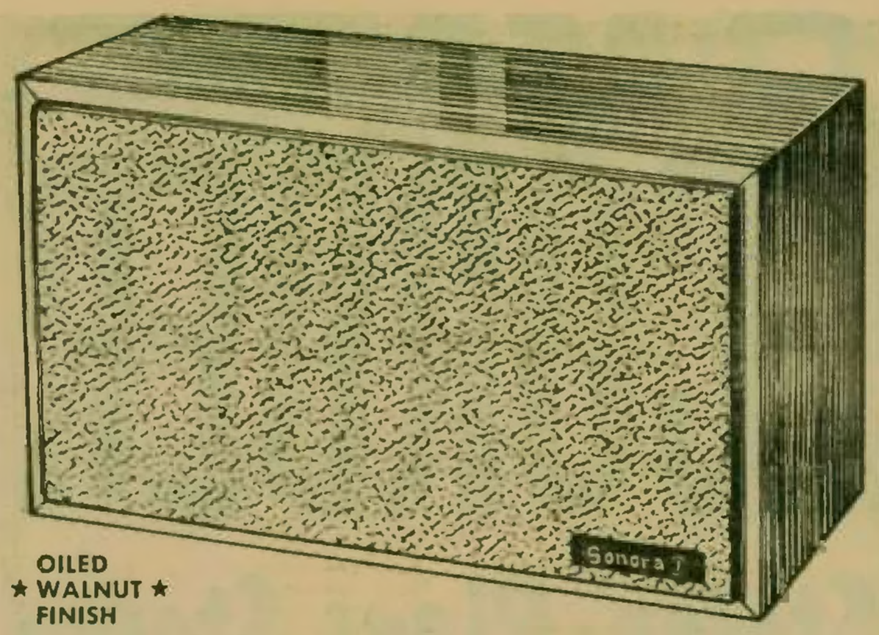
$3.99

See PAGE 2

# OLSON ELECTRONICS

260 S. FORGE ST.
AKRON, OHIO 44308

WRH




OILED
★ WALNUT ★
FINISH

## Sonora 2 SPEAKER SYSTEM

★ Oiled Walnut Finish
★ Response: 20-20,000 CPS
★ Power Capacity: 15 Watts

**$17.98** No. S-537
2 for $34.00

Completely assembled and ready to connect to any stereo or monaural amplifier. 2 speaker system with one 8" low frequency speaker and one 3½" tweeter, 8 ohm impedance. Handsome oiled walnut enclosure 18" x 9½" x 5½". Buy two for Stereo. Shipping weight 11 lbs.

## Sonora 3 SPEAKER SYSTEM



- Oiled Walnut
- 20—20,000 CPS
- 15 Watts

No. S-578
**$24.95**
2 for $47

Beautifully finished cabinet and matching grille cloth reflect the excellent craftmanship throughout. Three matched speakers deliver flawless reproduction. Slimline styling blends tastefully with any decor. System contains one 8" speaker for bass tones, one 6" speaker for midrange tones and a 4" speaker for high frequencies. Oiled walnut enclosure is ported in back to eliminate speaker loading. Size: 24" W. x 11½" H. x 6" D. Shipping weight 15 lbs.

R. T. Grim Co., 19th & Market Sts., Camp Hill, Pa., wins choice of merchandise worth $5 from Olson's "Treasure Hunt." See back cover for instr.

## Sonora 8" SPEAKER & CABINET



- Oiled Walnut
- Volume Control
- Wire Included

No. S-539
**$11.98**
2 for $23.00

Extension speaker for stereo or hi-fi. Built-in volume control permits adjustment of balance or volume without changing controls on main unit. Full range freq. resp. 10 watts 8 ohm. Size: 11¾" x 11⅝" x 4½". Shipping weight 61 lbs.

## Sonora 4-Speed Portable PHONO



No. RP-255
**$15.98**

Compact 4-speed phono plays all size records. Handsome case is light and portable, take it with you wherever you go. PM speaker and powerful amplifier deliver full rich tones. Case has cloth bottom to eliminate scuffing. 110-125 volts AC, 60 cps. Size: 12" W. x 9½" D. x 5½" H. Shipping weight 5 lbs.

★ PM Speaker
★ Attractive Case

## Sonora STEREO PHONO

★ 4-Speed
★ 4-Speaker System



No. RP-257
**$59.95**
$7 MONTHLY
NO MONEY DOWN

Delivers console-like quality from powerful 2 channel amplifier and 4 matched speakers. Each 2-way speaker system has its own portable baffle which may be detached from main unit and placed to give greater stereo separation. Custom styled pull-down changer has a ceramic tunrover cartridge with two sapphire needles. Sound control panel features separate volume controls for each channel plus a full range bass-treble control. Plays all size and all speed records, both stereo and mono. 45 rpm adapter spindle is included. For 110-125 volts AC, 60 cps. Size: 15¾" H. x 9¼" D. x 23" W. Shipping weight 30 lbs.

## Sonora Automatic HI-FI PHONO

★ 4-Speed Automatic Changer
★ Tone Control

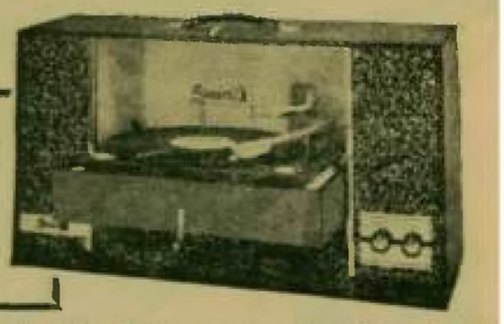


No. RP-256
**$39.98**

Elegant styling and true fidelity sound quality, light weight portability are combined in this deluxe unit. Powerful wide response amplifier drives a FM type speaker which is electronically balanced and front mounted for best sound dispersion and finest tonal reproduction. Has off-on volume control and separate tone control. Turnover cartridge has two sapphire needles. Automatic changer plays all speeds 16⅔, 33⅓, 45 and 78 RPM. Stylish luggage type carrying case has scuff-resistant washable covering. For 110-125 volts AC, 60 CPS. Size: 8½" H. x 13" W. x 17¼" D. Shpg. wt. 24 lbs.

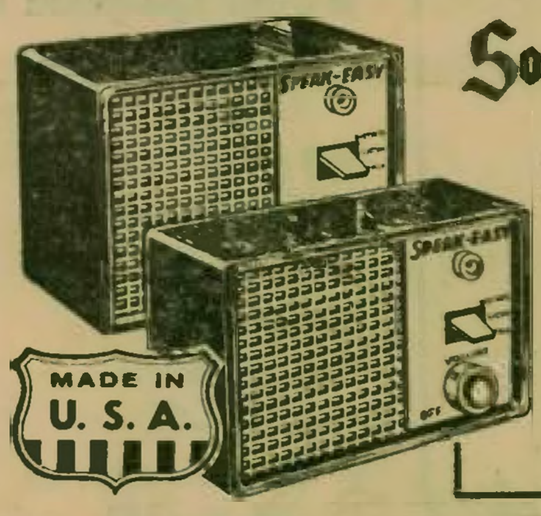
## Sonora Deluxe STEREO PHONO

★ 4-Speed Automatic Changer
★ 4 Speakers



No. RP-259
**$54.98**
$7.00 MONTHLY
NO MONEY DOWN

Truly outstanding in performance, styling and value! Combines in one smartly styled unit a complete portable music system for magnificent stereo reproduction. Superb tone quality from low-noise, hum-free dual channel stereophonic amplifier. Two, 2-speaker systems deliver console-like tone. 4-speed changer plays all size records automatically at 16⅔, 33⅓, 45 and 78 RPM. Plays both stereo and mono records with utmost in clarity and balance. Has turnover cartridge with two sapphire needles. Scuff-resistant slimline carrying case. For 110-125 volts AC, 60 cps. Size 14¾" H. x 26" W. x 9½" D. Shp. wt. 26 lbs.




All Transistor
## Sonora 2 Station Intercom

★ SYLVANIA TRANSISTORS
★ RANGE: 2,000 FT.
★ BATTERY POWERED
★ PORTABLE

No. RA-534
BOTH FOR . . . **$15.98**

Complete two-way communication system. Can be used anywhere. Operates on one self-contained 9 volt battery (not included). Cabinets are made of attractive high impact styrene. Remotes can call master even with power turned off. Master has built-in tone signal and indicator lamp. Size: 4" x 4" x 2". Complete with 50 ft. of cable. Shipping weight 5 lbs.

9 Volt Battery (1 req'd.),
No. BA-89 ..... ea. 21c
Extra 100' of cable No. W-103 ..... 8½c

Sonora
## Timer—ALARM CLOCK

★ Telechron Movement
★ Controlled Outlet



Plus 10% F.E.T.
No. X-901
**$8.80**

Can be used as timer only or timer with alarm. Has 60 minute timer for automatic shut-off of radio or appliance. Appliance will come back on at any pre-set time with or without alarm. For 110-125 volts AC, 60 cps. Shipping weight 3 lbs.

Sonora—Telechron
## Timer—ALARM CLOCK

● Luminous Hands ● Walnut Cabinet



Plus 10% F.E.T.
No. X-930
**$11.95**

Deluxe timer switch handles up to 1000 watts. Has 60 minute timer which shuts off automatically at the end of time cycle. Timer can also be set to turn on appliance or radio at any pre-set time. Can be used with or without built in alarm. Beautiful handrubbed oiled walnut cabinet. Size 4¼" x 4⅜" x 2½". 110-125 v. AC, 60 cps. Shipping weight 3 lbs.

Travler
## CLOCK RADIO

● Slide Rule Dial ● Alnico V Speaker



**$14.99** No. RA-597

Why wake up to a jangling alarm clock? Instead, wake up gently to your favorite music. Powerful superheterodyne circuit for unmatched sensitivity. "Quick-Tune" slide-rule vernier dial provides easy accurate tuning. Improved automatic volume control circuit insures steady, clear tone. Features built-in precision loop antenna for stronger pickup. Genuine Telechron clock automatically turns on radio at preset time. Beautiful, slim-line styled cabinet. Size: 5⅜" H. x 12¾" W. x 6" D. For 110-125 volts A.C. 60 cps. Shipping weight 10 lbs.




## 4-Track PRE-RECORDED STEREO CARTRIDGES




**Famous Mfgrs.**
★ BEL CANTO
★ MERCURY
★ LIBERTY
★ PHILIPS
★ DOT

**YOUR CHOICE**
**$3.99**
3 FOR $11
Mfgr's 1962 List Price Up To $9.95

KST-20 AROUND THE WORLD IN 80 DAYS
KST-63 SOUL OF SPAIN—Volume 1, 101 Strings
KST-111 HAPPY MOODS—Jamal
KST-130 EXODUS—101 Strings
KST-131 CAMELOT—101 Strings
KST-133 EXODUS TO JAZZ—Eddie Harris
KST-134 AHMAD JAMAL'S ALHAMBRA—Ahmad Jamal
KST-171 WORLD ROMANCE—101 Strings (Twin Pack)
KST-172 LET'S DO THE TWIST
KDST-25068 HYMNS WE LOVE—Pat Boone
KDST-25165 BLUE HAWAII—Billy Vaughn
KDST-25266 ON STAGE—Louis Prima & Keely Smith
KDST-25274 STRICTLY FOR DANCING—Lawrence Welk
KDST-25276 THEME FROM A SUMMER PLACE—B. Vaughn
KDST-25389 YELLOW BIRD—Lawrence Welk
KDST-25396 BERLIN MELODY—Billy Vaughn
KDST-25412 MOON RIVER—Lawrence Welk
KDST-25424 CHAPEL BY THE SEA—Billy Vaughn
KDST-TP1 MILLS BROS. GREATEST HITS—(Twin-Pack)
KPT-600-000 BROADWAY IS MY BEAT—Michael Legrand
KPT-600-004 SWING LOW SWEET CLARINET—Woody Herman
KPT-600-005 WORLD FAVORITE PIANO CLASSICS—Rawicz & Lendover—Dual Pianos —
KPT-600-011 FRANCIS DAY'S LATIN BEAT
KPT-900-000 LISZT—Richter
KLT-6601 THE BEST OF JULIE—Julie London
KLT-7149 ROAR ALONG WITH THE SINGING 20's—The Johnny Mann Singers
KLT-7158 SILVER SCREEN—Martin Denny
KLT-7163 EXOTIC SOUNDS VISIT BROADWAY—Martin Denny
KLT-7164 AROUND MIDNIGHT—Julie London
KLT-14001 PARADISE FOUND—Felix Slatkin & Orch.
KLT-14005 50 GUITARS SOUTH OF THE BORDER—Tommy Garrett
KLT-14009 GREAT BAND WITH GREAT VOICES—Si Zentner Band, J. Mann Singers
KLT-14017 GREAT BAND WITH GREAT VOICES—VOL. II—Si Zentner Orch. and J. Mann Singers
KLT-14019 INSPIRED THEMES—Felix Slatkin
KST-6000 LATIN PERCUSSION—David Carroll
KST-6003 VIVA CUGAT—Xavier Cugat & His Orch.
KST-6012 THE EXCITING SONGS—Ciebanoff Strings & Percussion
KST-60009 NIGHT TRAIN—Buddy Morrow
KST-60038 VAUGHAN & VIOLINS—Sarah Vaughan
KST-60153 IN THE MOOD—Eddie Layton & Dick Contino
KST-60162 MORE SONGS FROM GREAT FILMS—Ciabanoff
KST-60610 MELIS ON BROADWAY—Jose Melis
KST-60649 LET'S DANCE, DANCE, DANCE—David Carroll & His Orchestra
KSTG-T-1 LET'S DANCE—LET'S DANCE AGAIN—David Carroll & His Orch. (Twin Pack)

***PLUS SCORES OF ADDITIONAL TITLES AVAILABLE***

**Blank Tape Cartridge**
Loaded with 600 ft. 3M No. 150 Mylar.
No. TA-22 ..... $2.97

# 45 RPM Portable TURNTABLE




MADE IN ENGLAND

**No. RP-252**

**$4.99**

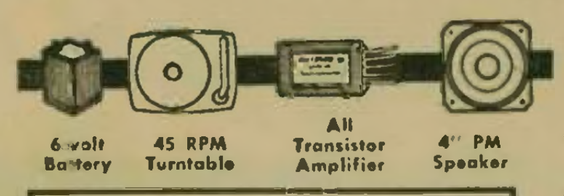
★ 6 VOLT DC MOTOR
★ CERAMIC CARTRIDGE
★ DUAL LP STYLUS

P. Germain, 9014 Vine Ave., Wonderlake 8, Ill., wins choice of merchandise worth $5 from Olson's "Treasure Hunt." See back cover for instructions.

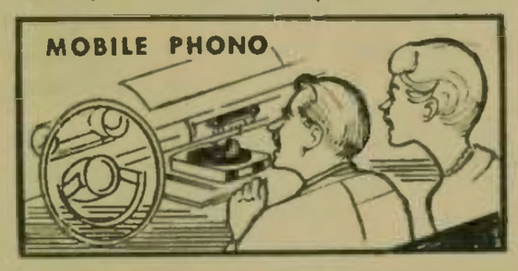
The most unusual turntable we have ever offered. Ideal for use in portable or mobile equipment. Motor operates on one 6 volt battery or 4 flashlight batteries in series. It can also be used on 12 volts DC by inserting a 10 watt 100 ohm resistor in series with the motor lead. Plug-in ceramic cartridge is equipped with 2 sapphire needles. When one side wears out you just unplug the cartridge, turn it over and plug back in and you have a brand new needle. To start turntable you flip needle guard back which brings tone arm up to play position, move tone arm to right which turns on power and place the arm on the record. The motor will turn off automatically at the end of the record. Size: 7⅜" W. x 5⅞" D. x 2¾" H. Shipping weight 2 lbs.

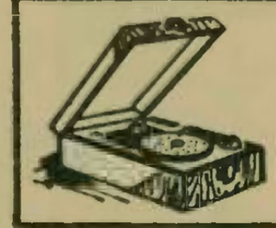



## ★ BUILD YOUR OWN PORTABLE PHONO ★




2-Watt All Transistor AMPLIFIER No. AM-218 (page 10) ..... 8.40
6-Volt BATTERY, No. BA-90 ..... 90c
4" PM SPEAKER No. S-564 (Page 12) ..... 99c

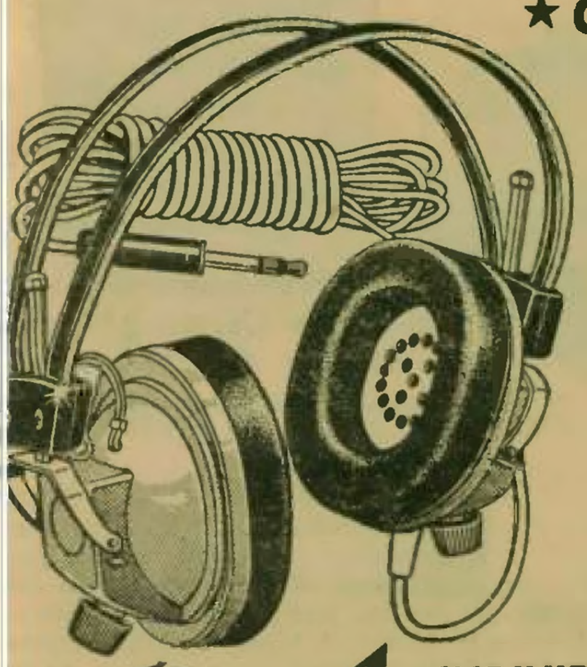


Design and build your own portable 45 RPM Phono
. . . A PERFECT KIT PROJECT!

# Olson Stereo Headphone

★ Cushioned for Comfort



**$14.98** No. PH-82

Individual volume controls on each phone make balance and volume adjustments easy and convenient. Phones are padded for extra comfort and are equipped with a 7-ft. flexible cord and standard three-circuit plug. Response 30 to 15,000 cps. Impedance 8 ohms. Shipping weight 5 lbs.

INDIVIDUAL VOLUME CONTROLS



Stereo **KOSS HEADPHONES**
*Best Quality On The Market*
★ 'Double Slide' Comfort Adjustment

**$24.95** No. PH-30 Lots of 3, Ea. $21

Includes FREE T-2 Headphone JACK

Response 30 to 15,000 CPS. Provides complete separation of both channels. May be used with any monaural or stereophonic hi-fi equipment. Impedance 4 ohms. Equipped with eight foot cord and stereo plug. Shipping weight 4 lbs.



25 Ft. Stereo Headphone
**EXTENSION CORD**
No. W-447
**$2.29**
3 for $6

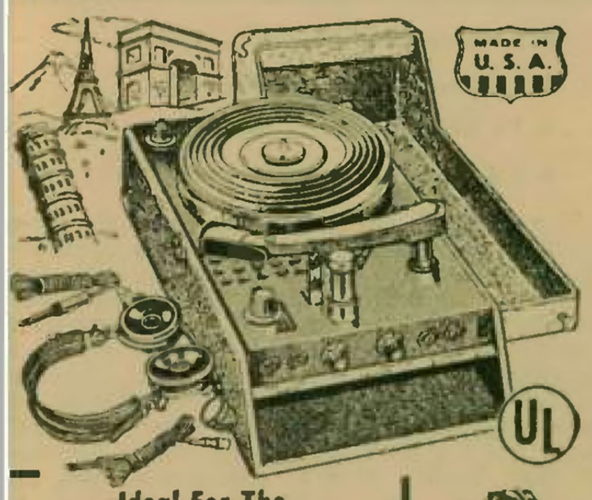
Three conductor cable with grey vinyl jacket. ¼" 5 circuit plug on one end, 5 circuit jack on the other end. Shpg. wt. 1 lb.

**STEREO HEADPHONE JUNCTION BOX**



Junction box for above headphones with 36" leads has selector switch to select headphones or speakers. Connect to any amplifier. Shipping weight ½ lb.

No. PH-83 ..... $1.98




# PRONUNCIATOR

## Language Trainer

★ 4-SPEED PHONOGRAPH
★ HI-FI HEADPHONES & MICROPHONES
★ VARIABLE SPEED
★ "ACRA-SET" ARM LIFTER

The Pronunciator Language Trainer is a complete 4 speed phonograph with headphones and microphone. Designed and built in the U.S.A. by one of the leading manufacturers of Public Address equipment. This ruggedly built unit provides a direct, simplified, economical approach to accelerated language learning. You repeat into the microphone a word or phrase you have heard on the record. Immediately you hear how closely your inflection, accent and rhythm approximate the pronunciation of the recorded speaker. You hear yourself as others hear you because your voice is routed from microphone through amplifier to headphones, over-riding bone conduction perception which does not give a true picture of how you sound. The exclusive "Acra-Set" tone arm lifter gently raises and lowers the phono needle to the record surface by simply twisting a knob. You can pause between words or phrases and return the needle to the exact position without damage to record or needle. Plays all four standard speeds, 16⅔, 33⅓, 45 and 78 r.p.m. In addition, the variable speed control accelerates or decelerates speed to the limits of intelligible reproduction. Thus you can analyze a word syllable by syllable. The crack-proof case is covered with washable, scratch-resistant, fabrikoid with metal-guarded corners. Size: 6⅞" x 9⅝" x 14¾". 105-125 Volts AC. Shipping weight 16 lbs.

*Ideal For The* **LANGUAGE STUDENT**

**$49.99** No. RP-254



...me unit as above with 4-speed, fixed speed phono motor.

...RP-253 ..... **$44.99**

# Olson *Deluxe* 2-WAY SPEAKER SYSTEM




**$12** No. AS-844

## ACOUSTIC DAMPER

★ Compression Horn Tweeter
★ PM Dynamic 12" Woofer
★ Crossover Capacitor

Phenomenal bass response, full-bodied mid-range and silky smooth upper octaves are reproduced with unusually pleasing musical balance by this deluxe 2-way speaker system. Exceptionally "clean" bass is achieved by a revolutionary new design in woofer construction. An "acoustic damper," eliminates "booming" and "one-note" bass even in open-back cabinets. Now you can have "clean" bass at any setting of the Bass-Boost or Loudness Controll of your amplifier Woofer: response 20 to 3,000 cps, 8 ohms, 20 watt power capacity (40 watts peak). 2,000 cps crossover automatically channels upper mid-range and high frequencies to a genuine compression horn tweeter for the utmost in clarity and balance. You will be thoroughly pleased with the thrilling performance of this fine system and amazed that so much performance can be purchased for such a low price. Response: 20 to 18,000 cps. Power capacity: 20 watts (40 watts peak). Size: Woofer: 12" x 5⅞", Tweeter; 4" H x 10½" W x 11½" L. Includes capacitor type crossover. Shipping weight 12 lbs.

## ★ UNITS AVAILABLE SEPARATELY ★

**HORN TWEETER**
★ Resp. 1,000 to 18,000 CPS
★ Shipping Weight 4 lbs.
ORDER No. S-547 **$7.99**

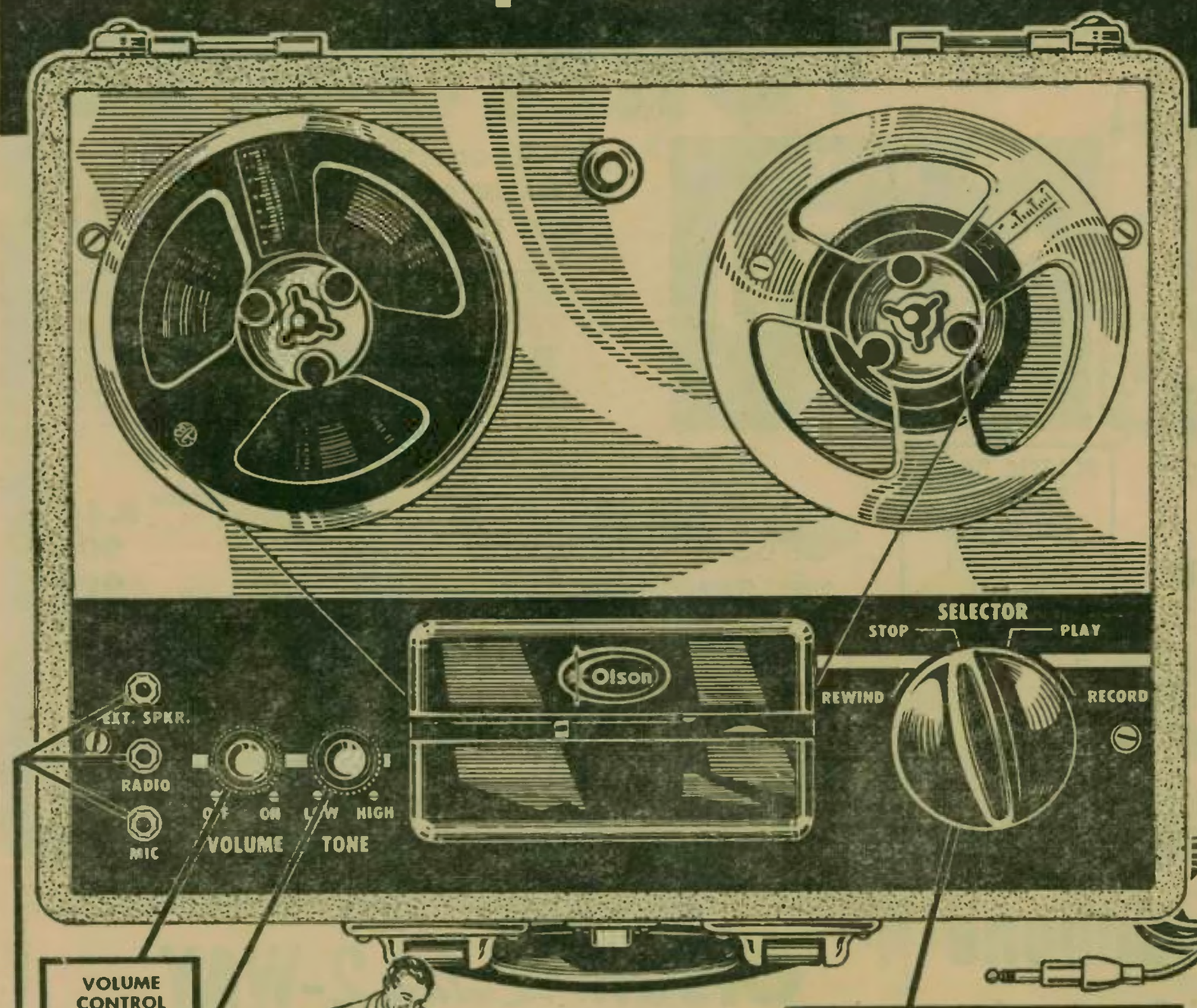


**12" WOOFER**
★ Resp. 20 to 3,000 CPS
★ Shipping Weight 8 lbs.
ORDER No. S-574 **$7.99**



# Olson 2 Speed-Dual Track TAPE RECORDER

**FULL SIZE... not a "compact"!**




No. AM-232

**$54.98**

2 FOR $105

$7 MONTHLY

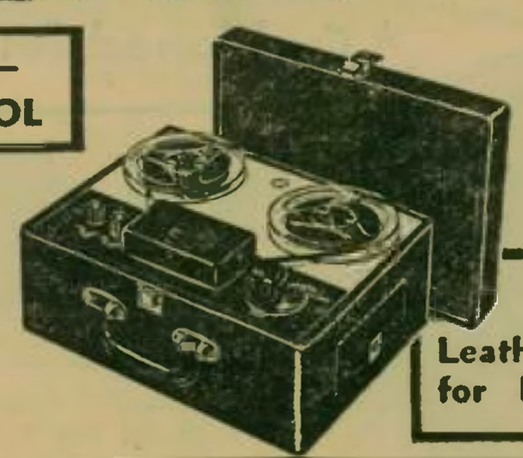
Complete With **CRYSTAL** Microphone

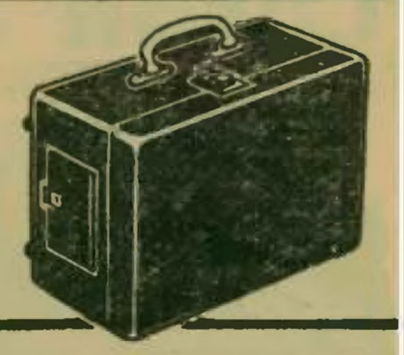


*"World's Easiest To Operate!"*

**Easy To Operate— ONE KNOB CONTROL**

**"MAGIC EYE"** Record Level Indicator





**Handsome Brown Leatherette Carrying Case for Lasting Good Looks!**

## Dual Speed TAPE RECORDER

★ Equipped with New "Sing-A-Long" Feature



**$69.98** No. AM-233

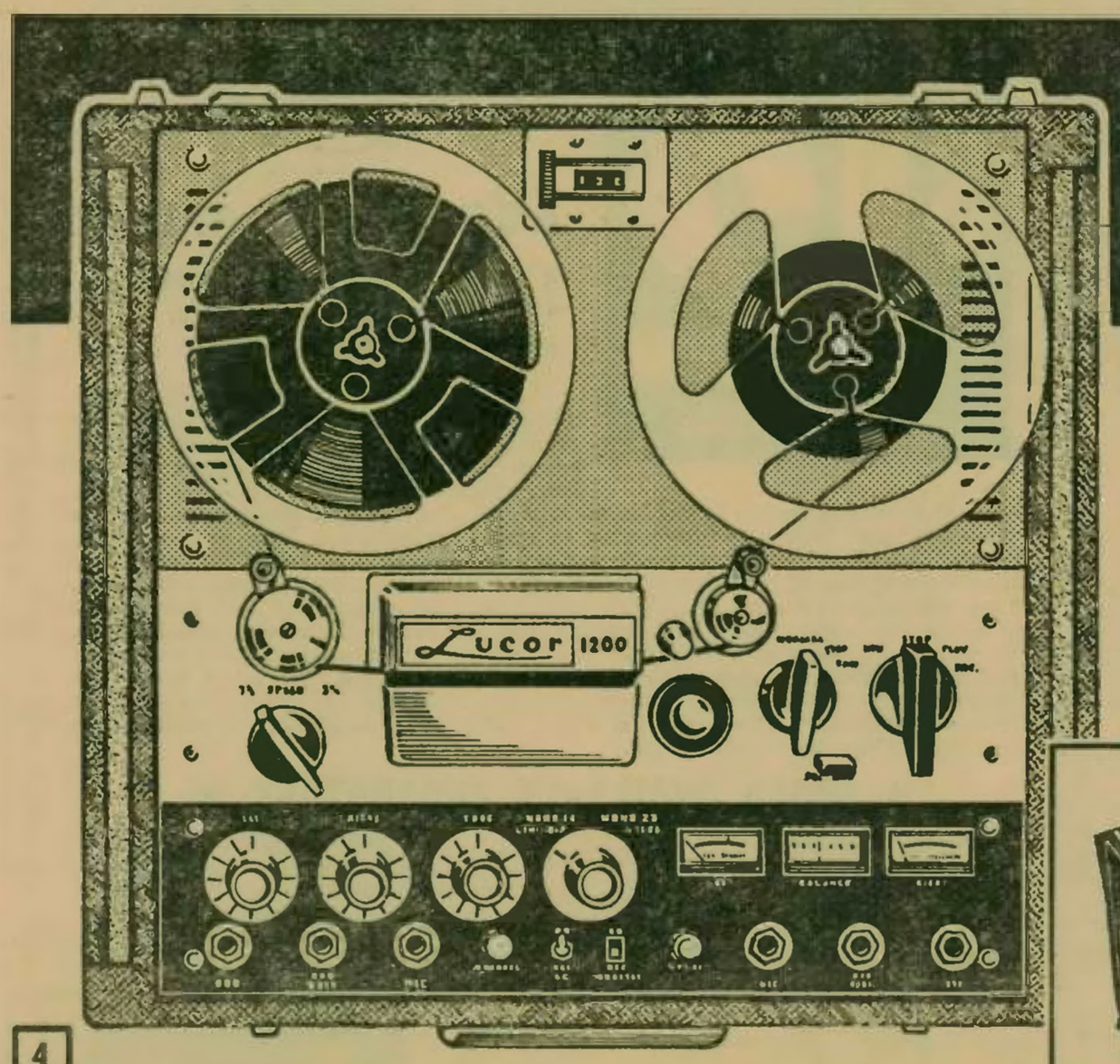
2 FOR $130

★ Magic Eye Level Indicator
★ Response 50 - 15,000 cps

The new De-Luxe Olson tape recorder is designed to record and play high fidelity tapes and is equipped with a new "Sing-a-Long" feature which enables you to sing along with prerecorded tapes. Simply plug mike (included) into special sing-a-long jack and adjust volume control. Your voice is electronically mixed with the sound coming from the tape. Then both the pre-recorded sound and your voice come through the loudspeaker. Recorder uses all standard size reels including 7". Tape speeds are 3¾ and 7½ IPS. Magic eye recording level indicator assures sharp clear recordings. Response: 50-15,000 CPS. Recorder is complete with microphone and patchcoard plus complete instruction book. Size: 14½ x 11¼ x 6½ for 110-125 volts AC 60 CPS. Shipping weight 26 lbs.

High fidelity recording and playback at a budget price. This qualit recorder operates at two standard speeds 3¾ IPS and 7½ IPS. Th faster speed gives greater fidelity for recording music. Speed chang is quick and positive, simply remove capstan sleeve and store on pos provided. Tone control permits adjustments of playback tone to sui your listening taste. Has external speaker jack for the connection o a larger speaker or headphones if desired. A highly sensitive crysta mike and a recording patch cord are included along with an empt take-up reel. Proper recording level is indicated on a magic eye typ indicator. Handsome luggage type case comes in brown leatherett Size 13½" x 10" x 7". 110-125 volts AC. Shipping weight 21 lbs.

Marsh Valley High School, Wayne Nielsen Prin., Arimo, Idaho, wins choice merchandise worth $5 from Olson's "Treasure Hunt." See back cover for instruction



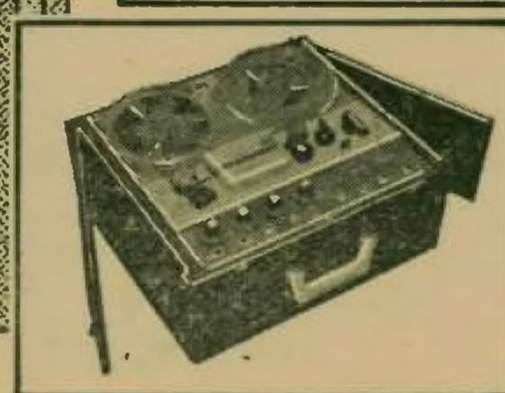

## 1200 Lucor STEREO 4-Track Tape Recorder

Mfgr's 1963 List Price ~~$399.95~~

**$169.99**

$11 MONTHLY

No. RA-610



★ Records Stereo—Plays Stereo
★ 2 Speeds, 3¾ and 7½ IPS.
★ 15 Watt Stereo Amplifier
★ 2 Dynamic Microphones

The Lucor "1200" full-stereo tape recorder com bines professional quality, features and performanc with ease of operation and attractive design. Sim plified controls assure perfect recordings, eithe monophonically or stereophonically. A hysteresi motor assures consistently silent, smooth operatio The precision-engineered tape transport feature tension levers for accurate, constant speed. Record and plays both monophonically and stereophonicall in either 2 or 4 tracks. It may be played throug its own high fidelity 5" x 7" speakers or you ca plug in extension speakers. The sound reflectors o each side of the case give maximum seperation wit the built-in speakers. The recorder may be used a a public address amplifier simply by turning on th monitor switch. Features three panel meters, tw for recording and one for plaback balance. Th Lucor 1200 is complete with 2 dynamic microphones 2 patch cords, 1 empty 7" reel and 7" reel of tape Size 8½" x 17" x 15". Specifications: Tubes: 2-6267 2-6BQ5, 1-6AQ5, 2-12AX7, 2-SD-46 diode, 1-SM150 diode. Input Impedance; Microphone 50 K ohm Radio 500K ohms. Wow & Flutter; 0.18% Free Resp; 30-20,000 cps. For 110-125 volts AC, 60 cps Shipping weight 45 lbs.

# ROYALCORDER

# Portable TAPE RECORDER




Up to one hour recording time with new long play 880 ft. tapes. This is one of the most versatile portable recorders ever offered at such a low price. Accepts up to 3½ inch reels. Dual track head permits two-track recording which doubles recording time. New "Hand 'N Stand" two-way mike stands on desk or you can use it as a hand mike. Push button switch on mike starts and stops recorder . . . ideal for dictation. Single switch makes operating this recorder as easy as turning on a radio. 5 transistor amplifier and 2½ inch PM speaker produce loud clear tones. Speed control adjusts speed as batteries become weak. Recording level meter indicates proper recording level for best fidelity. This meter also measures battery voltage when function switch is in play back position. Recorder also has a monitor jack and an earphone for monitoring tapes as you record. A jack is provided for an external speaker if desired. This excellent recorder comes complete with: batteries, earphone, mike, empty reel and a roll of tape. Shipping weight 6 lbs.

**EXTRA BATTERIES:**

Extra Tape, No. TA-107 ——— $1.19
BA-67 (6 req'd) ——— 8 for 59c
BA-41 (4 req'd.) ——— ea. 13c

**OLSON PRICE $24.99**

**No. RA-599**




## 750 FT. RECORDING TAPE

3 3" REELS OF ACETATE TAPE

3 SELF-MAILING TAPE BOXES

No. TA-107
ALL 3 FOR
**$1.19**

Three reels of high quality, 1 mil, acetate recording tape. Each in its own mailing box. Ideal for tape letters or dictation. Standard 3" reel fits most miniature and battery operated recorders. Ship. wt. ½ lb.




## 1200 FT. ACETATE

**99¢** No. X-673 EACH

Reg. $1.33 in 862 Cat.

## RECORDING TAPE

MADE IN U.S.A.

Made by one of the leading Tape Manufacturers, individually boxed. For use in all tape recorders. Each is on a 7" reel and may have splices. Shpg. wt. ¾ lb.

**1800 Ft. ACETATE No. X-670**
Lots of 3 to 95, Ea. $1.33
Lots of 96 or more, Ea. $1.25
EACH **$1.73**

**2400 Ft. MYLAR No. X-740**
Lots of 96 or more, ea. $2.50
No. X-740 ——— EACH **$2.99**

Harold J. Oldis, 387 S. 21st St., Irvington 11, N. J., wins choice of merchandise worth $5 from Olson's "Treasure Hunt." See back cover for instructions.



## Transistorized Portable TAPE RECORDER

★ Capstan Drive
★ Ideal for Dictation
★ Two Standard Speeds, 1⅞ & 3¾

No. RA-594
**$59.98**
$7 MONTHLY

This all new transistor tape recorder features capstan drive for constant speed. Two standard speeds, 1⅞ and 3¾ IPS are selected by removing a sleeve on the capstan. Tapes recorded on this machine may be played back on any other tape recorder having the same standard speeds. Dual track record/playback head gives double the recording time. Push button on microphone starts and stops machine . . . ideal for dictation. Safety interlock button prevents accidental erasure of recorded tapes. Proper recording level is indicated by a level meter to assure the utmost in clarity. Uses popular 3-inch reels. Operates on 6 standard penlight batteries (included) for greatest economy. Includes mike, batteries, earphone, tape and reel. Size: 7⅝" x 2⅝". Shpg. wt. 6 lbs.

Extra Batteries (6 req'd.) No. BA-67 ——— 8 for 59c

## Mayfair Transistor TAPE RECORDER

★ 2-Speed 3¾ I.P.S. and 7½ I.P.S.
★ Capstan Drive
★ Dual Track



No. RA-607
2 for $86
**$44.98**

The first high-fidelity, battery operated recorder at a moderate price. Records and plays at 7½ and 3¾ I.P.S. Fast speed (7½ I.P.S.) is ideal for recording music. Uses standard 5" reel. Push buttons make recording and playback foolproof. Record interlock switch prevents accidental erasure of tapes. Handsome luggage type leather case has metal trim and corner guards. Five transistor circuit and 2½" speaker deliver maximum volume and clear tone. Complete with: batteries, earphone, microphone, 5" reel of tape, empty reel and instruction manual. Size: 8" x 11" x 3⅞". Shipping weight 9 lbs.

Extra Batteries:
BA-53, 3 req'd (1½ volt) ——— ea. 13c
BA-35, 1 req'd (9 volt) ——— 21c

## Scotch

## SCOTCH RECORDING TAPE

No. 150 HIGH OUTPUT—Replaces 111A or no additional cost, gives higher signal, less noise.

No. 190 EXTRA PLAY—Gives 50% more recording time from standard reel, 1 mil plastic base.

No. 150 EXTRA PLAY—1800', supersensitive, high potency oxide, on polyester mylar backing.

**SAVE—ORDER BY THE DOZEN**

| STOCK NO | MFG. TYPE | SIZE | DIAM. | LOTS OF 1 - 11 EA. | LOTS OF 12 OR MORE |
|---|---|---|---|---|---|
| TA-12 | 120-6 | 600' | 5" | $1.47 | $1.32 |
| TA-14 | 120-12 | 1200' | 7" | 2.29 | 2.06 |
| X-468 | 190-18 | 1800' | 7" | 3.60 | 3.23 |
| X-707 | 150-18 | 1800' | 7" | 4.05 | 3.65 |

## RECORDING TAPE

Shield

MADE IN U.S.A.

Finest mirror polished red oxide bonded to strong base. Response 50-15,000 cps. High signal to noise ratio, low distortion and uniform output. Standard ¼" width for all recorders. Boxed. Shipping weight ⅝ lb.



| Stock No. | Backing | Footage | Reel Size | 1 - 5 | 6 - 11 | 12 - 95 | 96 or more |
|---|---|---|---|---|---|---|---|
| X-249 | Acetate | 1200 Ft. | 7" | $1.99 Ea. | $1.69 Ea. | $1.49 Ea. | $1.30 Ea. |
| X-383 | Acetate | 1800 Ft. | 7" | 2.69 Ea. | 2.39 Ea. | 2.25 Ea. | 1.85 Ea. |
| X-692 | Mylar | 2400 Ft. | 7" | 3.99 Ea. | 3.79 Ea. | 3.69 Ea. | 3.00 Ea. |

## TAPE ERASER

Olson

★ Erases reel of tape instantly



$11.91 No. TA-8
3 for $35

Quickly and efficiently erases your recording tape to provide better, noise free recordings. Lowers signal-to-noise ratio and erases tape fully, without having to record on tape recorder. Can also demagnetize record and playback heads. For 110-125 volts A. C. Size: 4½" dia. Shpg. wt. 6 lbs.

## Bulk Tape ERASER

Olson

★For 3", 5", 7" or 10½" Reels



$18.95 No. TA-7
3 for $55

Will erase any magnetic recording tape from ¼" to 1" width. Just place the reel on spindle of the demagnetizer, slowly rotate 2 or 3 turns and tape is completely erased. Housed in rugged case with Power Switch, Fuse, Pilot Light, Spindle and A.C. cord. For 110-125 volts A.C. Size: 6½" x 7⅜" x 5". Shpg. wt. 10 lbs.

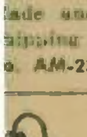
## TAPE SPLICER KIT



Includes instructions, plastic container, splicer, cutting blade and supply of splicing tape tabs. Shipping weight ½ lb.

No. AM-23, 3 for $4.00 ——— Ea. 1.49

## Telephone Pickup



Record or amplify both sides of a telephone conversation. No connection to telephone necessary. Has 6 ft. shielded lead ⅝" dia. x 2". Shipping weight ¼ lb.

No. M-133, 3 for $5.50 ——— Ea. 1.89

## Flat Telephone Pickup



Place under phone to hear both sides of telephone conversation. Connects to magnetic input of any amplifier or tape recorder. Size: 3¼"x1½"x¾". Shipping weight ½ lb.

No. M-143 ——— Ea. 1.79

## RECORDING TAPE CHEST



No. X-547
$2.99

Holds 12-7" reels or cans. All steel, grey enamel. Double safety catch, folding handle. Shpg. wt. 4⅝ lbs.

## 7" Tape Storage Can

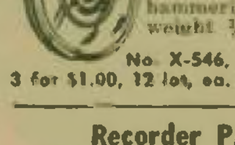
Made in U.S.A.



Steel construction, blue hammertone enamel. Shipping weight ½ lb.

No. X-546,
3 for $1.00, 12 lot, ea. 33c ——— Ea. 39c

## Recorder PATCH CORD

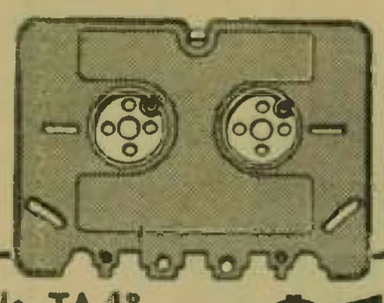


Record from Radio, TV or Phono. With pin plug, adapter & 2 clips 8' long. Shipping weight ½ lb.

No. W-869, 3 for 2.00 ——— Ea. 69c

## TAPE Cartridge KIT

Olson



No. TA-48
(Less Tape)
**$1**
PER KIT . . .

Write for special large quantity prices

4 KITS plus 2400 FT. MYLAR TAPE — No. AS-734 — $5.91
Shpg. wt. 3 lbs.

NOW! Assemble your own tape cartridge in minutes—and save. All mechanical parts and materials to make a standard tape cartridge. Cartridge fits all standard cartridge recorders such as Viking, RCA, Bell and others. Complete with easy to follow instructions. Shipping weight ½ lb.

Pre-Recorded
## TAPE CARTRIDGES

Mfgr's '63 List Price $9.95 Ea.
NOW $3.99 EACH
★ SEE PAGE 2

## AMERICAN Triple Length Recording Tape



No. TA-109
**$6.95**
12 or more Ea. $6.57

★ A Full Day of Recording Time at 1⅞ IPS
★ 3600 Feet

Extra-play, extra-strength 3600' of Tensilized mylar base recording tape on standard 7" reel. Gives three times the playing time of standard 1½ mil tape. Super strong tensilized mylar prevents breakage, lasts extra long. Shipping weight ½ lb.

## NEW! PROFESSIONAL LENGTH TAPE

3600 ft. of tensilized mylar tape on a standard 7" reel. Shipping weight ¾ lb.

No. TA-116 ——— **$5.70**

## DICTAPE



Ideal for all miniature and battery operated tape recorders and dictating machines, except those using a custom reel. Packed in self mailer cartons. Shipping weight ½ lb.

| Stk. No. | Backing | Ft. | Reel Size | Lots of 1 - 9 | Lots of 10 or more |
|---|---|---|---|---|---|
| TA-10 | Dupont Mylar | 225 | 3" | 83c Ea. | 53c Ea. |
| TA-18 | Mylar | 300 | 3" | 69c Ea. | 64c Ea. |
| TA-49 | Mylar | 600' | 5⅛" | 1.35 Ea. | 1.20 Ea. |

## TAPE HEAD DEMAGNETIZER



Just connect to 117 volts AC and move tip against tape head. Removes head magnetism and protects tapes from partial erasures or noise insertions. Shipping weight 1 lb.

No. RP-248, 3 for $9.40 ——— ea. **$3.19**

## BARGAINS!



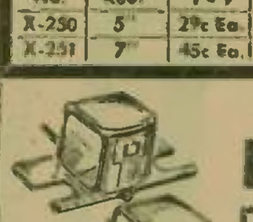
Empty Plastic **REELS**

No. AS-614
**99¢**
4 For $3.50

3" REELS
★ Kit of 5
Fits all miniature and standard tape recorders.

**MORE REEL BARGAINS!**

| Stock No. | Size Reel | Lots of 1 - 9 | Lots of 10 - 99 | 100 or MORE |
|---|---|---|---|---|
| X-250 | 5" | 29c Ea. | 25c Ea. | 20c Ea. |
| X-251 | 7" | 45c Ea. | 35c Ea. | 25c Ea. |



Tape Recorder **HEADS**

No. TA-111
$4.45

★ Record/Play & Erase
★ Instructions & Hardware

A two-piece set consisting of one record/playback and erase head. Mounting centers: ¾" to 1" with bracket. Has ½" mtg. centers on bottom of head. Specifications: Record/Play: ½ track, DC Res. 660 ohms, Impedance 3500 ohms, Bias Current 0.2 ma. Erase: 320 ohms, Erase current 6 ma. Shpg. wt. ½ lb.

# Greatest Olson Stereo Units EVER!

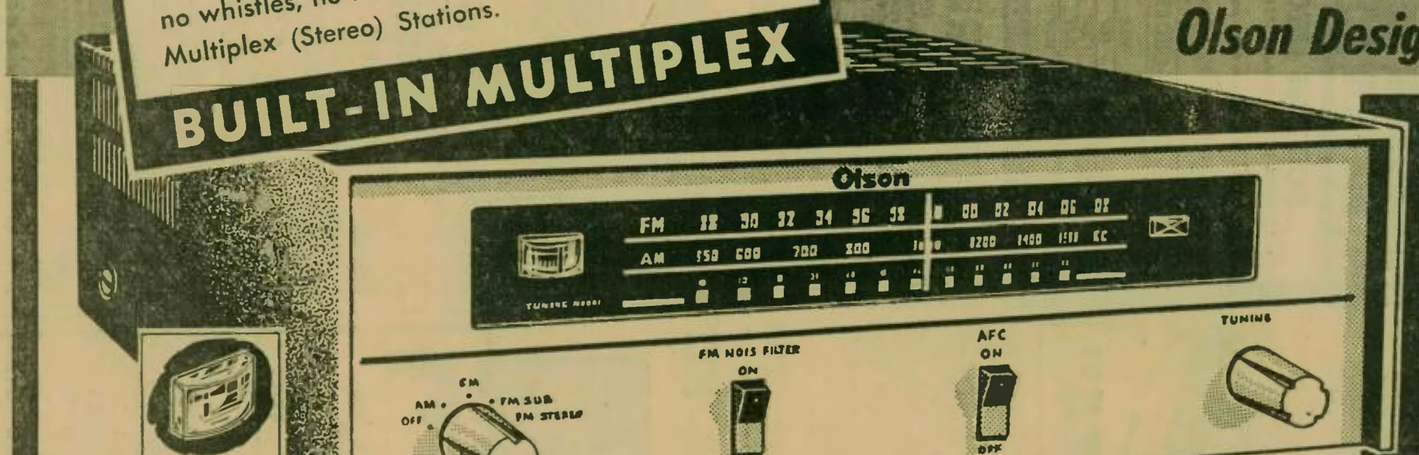
**Olson EXCLUSIVE**

**OLSON Exclusive Stereo Station Selector.** No lights, no whistles, no fumbles. Turn on switch, tune only Multiplex (Stereo) Stations.

**BUILT-IN MULTIPLEX**

## Olson *Classic* FM-AM-FM Stereo Tuner

***Olson Designed-Olson Built...BUY WITH CONFIDENCE!***



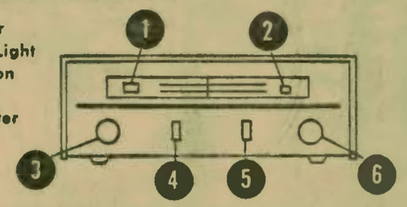

★ *Brushed Aluminum Panel and Knobs With Contrasting Gray Cover!*

No. RA-580

**$79.98**

COMPLETE WITH COVER

$8 MONTHLY




Stereo station selector lets you select only those stations that are broadcasting stereo. No more guess work, no lights, no meters to watch. Just turn to "FM-SUB" and tune across the dial . . . Only stereo stations will be heard. An excellent multiplex circuit has been incorporated into the design in order to make possible the finest reception of FM Multiplex Stereo Broadcasts. Also receives standard FM and AM broadcasts with utmost clarity. Truly effective AFC locks in even the most difficult stations. FM noise filter eliminates hum and noise caused by reflected radio waves. Specifications: Sensitivity: 2uv. for 20 db signal to noise ratio. FM, IF Band Width: 200 Kc. Response: FM, 20-20,000 cps. Image Rejection: better than 40 db. Ferrite loopstick antenna for AM. Tubes: 1-6AL5, 2-6AU6, 1-6X4, 2-6BA6, 1-12AT7, 1-6BE6, 1-6BN8, 1-12AU7 and one 6R-HH2. Size: 14¾" W. x 10⅝" D. x 5⅛" H. with legs. For 110-125 volts AC. 60 cps. Shipping weight 18 lbs.

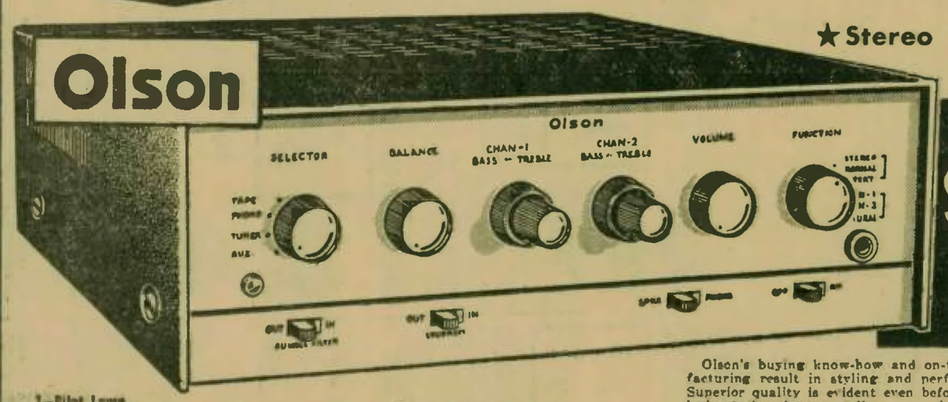
R. G. Greiner, 227 N. Foreman St., Vinita, Okla., wins choice of merchandise worth $5 from Olson's "Treasure Hunt." See back cover for instructions.

No. AS-861 BOTH FOR **$142**

## "Classic" 30 Watt Stereo Amplifier

★ Stereo Headphone Jack

★ Resp: 30-25,000 CPS



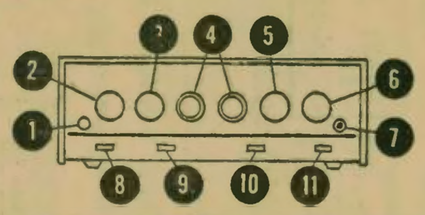

No. AM-229

**$69.98**

WITH COVER

$7 MONTHLY

1—Pilot Lamp
2—Input Selector
3—Balance
4—Tone
5—Volume
6—Mode Selector
7—Stereo Headphone Jack
8—Rumple Filter
9—Loudness
10—Speaker—Earphone Selector
11—Power OFF-ON



Olson's buying know-how and on-the-spot follow-through in manufacturing result in styling and performance that is second to none. Superior quality is evident even before you turn on the switch. One look at the elegant styling . . . the brushed aluminum panel . . . the handsome, textured finish cabinet and you know that here is an outstanding value. But appearance is only half of the story. This "Classic" amplifier has all the features and performance of amplifiers selling for much more than Olson's low price. Specifications: Power Output 50 watts, 15 watts per channel. Frequency response: ± 0.5 db., 20 to 25,000 cps. Harmonic distortion: less than 1% at 10 watts. Hum and Noise: more than 60 db. below rated output. Output Impedance: 4, 8, and 16 ohms. Tape Outputs: high impedance. Tube Complement: 2-12AX7, 4-6BM8, and 1-6CA4. Power Supply: 110-120 volts A.C. 60 cps. Dimensions: 14¾" W. x 9¾" D. x 5⅛" H. with legs. Shipping weight 23 lbs.

Complete set of metal knobs to match tuner above
... KN-19 ..... $1.99

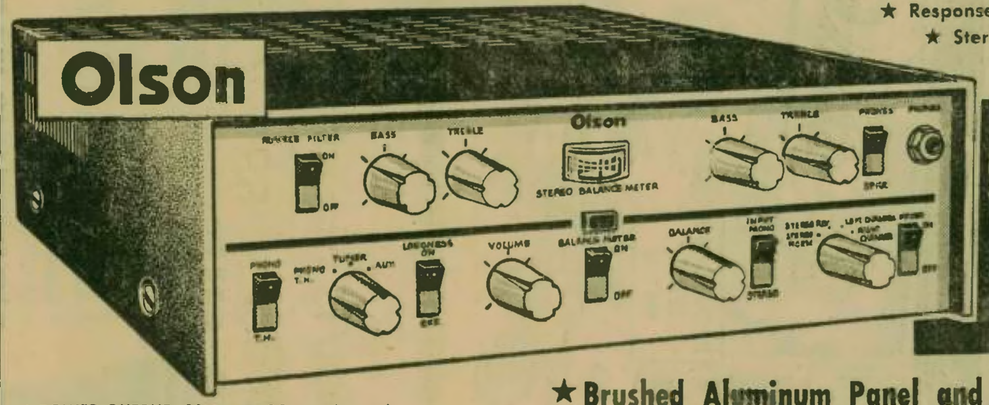
No. AS-862 BOTH FOR **$172**

## "Classic" 50 Watt Stereo Amplifier

★ Response 15 to 40,000 cps.

★ Stereo Headphone Jack

★ Balance Meter




No. AM-240

**$99.98**

WITH COVER

$10 MONTHLY

- **POWER OUTPUT:** 50 watts, 25 per channel
- **HARMONIC DISTORTION:** less than 1%
- **OUTPUT IMPEDANCE:** 4, 8, and 16 ohms
- **CHANNEL SEPARATION:** Greater than 50 db.
- **HUM & NOISE:** 75 db. below rated output
- **TUBES:** 5—12AX7, 4—7189 plus silicon rectifiers
- **SIZE:** 14¾" W. x 10⅝" D. x 5⅛" H. with legs
- **POWER SUPPLY:** 110-125 volts A.C. 60 cps.

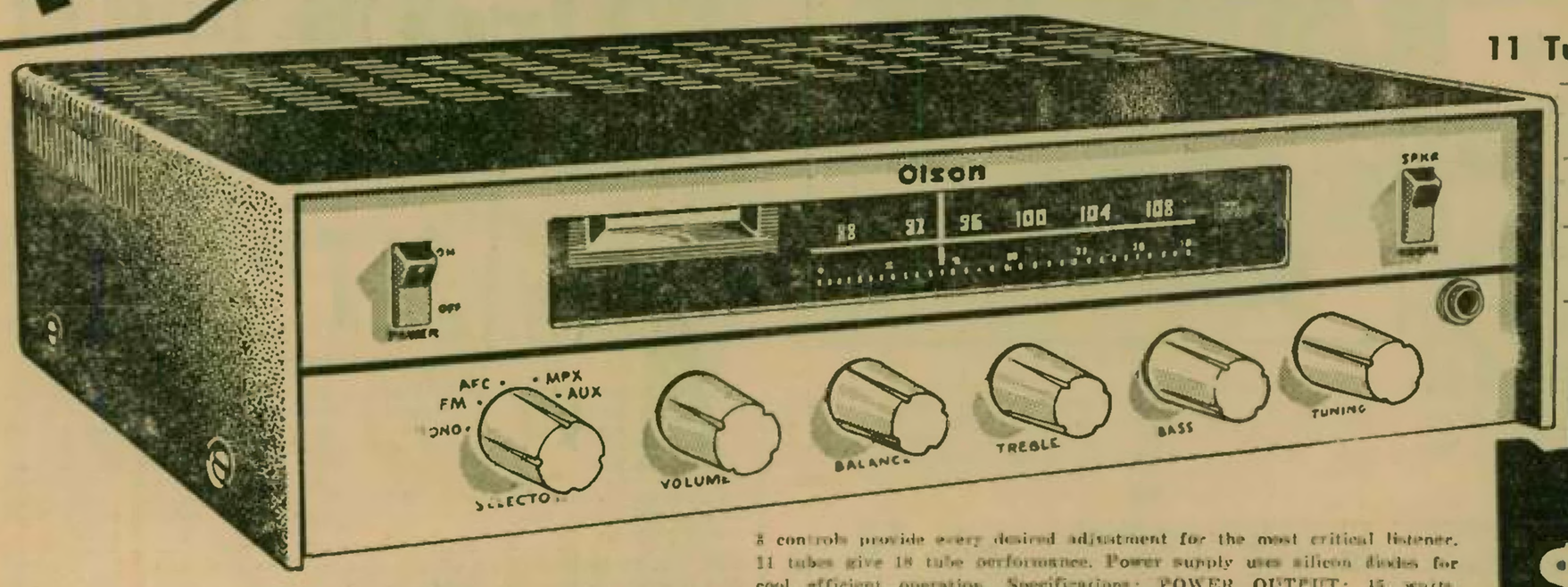
### ★ Brushed Aluminum Panel and Knobs!

This "Classic" stereo amplifier is completely new from cover to output terminals. Truly an outstanding example of advanced style and design. Handsome front panel of brushed aluminum is accented by polished aluminum knobs and all new rocker switches. Cabinet is texture finished in gray with ventilating louvers for cool efficient operation. Electronically this is one of the finest amplifiers we have ever had the pleasure of listening to. Features individual treble and bass controls for each channel plus volume and balance. Selector switch selects: magnetic phono, tape head, tuner and aux. New easy to use rocker switches operate: loudness, meter (off-on); mono/stereo, earphone/speaker, rumble and phono/tape head. Shipping weight 30 lbs.

ALL NEW

# Olson Classic

## FM/FM STEREO TUNER & STEREO AMPLIFIER




11 Tubes—18 Tube Performance

Magic-Bar Tuning Indicator

15 Watt Stereo Amplifier

Built-in Multiplex Stereo

Stereo Headphone Jack

**No. RA-581**

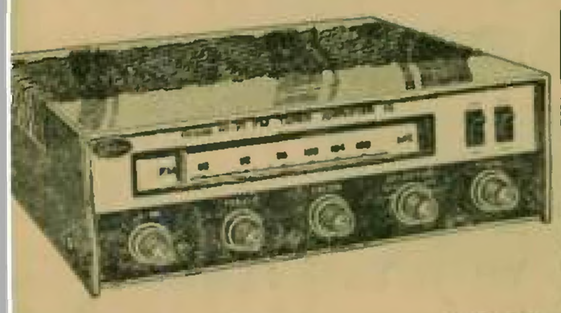
**ONLY**

**$89.98**

**$9 MONTHLY**

Studio quality and elegant styling combined at an unbeatable Olson price. 15 Watts Stereo music power combined with an extremely sensitive FM tuner provides the basis for the finest home or professional music system. Every styling appointment and every advancement in electronic circuitry has been designed into this stereo receiver to give you the utmost in beauty and performance. Super sensitive tuner receives FM and FM multiplex. Magic bar tuning indicator assures positive on-station tuning. 8 controls provide every desired adjustment for the most critical listener. 11 tubes give 18 tube performance. Power supply uses silicon diodes for cool efficient operation. Specifications: POWER OUTPUT: 15 watts, 7½ watts per channel. FREQUENCY RESPONSE: ±3 db, 50 to 20,000 cps. HARMONIC DISTORTION: less than 2%. OUTPUT IMPEDANCE: 4, 8 and 16 ohms. CONTROLS: Selector: phono, FM, FM/AFC, MPX, AUX. Volume, balance, treble, bass, tuning, power and speaker/headphone. POWER SUPPLY: 110-125 volts A.C. 60 cps. TUBE COMPLEMENT: 2—6AQ8, 1—6BA6, 2—12AX7, 2—6AU6, 1—12AU7, 2—6BN8 and 1—6REB. Size 15½" W. x 10½" D. 5" H. Shipping weight 19 lbs.

## Olson FM Hi-Fi TUNER/15 Watt AMPLIFIER



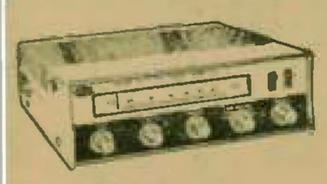
**$69.95** No. RA-550 — $7 MONTHLY

The flawless styling and brilliant performance makes this FM tuner-amplifier an ideal unit for any home music system. Olson FM tuner-amplifier is also ideally suited for background music in doctor or dentist's office and waiting rooms or can be used in factories or restaurants. The FM reception provides a constant source of ever changing high fidelity music. You can plug in your record changer or tape recorder to play your choice of music. The amplifier is equipped with input for ceramic cartridge and pre-amplified input for magnetic phono cartridges. Tuner has Multiplex jack for FM stereo reception. Add this to your present high fidelity system to convert to stereo. Shipping weight 18 lbs.

**Provisions for Multiplex**
**Switchable A.F.C. —**

Sensitivy: 3 microvolt for 20 db quieting
A.F.C.: Reactance tube system
INPUTS: Mag. 5MV. Tape Aux. 100 MV.
OUTPUTS: 8 Ohms and 70.7 V. line
Resp: ± 1 db 20-20,000 CPS at 1 Watt
POWER SUPPLY: 110-125 V. AC, 60 CPS
SIZE: 11⅞" W x 9 1/16" D x 4⅛" H

## BACKGROUND MUSIC SYSTEM



NO. AS-843
$10 MONTHLY
ALL 5 UNITS... **$94**

**HERE'S WHAT YOU GET:**

| | |
|---|---|
| 1—RA-550 FM Tuner & Amplifer (above) | $69.95 |
| 4—S-409 8" Speaker & Baffle (pg. 14) | 4 for $34.66 |
| Total Regular Catalog Price | $104.61 |

## 15 WATT Stereo Amplifier

Olson

- Response 20-20,000 CPS
- Built-In Preamplifiers




No. AM-217
ONLY
**34.98**

Headphone Jack

This compact stereo amplifier really packs a punch. All the features—all the flexibility of the "BIG ONES" at a fraction of the price. Built-in pre-amps to accomodate any magnetic cartridge. Output impedance 4, 8 and 16 ohms. Has standard ¼ inch jack for most stereo headphones. Handsomely styled, satin finished in gold and contrasting brown. With metal cabinet. SPECIFICATIONS: Output: 15 watts, 7.5 watts per channel. Frequency Response: 20-20,000 CPS. Power Supply: 110-125 volts 60 CPS. Dimensions: 12⅝" x 3⅝" x 8½". Shipping weight 10 lbs.



No. AS-841
**$69.99**
$7 MONTHLY

## STEREO ON A BUDGET



**HERE'S WHAT YOU GET:**

| | |
|---|---|
| 1—15 Watt Stereo Amp. No. AM-217 (above) | $34.98 |
| 1—PE 4-speed Changer No. RP-250 (pg. 9) | 18.00 |
| 2—Sonora 8" Speakers & Baffles No. S-539 (pg. 2) | 23.00 |
| Total Regular Catalog Price | $75.98 |

★ Accessories ★

| | |
|---|---|
| Changer mounting base, CA-260 | $3.88 |
| 45 RPM adpt. spindle, No. RP-240 | 2.49 |
| A.C. line cord, No. W-43 | .29 |
| 2—5-ft. Audio cables, W-321 2 for | 1.30 |

## FM STEREO TUNER/30 WATT STEREO AMPLIFIER

Manufactured by **PILOT**

★ Made In U.S.A. ★





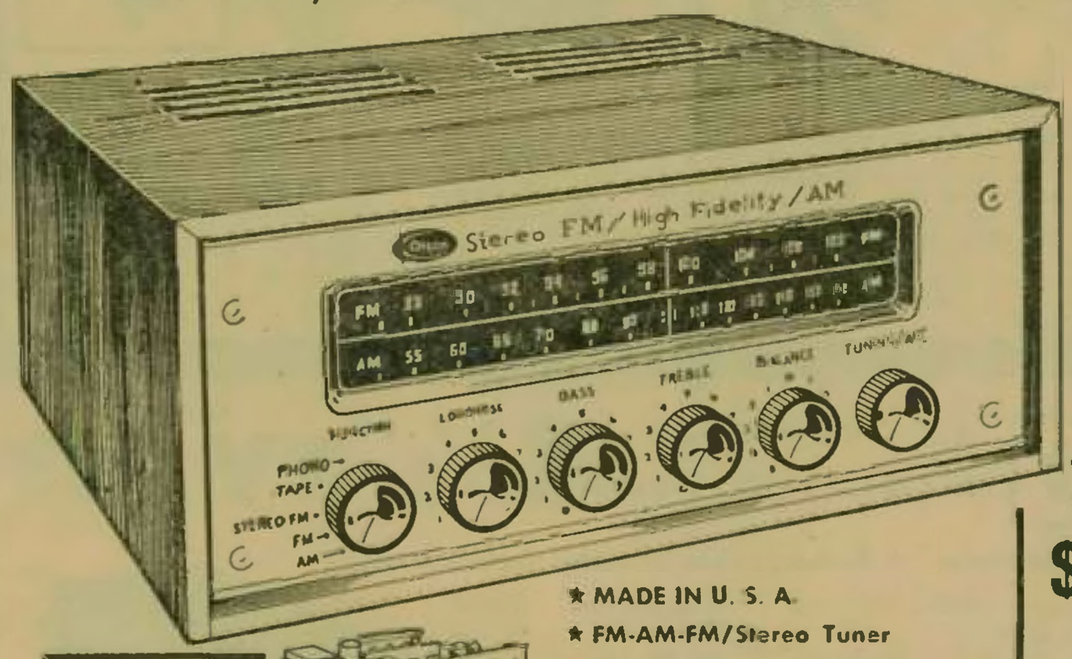

Built in Headphone Jack

★ BUILT-IN MULTIPLEX
★ MAGIC EYE TUNING INDICATOR

Remarkably sensitive FM stereo tuner along with a 30-watt stereo amplifier that will drive any fine speaker system to full room level. A significant feature of the tuner is the stereo beacon that lights when you tune in a stereo station. The amplifier has two heavy duty output transformers and a rugged power transformer for long lasting dependable service. Separate bass and treble controls plus loudness switch give you the greatest possible flexibility. Tape monitor allows you to hear the signal you have recorded on tape a fraction of a second after it has been recorded. Mode switch permits playing any mono signal through both channels. An AC convenience outlet is located on the back of the amplifier to supply power to your record changer. Tuner sensitivity: 4 μv. Amplifier response: 18 to 30,000 cps, output impedance 8 and 16 ohms, output power 30 watts—15 per channel. Complete with vinyl covered metal cover and mounting instructions. Front panel is finished in brushed aluminum to contrast with any decor. 110-120 V. AC. 60 cps. Size: 5" H. x 15⅝" W. x 10⅞" D. Shipping weight 24 lbs.

No. RA-600
**$149.99**
$9 MONTHLY
★ Complete With Cabinet

## FM-AM/FM Stereo Tuner Amplifier




Olson

★ Receives **FM STEREO** Broadcasts ★

No. AM-230
**$99.93**
$10 MONTHLY
Less Cabinet

FOR CUSTOM INSTALLATION



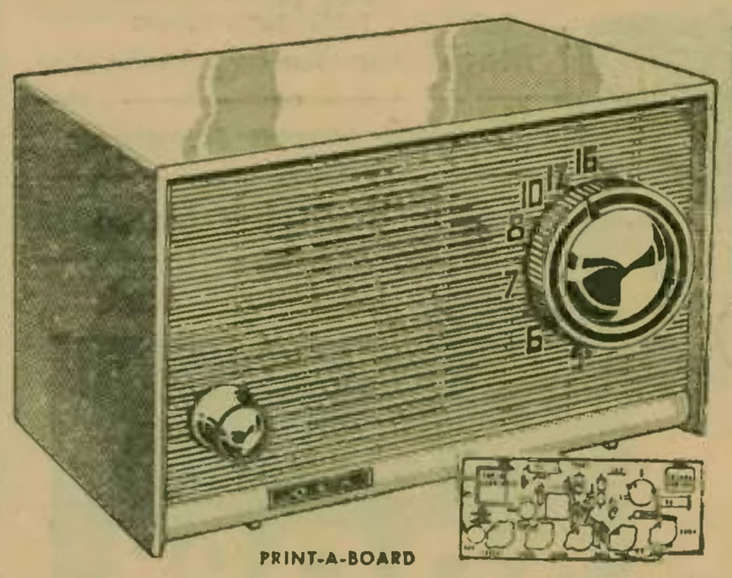
★ MADE IN U. S. A.
★ FM-AM-FM/Stereo Tuner
★ 20 Watt Power Amplifier
★ Built-In Preamplifier
★ Illuminated Slide Rule Dial

Olson breaks the price barrier. Compare the specifications . . . compare the quality . . . compare the design. Olson purchasing "know-how" keeps the price low. Twenty watts of stereo power combined with an FM-AM stereo tuner provides in one compact unit an unsurpassable control center. The perfect heart for even the finest stereophonic music system. Every needed feature has been included to give you the best from tape, records or radio. Employs the most advanced circuitry, including AFC for perfect drift-free FM reception. Specifications: Power: 20 watts (10 per channel). Response: 40-20,000 cps. Inverse feedback for minimum distortion. Built-in preamplifiers to accommodate any magnetic cartridge. Separate bass and treble controls, loudness and balance control. AFC defeat switch on tuning shaft. Size: 14½" x 5½" x 10½" D. For 110-130 V. AC. 60 cps. Shipping weight 20 lbs.

OILED WALNUT CABINET for Tuner-Amplifier above, No. CA-277 ——— $15

# DO IT Yourself — Fantastic KIT BARGAINS — SAVE

## Olson 5 Tube Printed Circuit RADIO KIT

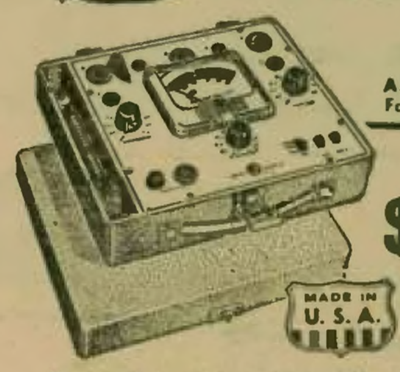



**$8.98** No. KB-150 (LESS TUBES)

The mounting of each part is a simple operation because of the specially designed "Print-a-Board" circuit board layout employed, coupled with the easy to follow "Quick-Step" instructions. The high gain tubes, IF transformers and ferrite bar antenna result in excellent sensitivity. 4" PM speaker. 110-125 volts AC or DC. Shipping weight 5 pounds.

KIT OF 5 TUBES FOR ABOVE
No. AS-533 ..... Per Kit **$2**

## Olson Portable TUBE TESTER KIT




**PRE-FAB KIT CONSTRUCTION**

All Major Components Premounted and Tested at Factory

No. KB-142 **$17.95**

- ★ Checks All Modern Tubes
- ★ Checks Shorts & Leakage Between all elements
- ★ A Pleasure To Build

Designed to test modern tubes in radio, TV and Hi-Fi equipment. Single rotary switch speeds operation over slow quadrascope single slide switches. Simply plug tube into appropriate socket, set filament switch for proper voltage and rotate element switch, shorts show on leakage indicator. Tube emission is read on large easy to read meter face as good, ?, bad. Olson's easy to read step-by-step instruction manual with large, clear diagrams assure professional style construction and performance. Housed in handsome, rugged carrying case with removable cover. For 110-125 volts AC 60 CPS. Size: 10½" x 8¾" x 3½". Shipping weight 6 lbs.

OLSON TUBE TESTER (NOT A KIT wired & ready to use) No. TE-153 ..... $21.95
Picture Tube Test Adaptor No. TE-154 ..... $ 3.83

MADE IN U. S. A.



## PACO FM STEREO TUNER KIT

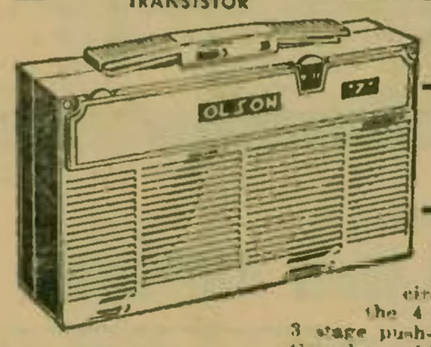
**$45** No. KB-148 (Less Cover)

- ★ Complete with Multiplex
- ★ "Magic Eye" Tuning
- ★ Compatible with any Stereo System

A complete FM Stereo/Multiplex tuner kit, budget priced, with the features and performance of much higher priced units. Complete well illustrated instruction manual, carefully marked and packaged parts, prealigned shielded front end. No effort has been spared to make this the finest FM tuner kit available. Check these specifications—Freq. response: 30-15,000 cps ±2 DB. Distortion, less than 1% at 100 micro-volts input. Wide Band Ratio Detector. Dual Limiters. AM Suppression: better than 25 DB. IHFM Sensitivity: 4 microvolts. Quieting Sensitivity 1.5 microvolts for 20 DB. 2.5 microvolts for 30 DB. AFC defeat. 13" W. x 8⅝" D. x 3⅞" H. For 110-125 volts AC. 60 CPS. Shipping weight 10 lbs.

Metal cabinet for above, No. CA-261 ..... $4

## 7 Raytheon Transistor RADIO KIT




- ★ Preassembled Printed Circuit
- ★ Large 3" PM Speaker
- ★ 7 Raytheon Transistors

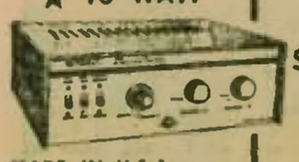
No. KB-137 OLSON PRICE . . . **$15**

Housed in a handsome Hi-impact styrene case. Construction is simplified through use of two pre-wired printed circuit modulars. One modular contains the 4 stage tuner and the other modular a 3 stage push-pull audio amplifier. 7½" x 4½" x 2". Complete with all parts and instructions. Less batteries. Shipping wt. 2½ lbs.

MADE IN U. S. A.
Batteries (4 req'd.) No. BA-e7 ..... 8 for 59c

## MERRELL Stereo Amplifier Kit

★ 16 WATT



No. KB-151 **$29.95** Lots of 3, Ea. $29 (Less Cover)

MADE IN U.S.A.

Complete with large, clear, step-by-step instructions. Power Output: 8 watts per channel. Peak Power Output: 16 watts each channel; 32 watts combined peak power. Frequency Response: 20 to 20,000 CPS. Inputs: 6 (3 pairs) mag. phono/tape, tuner, crystal phono. Output Impedance: 8 ohms. Tubes: 2—7025/ECC83/12AX7; 2—EL84/6BQ5; 1—5Y3 rectifier. Size: 12¾" wide x 8" deep x 4¼" high. 110-125 Volts AC, 50-60 CPS. With tubes and instructions. Shipping weight 13 lbs.

COVER FOR AMPLIFIER
No. CA-268 ..... $4.95

## MERRELL Stereo Amplifier Kit

- ★ Williamson Type Circuit
- ★ Decorator Styled Panel
- ★ 40 Watts

Made in U. S. A.



No. KB-162 **$49.95** (less cover)

Power Output of each channel is 20 watts. Frequency response is 20-20,000 cps. Front Panel Controls: Function Selector, Dual Loudness Control, Balance Control, Dual Bass Control, Dual Treble Control. Switches: Mode, Stereo/Monaural, Equalization, Power. 4 Dual Inputs: Tape/Lo Phono, Hi Phono, Tuner, Auxiliary. Outputs: Dual Tape, 4, 8, 16 ohm speakers. Tape Equalization: NARTB. Record Equalization: RIAA. Tube Complement: 2-7025/ECC83/12AX7, 4-EL84/6BQ5, 2-ECC81/12AT7. For 110-125 volts A.C. 60 cps. With tubes and instructions. Shpg. wt. 26 lbs.

Cover for Amp
No. CA-296 ..... $8.95

## MERRELL 12-Watt Amplifier Kit

★ Williamson Type Circuit



No. KB-68 **$19.66** Lots of 3, Ea. $19

MADE IN U.S.A.

Response ± 1DB 20 to 30,000 CPS, 4 inputs: magnetic phono: tape: crystal phono; tuner/radio; mike/aux. Output impedances: 4, 8, and 16 ohms, special design Williamson type output transformer, 4 controls, function, loudness, bass, treble/power switch. 5 tubes: 1—12AX7/ECC83, 1—12AT7, 2—6V6 and Rectifier Tube. Size: 11" x 7". 110-125 V A.C., 50-60 CPS. With tubes and instructions. Shipping weight 11 lbs.

## Westrex TRANSISTORIZED 2-BAND RADIO WITH TAPE PLAYER

★ Portable



**$25** No. RA-556 Mfr. 1961 Suggested List: $99.95

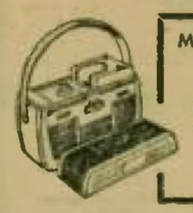


- ★ AM Band
- ★ Marine Band
- ★ Tape Player

This Westrex powerful 2-Band Radio with unique portable Tape Player features push button operation and makes band selection quick and positive. Radio circuits and tape player function entirely on battery power. Operates on standard 6 volt lantern battery (not included). Low drain transistor circuit. Has built-in jacks for phono and external speaker. Marine band: 150 KC to 260 KC. AM band tunes 540-1600 KC. Size: 12" x 8" x 4". Shipping weight 14 lbs.

Magazine loading tape cartridge just drops in to play—no reels to handle—no threading—no rewinding. Easier to handle than a record. Insertion of tape cartridge into player is simple and absolutely foolproof.

Battery (1 req'd.) No. BA-92 ..... $1.1
FM-AM, Short Wave, Tape Player, No. RA-557, $60 in 263 Cat., NOW ..... $5



Mfr. 1961 Suggested List: $69.95 **$15** No. RA-555

### Westrex Transistorized TAPE PLAYER

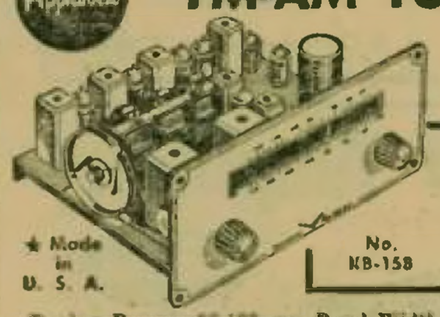
Same fine features as RA-556 but less radio—it's a tape player only. With transistorized push-pull amplifier and wide range speaker for true hi-fidelity reproduction of your favorite pre-recorded music (less battery). Size: 12" x 8" x 4½". Shpg. wt. 13 lbs.

Battery (1 req'd.) No. BA-92 ..... $1.1

## SALE! Imperial FM-AM TUNER KIT

12 TUBES

5 μV Sensitivity



★ Made in U. S. A.

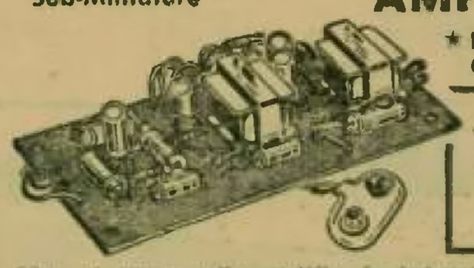
Mfr's. 1961 List Price $38.50 **$29** No. KB-158

Tuning Range: 88-108 mc. Band Width: 200 kc. Sensitivity: 5μv - 20 db. Response: 20-20,000 cps. Tubes: 6BC6, 2-6AB4, 4-6AU6, 6AL5, 6C4. AM Specifications: Tuning Range: 540-1650 kc. Tuned RF stage. Sensitivity: 5 microvolts. Size: 9¾" L x 5" H x 2" W. NOTICE: External power supply requirements: 190 volts DC @ 55 ma. and 6.3 volts AC @ 4 amp. (can be tapped from amplifier power supply).

Approved FM TUNER KIT SALE
Nine tubes. Slide rule dial. No drift temperature compensated components. Shpg. wt. 9½ lbs. (Mfr's 1961 price $33.50).
No. KB-157 (Mfg. 1961 Price $33.50) ..... Ea. $19

## 4 Transistor Sub-Miniature AUDIO AMPLIFIER

★ Push-Pull Output



No. AM-237 **$4.95**

This miniature audio amplifier is designed for use by experimenters and hobbyists in many kinds of electronic projects. The circuit utilizes 2-2SB170 transistors and 2-2SB172 transistors terminated in a 3 ohm output transformer. Uses a standard 9 volt transistor radio battery (not included), which provides an output of 200 milliwatts, sufficient for portable radios, tape recorders, intercoms, and midget P.A. systems, etc. Two stages of audio amplification are followed by a push-pull output stage which delivers plenty of power for a loud speaker. Size: 3⅛" x 1⅝" x ¾". Includes complete instructions and schematic diagram. Shipping weight ¼ lb.

Battery for Amp. (1 req'd), No. BA-89 ..... 21c

## NEW! Westrex PRE-RECORDED TAPE

20 MINUTE TAPES YOUR CHOICE . . . $2 Shpg. wt. ¼ lb.



ONE HOUR TAPES YOUR CHOICE . . . $4.50 Shpg. wt. ½ lb.

TA-97 HELEN O'CONNELL: Embraceable You, Brazil, Blue and Broken Hearted, others.

TA-98 SONS OF THE PIONEERS: One More Ride, Hasta La Vista, Far Enchanted Isle, others.

TA-99 DOROTHY OLSON: Children's songs. Barnyard Song, The Little Duck, Butterfly, others.

TA-100 HIT PARADE: Tossin and Turnin', Boll Weevil Song, Stand By Me, others.

TA-101 DANCE FAVORITES: Fox-trot medley from "My Fair Lady," "Damn Yankees," others.

TA-102 LATIN MELODIES: Lisbon Antiqua, Brazil, Tico Tico, Guanto le Gusta, Perfidia, others.

TA-103 MOOD MUSIC: Selection from Rodgers, Porter, Blue Moon, Misty, Indian Summer, others.

TA-104 DANCE FAVORITES: The Lady Is a Tramp, Apple Blossom Time, My Blue Heaven, others.

TA-105 TOPS IN POPS: Pretty Little Angel Eyes, I've Told Every Little Star, I'll Be There, others.

TA-106 LET'S DANCE: Blue Moon, Stormy Weather, Solitude, Stardust, Singin' In The Rain, others.

## Delmonico ALL TRANSISTOR MINIATURIZED 4½" PORTABLE TV SET

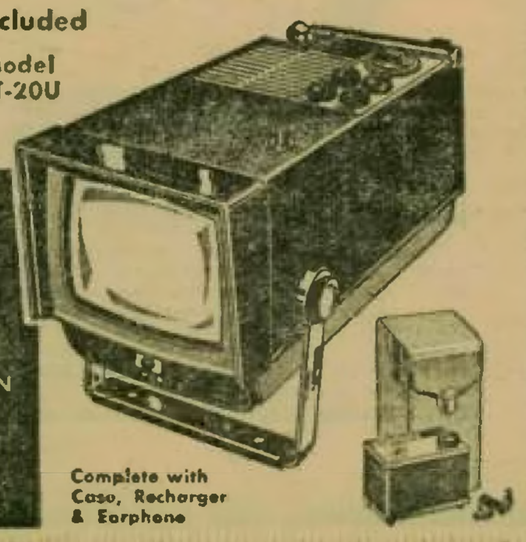
★ Attached Battery Compartment ★ Rechargeable Batteries Included

All transistor 4½" Battery Portable TV with convenient carrying handle. New low-power consumption circuitry. Instant on picture and sound. Built-in 13 section telescopic antenna circuitry. New keyed AGC noise limiter and AFC circuitry for better picture stability. 25 transistors and 25 diodes. Operates from 115 volts AC by use of charger unit (included). Rechargeable alkaline batteries will operate set for up to 8 hours on a single charge. Batteries fit into compartment on bottom of set. No extra battery packs to carry. Battery charger contains advance design circuitry to prevent overcharging. Set has 2½" full fidelity speaker plus earphone jack for private listening. Only 7½ pounds including batteries. Size 4" w. x 5" h. x 9" d. Includes sturdy, convenient, leather carrying case. Shipping weight 9 lbs.

8

★ Operates On Battery or Electric — Model 4T-20U

**$11** MONTHLY NO MONEY DOWN $169.95 No. RA-603



Complete with Case, Recharger & Earphone

## 6 TRANSISTOR RADIO CHASSIS

SALE! ★ Chassis pre-wired



No. KB-145 **$4.99** Less Transistors

Miniature 6 transistor radio chassis for custom mounting anywhere. Completely assembled and ready to mount (less transistors). Powerful push-pull output will drive any size speaker to room filling volume. Has earphone jack. Uses standard 9 volt battery (not included). With transistor mounting instructions. Size: 2¼" x 3" x 1⅛". Standard shirt pocket size. Shipping weight ¾ pound.

Set of 6 Transistors, No. TR-20 ..... $1.99
2¼" PM Speaker No. S-502 ..... 1.19
Earphone, No. PH-81 ..... .54
Battery, No. BA-89 ..... .21

## 2 TRANSISTOR TUNER CHASSIS



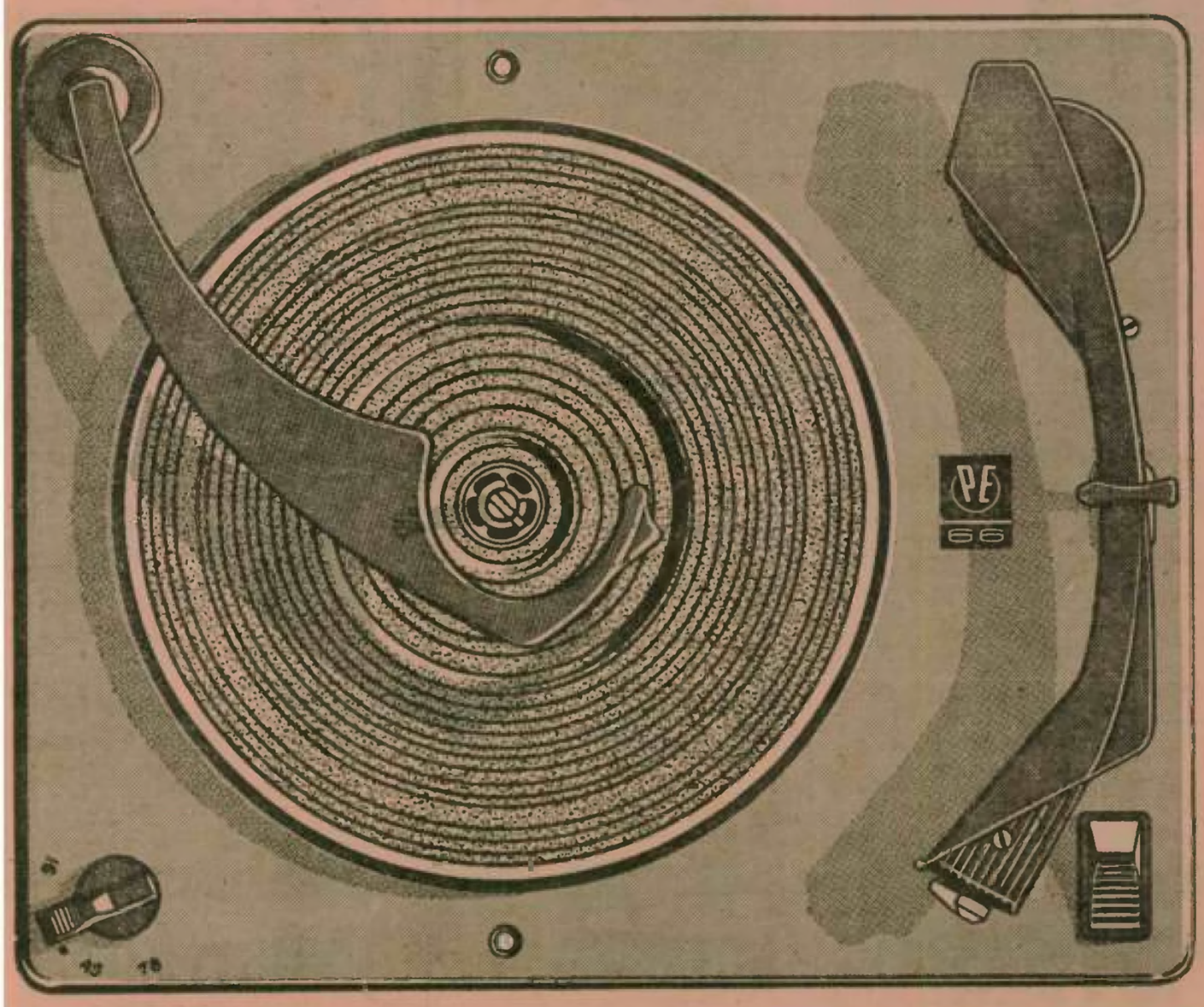
**$1.99** No. RA-586

Add this AM tuner chassis to phono or PA system for news and music. Completely assembled less transistors and diode. Uses ferrite core antenna for maximum sensitivity. Tuner may also be connected directly to an ear phone to make a complete personal, portable. Requires standard 9 volt battery (not included) plus 2 PNP transistors and a 1N34 type diode (not included). Shipping weight ¼ lb.

Battery (1 req'd.) No. BA-89 ..... 21
TRANSISTOR AND DIODE KIT for above. Contains 2 PNP transistors plus one diode for radio chassis No. RA-586 (above).
No. TR-23 ..... 99

# PERPETUUM-EBNER STEREO CHANGER

★ Imported from Western Germany
★ With Ceramic Turnover Cartridge
★ 4-Speed Automatic
★ Rugged 4-Pole Motor



Made in Europe by craftsmen who take great pride in quality workmanship. Every detail of construction is painstakingly followed to give you absolutely flawless performance. Change cycle is carefully timed to handle your records with the utmost care. Balanced tone arm equipped with stereo ceramic turnover cartridge, gives light, skip-free tracking. Easily adjusted to meet any cartridge compliance requirement. Large turntable and heavy-duty 4-pole motor give smooth, quiet operation that is free from rumble or wow. Turntable top has non-slip foam-rubber mat. Neutral position on speed selector disengages drive wheel to prevent flat spots. Plays all size records, both stereo and monaural with utmost clarity and fidelity. Automatic shut-off after last record. Four speeds 78, 45, 33⅓ and 16 RPM. Size: 13" x 10⅝" x 5⅝" above mounting board and 3⅝" below. 110 to 125 volts AC 60 CPS. Shipping weight 12 lbs.

**No. RP-250 $18**

| | |
|---|---|
| Mounting Base, No. CA-260 | $3.88 |
| 45 RPM Spindle, No. RP-240 | 2.49 |
| AC Line Cord, No. W-43 | .29 |
| 2-5 Ft. Audio Cables, No. W-321, 2 For | 1.30 |

# SALE REK-O-KUT STEREOTABLE



★ Solid Cast Aluminum Table—Lathe Turned
★ Low Rumble Belt Drive
★ Hysteresis Synchronous Motor

**$29.99** No. RP-232 Was $41.95 in 263 Cat.
Turntable Only

**Walnut Base, No. CA-247 ..... SALE @ $7.50**

This fine stereotable designed for stereo records demanding requirements, incorporates a special molded REKOTHANE drive belt made to Olson's specifications. The hysteresis motor is sealed and lifetime lubricated for trouble free performance. Special variable adjustment maintains optimum belt tension. Noise level 57 DB below average recording level. Wow and flutter .15%. Size: 15⅝" x 15⅝" x 4¼" below deck. For 110-125 V. A.C. 60 cps. Shipping weight 15 lbs.

## Stromberg-Carlson 12" Transcription ARM



★ Universal Cartridge Mounting

Handsomely styled and finished in brushed aluminum. Features calibrated adjustable counterbalance and single needlepoint bearing. Universal cartridge mounting will accommodate any standard cartridge. This arm is completely wired and includes two audio cables with plugs. All mounting hardware is included plus arm rest post. Shipping weight 2¼ lbs.

**No. RP-234 $14.99**

## VM Stereo CHANGER

MADE IN U. S. A.



**No. RP-176 $24.95 3 for $69**

Famous VM four-speed record changer with stereo cartridge. Plays manually or automatically and shuts off after last record has played. Heavy duty motor drives large, rubber matted, weighted turntable. Plays all 7", 10" and 12" records at all four speeds. (16⅔, 33⅓, 45 and 78 RPM). Size: 11⅝" x 13½". For 110-125 volts A.C., 60 CPS. Shipping weight 13 lbs.

★ ACCESSORIES ★

| | |
|---|---|
| Diamond Needle, No. N-122 | $1.69 |
| Mounting Base, No. CA-65 | 4.88 |
| 45 RPM Spindle No. RP-106 | 2.99 |
| Line Cord, No. W-43 | .29 |
| Phono Cord, No. W-321 | .65 |

## BSR Stereo CHANGER

Model UA-14



MADE IN ENGLAND

**No. RP-222 $19.95 3 for $59**

Plays stereo and monaural discs any size up to 12" in diameter, automatically. 4 speeds. Rubber padded, weighted turntable is driven by oversize induction motor. Has turnover hi-fi crystal stereo cartridge with dual sapphire styli. Handsome tan finish. Size: 13¼" x 11½". Height above: 5½" x 2½" below. Operates on 110-125 volts AC 60 cps. Shipping weight 12 lbs.

★ ACCESSORIES ★

| | |
|---|---|
| 45 RPM Spindle, No. RP-7 | $2.37 |
| Mounting Base, No. CA-212 | 4.88 |
| Line Cord, No. W-43 | .29 |
| Phono Cord, No. W-321 | .65 |

# Garrard STEREO Record Changers

## GARRARD STEREO CHANGER & CARTRIDGE COMBINATION DEALS!

YOUR CHOICE 1¢ EXTRA With Purchase of Any GARRARD Changer Below



**SHURE M3D Professional Stereo CARTRIDGE**
No. PC-95
Available Separately
**$15.88**
Description Page 10



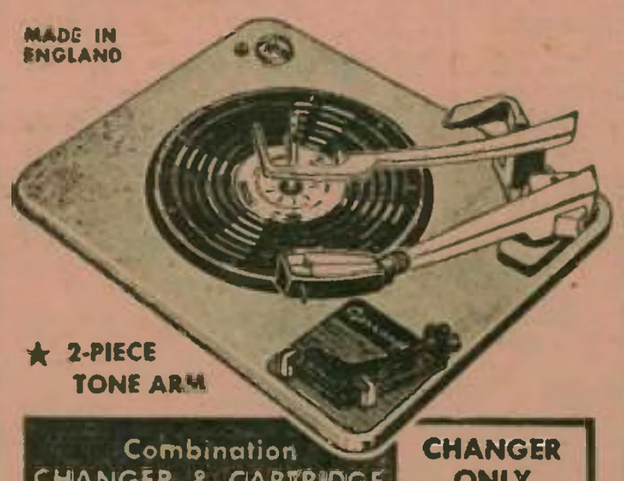
AUDIO EMPIRE 880
**STEREO CARTRIDGE**
No. PC-102 **$17.95**
Available Separately
Description Page 10



PICKERING U36/AT
**STEREO CARTRIDGE**
No. PC-96 **$16.88**
Available Separately

## Garrard AUTOSLIM/P MARK II

MADE IN ENGLAND



★ 2-PIECE TONE ARM

Combination CHANGER & CARTRIDGE **$39.51** No AS 651 ★

CHANGER ONLY **$39.50** No. RP-224

Versatile: This automatic-manual intermix changer has numerous new features: New, two piece tone arm, specially designed 4 pole motor. Separate manual and automatic controls. Changer designed to give you perfect torque, balance and quiet running. Compact clean simple design in grey with white trim. Plays all sizes and speeds, stereo or monaural. Size 14½" x 12½" x 2⅝" below mtg. board, 4½" above mtg. board. 110-125 volts A. C. 60 CPS. Shipping weight 13 lbs.

| | |
|---|---|
| Molded, Plastic Dust Cover. No. CA-301 | $4.95 |
| 45 RPM Spindle, No. RP-228 | $3.80 |
| Mounting Base, No. CA-151 (Pg. 10) | $4.88 |

Arthur Whitten, RFD 1, Epping, N. H., wins choice of merchandise worth $5 from Olson's "Treasure Hunt." See back cover for instructions.

## Garrard AT6

MADE IN ENGLAND



NO MONEY DOWN
**$6 MONTHLY**

| | |
|---|---|
| No. AS-695 Combination Changer & Cartridge | $54.51 |
| No. RP-225 Changer Only | $54.50 |

Moderately priced automatic turntable for those who want the professional features of a turntable with the convenience of a changer. Plays all sizes and speeds, stereo or monaural. Oversize turntable assures a smooth, silent, accurate operation. Dynamically counterbalanced adjustable tubular tone arm. Quiet 4 pole shaded motor. Size: 14½"x12½"; 4½" above mounting board, 2⅝" below. 1½" required at rear and arm side of base for counter weight. 110-125 volts AC, 60 cps. Shipping weight 14 lbs.

| | |
|---|---|
| Molded, Plastic Dust Cover. No. CA-300 | $4.95 |
| 45 RPM Spindle, No. RP-235 | $3.80 |
| Mounting Base, No. CA-151 (Page 10) | $4.88 |

SHURE Model M99/AT6 "Gard-A-Matic" STEREO CARTRIDGE
★ Diamond Stylus
★ Factory Wired
No. PC-104 **$49.50**

Garrard-Shure COMBINATION DEAL
Garrard Type AT6 Changer (Above)
Shure M99/AT6 Cartridge (Left)
Shpg. Wt. 12½ lbs.
BOTH FOR **$64.50** $7 MON. No AS-786

## Garrard TYPE "A"

MADE IN ENGLAND



NO MONEY DOWN
**$8 MONTHLY**

| | |
|---|---|
| No. AS-532 Combination Changer & Cartridge | $79.51 |
| No. RP-202 Changer Only | $79.50 |

Garrard's finest changer, a full size, two piece professional turntable, with unique foam disc for damping noise & vibration. Exclusive pusher-type mechanism. Simple one knob leveling device, laboratory-balanced motor for low rumble. Dynamically balanced tone arm. Plays all 4 speeds, 7—10—12" records monaural or stereo. Size: 16" x 12⅛" x 3⅝" below mtg board, 6" above mtg. board. 110-125 volts AC, 60 cps. Shipping weight 23 lbs.

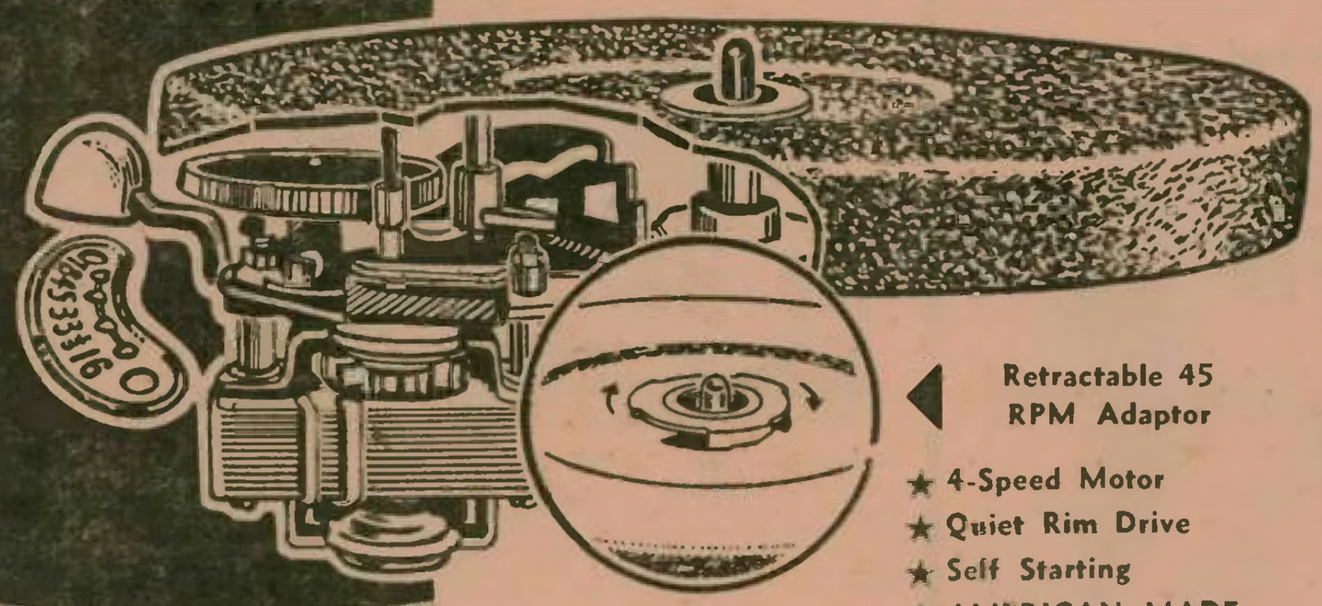
| | |
|---|---|
| Molded, Plastic Dust Cover. No. CA-299 | $4.95 |
| Extra Plug-In-Head, No. RP-204 | $ 1.50 |
| 45 RPM Spindle No. RP-41 | $ 3.80 |
| Mounting Base, No. CA-40 (Pg. 10) | $4.88 |

SHURE Model M99/A "Gard-A-Matic" STEREO CARTRIDGE
★ Diamond Stylus
★ Factory Wired
No. PC-103 **$49.50**

Garrard-Shure COMBINATION DEAL
Garrard Type "A" Changer (Above)
Shure M99/A Cartridge (Left)
Shpg. wt. 23½ lbs.
BOTH FOR **$89.50** $9 MON. No. AS-785

# alliance

## 4-SPEED Motor & Turntable



◀ Retractable 45 RPM Adaptor

★ 4-Speed Motor
★ Quiet Rim Drive
★ Self Starting
★ AMERICAN MADE

**$4**
No. MO-56

Genuine Alliance 4-Speed phono motor with heavy, felt covered, turntable. Self-starting, precision built motor drives turntable through large rubber idler wheel to keep noise and vibration to a minimum. All 4 popular speeds, 16⅔, 33⅓, 45 and 78 RPM can be played on this fine turntable without an adaptor. Retractable disc in center of turntable fits large hole in 45 RPM records. Complete with selector arm and index plate for speed change. Operates on 110-125 volts AC, 60 cps. Write for special large quantity prices. Shipping weight 6 lbs.

## BUILD OR REMODEL
YOUR OWN MONO OR STEREO PHONO



Build or remodel your own phono by combining the 4-speed motor above with either tone arm (RP-230 or RP-220) and amplifier (AM-16) listed below. Select any size speaker from those listed on page 12.

## Crystal HEADPHONES
NEW! ★ Resp.: 100 to 10,000 CPS ★ 85,000 OHMS



No. PH-87
**$4.99**
Lots of 3, $4.50 ea.

85,000 ohms impedance. Response: 100 to 10,000 cps. Spring steel adjustable headband, covered with soft cushion plastic. 4 ft. cord with phone tips. Complete with instructions. Shipping weight ½ lb.

## HEADPHONES



**$1.99** No. PH-71

New headphones 4,000 ohm impedance. Spring steel headband, fully adjustable, flexible cord over 3 feet long, useful for schools, home, etc. Shipping wt. ½ lb.

8 Ohm Phones with ⅛" Phone Plug
Shipping wt. ½ lb.
No. PH-27—Lots of 12, $2 Ea **$2.86**

## EARPHONES
★ 2,000 OHMS



No. PH-8
**$1.19** Ea. 3 for $3 100 @ 75c each

⅝" x ⅝" diam. Resp. 50 to 4,000 cycles. 3 ft. cord and plug.

## PHONO ARM
★ For Stereo or Monaural Use!



No. RP-237

2 HEADS INCLUDED **$9.95**

This new 12" phono arm is dynamically balanced, and will track at lowest pressure recommended by cartridge manufacturers. May be mounted on any turntable. Shipping weight 2 lbs.

## PHONO LIGHT



Illuminates record changer when cabinet lid is raised. Chrome frame with opaque white lens. Size: 3⅝" x 1⅝". For 115 volts AC. With bulb. Shipping weight ¼ lb.

3 for $3.00
No. RP-181, lots of 12, ea. 75c **$1.29**

## STYLUS MICROSCOPE



3⅝" x ⅝". 60 power. Lots of 12, ea. 88c.

10
No. N-92, 3 for $3.00 **$1.19**

## MONAURAL Phono Arm



No. RP-236
**$1.59** 3 for $4.50

★ TURNOVER ALL SPEED CARTRIDGE

Response 50 to 13,000 C.P.S. Lightweight tone arm, spring counter balanced for use in manual players, plays all 4 speeds. Output—.5 volts. Dual sapphire styli. Complete with mounting hardware, 9" long. Shipping weight ½ lb.

## Deluxe STEREO PHONO ARM
With 4-speed turnover cartridge. Dual sapphire styli. Shipping weight ¾ lb.

No. RP-220, 3 for $5.50 Ea. **$2**

## MITY-AMP 2-WATT AUDIO AMPLIFIER



**$8.40** No. AM-218

A power packed amplifier so small it fits into the palm of your hand. Encapsulated in high grade epoxy making it waterproof and shock proof. Applications: phono amp., intercom amp., public address amp., signal tracer amp., and many, many more. Operates on 9 to 12 volts D.C. Delivers 2 watts of audio with ½ volt input. Hi or Lo impedance input. Frequency Response: 20-15,000 CPS. Size: 2" x 3½" x ⅞". Shipping weight 2 lbs.

## PHONO PREAMP



**$5.95** No. AM-220

A self powered preamplifier for low level magnetic phono cartridges, microphones, and tape heads. Uses dual triode 12AX7. Response: ±2 DB 30 to 20,000 CPS. Size: 3⅝" x 3⅝" x 2⅞". For 110-125 volts A.C., 50-60 CPS. Supplied less tube. Shipping weight 4 lbs.

12AX7 Tube for above (1 required) $1.23

STEREO PREAMP Two preamps in one for stereo, less tubes. Size: 5⅜"x2⅝"x4½". Shipping weight 4 lbs.

No. AM-221 **$9.98**

12AX7 Tubes for above (2 req'd) Ea. $1.23

## CHANGER BASES
★ Made in U.S.A.



YOUR CHOICE **$4.88**

Solid wood construction with handsome dark wood finish. Pre-cut to match changer exactly. Overall size: 14¾" x 12¼" x 3⅝".

| | |
|---|---|
| For Garrard Type "A" | No. CA- 40 |
| For Garrard Autoslim & AT-6 | No. CA-151 |
| For Monarch UA-14 | No. CA-212 |
| For VM 1200 | No. CA- 65 |

Shipping Wt. 3 lbs.

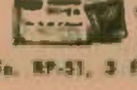
## PHONO SLIDES



Ball bearing slides extend to 19" Capacity 50 lbs. Lots of 12 pr., ea. pr. $1.25. Shipping wt. 3 lbs.

No. X-642, 3 pr. for $4.50 pr. **$1.69**

## RECORD KLEENER CLOTH



Silicon treated. Eliminates static charges, also lubricates. Shipping wt. ½ lb. Lots of 12, ea. 38c.

No. RP-51, 3 for $1.00 Ea. **44c**

## PHONO AMPLIFIER
MADE IN U.S.A.



No. AM-16
**$3.95** (Less Tubes) Two for Stereo $7.50

Easily attached to any phono. Equipped with tone and volume controls. Size: 4½" x 2½" x 5". Less output transformer. Shipping weight 2 lbs.

SHIELD TUBES FOR ABOVE
12AV6, 35c 30C5, 63c 35W4, 42c
OUTPUT TRANSFORMER
No. T-82 ea. 49c

## AUTOMATIC Changer SWITCH

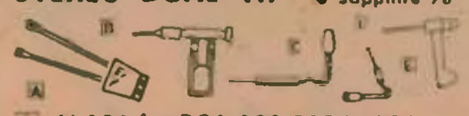


**$5.50** No. SW-233

Automatically turns off Hi-Fi or stereo systems after last record has been played. Plug record changer and amplifier into the automatic changer switch, when last record has been played and changer turns off, entire system will turn off. Size 4½"x1⅞"x3". Shipping weight ¾ lbs.

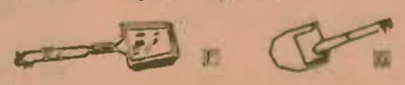
## DIAMOND NEEDLES

### STEREO DUAL TIP • Diamond LP • Sapphire 78



| | | |
|---|---|---|
| A | N-126 for RCA 108-213A, 106-960A, 106-770A, 106771A | $1.69 |
| B | N-150 for Sonotone 9T | $1.69 |
| C | N-129 for Sonotone 8T | $1.69 |
| D | N-130 for Sonotone 8TA | $1.69 |
| E | N-151 for Astatic 17 | $1.69 |

### Stereo Single Tip, Diamond LP



| | | |
|---|---|---|
| F | N-102 for Ronette BF-40, 105, 106 | $1.69 |
| G | N-149 for Euphonics E-1 | $1.69 |

### MONAURAL DUAL TIP • Diamond LP • Sapphire 78



| | | |
|---|---|---|
| H | N-71 for Sonotone 2TS | $1.69 |
| I | N-91 for Sonotone 3TS | $1.69 |
| J | N-95 for Shure Cartridge | $1.69 |

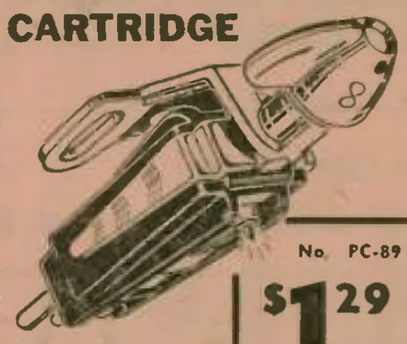
### Mono Single Tip, Diamond LP



| | | |
|---|---|---|
| K | N-77 for GE RPX | $1.69 |
| L | N-70 for Ronette | $1.69 |
| M | N-78 for GE RPJO1D | $1.69 |

# PHONO CARTRIDGES

## Monaural Turnover CARTRIDGE

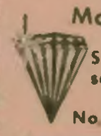


No. PC-89
**$1.29** 3 for $3.00

★ 3-5 Volts Output
★ Made In England

Dual-sapphire cartridge with ½" mounting centers, and European in-line mounting. This cartridge with its high output and low distortion, is an ideal replacement in almost any monaural phonograph, or European changer. Plays all four speeds. Response 30 to well above 6000 CPS. Complete with plug in type solder lugs. Shipping weight ¼ lb.

### Monaural Turnover Cartridge



Same as above but with diamond-sapphire stylus

No. PC-97, 3 for $6.00 Ea. **$2.59**

## EMPIRE 880 STEREO Cartridge

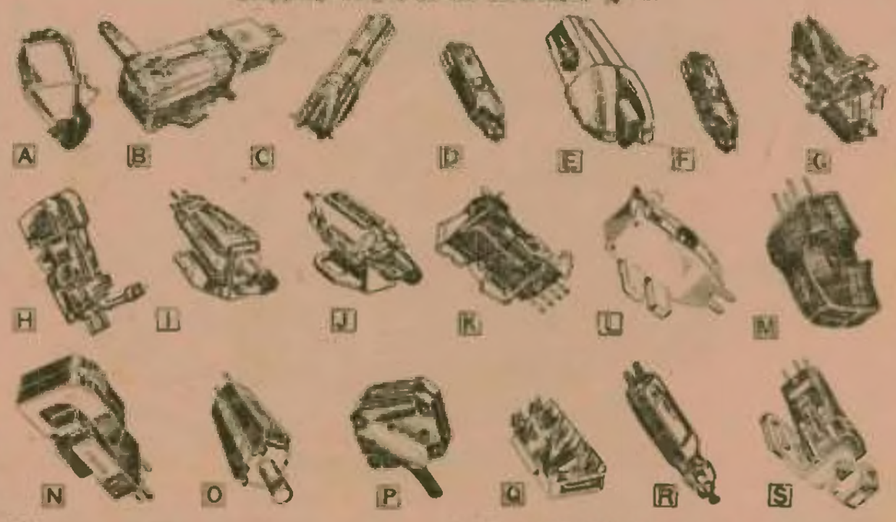
WITH DIAMOND STYLUS



$42.50 in 363 Catalog
**$17.95**
No. PC-102

Magnetic mono/stereo cartridge with .7 mil diamond stylus. Response: 10 to 28,000 CPS. Channel separation: More than 30 DB. Tracking force ¾ gram. Balanced high output 10 millivolts per channel ± ¼ db. Mounting—standard ½" mounting centers. Shpg. wt. ½ lb.

Shipping weight on all cartridges ¾ lb.




### A—PICKERING U38 AT

MAGNETIC CARTRIDGE with .7 Mil Diamond Stylus. Response ± 2 DB 20 to 20,000 CPS. Channel separation 35 DB. Tracking force 2-5 grams. Output 10 mv. per channel. Impedance 47,000 ohms.

No. PC-96, $46.50 in 363 Cat. **$16.88**

### A—PICKERING 380C

MAGNETIC CARTRIDGE with .7 Mil Diamond Stylus. Response ± 2 DB 20 to 20,000 CPS. Channel separation 35 DB. Tracking force 2-5 grams. Output 10 mv. per channel. Impedance 47,000 ohms.

No. PC-68 **$11.76**

### B—Electro-Voice 27D Stereo

Turnover ceramic. Response 20 to 20,000 cps. Plays monaural or stereo records (16, 33, 45, and 78 RPM). Diamond LP, sapphire 78 RPM sixth. Output 20 mv.

No. PC-73 **$11.57**

### C—Electro-Voice 56DS Monaural

Plug-in type Response 20 to 15,000 cps Diamond 1 mil, sapphire .3 mil tip.

No. PC-32 **$5.85**

### D—ELECTRO-VOICE MONAURAL

★ Exact Replacement for Astatic 81T

Monophonic exact replacement. Turn over plug-in type with sapphire styli (1 MIL LP & 3 Mil 78 RPM TIPS).

No. PC-78 **$2.37**
With Diamond LP Tip No. PC-79 $4.77

### E—Electro-Voice 76DS Monaural

Exact replacement for Webcor phonographs. (Monaural) Plug-in 1 mil diamond & sapphire 3 mil tip. Pink case.

No. PC-34 **$5.85**

### F—ELECTRO-VOICE STEREO

★ Replaces Astatic 13T

Dual sapphire tips plays all 4 speeds (78, 45, 33⅓, and 16 RPM). Response: 20-15,000 CPS. Output .5 volts.

No. XC-66 **$3.33**
With Diamond Tip No. PC-74 $6.57

### G—SONOTONE 3TS CERAMIC

Response 20 to 20,000 CPS. Turnover type with standard ½" mounting centers. Dual sapphire styli. Output .5 volts.

No. PC-17, 3 for $11.00
Lots of 12, Ea $3.00 **$3.98**

### G—SONOTONE 2T-S CERAMIC

Turnover type with Dual Sapphire Styli. Response: ± 3DB 30-15,000 CPS. 1 volt output. Standard ½" mounting centers.

No. PC-93, 3 for $9.25 **$3.32**

### H—SONOTONE 8TA4-SD STEREO

With .7 mil diamond, .3 mil sapphire stylus. Response ± 3.5 DB: 20 to 15,000 CPS. Compliance 3.0 x 10-6 cm/dyne. 20 DB channel separation. ½" mounting centers.

No. PC-92 **$7.64**

### I—Ronette 106 Stereo Cartridge

Turnover type. Plays stereo or monaural records. Has standard ½" mounting centers. Output 1.5 volts. Response 50 to 11,000 cps. Plays all 4 speeds.

No. PC-70 **$2.99**

### J—BSR TC-8S Stereo Cartridge

Turnover type. Mounts on ½" mounting centers. Response 40 to 12,000 cps. Plays all 4 speeds. Output .35 volts. Sapphire Styli.

No. PC-72, 3 for $6.00 **$2.09**

### K—OLSON Turnover STEREO

UNIVERSAL MTG. Dual Sapphire Styles. Response: 40 to 10,000 cps. Output: 1 volt. Separation 12 DB. Tracking force: 6-8 grams. Size: 1¼" long x ¾" wide. Made in England.

No. PC-110 **$1.89**

### L—OLSON Mono CRYSTAL

1 mil sapphire Stylus. Response 45 to 10,000 CPS. Output 1 volt. Tracking weight 6-8 grams. Std. ½" Mounting Centers. Made in England.

No. PC-109 **99c**

### M—SHURE M3D STEREO

Professional Stereo magnetic Cartridge with .0007" DIAMOND STYLUS. Separation: 20 DB at 1,000 cps. Response: 20-15,000 cps. Recommended load 47,000 ohms. Tracking force: 3-5 grams. Compliance: 4x10-6 centimeters per dyne ½" mounting centers.

No. PC-95, $45.00 in 363 Cat. **$15.88**
Replacement Diamond Stylus, N-152 $4.50

### N—SHURE M-7D STEREO

Stereo magnetic cartridge with .0007" DIAMOND STYLUS. Response: 20 to 15,000 CPS. Recommended load impedance: 47,000 ohms. Tracking force: 3-6 grams. ½" mounting centers.

No PC-56 **$11.76**
Replacement Diamond Stylus, N-131 $4.50

### O—VACO Monaural CARTRIDGE

Four speed turnover Model TO-45. Response 50 to 9,000 cps. Output 1 volt. Sapphire styli.

No. PC-69 3 for $7.00
Lots of 12, Ea. $2.00 **$2.59**

### P—PHILCO CARTRIDGE

Dual Sapphire Styli for Philco part numbers 425-0011 and 425-0016. Fits changer models: M-20, M-22, M-24, M-24A, M-25, M-26 and others.

No. PC-20 3 for $17.00
Lots of 12 Ea. $5.00 **$6.20**

### Q—ZENITH COBRA CARTRIDGE

Exact replacement for No. S-15788 Red & green. Monaural. Sapphire styli.

No. PC-71 **$2.06**

### R—Universal Phono CARTRIDGE

Aluminum case for single needle type arms. 20-5,000 cps. 4-5 volt output. Weight 17 grams., needle force 1⅛ oz. ½" mtg. ctr. Monaural.

No. XC-50 3 for $3.50
Lots of 12, Ea. $1.00 **$1.29**

### S—ASTATIC 76-TS STEREO

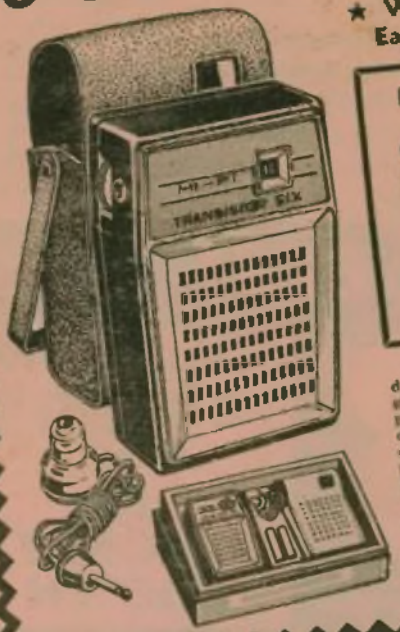
This crystal turnover cartridge is equipped with .7 mil and .3 mil sapphire styli to play Stereo, LP and standard 78 rpm records with utmost clarity. Standard ½" mounting centers. Output 2 v. Response: 50 to 10,000 cps.

No. PC-106, 3 for $8 **$3**

Frank W. Allen, 421 S. Ash St., Omak, Wash., wins choice of merchandise worth $5 from Olson's "Treasure Hunt." See back cover for instructions.

# 6 Transistor RADIO

★ With Battery, Earphone & Case




No. RA-544

**$8**

A handsome personal radio with 6 transistors and germanium diode in a powerful superheterodyne circuit—a total of 7 semiconductors. Features push-pull audio output, built-in PM speaker, personal earphone jack and carrying case. Tunes standard broadcast band. Size: 2¾" W x 4½" H x 1½" D. Styles may vary slightly. Shipping weight 2 lbs.

# Marvel FM-AM RADIO

Beautiful styling and flawless performance are combined in this unusual value from Olson. Genuine wood cabinet is finished in gleaming walnut, accented with black and gold trim. 5½" slide-rule dial makes tuning your favorite stations quick and positive. Tone control adjusts to suit your individual taste. Features AFC to "lock-in" even the weakest FM stations. Has built-in antenna for AM and short wire antenna for FM. No outside antenna is necessary for most areas. Dual four inch speakers deliver full rich tone at room filling volume. Size: 19½" W. x 7" H. x 5½" D. For 110-125 volts AC. 60 cps. Shipping weight 9 lbs.

No. RA-618

ONLY

**$29.95**



★ AFC
★ Dual Speakers
★ Wood Cabinet
★ Tone Control

# FM·AM Table Radio

★ Non-Drift Reception
★ Slide Rule Tuning



No. RA-615

**$24.99**

Tunes broadcast band 535 to 1605 KC and FM band 88 to 109 MC. Has built-in loopstick antenna for AM band which gives excellent static-free reception and wonderful sensitivity. A length of wire provides superb performance in most areas. However for FM-DX reception an outside dipole should be used. (TV antenna is suitable). 4" PM speaker gives full response sound, that surpasses that of much larger and more costly receivers. 6 tubes and 2 diodes and selenium rectifier. Has safety interlock cord plus 3 controls: volume, tuning and band selector. Handsome two tone cabinet. For 110-125 volts AC or DC. 5" x 6¾" x 10". Shipping weight 8 lbs.

# 9 TRANSISTOR RADIO

With Earphones Batteries & Case

★

Telescoping Antenna

No. RA-578

**13.81**




Complete with leather case, earphone, earphone case, telescoping antenna and batteries. Latest superheterodyne circuit with 9 transistors and one diode give superlative selectivity and sensitivity. Telescoping antenna can be attached to top of radio for really distant stations. Acoustically matched, powerful 2½ in. PM speaker delivers clear undistorted sound. Operates on 4 standard penlight cells (included). Size 6¾" W x 3½" H x 1½" D. Shipping weight 5 lbs.

Extra batteries for above (4 req'd.) No. RA-67 ..... 8 for 59c

# FM Monitoring Receiver

★ 4" PM SPEAKER
★ 152-174 MC



No. RA-561

**$50**

You will hear the news in the making. Features temperature compensated, superheterodyne circuit for no drift. Ratio detector circuit minimizes noise under "no signal" conditions. Size: 9½" x 6" x 5½". For 110-125 volts AC, 60 cps. Shipping weight 9 lbs.

**TUNE IN:** Police Calls
Mobile Telephone Calls
Fire Department Calls

# FA-AM Transistor Portable RADIO

★ 10 Transistors ★ Telescoping Antenna



No. RA-613

ONLY

**$34.88**

Precision-engineered circuit employs 10 transistors for above-average performance on both AM and FM. Pulls in distant stations with utmost clarity. Features: sturdy telescoping antenna, signal locking AFC, deluxe heavy magnet speaker, high-impact leather-finish cabinet, pop-up carrying handle and earphone. Operates on four standard pen-light batteries (included). Size: 4½"x6¾"x2¾". Shipping weight 2½ lbs.

Extra Batteries: (4 req'd) No. RA-67 ..... 8 for 59c

11 Transistor FM-AM PORTABLE RADIO

Similar to above but has greater sensitivity.

No. RA-614 ..... $39.88

# STUZZI Universal TAPE RECORDER

- ★ Records Sound-On-Sound
- ★ PAPST Professional Type External Rotor Motor
- ★ Rugged Die-Cast Uniframe Construction
- ★ Two Most Popular Speeds: 3¾ and 7½ ips.
- ★ Frequency Response: 80 to 15,000 CPS
- ★ Large Heavy-Duty Elliptical Speaker
- ★ Made in Western Europe

Mfgr's List Price $149.50

Discounted Price was $99.50

MEETS EXACTING OLSON QUALITY STANDARDS TO ASSURE GREATER LISTENING PLEASURE




## OLSON "BEST BUY"

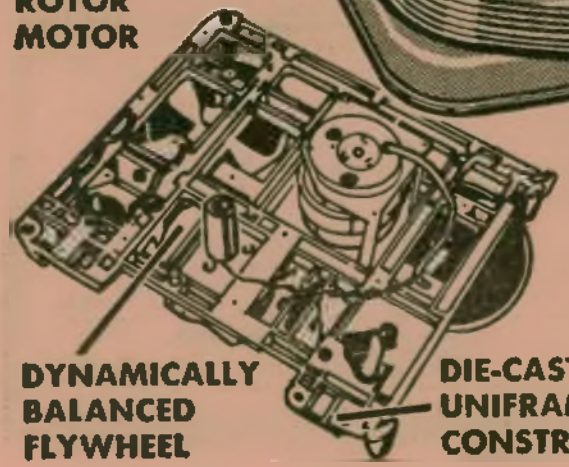
**$8 MONTHLY**

**No. RA-619**

**$79.99**

**NO MONEY DOWN**

PAPST PROFESSIONAL TYPE EXTERNAL ROTOR MOTOR



DYNAMICALLY BALANCED FLYWHEEL

DIE-CAST UNIFRAME CONSTRUCTION

The Perfect "ALL-PURPOSE" Tape Recorder

Rugged! Lightweight! Portable!



The Universal recorder is an exceptionally rugged, lightweight, portable machine, with professional features designed to meet the requirements of high quality recording. Completely self-contained, the Universal provides facilities for recording either from microphone or phono at 3¾ or 7½ ips. Unique professional feature such as the die-cast frame construction, the external-rotor type motor and the dynamically balanced flywheel provide exceptional mechanical stability. Combined with a superior electronic recording and playback system, these features guarantee highest fidelity. Built-in public address system permits monitoring while recordings are being made, with an independent volume control for loudspeaker or headphone listening. Accepts all standard size reels up to 7" diameter. Two-track record and playback head doubles recording time. Sound-On-Sound facility permits adding one recording to another, without erasing the original recording. All metal case has high-impact plastic cover, in two-tone beige. Size: 13" x 10½" x 6". For 110-125 volts AC, 60cps. Less microphone. Shipping weight 19 lbs.

Mitsch Nursery, John Mitsch, Aurora, Ore., wins choice of merchandise worth $5 from Olson's "Treasure Hunt." See back cover for instructions.

LEATHER CARRYING CASE for Stuzzi Tape Recorder
No. CA-302 ..... $9.99

ELECTRO VOICE CERAMIC MICROPHONE
No. M-178 ..... $4.99

## Stereo-High Fidelity

# Console Cabinet

★ Oiled Walnut Finish
★ Fits Any Decor

**No. CA-275**

**$99**

NO MONEY DOWN
★
ONLY $10 MONTHLY

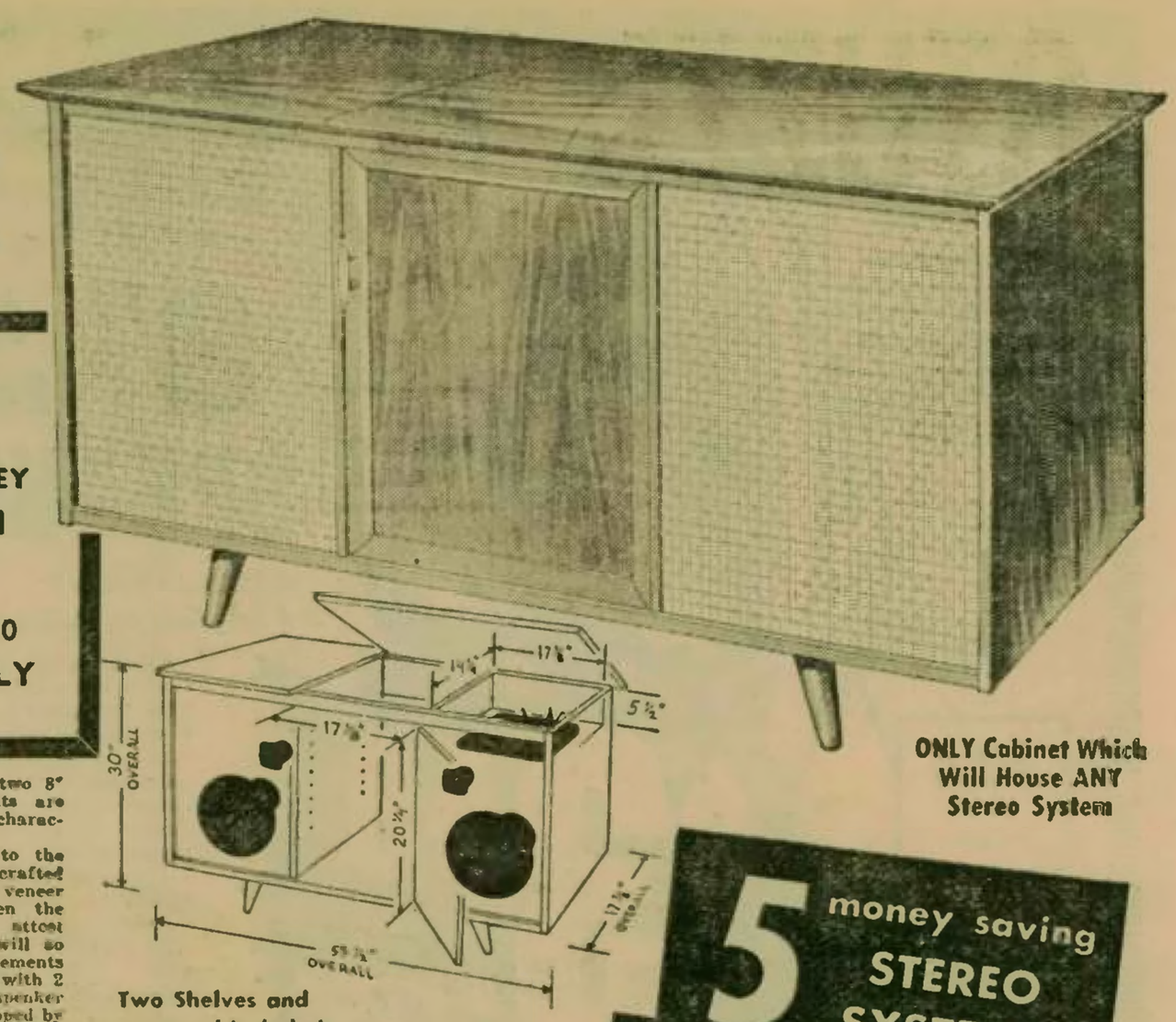
The problem of housing ALL your stereo equipment (regardless of make or origin) in a single console cabinet has now been solved by OLSON! This includes YOUR stereo system!

The unique design of this cabinet centers around the tuner and amplifier compartment. Two pre-finished shelves, each fully adjustable, are provided for tuner and amplifier placement within this center compartment. Also, two panel boards are included—one for the top center section (under hinged lid) if you wish to hang your equipment down with the controls horizontal facing up. (This board can be used to mount your tape deck instead if you desire). The other board is for mounting control panels when custom installing your equipment in the front center section. You may wish only to set your tuner and amplifier on the shelves and forget the "custom mounting"—this is fine since the shelves and compartment are completely pre-finished and will retain a built-in look. The remaining area below is for record or tape storage. The entire center compartment is easily accessible from the front with a hinged door.

The record changer mounting board is easily removed and can be cut to fit your particular changer. The area above changer board is 6" and the area below top of mounting board is 2". The changer compartment is designed to accept any changer.

The scientifically designed, fibreglass lined speaker compartments are constructed of Acousti-Board and are ported to eliminate speaker loading. Each speaker compartment is pre-cut for a 3" round tweeter and a 12" speaker. Also included with each cabinet are two 8" speaker adapter boards. Speaker compartments are completely enclosed in back for better acoustic characteristics.

Last, and probably best of all (especially to the ladies) is the rich, yet soft subtle beauty hand crafted into each cabinet. The elegant hardwood walnut veneer finish, the contrasting cane grille cloth, even the adjustable changer lid holding mechanism all attest to the excellent furniture craftsmanship you will so proudly own and enjoy. Complete cabinet measurements are shown in diagram at right. Cabinet comes with 2 shelves, top panel, front panel and 2 eight inch speaker adapter boards. Speaker mtg. studs installed. Shipped by truck or express from Batavia, N. Y. Shpg. wt. 126 lbs.




Two Shelves and top panel included

**ONLY Cabinet Which Will House ANY Stereo System**

**5 money saving STEREO SYSTEMS**

### STEREO SYSTEM I

1-Stereo Console Cabinet (above) No. CA-275 ... $99.00
1-Perpetuum Ebner Changer (pg. 9) RP-250 ... 18.00
2-Jensen 12" Speakers (pg. 14) No. S-551 ... 17.76
1-Stereo Amplifier (pg. 6) No. AM-217 ... 34.98
**TOTAL REG. PRICE ... $169.74**
No. AS-835 SYSTEM PRICE **$149.49**
SYSTEM Less Cabinet No. AS-873 $61.89

### STEREO SYSTEM II

1—Stereo Console Cabinet (above) No. CA-275 ... $99.00
1—50 Watt Stereo Amp. (pg. 6) No. AM-240 ... 99.98
2—12" Full-Range Speakers (pg. 13) No. S-495 ... 26.50
1—Garrard "Autoslim" Changer (pg. 9) No. RP-224 ... 39.50
1—Pickering Stereo Cart. (pg. 10) No. PC-96 ... 16.88
**TOTAL REG. PRICE ... $281.86**
No. AS-869 SYSTEM PRICE **$242.99**
SYSTEM Less Cabinet No. AS-874 $155.39

### STEREO SYSTEM III

1-Stereo Console Cabinet (above) No. CA-275 ... $99.00
1-FM/AM-MPX Tuner & 20 Watt Stereo Amp. (pg. 7) No. AM-230 ... 99.93
2-Jensen 12" Speakers (pg. 14) No. S-551 ... 17.76
1-Garrard "Autoslim" Changer (pg. 9) RP-224 ... 39.50
1-Pickering Stereo Cart. (pg. 10) No. PC-96 ... 16.88
**TOTAL REG. PRICE ... $273.07**
No. AS-838 SYSTEM PRICE **$244.99**
SYSTEM Less Cabinet No. AS-875 $157.39

### STEREO SYSTEM IV

1—Stereo Console Cabinet (above) No. CA-275 ... $99.00
1—30 Watt Stereo Amplifier (pg. 6) No. AM-229 ... 69.98
1—FM-AM-FM/MPX Tuner (pg. 6) No. RA-580 ... 79.98
2—12" Full-Range Speakers (pg. 13) No. S-495 ... 26.50
1—Garrard "Autoslim" Changer (pg. 9) No. RP-224 ... 39.50
1—Pickering Stereo Cart. (pg. 10) No. PC-96 ... 16.88
**TOTAL REG. PRICE ... $331.84**
No. AS-868 SYSTEM PRICE **$288.99**
SYSTEM Less Cabinet No. AS-876 $201.39

### STEREO SYSTEM V

1-Stereo Console Cabinet (above) No. CA-275 ... $99.00
1-FM-MPX Tuner/30 Watt Stereo Amp. (pg. 7) No. RA-600 ... 149.99
2-12" 3-way Speakers (pg. 15) No. S-600 ... 39.00
1-Garrard "Autoslim" Changer (pg. 9) RP-224 ... 39.50
1-Pickering Stereo Cart. (pg. 10) No. PC-96 ... 16.88
**TOTAL REG. PRICE ... $344.37**
No. AS-839 SYSTEM PRICE **$319.99**
System less cabinet No. AS-877 $252.39

# STEREO Console Cabinet



**$59.95 IN CAT. 263**
**NOW ONLY $27**
MAHOGANY
No. CA-269

WILL ACCOMMODATE AN ENTIRE STEREO SYSTEM

Elegance, magnificently expressed, is yours when you own this strikingly beautiful console cabinet. Expertly finished in beautifully grained hardwood veneer for lasting beauty. This fine cabinet will accommodate an entire stereo system or you can use it as a center unit with extension speakers. Handsome styling with off-center lid, complements the furnishings of any room. Outside dimensions are: 40" wide x 29" high (including legs) x 15¾" deep. Changer compartment is 15" wide x 13⅛" deep x 5" high. Tuner-amplifier panel measures 8" x 13¼". Speaker boards are pre-cut, for 10" speakers, with mounting studs installed. Shipping weight 64 lbs.

## Stromberg-Carlson CONTEMPORARY MODERN DESERT WALNUT



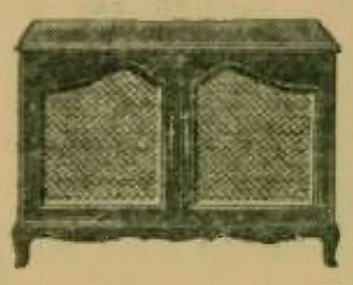
$7 MONTHLY

ORDER NO. 711 CABINET ONLY **$49** No Money Down

Cabinet, completely stereo equipped, originally sold in 1950 for **$199.95**

Cabinet is completely finished—ready to accept your Stereo or Hi-Fi equipment. Both the tuner-amplifier and phono mounting boards can be removed for your convenience and accessibility. Top, exposed area of tuner-amplifier compartment measures 7⅝" wide x 14¼" deep x 2" high. Top, exposed area, of phono compartment measures 17⅝" wide x 14¼" deep x 6" high. Speaker boards are pre-cut with mounting studs installed. Overall cabinet size: 38" wide by 16½" deep by 25½" high. Shipping weight 61 lbs. **Cabinet shipped by truck or express from Batavia, New York. Order now and save.**

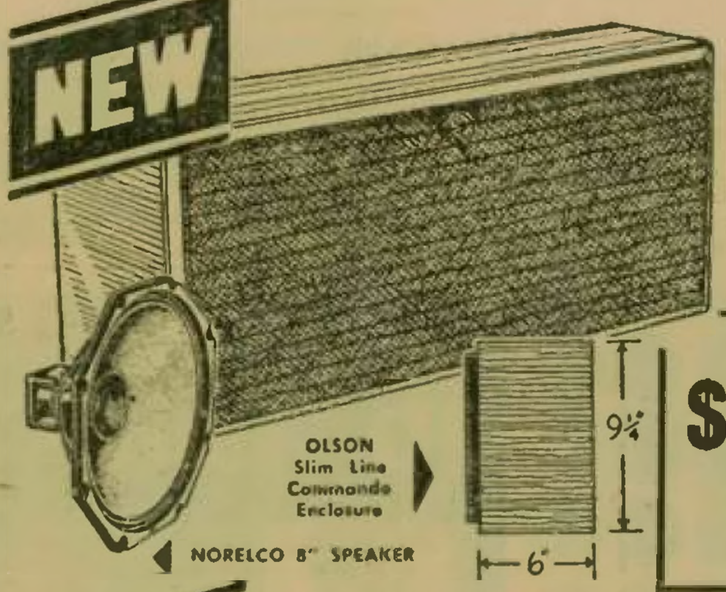
## Stromberg-Carlson French Provincial Console Cabinet



Order No. 713 Cabinet Only **$79** $8 Monthly No Money Down

Styled by Federico, Cherry Finish, solid hardwood veneer. Outside Dimension: 39" wide, 17" deep, 26" high. Top, exposed area, of tuner-amplifier compartment measures 7⅝" wide x 14⅛" deep x 2" high. Top, exposed area, of phono compartment measures 17⅝" wide x 14¼" deep x 6" high. Speaker boards are pre-cut. **Shipped by truck or express from Batavia, N. Y.** Shipping weight 78 lbs.

NEW




Norelco-Olson

## "Slim-Line COMMANDO" SPEAKER & ENCLOSURE

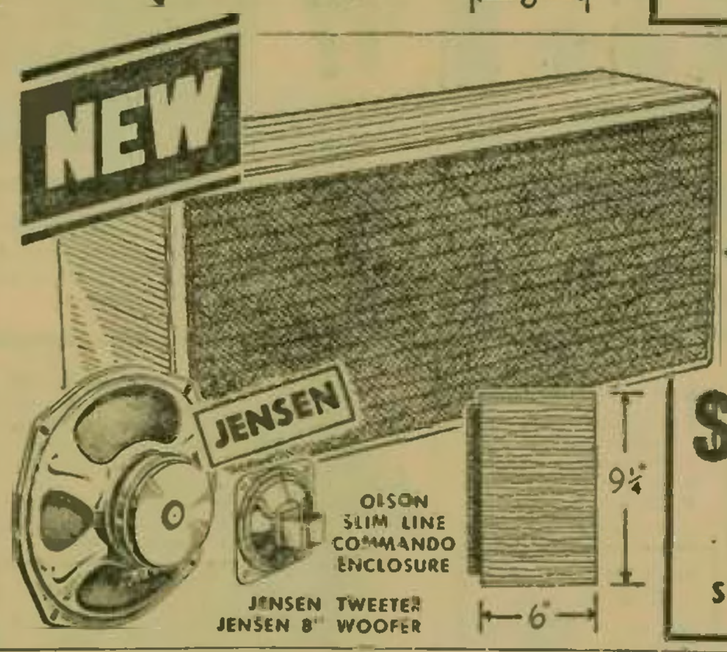
★ Ready to Play—No Finish Required
★ Full ½" Acoustic Wood Construction
★ Response 45 to 19,000 CPS
★ Low Priced—Space Saving

No. S-580
**$10.98**
2 for $21

Famous Norelco 5" speaker AD-5060 SS mounted and wired in a custom shelf size enclosure. Ready to connect and use. Size: 8" x 23⅝" x 9¼". Although no finish is required, cabinet may be painted, waxed, varnished, etc. Impedance 8 ohms, 6 watts. Shipping weight 21 lbs.

Labor Elec. Co., C. A. Labor, Dallas Center, Iowa, wins choice of merchandise worth $5 from Olson's "Treasure Hunt." See back cover for instructions.

NEW



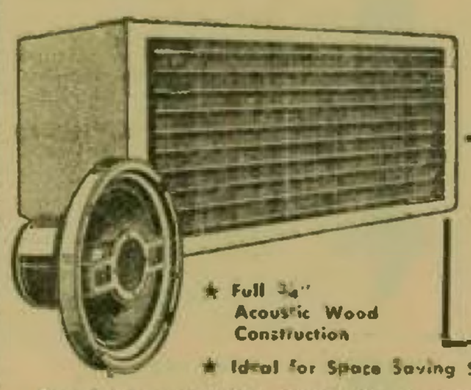

## JENSEN SPEAKERS IN OLSON Slim-Line Commando Enclosure

No. S-581
**$17.98**
STEREO PAIR $32

★ Response: 50-16,000 cps
★ Impedance: 8 ohms
★ Modern Rich Grille Cloth

The famous Commando enclosure now houses a Olson designed 2-way system featuring famous Jensen speakers. Superb listening enjoyment at a very low cost, is yours through the Jensen 8" Woofer and 2½" Cone Tweeter. Speakers are matched and mounted—ready to play. Enclosure is scientifically designed to achieve the maximum bass response. Although no finish is required, enclosure may be painted, waxed or varnished. Size: 6" x 23⅝" x 9¼". Shipping weight 22 lbs.

## OLSON COMPACT "COMMANDO"



FEATURING Olson 6½" COAX

No. S-534
**$12.99**
2 For $25

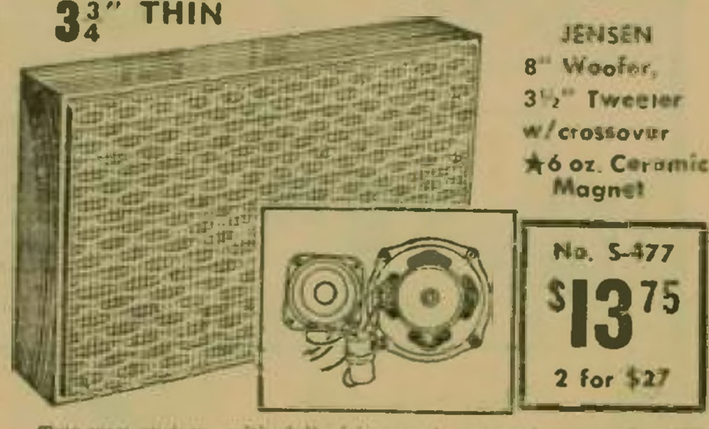
★ Full ¾" Acoustic Wood Construction
★ Ideal for Space Saving Stereo Systems

Completely assembled, ready to connect and enjoy. Although no finish is required, cabinet may be painted, waxed, varnished, etc. Ideal for apartments or small rooms where space will not permit larger speakers. Speaker features heavy duty magnet and 2" shielded tweeter with LC crossover network. Impedance: 8 ohms. Response: 50 to 15,000 CPS. Power capacity: 10 watts. Size: 8" x 8" x 17⅝". Shipping weight 15½ lbs.

SEE PAGE 12 FOR SPECS on 6½" COAX

## JENSEN SPEAKERS In Olson 2-Way Speaker System

3¾" THIN



JENSEN
8" Woofer,
3½" Tweeter
w/crossover
★6 oz. Ceramic Magnet

No. S-477
**$13.75**
2 for $27

Two-way system, with full rich sound. Attractive mahogany grained fabric covered cabinet with cane type grille. Impedance 8 ohms, with screw terminals. Size: 18" x 12" x 8⅝". Shipping weight 7 lbs.




Imported from ENGLAND



ELAC

# 8" Full Range SPEAKER

★ 15 Watts Power
★ Response 40-15,000 CPS

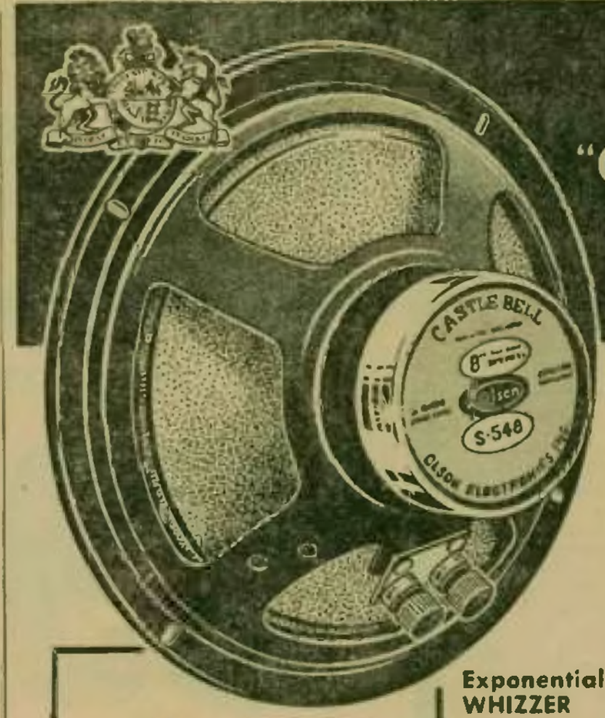
No. S-517

**$3.49**

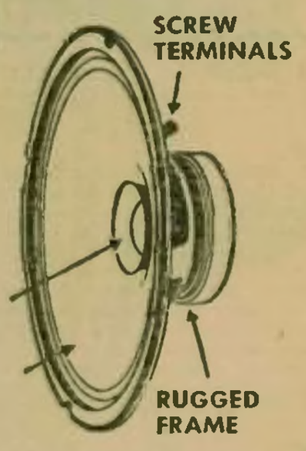
2 FOR $6.50

This beautifully crafted loudspeaker has a richness of tone which belies its size. A cone inch, 8 ohm double wound voice coil with special felt centering, excellent quality fibre cone, and concentric exponential high frequency whizzer. Heavy duty ticonal magnet. Priced at far less than its worth due to an OLSON mass purchase. Use for main system or as add-on speakers in den, bedroom, etc. Size: 8" diam. x 2¾" deep. Shipping weight 3 lbs.

Hartsel D. Roberts, Ikes Fork, W. Va., wins choice of merchandise worth $5 from Olson's "Treasure Hunt." See back cover for instructions.




# Olson "Castle Bell" 8" Full Range SPEAKER




Exponential WHIZZER

FLEXEDGE CONE

No. S-548

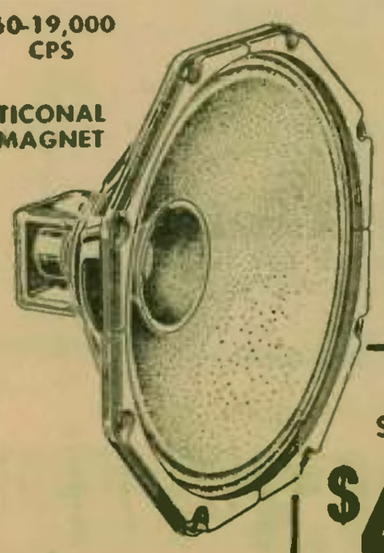
**$5.98**

2 for $11.50

★ Heavy Duty Ceramic Magnet
★ Resp.: 30-16,000 CPS
★ Imported From England

Made in England by unhurried craftsmen who are proud to produce precision speakers to exacting specifications. A full range, heavy duty 8" speaker featuring a rugged ceramic magnet and double wound voice coil. The flexedge cone and exponential high frequency whizzer deliver smooth rich bass and crisp clean highs. Ideal for space saving stereo systems or extension speakers for stereo or hi-fi. Don't miss this TOP VALUE! Response 30 to 16,000 cps. Impedance 8 ohms. Shipping weight 4 lbs. Write for special large quantity prices.

60-19,000 CPS




# Norelco 8" Hi-Fi SPEAKER

Model AD-3800

POWER CAPACITY: 8 WATTS

No. S-278

**$4.99**

2 for $9

Precision made 8" speaker with coaxially mounted dispersion cone. Imported from Holland. Ideal for stereo and hi-fi extension speakers or PA and intercom installations. Size: 8" x 3⅝". Impedance: 8 ohms. Shipping weight 3 lbs.

24 Ga. Speaker Cable, 53 Ft., No. W-351 — 99c

Crossover Capacitor Kit No. AS-552 — $1.50

# JENSEN 12" Hi-Fi SPEAKER



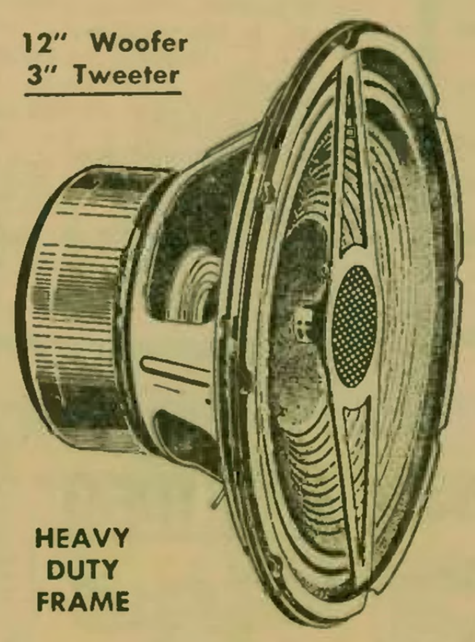

Was $17.95 in 563 Cat. only **$8.88** No. S-551

● Resp. 40-15,000 CPS ● 20 Watt

Integrated woofer and tweeter gives perfect balance of both high and low tones. Woofer cone radiates full rich bass while whizzer cone gives wide angle dispersion to high frequencies. 8 ohms. Crossover: 2000 CPS. Magnet: Ceramic (flux density 9500). Shipping weight 7 lbs.

Crossover Capacitor Kit, No. AS-552 — **$1.50**

12" Woofer
3" Tweeter



HEAVY DUTY FRAME

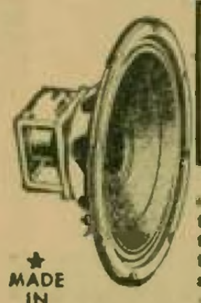
# 12" "Golden Classic" COAXIAL

No. S-311 **$7.99** 2 for $15.50

Heavy frame, built-in crossover network, frequency response from 35 to 15,000 cycles. Capacity full 12 watts. Voice coil 8 ohms. 12" WOOFER SECTION faithfully delivers all the true natural bass and middle register tones. TWEETER SECTION faithfully reproduces all the clean and brilliant highs features the latest parabolic cone. Shipping weight 8 lbs.

"Sweet Sixteen"

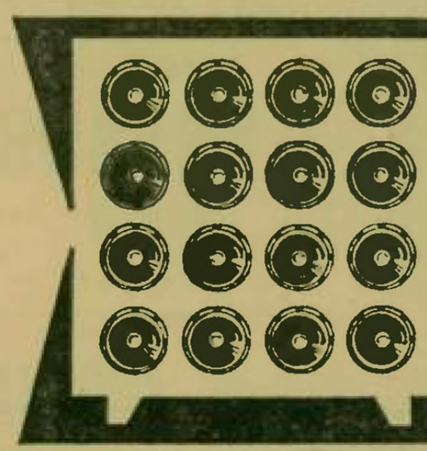
# 5" SPEAKER



★ MADE IN U.S.A.

No. S-340 **$1.19** 3 for $3.50

The perfect 5" PM speaker for building the popular "sweet sixteen" system. (Instructions included.) Impedance 3.2 ohms. 2 watts each. Shipping weight ½ lb. each.



# "SWEET SIXTEEN" Five-Inch 16 Speakers

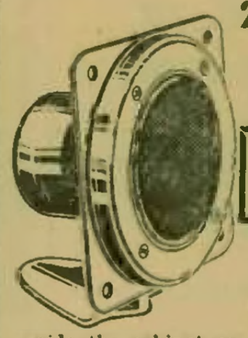
ALL 16 ONLY **$17**

Big speaker sound at small speaker price. Speakers are the S-340 at left. A best seller. Shpg. wt. 5½ lbs.

24 Ga. Speaker Cable, 53 ft., W-361 — 99c

2¾" HARD CONE

# TWEETER

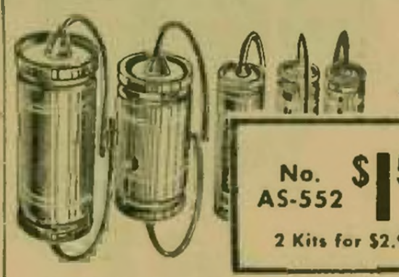


$2.49 No. S-297

Ideal for "Sweet 16 plus 4". Finished in gleaming gold enamel, can be mounted inside the cabinet or on top. 15 watts. Response 1200 to 15,000 cps. 8 ohms. Size: 3x3x2". Shipping weight ¾ lb.

Crossover Capacitor Kit — No. AS-552, $1.50

# CROSSOVER CAPACITOR KIT



KIT OF 5

No. AS-552 **$1.50** 2 Kits for $2.95

This kit contains 5 popular values non-polarized electrolytic capacitors. Ide for crossovers in two or three speak systems. Kit includes one each of t following values: 4, 10, 25, 50, and 1 mfd., plus a circuit diagram of two a three speaker systems. Shpg. wt. ½

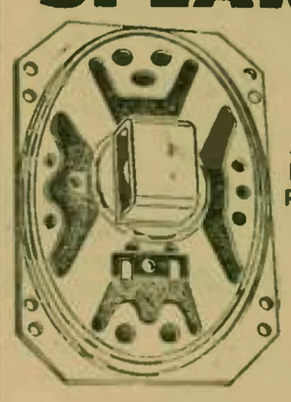
Olson

# ALNICO V SPEAKERS

★ MAY BE ASSORTED FOR QUANTITY PRICES

High quality PM speaker for replacements and original equipment applications.

# 4"x6" PM SPEAKER

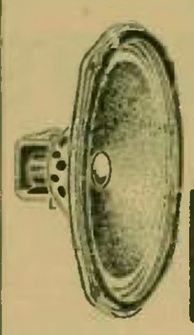


COMPACT ★ Application: Extension or Replacement ★ Ribbed Cone ★ 3.2 Ohm

MADE IN U.S.A.

No. S-579 **$1.19** 3 for $3.00

Shipping wt. 3 lbs.



6" x 9" PM SPEAKER

- Application: Auto radios, etc.
- Voice Coil: 8 ohms
- Magnet wt.: 1.47 oz.
- Power: 8 watts

Shipping wt. 3 lbs.

No. S-224 Each 3, @ $2.50 Ea. 100, @ $2.16 Ea. **$2.76**

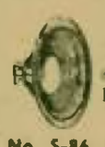


6" PM SPEAKER

For general replacement. Voice coil 3.2 ohms. 1.47 oz. magnet. Rated 5 watts. Shpg. wt. 3 lbs.

LOTS OF 100, EA. $1.73

No. S-7, Lots of 3, Ea. $2.09 — Ea. $2.29



8" PM SPEAKER

For general replacement. Voice coil 8 ohms. 2.15 oz. magnet. Rated 7 watts. Shpg. wt. 3 lbs.

LOTS OF 100, EA. $2.32

No. S-86, Lots of 3, Ea. $3.29, — Ea. $3.49

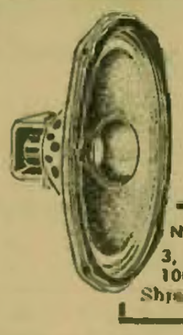


4" PM SPEAKER

Ideal for replacement in radio, TV, or phono. Alnico 5 magnet. Shpg. wt. ¼ lb.

3 @ 80c

No. S-568, 100 @ 70c, ea. 89c



6" x 9" HI-FI PM

- Aluminum Voice Coil
- Hi-Frequency Whizzer
- Application: Rear deck speaker, auto radios, etc.
- Voice Coil: 8 ohms
- Magnet wt.: 2.15 oz.
- Power: 8 watts

No. S-280 Each 3, @ $3.33 Ea 100, @ $2.73 Ea **$3.69** Shpg. wt. 4 lbs.



5" x 7" PM SPEAKER

For replacement auto radios, etc. Voice Coil: 8 ohms. 1.0 oz. magnet. Power: 6 watts. Shipping weight 1 lb.

100, @ $1.99 Ea.

No. S-113, 3 @ $2.19 Ea., Ea. 2.49



5" PM SPEAKER

For general replacement. Voice coil 3.2 ohms 1.0 oz. magnet. Rated 4 watts. Shipping weight ¾ lb.

LOTS OF 100, EACH $1.47

No. S-336, 3 @ $1.67, ea., Ea. $1.79



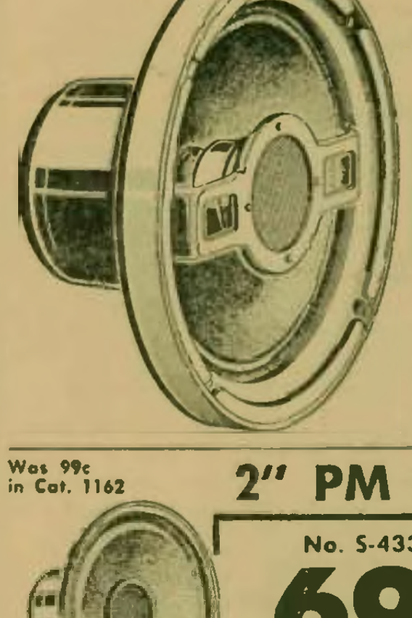
4" SPEAKER

- 3.2 ohm Voice Coil. .68 oz. magnet. Ideal for replacement in radio or phono. Shpg. wt. ¼ lb.

No. S-564 (3 @ 90c) ea. 99c

Olson

# 6½" Coaxial SPEAKER

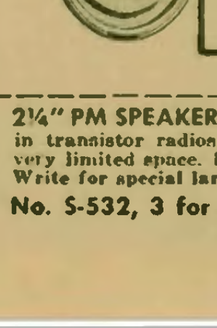


- Response 50 to 16,000 CPS
- Ideal for Space Saving Stereo Systems

**$6.99** 2 for $12.75 No. S-496

Ideal for apartments or small rooms where space will not permit larger speakers. Features heavy duty magnet and 2" shielded tweeter with L.C crossover network. Impedance: 8 ohms. Response: 50 to 16,000 CPS. Power capacity: watts. Shipping weight 4 lbs.

Was 99c in Cat. 1162



# 2" PM SPEAKER BARGAIN!

No. S-433 **69c** 3 @ 63c each 100 @ 59c each

★ Replacement Speaker
★ Miniature Microphone
★ Stereo Headphones
★ Experimental Use

A once-in-a-lifetime purchase make possible this unusually low price this fine miniature speaker. Use anywhere sound reproduction is desired a very limited space. Imp. 8 ohms, oz. mag. 2" dia. x ⅞" deep. Shipping weight ¼ lb. Write for special large quantity prices.

2¼" PM SPEAKER Use as concealed microphone or simply as a replacement speaker in transistor radios and intercoms. Use anywhere sound reproduction is desired in very limited space. Impedance 8 ohms, 0.5 oz. mag. 2¼" dia. x ⅞" deep. Shpg wt. ¼ lb. Write for special large quantity prices.

No. S-532, 3 for $2.30 12 @ 70c ea. — EA. 88c

"SHIELD CREST"

# SPEAKER SYSTEM




No. S-566

**ALL 3 SPEAKERS (PLUS) CROSSOVER NETWORK**

**$24.98**

**2 SYSTEMS $48**

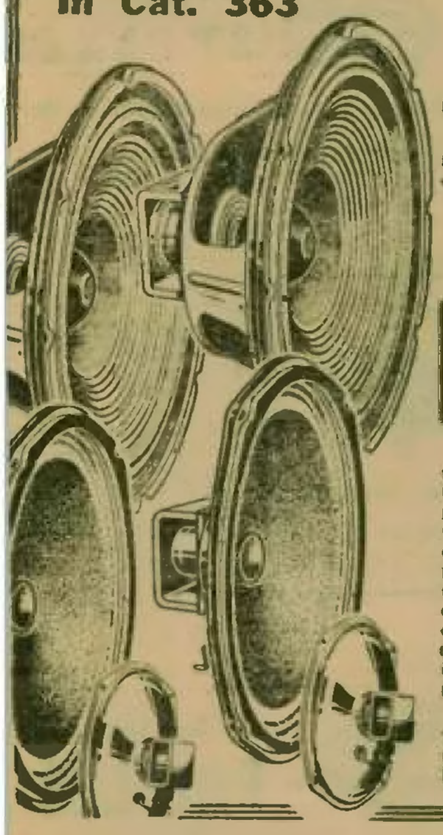
- Response 25 to 18,000 CPS; ± 4DB
- Power Handling Capacity 25 watts

Rarely are we able to offer a set of Danish speakers as fine as these. Now, you can get these matched sets in factory sealed cartons at less than our 1962 price. Made by the largest and best Danish speaker manufacturer. Consists of a 12" woofer, a 5" midrange and a 2" tweeter. Also included is a precision crossover network which matches these speakers exactly and gives electronic crossover frequencies of 750 cps and 4000 cps. Overall impedance 8 ohm matches any amplifier. Easy to hook up instructions supplied. Shipping weight 14 lbs.

## *INDIVIDUAL UNITS AVAILABLE*

| | | |
|---|---|---|
| 2" TWEETER Resp. 3,000–18,000 CPS, Power 5 Watts, No. S-345 | ea. | $3.25 |
| 5" MID-RANGE Resp. 750–6,000 CPS, Power 5 Watts, No. S-346 | ea. | $4.98 |
| 12" WOOFER Resp. 25-900 CPS, Power 20 Watts, No. S-347 | ea. | $9.98 |
| CROSSOVER NETWORK No. T-257 | ea. | $7.50 |
| LEVEL CONTROLS (Optional, 2 Required) No. VC-304 | ea. | $1.39 |

Was $30.00
In Cat. 363



## *Custom* STEREO SPEAKER SYSTEM

**2** 3-WAY SPEAKER SYSTEMS

- 2–12" Woofers
- 2–6x9 Midranges
- 2–3x5 Tweeters

**ALL 6 SPEAKERS**

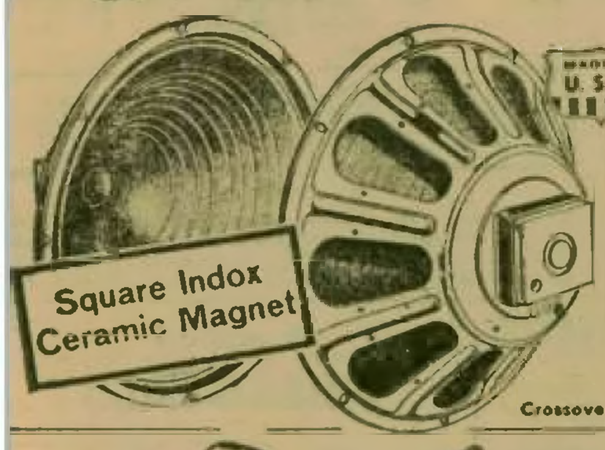
**$19.95** No. S-509

The 12" woofers contain phenolic voice coil forms for extreme low frequency. The 6" x 9" "Heart of the System" speakers provide the all important midrange while the 3" x 5" tweeters go up to a smooth and clean 18,000 cps. 8 ohm, 30 watt music power. System consists of two 12" woofers, two 6x9 super flex-edge midrange speakers, and two 3x5 totally enclosed tweeters, complete crossover networks, and all necessary wire, and hardware. Ideal for custom installations and built-in systems. Shipping weight 54 lbs.

*John Emory Jr., Rt. 1, Box 201, Traverse City, Mich., was choice of merchandise worth $5 from Olson's "Treasure Hunt." See back cover for instructions.*

# 2 GIANT 15" Full Range SPEAKERS

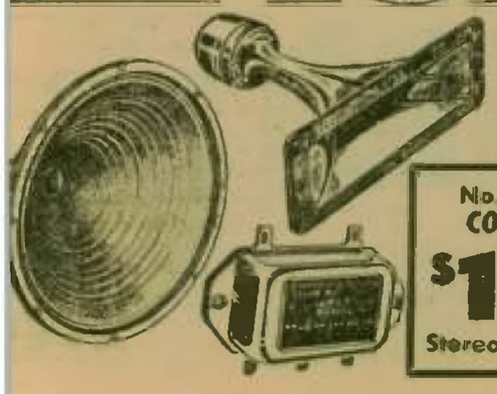
STEREO MATCHED




- Resp.: 30-13,000 CPS
- Power Cap.: 25 Watts

No. S-526
TWO FOR **$15.95**
Single, No. S-530, $9.95

8 ohm. Size: 15" x 6½" deep. Shipping wt. 12 lbs. per pair.
Crossover Capacitor Kit No. AS-552, $1.50



## 2-WAY SPEAKER SYSTEM

No. S-530 Olson 15" Woofer (above)
No. S-547 Horn Tweeter (right)
No. T-294 Spkr. Crossover (pg. 14)

No. AS-833
COMPLETE
**$13.00**
Stereo Pr. $25.50

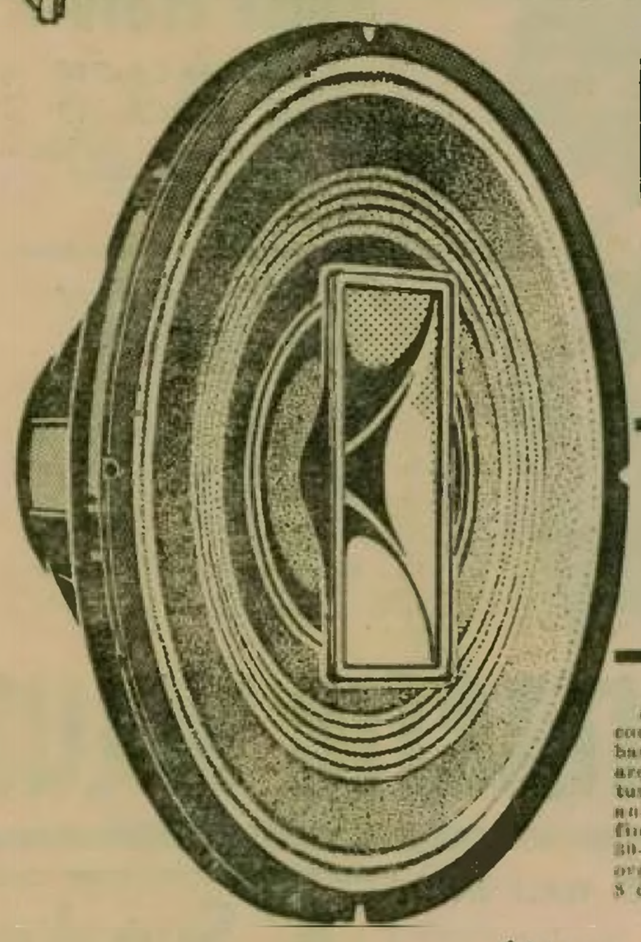
Delivers full rich tone impossible to achieve with smaller speaker systems. The heavy duty 15" woofer faithfully reproduces clean rich bass tones to 30 cps. Compression horn tweeter adds smooth, transient, free high frequencies to the limits of audibility. Shipping weight 11¾ lbs.

# Olson *Slim-Line Design* SPEAKERS

Olson BEST BUY

Heavy Duty MAGNET — Ribbed Cone CONSTRUCTION

◀ DIE-CAST FRAME ... *the Hallmark of a Fine Loudspeaker!*



## 12" 3-way SPEAKER

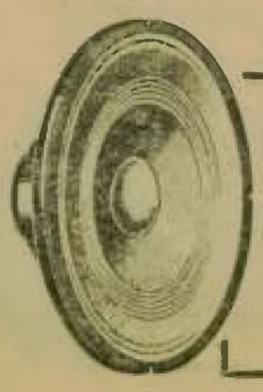
- ★ Built-in Crossover
- ★ Response 30-16,000 CPS
- ★ Impedance: 8 Ohms

**$19.98** No. S-600
Stereo Pair $39

All of the latest advances in speaker design have been incorporated in this revolutionary 3-way speaker. Phenomenal bass, full-bodied mid range and silky smooth upper octaves are reproduced with unusually pleasing musical balance. Features heavy-duty die cast frame plus ribbed cone construction and independent compression horn tweeter. Use two of these fine speakers for the ultimate in stereo reproduction. Response: 30-16,000 CPS. Mechanical crossover 1800 CPS, electrical crossover 5,000 CPS, power handling capacity: 20 watts. Impedance 8 ohms. Shipping weight 11 lbs.

## 12" WOOFER

- ★ Response: 30-3500 CPS
- ★ 8 Ohms



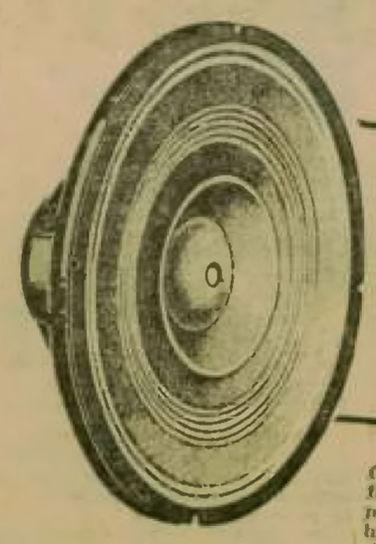
No. S-541
**$13.95**
STEREO PAIR $26.50

This superb speaker delivers remarkable transient response along with rich full-bodied bass. This exceptional performance is made possible by the newest advancements in high fidelity speaker design. Rugged heavy-duty die cast frame plus an accordian edge cone assures greatly improved bass response. Use to assemble new 2 and 3 way high-quality speaker systems at a budget price or modernize your old hi-fi or stereo. Response 30-3500 CPS, power handling capacity: 25 watts. Impedance 8 ohms. Shpg. wt. 18 lbs.

CROSSOVER CAPACITOR KIT
No. AS-552 ..... $1.50

## 12" Full Range LOUDSPEAKER

- ★ Resp. 30-16,000 CPS
- ★ Impedance: 8 Ohms



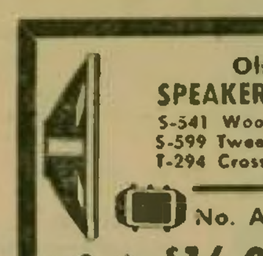
No. S-495
**$13.95**
STEREO PAIR $26.50

A heavy duty die cast frame is the hallmark of fine speakers. All other popular-priced loudspeakers have frames of stamped sheet metal which bend easily and allow the speaker cone and delicate voice coil to shift position.

The heavy magnet and ribbed cone contribute to the excellent sound of this speaker. Features whizzer cone for extended high frequency response. Frequency response 30-16,000 CPS, power handling capacity: 20 watts, impedance 8 ohms, rugged attractive design. Size 12" dia. x 3½" D. Shipping weight 11 lbs.

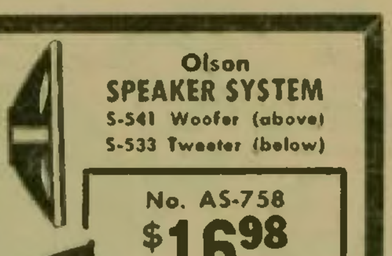
CROSSOVER CAPACITOR KIT, AS-552 ..... $1.50

**Olson SPEAKER SYSTEM**
S-541 Woofer (above)
S-599 Tweeter (below)
T-294 Crossover (pg. 12)



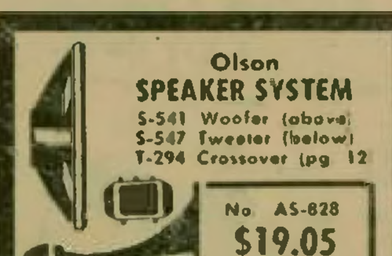
No. AS-827
**$16.20** STEREO PAIR $32.00

**Olson SPEAKER SYSTEM**
S-541 Woofer (above)
S-533 Tweeter (below)



No. AS-758
**$16.98**
STEREO PAIR $32.00

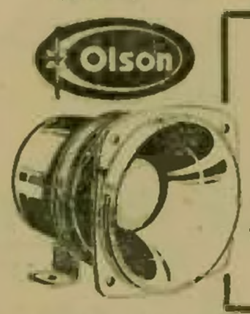
**Olson SPEAKER SYSTEM**
S-541 Woofer (above)
S-547 Tweeter (below)
T-294 Crossover (pg. 12)



No. AS-828
**$19.05**
Stereo Pair $37.00

## Deluxe HORN TWEETER

★ Response to 15,000 CPS



No. S-599
**$3.49**
STEREO PAIR $6.00

A horn tweeter that produces silky smooth high frequencies and even dispersion. One of the finest horn tweeters available at any price. Entirely enclosed in metal case. Tweeter can be mounted to front of cabinet or on attached self-supporting stand. Requires 3" mounting hole. 8 ohm. Size: 4 x 3¼". Shipping weight ¾ lb.
Crossover Capacitor Kit, No. AS-552 $1.50

## 4" Hard Cone TWEETER

★ Built-In Crossover



★ Die Cast Frame

No. S-533
**$5.95**
Stereo Pair $10.00

Features excellent high frequency characteristics and is capable of handling frequencies as low as 2,000 CPS. The tweeter has a built-in 2500 CPS crossover or it can be easily connected to your existing crossover network. Resp.: 2,000-16,000 CPS; impedance: 8 ohms, power cap. 15 watts; Diameter: 4 in. Shipping weight 1½ lbs.

## Compression HORN TWEETER

★ 1,000 CPS to 18,000 CPS
★ Cast Aluminum Horn
★ 20 Watts



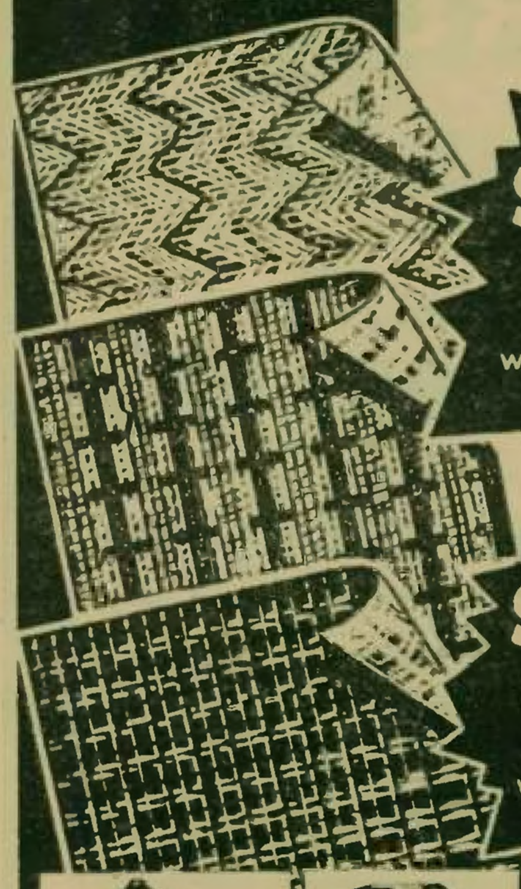
*Electronically Equivalent to:*
Electro-Voice MFT, Jensen ORP201, University 4401

No. S-547
**ONLY $7.99**

Use with any 8, 12" or 15" speaker. Add smooth, transient-free high frequencies to your speaker system at a real money saving price. Low frequency response eliminates the need for a mid-range speaker. 8 ohms. Size: 4" fl. x 10½" W x 11½" L. Shpg. wt. 5 lbs.
Crossover Capacitor Kit AS-552 $1.50

# Olsontone GRILLE CLOTH

★ Will Not Snag, Scuff or Fade
★ EASY TO INSTALL



**$1.39**
3 For $3.50
Write for Special Large Quantity Prices

## 24" x 36" GRILLE CLOTH

Mahogany No. CA-214
Blonde No. CA-213

Give these old enclosures a new look at a fraction of original cost. Pattern may vary from illustration. An OLSON BEST BUY! Shipping weight, 1¾ lbs.

**$1.99**
3 For $5.00
Write for Special Large Quantity Prices

## 36" x 40" GRILLE CLOTH

Mahogany No. CA-71
Blonde No. CA-75

Ideal for modernizing old enclosures or in new construction. Pattern may vary from illustration. Shipping weight 1¾ lb.

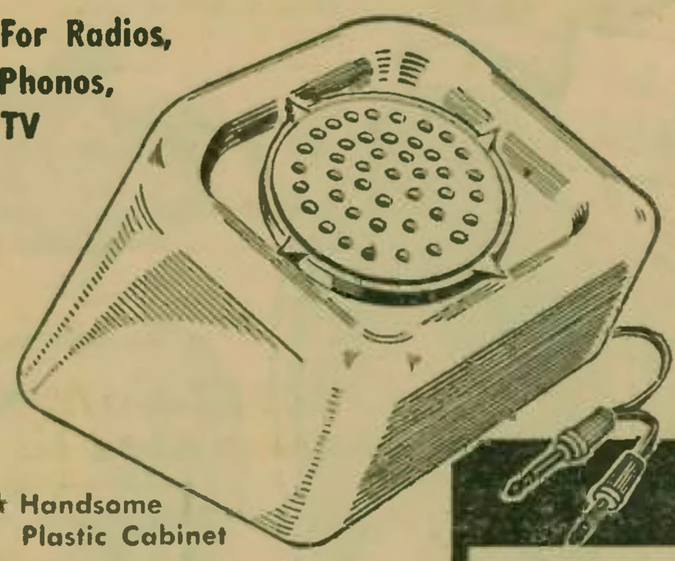

USE IN NEW CONSTRUCTION


USE IN REMODELING

## FANTASTIC VALUE

# EXTENSION SPEAKER

For Radios, Phonos, TV



★ 10 ft. Cable
★ Dual Miniature Plugs
★ Handsome Plastic Cabinet

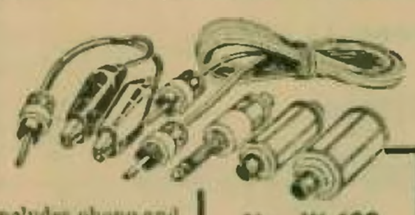
The perfect miniature extension speaker for radios, phonos, TV or tape recorder. Large magnet, PM speaker mounted in an attractive, molded plastic cabinet. A 10 ft. cable extends from bottom of case and is terminated in two miniature phone plugs. One plug is ⅛" in diameter and the other one is 3/32", just right to fit the earphone jack on most transistor radios and tape recorders. Set speaker on desk or table, or hang on wall. Has hole in back to hang on picture hook. Size: 4⅜ W x 4⅜ D x 2⅝" H. Impedance 8 ohms. Shipping weight 2 lbs.

No. S-584
**$1.49**
3 FOR $4

OLSON RED HOT SPECIAL

## Universal CABLE KIT

★ Makes Any Type of Audio Hook-up

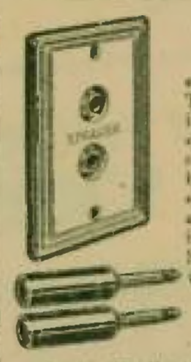


Includes phono and phone type plugs plus clips. Ideal for connecting tuner to amplifier or tape recorder to radio, TV or phono. Shipping weight ½ lb.

No. W-422
**$1.59**
PER KIT

## STEREO SPEAKER WALL JACK

★ 2 Phone Plugs Included



Two ¼" jacks mounted on a standard wall plate. Two ¼" phone plugs are included. The wall plate can be mounted on a standard electrical outlet box or mounted directly on the wall. All hardware and mounting brackets are included. Ivory finish. Size: 2⅝" x 4½". Shp. wt. ¼ lb.

3 for $4.00
No. PL-99 **$1.49**

Bushnell Elect., V. E. Mullinax, 345 W. Bess St., Bushnell, Ill., wins choice of merchandise worth $5 from Olson's "Treasure Hunt." See back cover for instructions.

## 8" Speaker WITH BAFFLE



**$6.51** No. CA-136
3 for $18
Lots of 12, Ea. $5.00

Response: 50 to 10,000 CPS. Voice coil 8 ohms. Rated 6 watts. Speaker mounted. Size: 10" x 16" x 3¾". Shipping weight 4 lbs.

Spkr. Cable, 53', 24 ga., No. W-361 99c

## EXTENSION SPEAKER



★ 20' Cable and Clips
★ Attractive Case

No. S-494
ONLY
**$2.98**

An attractively styled easy to listen to extension speaker ready to connect to any radio, tape recorder, record player, or other sound source, just clip across present speaker leads. Can be placed on table or hung on wall, hanger included. Neutral color, 8 ohms. Plastic case. Size: 4½" x 4½" x 2½". Shipping weight 2 lbs.

## AUDIO CABLES

For quick connection between phones, amplifiers, tuners, etc. Shielded cable with gray plastic outer sheath. Shipping weight ¼ lb.




A Phono pin plug, other end stripped and tinned, 3-ft. cable.
No. W-325, 3 for $1.00 ____ 39c

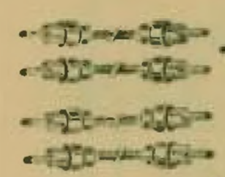
B 2 phono pin plugs, one on each end, 3-ft. cable.
No. W-321, 3 for $1.79 ____ 65c

C Phono pin plug, other end phono pin jack, 3-ft. cable.
No. W-341, 3 for $1.79 ____ 65c

D Dual phono cable with pin plugs on each end. Color-coded for identification.
3-FT. CABLE
No. W-440, 3 for $3 ____ $1.17
6-FT. CABLE
No. W-441, 3 for $3.50 ____ $1.35

## 36" Audio Cables

★ KIT OF 4



No. W-450
**$1.79**

Color coded cables, RCA type plug on each end. Shipping weight ¾ lb.

## AUDIO CABLE KIT



Consists of 3' audio lead with pin plug, other end tinned and stripped; 6" audio lead with pin plugs; 1 dual inline jack. Shipping weight ½ lb.

Re. AS-481, 4 for $3.50 per kit ____ **99c**

## SINGLE PHONO JACKS

★ Kit of 15



No. AS-771
3 Kits for $2.50
PER KIT **99c**

Standard RCA type phono jack for chassis or panel mounting. Shpg. wt. ¼ lb.

## 2 WAY CROSSOVER NETWORK

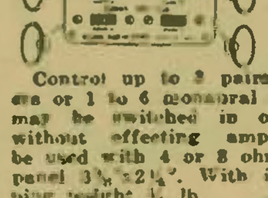
MADE IN U.S.A.



3,000 cps "LX" crossover, channels high frequencies to tweeter and low frequencies to woofer. Impedance 8 ohms. Size: 3½" W x 1⅞" x 1¼". Shipping weight ½ lb.

14 | 3 for $8.50
12 @ $2.50
No. T-294 ____ 2.97

## Stereo/Mono Speaker Switch



No. SW-130
**$1.69**
3 for $5.00
12 @ $1.40 ea.

Control up to 3 pairs of stereo speakers or 1 to 6 monaural speakers. Remotes may be switched in or out of circuit without effecting amplifier load. Can be used with 4 or 8 ohm speakers. Gold panel 3⅛"x2¼". With instructions. Shipping weight ¼ lb.

## 8 Ohm Monaural LEVEL CONTROL

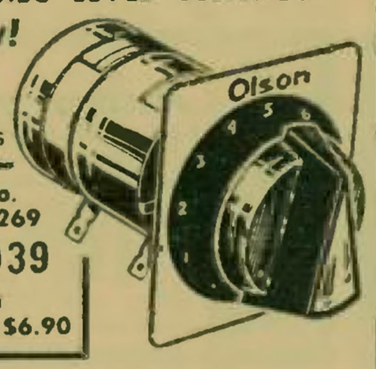


**$1.39** No. VC-204
3 for $4.00
12 @ $1.25 ea.

For use with any speaker to provide separate and independent control of speaker volume, 20 watts. Shipping weight ¼ lb.

## STEREO LEVEL CONTROL

New! ★ DUAL 8 OHM CONTROLS



No. VC-269
**$2.39**
3 for $6.90

Two speaker volume controls conveniently mounted on one panel, individual knobs. Each control is heavy duty wire wound type for lasting dependability. Can be mounted on the back of a speaker cabinet or through a panel on the wall. Complete with hook-up instructions. Shipping weight ¼ lb.

## OLSON POWER CONTROL BOX



Controls power separately to any 3 appliances, 6 foot cord. Size: 4" x 2¾" x 1⅝". 5 amps @ 125 volts AC-DC. Shpg. wt. ¾ lbs.

No. SW-141 3 for $7.00 Ea. **$2.49**

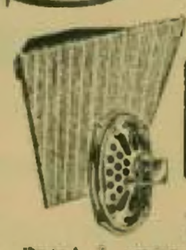
## STEREO SPEAKER SWITCH



No. SW-234
**$1.99**

Dual 7 position switches permit the selection of all or 7 different combinations of any 3 pairs of speakers. Ivory knob with gold finish plates. Instructions included. Size 3⅝" x 4½". Shipping weight ½ lb.

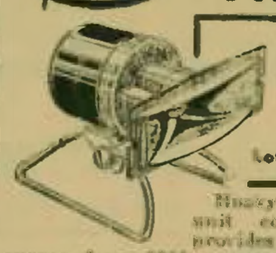
## Corner Baffle with 6" x 9" Speaker



No. S-419
**$5.96** 3 For $17.50

Response: 50 to 11,000 CPS. Size: 14¾" H x 16½" W x 5⅝" D. Rated 6 watts. Voice coil 8 ohms. Speaker is mounted. Mahogany grained. Shipping weight 4 lbs.
Speaker Cable, 53' 24 ga., No. W-361 99c

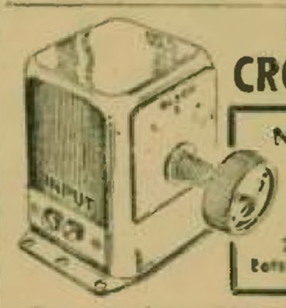
## Horn TWEETER



No. S-307
**$8.95**
2 for $17.50
Lot of 6, Ea. $8.00

Heavy 20 watt driver unit coupled to horn provides uniform response from 2000 cps to above audibility. For use with any 8", 10", 12", or 15" speaker. Heavy die cast frame. Stand may be removed for internal mounting. Impedance: 8 ohms. Shpg. wt. 4 lbs.

## Speaker CROSSOVER




No. VC-222
**$5.97**
2 for $11.00
Lots of 6, Ea. $4.75

Crossover freq. 4000 CPS. Extra long shaft allows network to be mounted in wood panels up to ⅞" thick. Features tweeter level control. Impedance 8 ohms. Size: 4⅝" W x 2" D x 2¼" H. Shipping wt. ¾ lbs. Made in U. S. A.

## EXTENSION SPEAKER



★ 20' Cable and Clips
★ Attractive Case

No. S-494
ONLY
**$2.98**

An attractively styled easy to listen to extension speaker ready to connect to any radio, tape recorder, record player, or other sound source, just clip across present speaker leads. Can be placed on table or hung on wall, hanger included. Neutral color, 8 ohms. Plastic case. Size: 4½" x 4½" x 2½". Shipping weight 2 lbs.

## REMOTE CONTROL SPEAKER

Similar to above but has volume control for remote and main speaker, bargain priced. Size: 4½" x 4½" x 2½". With 20' wire and instructions. 8 ohms. Shipping weight 2 lbs.

No. S-549 **$4**



Ceiling Wall
## SPEAKER

Mounts Flush Without Cutting Hole

★ 6" Speaker Factory Mounted
★ The Perfect Extension Speaker
★ For Rear Seat Speaker in Wagons
★ Ready to Mount and Connect

Thin Design



Old Design



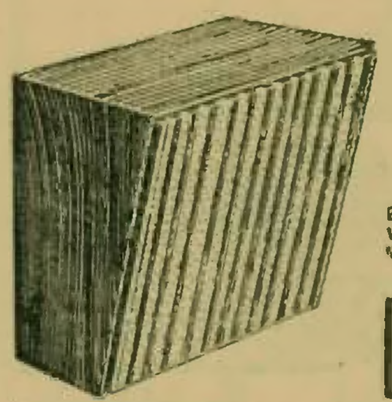
SPEAKER RESPONSE CURVE



No. S-394
**$4.99**
3 for $14.50
Lots of 12, Ea. $4.50

Mounts on wall or ceiling. Perfect for built-in Hi-Fi system, adding extension to your present system. Ideal for all kinds of background music systems. Styled to blend tastefully with any decor. 6" speaker delivers rich full tone. Response: 60 to 12,000 cps. Voice coil 8 ohms. Overall depth in wall 3". Finished in brushed gold. Shpg. wt. 3 lbs.

24 Ga. Speaker Cable, 53 ft. No. W-361 ____ 99c
Volume Control No. VC-204 ____ Only $1.3
Line Transformer No. T-110, 3 for $4.50 ____ Each $1.7



Speaker
## BAFFLES

★ Scuff Resistant, Washable, Paintable, etc.
★ Pre-Drilled for Level Controls
★ For Paging, P. A., School Rooms, Offices, etc.

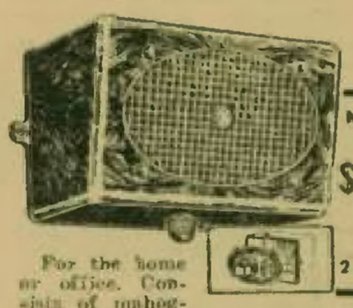
8" BAFFLE
(Less Speaker)
★ 10½" x 9¾" x 6½"
Blond ____ No. CA-216
Walnut ____ No. CA-259
Mahogany ____ No. CA-218
Shipping wt. 5 lbs.
**$4.89** Lots of 6, Each $4.19

12" BAFFLE
(Less Speaker)
★ 14" x 13" x 9⅛"
Blond ____ No. CA-2
Walnut ____ No. CA-2
Mahogany ____ No. CA-2
Ship. wt. 5 lbs.
**$5.69** Lots of 6, Each $4.99

ACCESSORIES:
8" PM Speaker No. S-86, Shipping Wt. 2 lbs. ____ Ea. $3.4
12" PCA PM Speaker, S-442, Shpg. Wt. 5 lbs. ____ Ea. $5.9
Line Transformer No. T-110 ____ Ea. $1.7
Speaker Cable No. W-361 (53 ft.) ____ 9

## 6" x 9" EXTENSION SPEAKER

★ With Volume Control



No. S-498
**$4.70**
2 for $9.00

For the home or office. Consists of mahogany color molded baffle, 6x9 speaker, and speaker volume control, hardware and instructions. 8 ohm. Assembled. Size: 10¾" W x 4½" D x 8" H. Shipping weight 4 lbs.

Speaker Cable, 53' 24 ga., No. W-361 ____ 99c

Acoustical
## FIBERGLASS

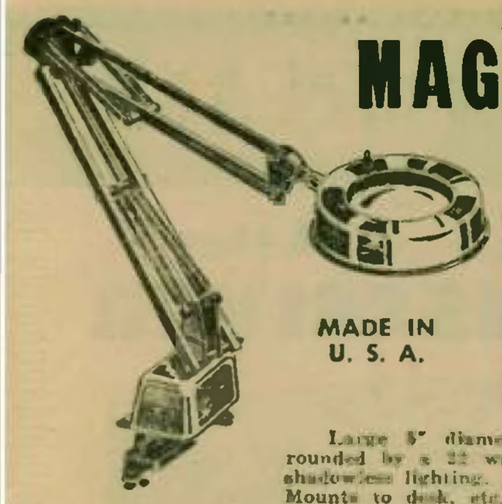


No. CA-256
**$1.29**
12 @ $1.00 Each

Ideal for lining speaker cabinets, room insulating under compartments. Easy to cut, glue, or staple. 9 sq. ft. package.

ACOUSTIC FOAM—72" x 18" x ½"
Easily Cut To Any Size
No. CA-62, 2 for $6 ____ **$2.57**

## 22 Watt Illuminated
# MAGNIFIER LIGHT



★ Tube Included!
★ Turns In A Full Circle!
★ Distortionless Magnification!

MADE IN U. S. A.

**$22.99** No. EA-52 — 3 for $68.50

Large 5" diameter, four power magnification lens surrounded by a 22 watt circline fluorescent tube provides cool shadowless lighting. Can be raised or lowered; extends to 45". Mounts to desk, etc. For 110-125 volts A.C. Shpg. wt. 8 lbs.

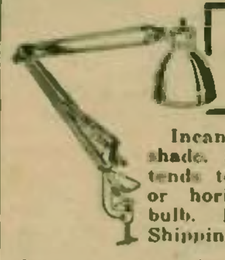
## SAFETY GOGGLES



No. TL-412
**$1.19**
3 for $3.30
12 for $12.00

Protect your eyes from serious injury with these adjustable goggles. Can be worn over regular glasses. Shipping weight ¼ lb.

## 'ADJUST-A-LITE' KIT
*ASSEMBLE IT YOURSELF AND SAVE!*

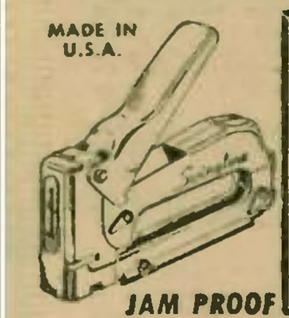


**$9.95** No. EA-69

Incandescent lamp with shade. Swings full 360°. Extends to 36". Clamps to desk or horizontal surface. Less bulb. For 110-125 volts A.C. Shipping weight 5 pounds.

Same as above but completely assembled
No. EA-53, 3 for $38.50 ——— Ea. $12.88

## Swingline STAPLE GUN



MADE IN U.S.A.

No. TL-398
**$3.88**
3 for $11.50
Lots of 12, Ea. $3.50

JAM PROOF

Simply place stapler against surface and squeeze. Special jam proof construction. Handle locks in place for easy carrying. Shipping weight 3 lbs.

Box of 1000 ⅝" Staples
No. TL-399, 5 boxes $2.50 — PER BOX **59c**

## Weller SOLDERING KITS



WELLER
MODEL 8200PK
DUAL HEAT
100/140 WATTS
No. TL-434
**$6.57**

Instant dual heat soldering gun with trigger switch and prefocused light. Comes with supply of solder, wire brush, and soldering aid. For 110-125 volts A.C. 50-60 CPS only. Shipping weight 4 lbs.

Tips for 8200PK, Pkg. of 2
No. TL-244 ——— **35c**



WELLER
MODEL D550PK
DUAL HEAT
240/325 WATTS
No. TL-183
**$10.99**
Lots of 3, ea. 9.71

Instant heat trigger switch and dual prefocused lights. Includes solder, carrying case, and tips. For 110-125 volts A.C., 50-60 CPS only. Shipping wt. 6 lbs.

Energized Rosin Core Solder, 1-lb.
No. X-620, 3 for $3.50
Shipping Wt. 1½ lbs. ——— **$1.39**

## HAND NIBBLING TOOL



★ Cut squares, circles or complex designs in metals or plastic.

No. TL-161
**$3.85**
3 for $11

Bites through 18 gauge steel or ⅛" aluminum, copper or plastic. Sharp angles and tight curves cut effortlessly. Edges remain smooth after cut. Shpg. wt. ½ lb.

EXTRA PUNCH
No. TL-162, 3 for $5.50 ——— **$1.87**

## POCKET HOIST



★ Lifts or Pulls up to 2000 lbs.
★ Lubricated for Life

**$6.95** No. TL-327 — 3 for $20

Miniature block and tackle with 7 to 1 ratio is small enough to fit in pocket but lifts or pulls up to 1 ton of weight. Perfect for hunters, boaters, airplane owners, motorists, etc. Comes with 100 ft. multi-strand Dupont nylon rope that tests at 1,000 lbs. per strand. Made of high grade aluminum with stainless steel axles. Weighs less than 1 lb. Rustproof. Shpg. wt. 2 lbs.

## METAL WORKSHOP

★ Punches, Shears, Forms, Rivets



Stock No. TL-170
**$9.55**

Punches holes in metals up to 16 gauge, to 1" from edge of stock. Three round punch sizes included — ⅛", 3/16" and ¼". Shears metals up to 1" width. 16 gauge thickness. Forms rod or bar stock up to 1" width. Bends and forms up to 90°. Bends or forms up to 16 gauge thick. Rivets with any type solid or hollow rivet. Shipping weight 6 lbs.

**SAVE! GET BOTH**
No. AS-328 **$24.00**
BOTH FOR —
Shipping wt. 22 lbs.

## 18" FORMING BRAKE

★ Forms 16 Ga. Metals up to 90°

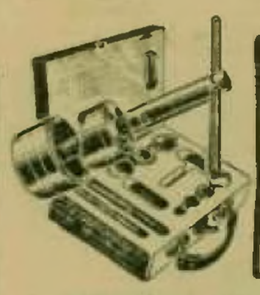


No. TL-169
**$14.95**

Forms and bends metals to make boxes, covers, trays, etc. 1" deep slots in brake bar permits corners to fold in. Handles up to 18" width stock. Provides flange edge to 1" height. Ruggedly constructed, accurate and adjustable. Shipping weight 13 lbs.

## CHASSIS PUNCH SET

★ 11-Piece Set

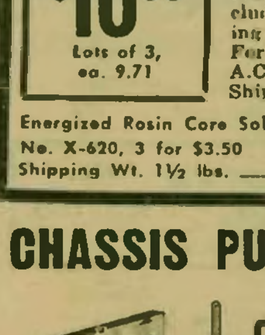


No. TL-246
**$6.95**
3 sets for $20.44

5 popular size chassis punches and deluxe reamer commonly used in most radio work. Makes mounting of jacks, switches, pilot lights and sockets easy. No extra tools necessary. Chassis size are: ½", 5/8", 1", 1 1/32" and 1⅜". Reamer cuts ⅛" to ½". Handsome wood box. Shpg. wt. 4 lbs.

## 36" Flexible Shaft

★ Fits ¼" or ½" Drill



No. TL-211
**$2.39**

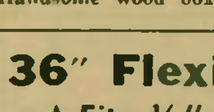
Transfers power from stationary power tools for precision work. Capacity 1/32" to ¼" size drill. Shipping weight 2 lbs.



Genuine Jacobs
¼" DRILL CHUCK
**$2.98** No. TL-326 — 3 for $8.00

Fits most ¼" electric drills. Polished finish. Complete with key. Shpg. wt. ⅛ lb.

SP5 William R. Rose, US Army Field Band, Ft. Meade, Md., wins choice of merchandise worth $5 from Olson's "Treasure Hunt." See back cover for instructions.



7-PIECE
DRIVER SET
**$2.19** No. TL-174

Insulated, color size keyed shafts. In sizes: 1/16", 3/32", ⅛", 5/32", 3/16", ¼", and 5/16". Shipping weight ¼ lb.

## 7" Power Saw Accessories



**CARRYING CASE**
For 7" and 8½" Ram saws. Shpg. wt. 7 lbs.
No. CA-118 ——— $6.48
Shipped PP except to 1st Class Post Office

**EXTRA 7" BLADES**



Combination — No. TL-202
Shpg. wt. ½ lb. ——— $2.25



Flooring Cut Off — No. TL-203
Shpg. wt. ½ lb. ——— $2.25



Planer Blade — No. TL-204
Shpg. wt. ½ lb. ——— $5.00

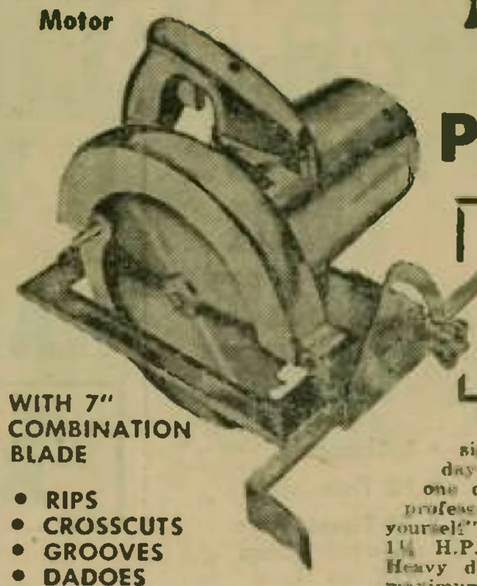
**SAVE** All 3 Blades — No. AS-406
Shpg. wt 2 lbs. ——— $7.93



**SAW TABLE**
Converts Ram 7" power saw to table saw. Includes miter gauge and rip fence. Angles between 45° and 90°. 9¾" high, 15" x 15" square. (225 sq. inches). Shpg. wt. 12 lbs.
No. TL-205, 3 for $25.00 ——— $8.75

SAVE—GET ALL 5 UNITS ABOVE
No. AS-426 (Ship. wt. 26¼ lbs.) ——— $21.00

★ 1½ H.P. Motor



WITH 7" COMBINATION BLADE

- RIPS
- CROSSCUTS
- GROOVES
- DADOES
- RABBETS
- BEVELS
- ANGLES
- MITERS

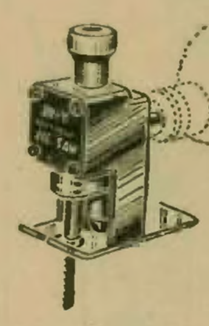
## RAM fury 7" Power SAW

No. TL-390
**$21.95**

The Fury power saw is designed for rugged every day all day use, but priced so low that anyone can own one. YOU can get that professional appearance on your "do it yourself" projects. Universal aircooled 1¼ H.P. motor with 3 conductor cable. Heavy duty die cast aluminum housing, maximum depth of cut 2¼" maximum depth of cut at 45 degrees 2⅛". No-load speed 5000 rpm. Comes with combination blade, other blades available. Rips, crosscuts, grooves, dadoes, rabbets, bevels, angles, and miters. 110-125 volts AC/DC. Shipping weight 14 lbs.

## "JIFFY" JIG SAW

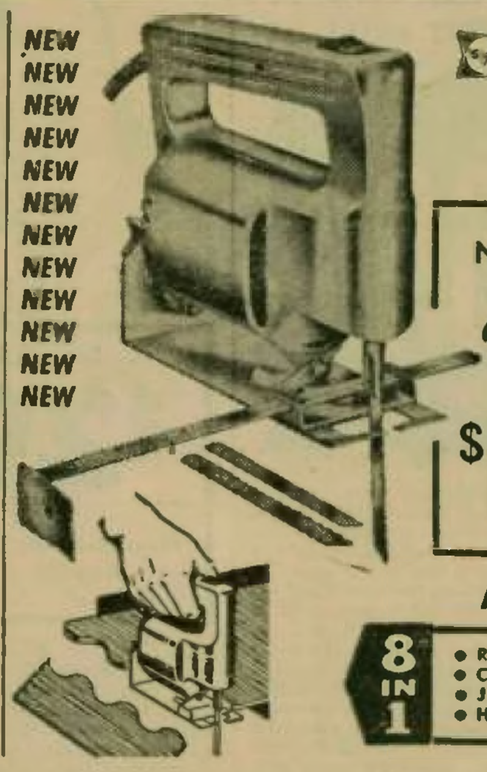
NEW! ★ FITS ANY ELECTRIC DRILL



No. TL-426
**$4.89**

This low price model has the same capacity and cutting speed as high priced jig saws. Does work of Jig, Keyhole, Coping, Rip, Crosscut, Band and Hacksaw. Cuts intricate patterns—however large—in plywood, plastics, metals — even cuts 2 x 4's! Automatic air-blower blows sawdust away from blade and cutting line. Extra large shoe-plate assures accurate and square cuts. Has self-lubricating bearings. Includes blade. For 110-125 volts AC, 60 cps. Shipping weight 3 lbs.

NEW NEW NEW NEW NEW NEW NEW NEW NEW NEW NEW NEW



## SABRE RAM fury SAW

★ ¼ H.P. Universal Motor
★ Mirror Finish

No. TL-433
ONLY
**$12.77**

Easily cuts 2 x 4's, plywood, plastic, composition board, aluminum, other metals and a host of materials. Operates on 115 volt, AC or DC. Features ¼ H.P. universal motor. Operates at 3500 strokes per minute. Length of stroke is 11/16". Has built-in cooling system, positive action slide switch, adjustable base, rip guide and mitre gauge. Bevel cuts from 0° to 45°. Comes with 5 assorted blades. Shipping weight 12 lbs.

## MULTI-PURPOSE SAW

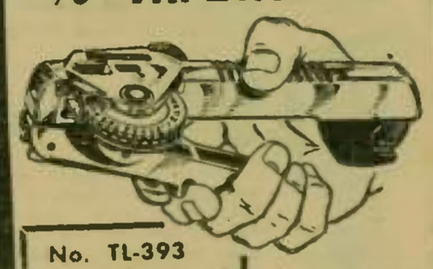
8 IN 1

- RIP SAW
- CROSSCUT SAW
- JIG SAW
- HACK SAW
- BAND SAW
- COPING SAW
- KEYHOLE SAW
- SCROLL SAW

## DYMO LABELMAKERS

INSTANT SELF-STICKING PLASTIC LABELS
EASY TO OPERATE ANYONE CAN USE IT

Model M-5
⅜" TAPEWRITER



No. TL-393
**$10.99**
Was $19.95 in 763 Cat.

★ Label Luggage, Sports Eqm't, Office Files, etc

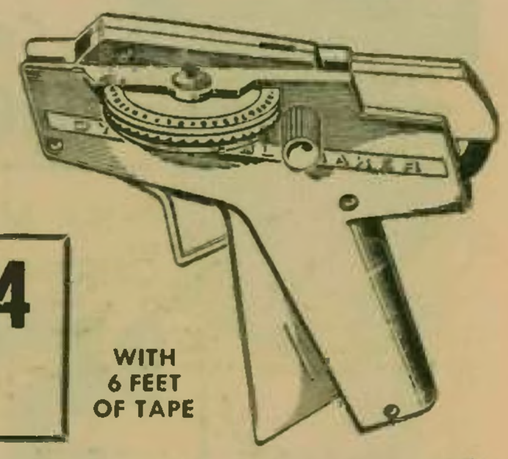
Make your own embossed name plates. Easy to operate, just dial letters and numerals. Crisp white letters against a colored background. Cut off label with built-in cutter, apply pressure sensitive label anywhere. Tape is supplied in a new quick change throw away cartridge. 10 ft. roll included. Shpg. wt. 1 lbs.

10 Foot TAPE CARTRIDGES — **$1.25**

| | |
|---|---|
| 5201-9 Black M/5 | No. TL-395 |
| 5201-2 Red M/5 | No. TL-405 |
| 5201-5 Green M/5 | No. TL-406 |

¼" DYMO
## LABELMAKER
Model M-4

★ Self-sticking plastic labels
★ Easy to operate
★ Anyone can use it



No. TL-414
Was $9.95 in 763 Cat.
**$6.64**
WITH 6 FEET OF TAPE

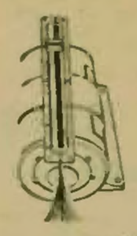
Just dial the letters or numbers, they come up white on colored self-sticking vinyl, ready to apply on radios, brief cases, books, etc. So easy to operate, anyone can use it. Embossing wheel has 44 characters: A-Z, 0-9, plus $ ¢ & % + —. Includes 6 ft. roll of tape. Size 6½" x 6". Shipping weight 1 lb.

## 6 Ft. TAPE CARTRIDGES

YOUR CHOICE **75¢**

| | | | |
|---|---|---|---|
| Yellow | TL-416 | Lilac | TL-428 |
| Black | TL-417 | Lime | TL-429 |
| Red | TL-418 | Azure | TL-430 |
| Clear | TL-419 | Pink | TL-431 |
| Blue | TL-420 | Cinnamon | TL-432 |
| Gold | TL-421 | | |

Symbol of SW Excellence
## Stewart-Warner RPM INDICATOR



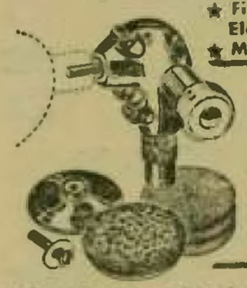
**99¢** No. X-854 $3.49 in Cat. 661 — 4 for $3.50

Easy to use- Simply place RPM Indicator on any running motor—slide needle to peak vibration point —read RPM's!

An accurate device for checking vibration or RPM's within a range of 1,500 to 15,000. Indispensable to those who operate or repair power lawnmowers, outboards, electric motors, etc. Shipping weight ¼ lb.

## 2-Speed Angle BUFFER

★ Fits Any Electric Drill
★ Made in U.S.A.

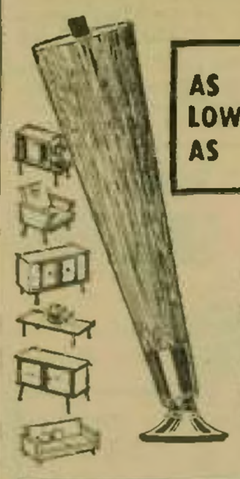


No. TL-344
**$4.95**
3 for $14.50
Lots of 12, EA. $4.50

Converts any electric drill into powerful right angle buffer and sander. 2 speed drive; buffs at ½ drill speed; sands at double drill speed. Includes 5" flexible molded rubber head, 5½" lambswool polisher and 3 sanding discs. Shipping weight 3 lbs.

## FURNITURE LEGS

★ Finish to Match Furniture
★ Self-leveling Swivel Glides

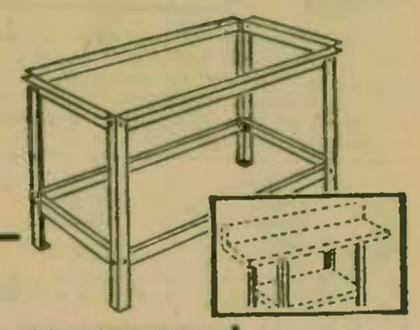


AS LOW AS **$1.79**

Tapered wood legs with brass ferrules and self-leveling swivel glides. Each kit contains 4 legs and 4 mounting plates. Legs mount straight up and down. Includes hardware. Shpg. wt. 5 lbs.

| Stock No. | Lngth. | PRICE PER SET OF 4 | Shpg. Wt. |
|---|---|---|---|
| TL-407 | 4" | $1.79 | 1½ lbs. |
| TL-408 | 6" | 2.09 | 1¾ lbs. |
| TL-409 | 12" | 2.39 | 2¼ lbs. |
| TL-410 | 14" | 2.79 | 2¾ lbs. |
| TL-411 | 17" | 3.21 | 3¼ lbs. |

## STEEL BENCH FRAME



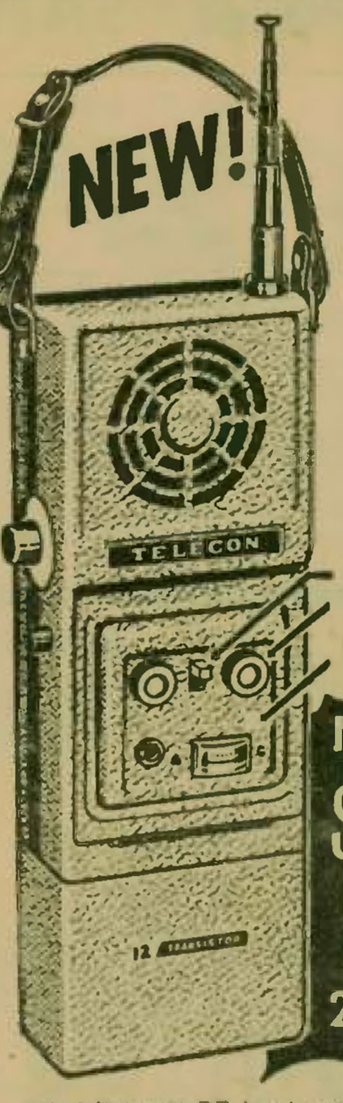
No. KB-98
**$5.50**
3 for $15



EASY TO ASSEMBLE

Sturdy all steel construction, pre-drilled ready for easy assembly. Just add top and shelf. Two or more frames may be combined. Size: 22½" x 47½" x 34" high. Grey finish. May be shipped parcel post to all cities. Shipping weight 17 lbs.

# Exciting 2-WAY COMMUNICATION GEAR




## TELECON 1 Watt WALKIE TALKIE

- 2 Channels
- 12 Transistors
- 10 Times More Powerful Than 100 MV Units
- Squelch Control
- Weather Proofed

CHANNEL SWITCH
SQUELCH CONTROL
BATTERY METER

No. RA-612
$69.98
2 For $130

A full 1-watt RF input crystal controlled 2-way walkie talkie with 12 transistors, 1 diode and 1 thermistor. Olson RA-612 is 10 times more powerful than 100 MW transceivers, yet is still small enough to be hand held. Here's the answer to real portability without the usual sacrifice in operating range. Ideal for operation between base or mobile station and a man in the field. Equipped with 2 pair of crystals for operating on channels 2 and 9. Battery meter on front panel provides a constant check on battery condition. Squelch control eliminates unwanted background noise between transmissions. Sturdy metal case has push to talk button conveniently located on side. A jack is provided for earphones. Operates on 8 standard penlight type batteries (included). Also included at this low Olson price: earphone with plug, earphone case, and a leather shoulder strap. Size: 2¼" H. x 3⅛" W. x 2" D. Shipping weight 2½ lbs. ea.

Extra Batteries (8 req'd) No. BA-67, 8 for ..... 59c

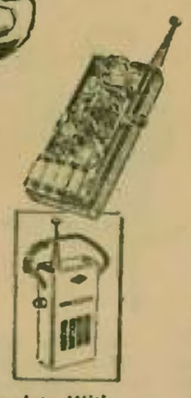
## 9 TRANSISTOR Citizens Band WALKIE-TALKIE

NO LICENSE REQUIRED

★ Crystal Controlled




No. RA-446
$29.99
Matched Pair $7 Monthly $59.50



Complete With Batteries, Earphone and Case

For use on popular 27 MC citizen's band. Receiver is specially designed superheterodyne circuit for reliable two-way communications. Operating range 1 mile and up under ideal conditions. Built-in speaker. Push-to-talk switch and volume on-off switch all conveniently located for fingertip control. Operates on 8 self-contained penlite cells available anywhere. Jacks provide for earphone. Built-in telescoping antenna. Styles may vary slightly. Size: 7½" x 2⅞" x 1½". Shipping weight 4 lbs.

BATTERIES (8 req'd) No. BA-67, 8 for ..... 59c

Olson

MADE IN U.S.A.

## Deluxe 6 Meter TRANSCEIVER




- 15 Watts Input
- 100% Modulation
- Receive: SSB, AM & CW
- Dual Conversion Superhet

★ RECEIVES SINGLE SIDEBAND

Mobile Station or Base Station

Olson brings you the utmost in flexibility and highest quality. Receiver features dual-conversion with crystal controlled local oscillator and ganged tuned second oscillator and mixer. Receiver tunes 49.9 to 52.2 MC with sensitivity of .5 μ for 6 db signal to noise ratio. Has tunable BFO for single-sideband reception. Image rejection is better than 24 db down. I.F. frequency is 12 MC for first I.F. and 595 KC for second I.F. Transmitter features 15 watts input with 100% modulation. Pi-network output tunes transmitter to match any antenna from 35 to 150 ohms. Spot switch provides a means for checking transmitter frequency. Dual purpose meter works as a receiver S-meter and transmitter tuning meter. Dual power supply, 117 volts AC (power cord included) and 12-volt DC. Complete with a Turner 350C push-to-talk mike with coiled cord. Size: 4½" h x 12½" w x 7" d. Shipping weight 22 lbs.

No. RA-570
$139.98
NO MONEY DOWN
$8 Monthly

12 V. D.C Cable, No. W-430 Shpg. wt. ¼ lb. ..... $2.95
Mobile Mounting Bracket, No. HW-46 Shpg. wt. ¼ lb. $2.95




## 2-Way WALKIE-TALKIE

★ NO LICENSE REQUIRED
★ EASY TO BUILD KIT FORM

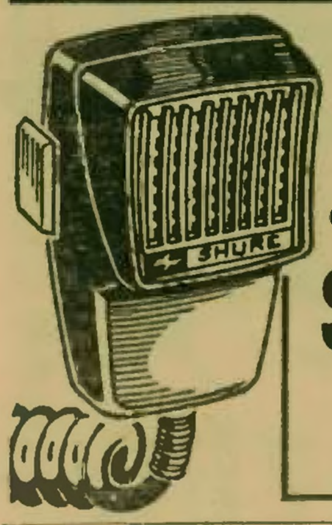
No. RA-583
$9.70
2 for $18.45

Anyone can build and operate this fully transistorized Space Age transceiver that transmits with the same power as America's "Explorer" Satellites! You can communicate, under ideal conditions, with family or friends up to ¼ mile away. 27 MC CITIZEN'S BAND SPACEPHONE REQUIRES NO LICENSE—NO EXAMINATION — NO AGE LIMIT! High impact, shock resistant case. Uses standard 9-volt transistor battery available everywhere. (less battery). Shipping weight 1½ lbs.

Battery (1 req'd.) No. BA-89 ..... ea. 21c

SHURE

## Communications MICROPHONE




No. M-175
OLSON PRICE
$5.98 ★

★ Made in U.S.A.

For CB or amateur use in both mobile or base stations. "Shaped" voice response pattern gives maximum intelligibility. Response: 200-4000 cps, free from undesirable peaks. Omnidirectional polar pattern. With push-to-talk switch, shatter-proof case and kinkproof 5-ft. stretch cord. Features high output ceramic element for 100% modulation of your transmitter. Output level -55.5 db. Includes mounting bracket. Shipping weight 2 lbs.

## Magnetic MIKE HOLDER

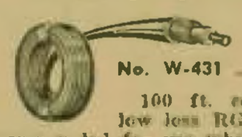


★ Clips on Back of Mike
★ Attach to Metal Surface

99¢ No. X-924

Powerful ceramic magnet attaches to back of any handmike with standard hanger button. You can then hang mike up on any metal surface such as car dash or transciever case. No holes to drill in mike or car dash. Simply clip to back of mike and it's ready to use. Size: 1¾" x 1⅜" x ⅞". Shpg. wt. ¼ lb.

## RG8-U COAX CABLE



No. W-431 ..... $10.99

100 ft. coil of high quality low loss RG8-U coax cable recommended for use where antenna lead exceeds 50 ft. Perfect for Citizens Band applications. Shipping weight 12 lbs.

## Coiled Comm. MIKE CORD



Communication replacement cord. 1 wire shielded. 1 pair for control circuits. Shipping weight ½ lb.

No. W-424 ..... Ea. $1.59

## Generator NOISE FILTER



Adjustable for 3 to 30 MCS. Ideal for C. B. Mounts on top of generator. Complete with instructions. Size 2½" L. x 2¾" H. x 1⅜" Dia. Shpg. weight ½ lb.

No. RA-532, 3 for $6.98 ..... $2.49



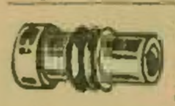
## Antenna Cable Kit

Kit to connect antenna to C. B. transceiver. 20' RG58U cable, 2-PL-259 plugs, 2-UG-176 reducers.

No. W-387 $2.29

Plug, No. X-852, 2 for $1.00 ..... Ea. 59c
Reducer, No. X-853, 2 for 30c ..... Ea. 16c

20 FT. ANTENNA CABLE, completely assembled. PL-259 connector on each end. Shipping weight 2 lbs. No. W-458 ..... $2.49



## UG-175 ADAPTOR

No. PL-95
2 for 30c Ea. 16c

Adaptor enables PL-259 connector to be used with RG-58U coax cable. Shipping weight ¼ lb.

## R.F. COAXIAL JACK



No. PL-96 Ea. 60c

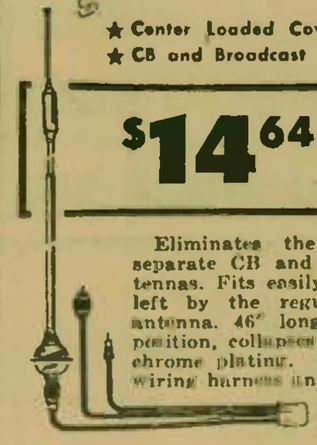
Chassis mounting receptical for PL-259 coax plug. Use for quick positive antenna connection. Shipping wt. ½ lb.

## CB MOBILE ANTENNA

MODEL M-103



★ Center Loaded Cowl Mount
★ CB and Broadcast



$14.64 No. AA-105

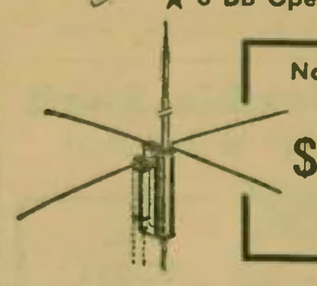
Eliminates the necessity of separate CB and broadcast antennas. Fits easily into the hole left by the regular broadcast antenna. 46" long in operating position, collapses to 31". Heavy chrome plating. Complete with wiring harness and all necessary plugs and hardware. Shipping weight 4 lbs.

## CB Base ANTENNA Magnum 27

MODEL M-81



★ 6 DB Operating Gain



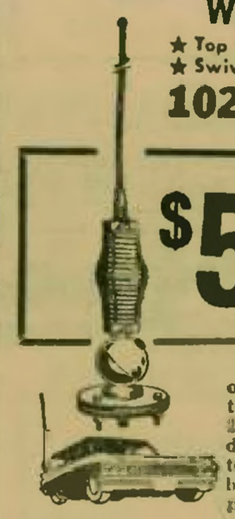
No. AA-90
$24.87

This new omnidirectional base antenna, end fed ½ wave length, shunted 27 M.C. CB antenna. Ruggedly built of rigid aluminum and cadmium plated steel. Hi-"Q" phasing transformer for proper resonance over entire citizens band. Shipping wt. 9 lbs. Shipped parcel post, except shipped railway express to 1st class post offices.

## LOW-COST WHIP ANTENNA

★ Top or Side Mounting
★ Swivel Joint

102" Spring Mounted Whip

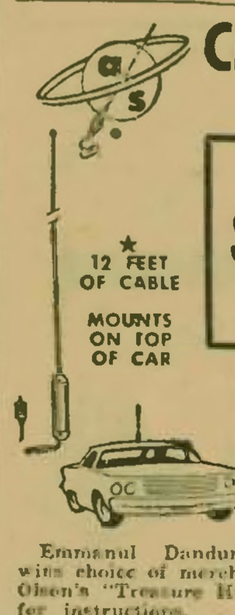


$5.99 No. AA-91

May be cowl, trunk or fender mounted. A terrific bargain for the 27 M.C. mobile rig. A durable first line antenna and mount at a bargain price. Shipping wt. 7 lbs. Shipped railway express only.

## CB Mobile ANTENNA

MODEL M-67



★ 12 FEET OF CABLE
MOUNTS ON TOP OF CAR

No. AA-101
$13.45

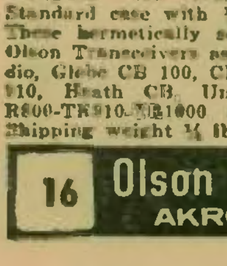
Omnidirectional, base loaded with 39" stainless steel whip. Mounts on top of car. 12' of cable and PL-259 connector included. Shipping weight 3 lbs.

Emmanul Dandurand, Franklin, Vt. wins choice of merchandise worth $5 from Olson's "Treasure Hunt." See back cover for instructions.

## Communications MIKE

Model 350C

★ Made in U.S.A.



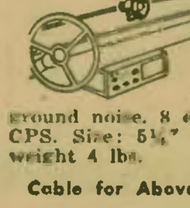
No. M-165
$5.98

With push-to-talk switch. Includes mounting clip and heavy duty coiled cord. Features a high impact polystyrene case. Ceramic element. Response 80-7,000 cps. Output level—54 db. High impedance. Shipping weight 2 lbs.

Model 254X - COMMUNICATIONS

## DESK MIKE

★ High Output Crystal Element



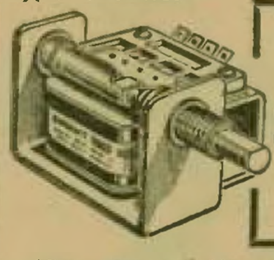
$14.10 No. M-167

Ideal for CB or amateur use. Touch to talk and locking on-off switch lever. One piece die cast case. Chrome trim. Response 80-7,000 CPS; output level is —50 db. Includes 7 ft. of shielded 5 conductor cable. Wired for relay operation. Size: 7¾" H. x 5½" D. Shpg. wt. 3 lbs.

Rice Machine Works, 478 N. 200 W., Cedar City, Utah, wins choice of merchandise worth $5 from Olson's "Treasure Hunt." See back cover for instructions.

## LOW-COST REED RELAY

★ 6 Channel



No. RE-83
$9.95

The most reliable relay of its type. Ideal for CB selective calling systems, remote control of models and garage door openers. The vibra-fork relay is used to generate the frequency as well as detect it. Duration of contact closed-time 5% to 20%. Response time approx. 75 milli. seconds. Contact rating: 100 ma. @ 48 V. DC, 15 ma. @ 100 V. DC or 1 ma. @ 150 V. DC. Reed frequencies: 268.8, 313.4, 349.0 and 389.0 cps. Shipping weight 1 lb.

## CB TRANSMIT CRYSTALS

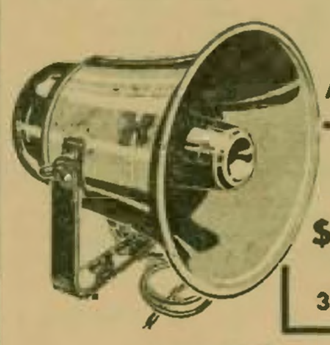



No. CB-1
$1.99
3 FOR $5.55
12 FOR $21.50

SPECIFY YOUR CHOICE OF CHANNELS 1 THRU 22

Popular 3rd overtone type crystals. Standard case with ½" mounting centers. These hermetically sealed crystals fit all Olson Transceivers as well as, General Radio, Globe CB 100, CB 100A, De Wald TR 910, Heath CB, United Scientific Labs R800-TR910-TR1000 and many others. Shipping weight ¼ lb.

## OLSON 5 WATT TRUMPET SPEAKER



★ Adjust to Any Angle

No. S-453
$6.95
3 for $20

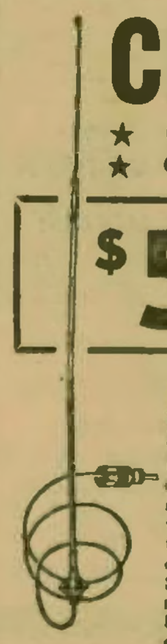


Connect to the external speaker jack of your CB for improved high level sound. Cuts through background noise. 8 ohms. Response: 400-8,000 CPS. Size: 5½" dia. x 5" deep. Shipping weight 4 lbs.

Cable for Above Speaker, See Page 25

## CB ANTENNA NEW TRONICS CB Phantom

★ Cowl Mount
★ Center Loaded



$5.97 No. AA-106

First and only Fibre Glass Antenna sheathed in copper braid. Bending of more than 90° will not crack or break it. Has all the electrical efficiency of an all metal antenna. Mounts on any convenient location on car or truck. Only 48" high. Works on all channels with low SWR. Complete with universal automotive mount and 5 ft. lead with PL-259 type connector. Shpg. wt. 3 lbs.

WURLITZER Resonant

## REED RELAY

★ 6 Channel



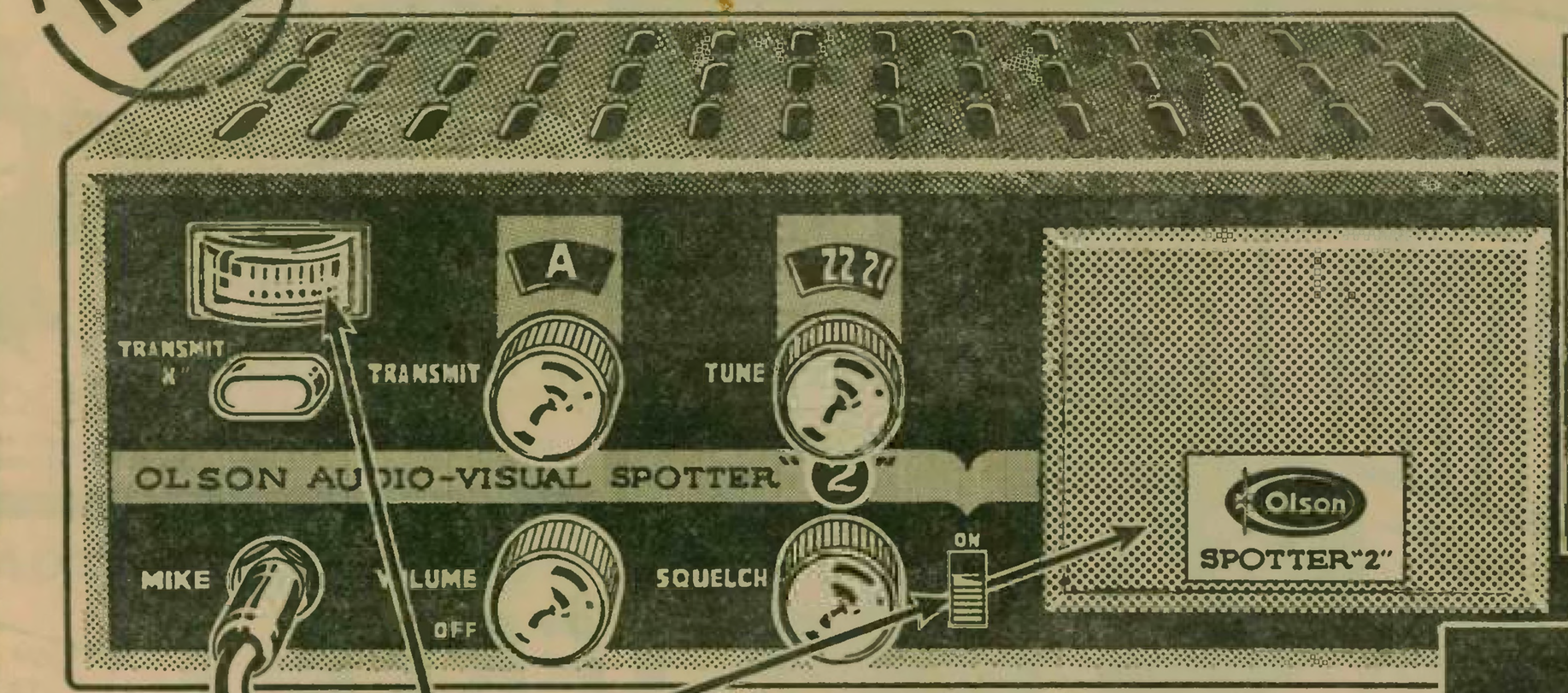
No. RE-83
$9.95

The most reliable relay of its type. Ideal for CB selective calling systems, remote control of models and garage door openers. The vibra-fork relay is used to generate the frequency as well as detect it. Duration of contact closed-time 5% to 20%. Response time approx. 75 milli. seconds. Contact rating: 100 ma. @ 48 V. DC, 15 ma. @ 100 V. DC or 1 ma. @ 150 V. DC. Reed frequencies: 268.8, 313.4, 349.0 and 389.0 cps. Shipping weight 1 lb.

16 Olson Electronics AKRON, OHIO

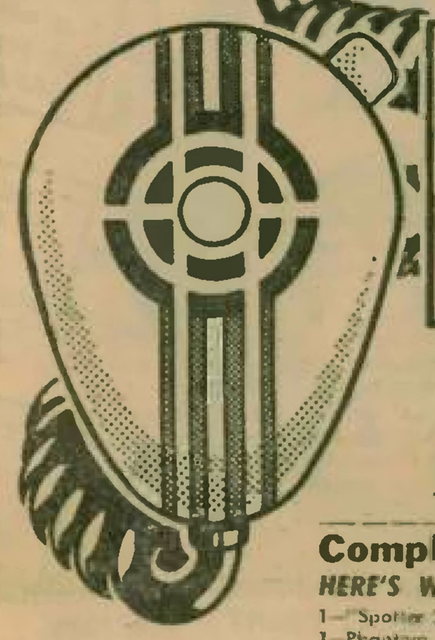
NEW

# Olson *Audio-Visual* "SPOTTER 2" CB Transceiver




| | |
|---|---|
| NEW | INCREASED OUTPUT |
| NEW | INCREASED SENSITIVITY |
| NEW | INCREASED SELECTIVITY |
| NEW | INCREASED MODULATION |
| NEW | TVI FILTER |
| NEW | HEAVY DUTY POWER SUPPLY |
| NEW | IMPROVED VENTILATION |
| NEW | GREY & BLACK FINISH - ALUMINUM KNOBS |

MADE IN U.S.A.






Olson brings you the fabulous NEW "Spotter 2" at no increase in price! Even though the original Spotter met with fantastic success, Olson was not satisfied. Even the best has some room for improvement. Our new "Spotter 2" has been remodeled and restyled to bring you the very latest in circuit design along with styling to rival units selling for several times Olson's low price. OLSON brings you the convenience of variable tuning receiver with the stability of crystal control, utilizing our new audio visual spotter. By using the spotter switch, the receiver can be tuned to the exact frequency of the crystal controlled transmitter. The exact receive channel tuning point is indicated on the "S" meter, as well as an audible tone signal.

Ideal for mobile use, where the meter might not be easily viewed. The unit comes equipped with a Turner 250C mike ready to plug in for clear undistorted voice pickup. Full five watts input, with 100% modulation, 3 watts or more output. Built-in power supply provides operation on 110-125 Volts, 6 and 12 Volts DC Selectivity 5 kc. Auxiliary speaker terminal provides for internal and/or external speakers. NINE TUBES and FOUR DIODES offer performance equal to 19 tubes. Variable squelch with positive action. "S" Meter denotes received signal strength and relative modulation indication. Uses standard 3rd overtone type crystal, PL-259 type antenna connector. 110 Volt AC cable included. Unit attractively housed in low silhouette grey and black cabinet 4½" H x 12½" W x 7" D. Shipping weight 14 lbs.

## ACCESSORIES:

| | |
|---|---|
| 6 or 12 Volt DC Cable, No. W-430 | $2.95 |
| Mobile Mounting Bracket, No. HW-46 | $2.95 |
| TRANSMIT CRYSTAL No. CB-1, 3 for $5.55 | ea. $1.99 |

No. RA-530

$7 NO MONEY DOWN MONTHLY

OLSON PRICE $119.95

## Check These Features:

- PERFECT 22 CHANNEL TUNING
- Tuneable Receiver with XTAL Spotter
- Dual Conversion Superhet
- 12 Channel XTAL Controlled Transmit
- Built-In "S" Meter-Modulation Indicator
- 19 Tube Performance
- Dual Series Gated Noise Limiter
- .3 of 1 Microvolt for 6 DB Signal To Noise
- With Channel 9 Transmit XTAL
- Front Panel, XTAL MTG For Transmit
- Adjustable Squelch Control
- 110 V AC, 6 and 12 V DC Power Supply Built-In
- Receive Local Oscillator XTAL Controlled
- Illuminated Dial

### Complete CB MOBILE STATION

*HERE'S WHAT YOU GET:*

| | |
|---|---|
| 1—"Spotter 2" Transceiver, RA-530 | $119.95 |
| 1—Phantom Antenna, No. AA-106 | 5.97 |
| 1—Mobile Mounting Bracket, No. HW-46 | 2.95 |
| 1—6 & 12V DC Power Cable, No. W-430 | 2.95 |
| Total Regular Catalog Price | $131.82 |

YOU PAY ONLY $125 AS-826

### Complete CB BASE STATION

*HERE'S WHAT YOU GET:*

| | |
|---|---|
| 1—"Spotter 2" Transceiver, RA-530 | $119.95 |
| 1—A.S. M81 Base Antenna, No. AA-90 | 24.87 |
| 1—100-Ft. RG8-U Coax Cable, No. W-431 | 10.99 |
| 2—Connector Plugs, No. X-852, 2 for | 1.00 |
| Total Regular Catalog Price | $156.81 |

YOU PAY ONLY $149 AS-807

# COMMUNICATE With Any CB Rig








NOTICE

No. RA-590

$13 MONTHLY

NO MONEY DOWN

OLSON PRICE $214.95




ALL CRYSTALS INCLUDED FOR 23 CHANNELS

## Olson "*Side-Bander*" CB TRANSCEIVER

**Double Side-Band Power Gives Up To 4 Times More Range**

- 10 Watt P.E.P.
- Dual Panel Meters
- 2-Tube Push-Pull Modulation
- Dual-Conversion Superhet Receiver
- Built-In Crystal Filter

Here is new power, new performance never before available in any CB Transceiver. New Double Sideband Transmitter gives up to 4 times the normal operation range of most units. Even under the most difficult broadcast conditions the Olson "Side-Bander" delivers maximum power within FCC Regulations. Receiver has ½ microvolt sensitivity for 10 DB signal-to-noise ratio, and excellent selectivity, image and IF rejection figures. Space age technology has brought about an advanced new concept in frequency control. A frequency synthesizer provides full crystal-controlled transmitter and receiver operations on all 22 CB channels—no extra crystals to buy! Delta tuning circuit brings in off-frequency stations. Transmitter section has 10 watt P.E.P. modulation capability and pi-network output to match 30-75 ohms. Two tube push-pull modulation provides 100% modulation at all times. Dual panel meters provide a constant check on transceiver operation. Meters read strength of receiving and transmitting signal plus voltage and current to final tube. Red light comes on during transmit. A few of the other outstanding features are: adjustable squelch control, automatic noise limiter and crystal filter. Size: 5½" x 11½" x 9¾". With universal power supply, push-to-talk ceramic mike with coil cord and all transmit and receive crystals for 23 channel operation. 110-125 Volts AC, 60 CPS and 12 Volts DC. Shipping weight 15 lbs.

## ACCESSORIES:

**Mobile Mounting Bracket**



No. HW-46

$2.95

**Deluxe Mobile Mounting Bracket**



No. HW-49

$9.95

**12 Volt DC POWER CABLE**



No. W-468

$3.98

### Complete CB Base Station

*HERE'S WHAT YOU GET:*

| | |
|---|---|
| 1—"Side-Bander" Transceiver, RA-590 | $214.95 |
| 1—A.S. M-81 Base Antenna, No. AA-90 | 24.87 |
| 1—100 Ft. RG8-U Coax Cable, W-431 | 10.99 |
| 2—Connector Plugs, No. X-852, 2 for | 1.00 |
| Total Regular Catalog Price | $251.81 |

YOU PAY ONLY $239 AS-870

### Complete CB Mobile Station

*HERE'S WHAT YOU GET:*

| | |
|---|---|
| 1—"Side-Bander" Transceiver, RA-590 | $214.95 |
| 1—Phantom Antenna, No. AA-106 | 5.97 |
| 1—Mobile Mount Bracket, No. HW-46 | 2.95 |
| 1—12 Volt DC Power Cable, No. W-460 | 3.98 |
| Total Regular Catalog Price | $227.85 |

YOU PAY ONLY $221 AS-871

# Genuine TYMETER Automatic CLOCKS

MADE IN U. S. A.




★ Factory Boxed
★ "Split-Second Time At a Glance"

The Tymeter is a fully automatic, self-starting clock with 4 revolving wheels that tell time directly in numbers. Dials tell you hour, ten minute, minute and second. No chance for error. Your choice of style to match any decor. Perfect for radio amateur ham shack, office, desk, kitchen, etc. U.L. approved motor and cord. For 110-125 volts AC, 60 cps. Shipping weight 5 lbs.

Mfr. 1963 List Price... ~~$10.95~~

**$4.99** No. EA-73

PLUS 50c F.E.T.




**TYMETER** Automatic **CLOCK**

**$5.99**

PLUS 60c F.E.T.

Handsome Deluxe Model! Self-starting, fully automatic. Dials tell hour, ten minute, minute and second. For 110-125 volts AC, 60 cps. Shpg. wt. 4 lbs.

| | |
|---|---|
| Walnut | No. EA-72 |
| Ebony | No. EA-76 |
| Ivory | No. EA-77 |




**TYMETER** Automatic **CLOCK**

**$7.99**

PLUS 80c F.E.T.

Beautiful Super Deluxe Model! Automatic and self-starting. Dials tell hour, ten minute, minute and second. For 110-125 volts AC, 60 cps. Shipping weight 5 lbs.

| | |
|---|---|
| Walnut | No. EA-71 |
| Ebony | No. EA-74 |

# SCOURMASTER

Complete With EVEREADY Batteries

★ SCOURS
★ SCRUBS
★ SHINES
★ POLISHES
★ PORTABLE

Scourmaster not only scours and scrubs dirty pots and pans but also shines and polishes silverware and copperware, cleans dishes and glassware. No need to plug into a wall outlet, Scourmaster operates on self contained batteries (included). The exclusive "Pow-R-Pack" handle contains a highly efficient motor that gives just the right amount of cleaning power and splash-proof speed to remove stubborn scorch, even burnt-on stains. This hand-contoured, rubber-clad handle is completely safe and comfortable to use in or out of water—it's completely water-proof. Scourmaster is automatically self-starting, just lift the handle from its cradle and the motor starts instantly. Complete with batteries, 6 heavy duty scouring pads, 2 nylon fiber pads, 1 soft plastic brush and wall mounting plate. Cabinet Size: 6¾" H x 3" W x 3" D. Shipping weight 10 lbs.

EXTRA BATTERIES, 12 req'd.) 6V EVEREADY 509 No. BA-92 Ea. $1.19

$

SOFT PLAS
CLEANS

## ONLY FROM OLSON

# FREE

GENERAL ELECTRIC Electric **ALARM CLOCK**



WITH PURCHASE OF 100 PIECE PARTS ASSORTMENT AT RIGHT

YOU G
3
100 TO
CAPAC

YOU
3
Disc
CAP

YO
1/2

## Tung-Sol 12AX7

★ BRAND NEW!
★ Individually Boxed




**69¢** EA. No. Z-328 3 for $2.00

Famous name Tung-Sol 12AX7 tube at a fraction of the manufacturer's list price. All brand new, first line tubes and come to you individually boxed. Shipping weight ¼ lb.

See our complete line of name brand tubes listed on page 34.

SUPERIOR INSTRUMENT CO.

## C. R. T. TESTER

Tests and Rejuvenates All Picture Tubes



★ Tests Color Tubes
★ Tests Tubes in The Set or Out of the Set

No. TE-181

**$24.95**

A new, improved circuit designed specifically to test older black and white tubes, new black and white tubes, and all color picture tubes. Test 50 degree to 110 degree types, from 8" to 30" sizes. Separate filament operating voltages are provided for older 6.3 volt tubes and new 8.4 volt tubes. Red, green, and blue sections of color tubes are tested individually. Tester indicates tubes that require rejuvenation, then applies a selective low voltage to assure increased life with no danger of cathode damage. Employs a 4" air-dampened meter with quality and calibrated scales. Features handsome, portable saddle-stitched case, complete with all necessary sockets. Size: 11⅝" x 6⅝" x 3½". For 110-120 volts A.C. 60 cps. See page 30 for other test equipment. Shpg. wt. 8 lbs.

Dr. Geo. W. Rigby Res., E. I. Dupont Co., 1004 Shipley Rd., Wilmington, Del., wins choice of merchandise worth $5 from Olson's "Treasure Hunt." See back cover for instructions.



# 8" OXFOR SPEAKE

PLUS

**100** Precision **RESISTOR**

★ Speaker Impedance 8 ohms
★ Speaker Power Cap. 10 Wat
★ Selected Assortment of Resis
★ Resistor Wattages ½ to 2 W

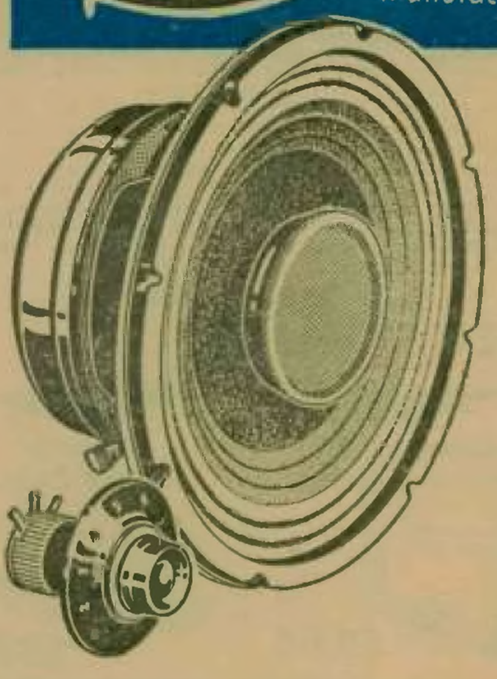
Here's a real "top-value" for th experimenter or hobbyist. You get a fine 8" Oxford speaker suitable replacement in radio, TV, phon extension speaker for your stereo. cision resistors are ideal for all of experimental circuits as multip voltage dividers, etc. Resistance marked on each resistor. Resistors from very small ½ watt sizes to 2 watt size. An unusual combinati a usual Olson low price. Shpg. wt.

**ALL FOR $3**

No. AS-863

## Olson — Designed & Built For Olson by A Leading U S A Manufacturer

# 8" 2-Way SPEAKER



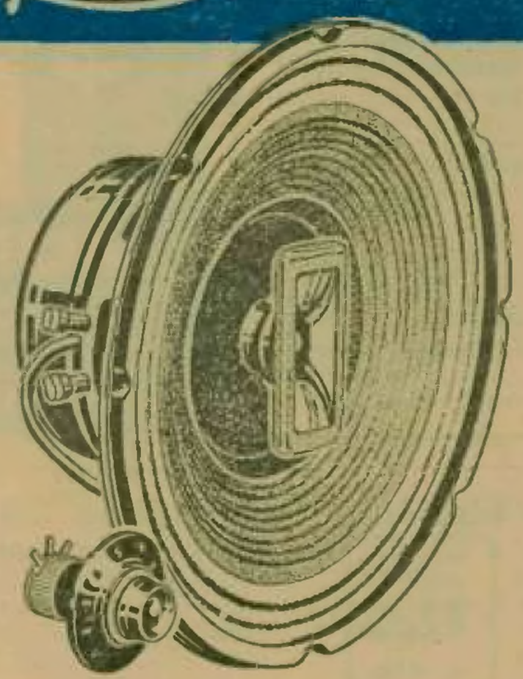
★ High-Compliance Woofer
★ High-Efficiency Tweeter
★ Crossover With Level Control

**$16.98** No. S-577

In the 8" Olson 2-way speaker a genuine, high-compliance woofer reproduces only the bass tones . . . and it does it so faithfully that you might think it is a much larger speaker. The cloth annulus allows complete freedom of movement so that woofer cone can follow intricate low frequency wave forms without distortion. Electrical crossover then channels the remainder of the sound to the tweeter where it is properly reproduced by the highly efficient tweeter. Thus complete musical balance and harmony is achieved in this Olson 2-way speaker system. Overall frequency response is 40 to 15,000 cps. Power capacity 10 watts. Impedance: 8 ohms. Magnet: (woofer) ceramic, 6 oz. (tweeter) Alnico, .5 oz. Built-in level control permits adjustment of tweeter to suit your taste. Has binding post connections for quick, no-solder hook-up. Shipping weight 6 lbs.

## Olson — Designed & Built For Olson by A Leading U S A Manufacturer

# 12" 3-Way SPEAKER



★ High-Compliance Woofer
★ Horn Loaded Supertweeter
★ Ceramic Magnet

**$29.98** No. S-573

Olson has combined, in a single coaxial speaker, the most desired features of the finest three-way systems. 3-in-1 concentric design incorporates a compression horn tweeter plus a midrange diffuser and a high compliance woofer. Each element faithfully reproduces its own portion of the audio spectrum. Phenomenal bass response, full bodied mid-range and silky smooth upper octaves are reproduced with unusually pleasing musical balance. Handles 25 watts of program material with peaks to 40 watts. Frequency response: 35 to 20,000 cps. Mechanical crossover at 2,000 cps, electrical crossover 3,500 cps. Level control on tweeter adjusts to suit your taste. Impedance 8 ohms. Magnet weight (woofer) 15 oz. (tweeter) 2 oz. Shipping weight 19 lbs.




# 100 Piece PARTS ASSORTMENT

All 100 Pieces

**$3.99**

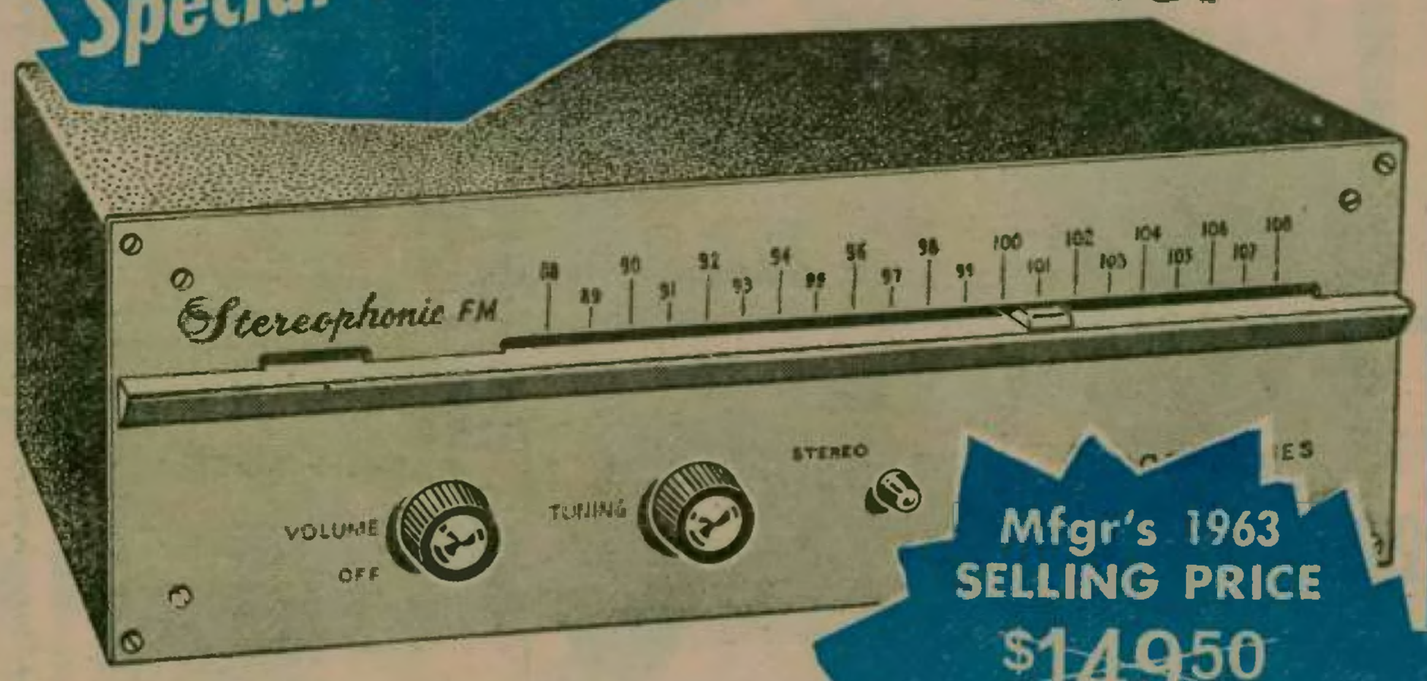
No. AS-866

100 carefully selected components to fill most replacement and experimental needs. You get 32—½, 1 and 2 watt resistors. Also included are 35 tubular capacitors from 10¢ to 1,000 volts. To complete this fine kit, we have added 30 disc and tubular ceramic capacitors rated at 600 v. All parts in this kit are brand new with full length leads. All are made by leading manufacturers. Keep several of these kits handy in tool box or on your work bench, and you will always have the part you need when you need it. Shipping weight 2 lbs.

# EXCLUSIVE Special Purchase

KARG LABORATORIES

# FM/FM STEREO Tuner




## The Special Purchase of the Year!

★ Gold Anodized Panel
★ Latest Multiplex Circuitry
★ Award Winning Design

Olson has just completed one of the most fantastic special purchases ever made. A high quality, U.S.A. made FM tuner at a fraction of the manufacturer's original price. Only a limited number were available and they won't last long at this low, low price. From the award winning styling to the outstanding performance, this is truly the most outstanding value anywhere. Features an automatic indicator which lights up when you tune in a multiplex (stereo) FM station. Automatic switching makes changeover from regular FM to FM stereo automatically. Low noise RF amplifier brings in even the distant stations with ease. Smooth action flywheel tuning on 9" slide-rule dial provides original accuracy. This fine tuner is equipped with a separate monophonic output jack as well as stereo outputs. Has built-in antenna plus provisions for external antenna. **Specifications:** Sensitivity: 2.2 uv, IHFM; 0.8 uv. for 20 db. quieting. Response ± 1 db, 40-15,000 cps. Hum and noise: — 48 db. with 50 uv. input. Distortion: less than 1.5%. Separation: 30 db. Size: 13¾" W. x 5½" D. x 5" H. For 110-125 volts A.C., 60 cps. Includes metal cover. Shipping weight 13 lbs.

Mfgr's 1963 SELLING PRICE
~~$149.50~~
OLSON LOW PRICE

**$69.99**

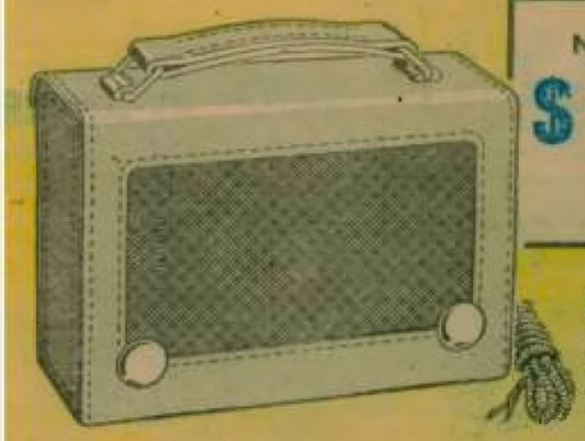
No. RA-622

LESS THAN HALF OF THE MANUFACTURERS ORIGINAL PRICE

# EXTENSION SPEAKER

RCA

★ Mounted in Leather Carrying Case
★ Includes 15 Ft. of Cable



No. S-586

**$1.99**

Heavy duty 4" PM speaker mounted in a leather carrying case. Ideal for extension on radio, TV, Phono or tape recorder. Case has convenient carrying handle. 15 foot 2 conductor cable is attached to speaker and anchored to inside of case. Size: 8½" W. x 6" H. x 2½" D. Impedance 4 ohms. See page 14 for other speakers. Shipping weight 3 lbs.

John W. Balthrid, 913 Crittenden St. NW, Washington, D. C., wins choice of merchandise worth $5 from Olson's "Treasure Hunt." See back cover for instructions.

# 9 Transistor FM-AM-SW Dual-Purpose RADIO



★ For Portable or In-car Use!
★ FM-AM and Short Wave Bands
★ Auto Mounting Bracket and Batteries
★ Edge Lighted Dial
★ IMPORTED FROM WEST GERMANY

**$89.68**

No. RA-609
$9 MONTHLY
NO MONEY DOWN

A superior quality radio designed for both "Custom" auto radio and portable use. Extra powerful superheterodyne chassis employs 9 transistors for superb static-free FM and long range AM reception. Short wave band keeps you up to the minute on what's happening all over the world. Super sensitive circuitry provides amazing clarity even from far distant stations. A.F.C. assures drift-free listening. Rugged 4" PM speaker delivers finest tonal quality. Built-in telescoping antenna extends to 28½". Has input for auto antenna plug. Long-life operation from just 5 standard "C" cells (included). Handsome high impact gray plastic cabinet with slide rule dial and smooth-operating push-button controls. Mounting bracket fits any car. Radio easily slides in and out of bracket for portable or auto use. Shipping weight 8 lbs. Size: 10" W. x 6" H. x 3" D.

**Extra Batteries; (5 req'd.) No. BA-41 ..... Ea. 13c**



# 45 RPM RECORD BARGAINS

★ Famous Artists
★ Famous Brands

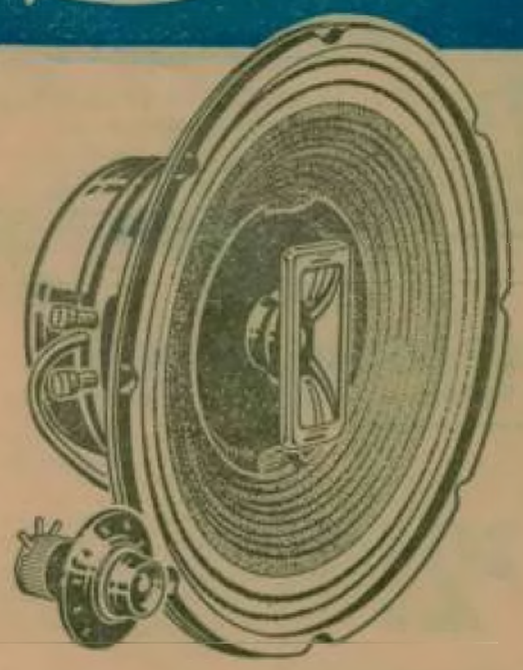
BIG KIT OF 9 ... **99¢**

No. RP-251

Another terrific deal from Olson! Name brand 45 RPM records at a fraction of their usual price. Such famous artists as Tony Bennett, DeJohn Sisters, Frankie Laine, Don Cherry, Ken Griffin, Jimmy Boyd and many others. Most records are Columbia, Epic, all are First Quality name brands. Assortments vary. Order now while the best selections are still available. Shipping weight 2 lbs.

Designed & Built For Olson by A Leading U.S.A. Manufacturer

# 12" 3-Way SPEAKER



★ High-Compliance Woofer
★ 1¾ lb. Ceramic Magnet
★ Horn Loaded Supertweeter

**$39.98**

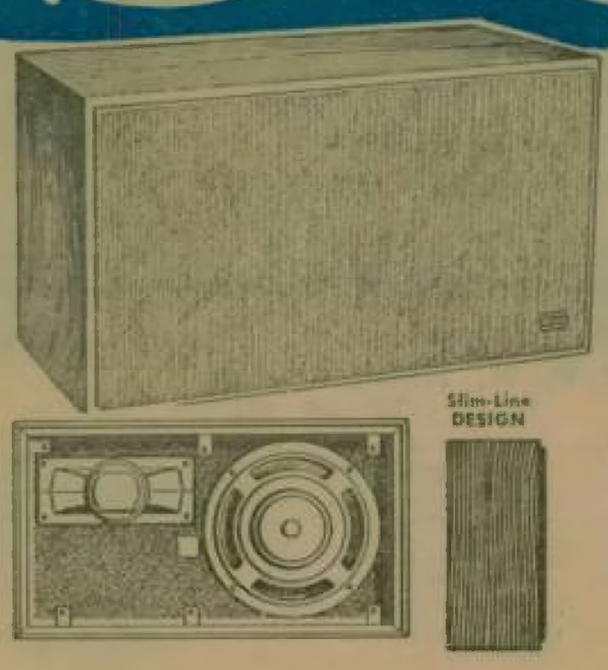
No. S-575

STEREO PAIR $69.98

Manufactured by a world leader in quality loud speakers. This expertly designed speaker will prove its quality the moment you turn on your music system. From full rich bass to crisp clear highs every note is flawlessly brought to life. All frequencies below 2000 cps are reproduced by the powerful 12" woofer. With its cloth suspension and large 1¾ lb. magnet this is one of the finest woofers available at any price. Sounds above 2,000 cps are reproduced by an elliptical midrange element, at 4,000 cps the "supertweeter" takes effect and the result is an unbelievable balance from one end of the audio spectrum to the other. Reponse 20-18,000 cps. Power capacity 30 watts with 50 watt peaks. Impedance 8 ohms. Magnet weight: (woofer) 1⅝ lb. (tweeter) 4.64 oz. Level control adjusts tweeter to suit your taste. Shipping weight 13 lbs.

Designed & Built For Olson by A Leading U.S.A. Manufacturer

# 2 WAY Speaker SYSTEM




★ Genuine Walnut Veneer
★ 8" High Compliance WOOFER
★ HORN TWEETER

**$37.88**

No. S-570
2 FOR $70

In Olson's new two-way speaker system, full-range reproduction is achieved by expert blending of two high quality speakers: a high-compliance, long-travel 8" genuine woofer and a special horn loaded compression driver tweeter. This new system comes to you in a full size but gracefully slender cabinet that combines big speaker performance with elegant appearance. The wood is genuine walnut veneer in oil finish. A new custom-woven grille fabric provides a distinguished decorator touch. Size: 10" x 16" x 6¼". Response: from smooth low frequencies thru 18,000 cps. Impedance: 8 ohms. Shipping weight 22 lbs.

ATTENTION CB'ERS



# Olson 5 Watt TRUMPET SPEAKER

No. S-453

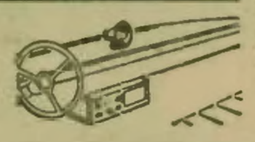
$6.95

3 For $20

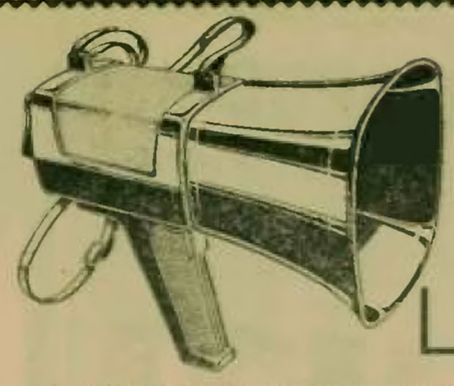
★ For Improved High Level Sound
★ Cuts Through Background Noise

Clear even coverage can be gained with trumpet-type speakers. Cuts through background noise. Ideal extension speaker for CB transceivers. 8 ohms. Response: 400-8,000 CPS. Size: 5¼" dia. x 5" deep. Shipping weight 4 lbs.

★ Adjust to Any Angle



Cable for Above Speaker, See Page 25



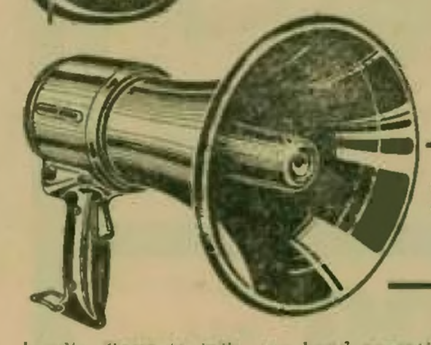
POWER
# MEGAPHONE

★ Transistor Power Circuit

$6.85 No. S-540

Pull the trigger and talk—no warm up required. Send your voice over long distance. (Average range 100 yards). Ideal for playground, spectator sports, boating, civil defense, etc. Made of super high-impact plastic. Has attached sling handle for easy carrying. Operates on 4 standard flashlight batteries (not included). Size: 12" long, horn mouth 6 square. Shipping weight 5 lbs.

Batteries (4 req'd) No. BA-53 ..... Ea. 13c



SELF-POWERED
# MEGAPHONE

★ Range Over 600 Ft.
★ Trigger Switch
★ Battery Operated

$29.88 No. S-426 3 for $87

No warm-up required—use instantly—trigger switch built into handle. Press to talk, one hand operation. Operates on 4 standard flashlight cells (not included) has power selector switch for high and low output. All metal construction in grey enamel finish. Size: 13½" long. Horn mouth 8¾" diameter. Shipping weight 9 lbs.

Batteries (4 req'd) No. BA-53 ..... Ea. 13c

# FANON-MASCO P. A. AMPLIFIERS

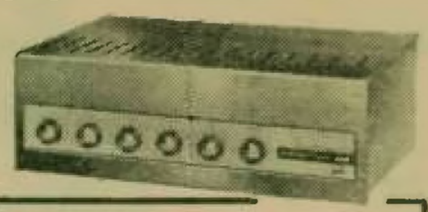
## FANON-MASCO 20 Watt Medium Power 20 P.A. AMPLIFIER



No. AM-206 — $59.95 — $7 MONTHLY

MODEL 3320. POWER OUTPUT (Rated): 20 watts at less than 5% distortion. PEAK POWER OUTPUT (Music Wave-Form Rating): 25 watts. FREQUENCY RESPONSE: 70 to 20,000 cps, 3 db down. INPUTS: 2 microphone-2 phono (fader control). GAIN: 128 db microphone; 58 db-phono. INPUT SENSITIVITY: Microphone 3 millivolts, phono 0.32 v. HUM and NOISE: Fundamental—78 db. Microphone—57 db. Phono —72 db. OUTPUT IMPEDANCE: 4, 8, and 16 ohms, 70 volt line. INPUT IMPEDANCE: High impedance 0.5 meg. POWER CONSUMPTION: 70 watts at 110-125 volts AC, 60 cps. Employs 5 tubes plus 1 silicon rectifier. DIMENSIONS: 13½" W. 10¼" D. 5¼" H. Shipping weight 17 lbs.

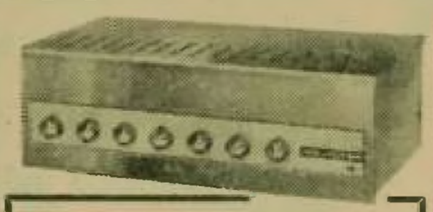
## FANON-MASCO 35 Watt Medium High Power P.A. AMPLIFIER



No. AM-200 NEW! — $74.95 — $8 Monthly

MODEL FMA-35. POWER OUTPUT (Rated): 35 watts at less than 5% distortion. PEAK POWER OUTPUT (Music Wave-Form Rating): 50 watts. FREQUENCY RESPONSE: 50 to 15,000 cps, 3 db down. INPUTS: 2 microphone, 2 phono (fader control). 1 microphone input convertible for magnetic phono cartridge. GAIN: 125 db microphone, 90 db phono. INPUT SENSITIVITY: Microphone 3 millivolts (magnetic low impedance 0.3 millivolts), phono 0.3 volts. HUM and NOISE: Fundamental—80 db. microphone—65 db. phono—70 db. OUTPUT IMPEDANCE: 4, 8, 16 ohms, 70 volt line. INPUT IMPEDANCE: High impedance 0.5 megohms. POWER CONSUMPTION: 115 watts at 110-125 volts AC, 60 cps. Employs 5 tubes plus 1 silicon rectifier. DIMENSIONS: 15" W. 10¼" D. 6⅝" H. Shpg. wt. 24 lbs.

## FANON-MASCO 100 Watt High Power P.A. AMPLIFIER



No. AM-239 NEW! — $113.95 — $7 Monthly

Model FMA-100. POWER OUTPUT: 100 watts at less than 5% RMS distortion. PEAK POWER OUTPUT: 120 watts (music wave-form rating). INPUTS: 3 high impedance microphone inputs. One mike input is convertible to magnetic phono cartridge. 1 phono input and 1 radio input on fader control. INPUT SENSITIVITY: Microphone—4 millivolts. Phono-radio—0.3 volts. Phono/magnetic 4 millivolts. GAIN: Microphone 130 db., Phono-Radio 90 db. INPUT IMPEDANCE: Microphone high impedance 0.5 meg. Phono-Radio 1 meg. OUTPUTS: 4, 8, 16 ohms, 25 volt line, 70 volt line. POWER CONSUMPTION: 290 watts at 110-120 volts A.C. 60 cps. Employs 9 tubes plus 1 silicon rectifier. DIMENSIONS: 18" x 6⅝" x 10¾". Shipping weight: 50 lbs.

# "DO-IT-YOURSELF P.A." Schools, Churchs, Clubs

Fanon-Masco Electro Voice
## 20 Watt P. A. System

★ Indoor and Outdoor Use



No. AS-726 — Save $23.77 — $101 — $7 Monthly

HERE'S WHAT YOU GET:

| | |
|---|---|
| 1—AM-206 20 Watt Amp. (above) | $59.95 |
| 2—S-175 Electro-Voice Speakers (above) | 42.92 |
| 1—M-138 Electro-Voice Mike (Pg. 15) | 15.58 |
| 2—T-110 Line Transformers | 3.42 |
| 1—W-318 100 Ft. Speaker Cable | 2.59 |
| 1—X-317 Microphone Connector | .31 |
| ★ TOTAL REGULAR CATALOG PRICE | $124.77 |

Fanon-Masco, Electro-Voice, Olson
## 20 Watt P. A. System

SAVE $25.93



No. AS-777 — $94 — $10 MONTHLY

HERE'S WHAT YOU GET:

| | |
|---|---|
| 1—AM-206 20 Watt Amp. (above) | $59.95 |
| 4—S-409 8" Speaker, Baffle (Pg. 14) | 34.66 |
| 1—M-138 Electro-Voice Mike (Pg. 15) | 15.58 |
| 4—T-110 Line Transformers | 6.84 |
| 1—W-318 100 Ft. Speaker Cable | 2.59 |
| 1—X-317 Microphone Connector | .31 |
| ★ TOTAL REGULAR CATALOG PRICE | $119.93 |

Fanon-Masco, Electro-Voice
## 35 Watt P. A. System

SAVE $49.15



No. AS-823 — $158 — $10 MONTHLY

HERE'S WHAT YOU GET:

| | |
|---|---|
| 1—AM-200 35 Watt Amp. (above) | $74.95 |
| 3—S-175 Electro-Voice Speakers (above) | 64.38 |
| 1—M-140 Electro-Voice Mike (Pg. 15) | 49.98 |
| 1—M-94 Floor Mike Stand (Pg. 15) | 7.91 |
| 3—T-110 Line Transformers | 5.13 |
| 1—W-317 250 ft. Speaker Cable | 4.49 |
| 1—X-317 Microphone Connector | .31 |
| ★ TOTAL REGULAR CATALOG PRICE | $207.15 |

Fanon-Masco, Electro-Voice, Olson
## 35 Watt P. A. System

SAVE $40.14



No. AS-824 — $139 — $8 MONTHLY

HERE'S WHAT YOU GET:

| | |
|---|---|
| 1—AM-200 35 Watt Amp. (above) | $74.95 |
| 4—S-409 8" Speaker, Baffle (Pg. 14) | 34.66 |
| 1—M-140 Electro-Voice Mike (Pg. 15) | 49.98 |
| 1—M-94 Floor Mike Stand (Pg. 15) | 7.91 |
| 4—T-110 Line Transformers | 6.84 |
| 1—W-317 250 Ft. Speaker Cable | 4.49 |
| 1—X-317 Microphone Connector | .31 |
| ★ TOTAL REGULAR CATALOG PRICE | $179.14 |

Fanon-Masco Electro-Voice Racon
## 100 Watt P.A. System

SAVE $53.08



No. AS-858 — $256 — $15 MONTHLY

HERE'S WHAT YOU GET:

| | |
|---|---|
| 1—AM-239 100 Watt Amp. (above) | $113.95 |
| 4—S-486 Racon Horns (right) | 65.80 |
| 4—S-487 Racon Drivers (right) | 59.80 |
| 1—M-140 Electro-Voice Mike (Pg. 15) | 49.98 |
| 4—T-110 Line Transformers | 6.84 |
| 1—M-94 Floor Mike Stand (Pg. 15) | 7.91 |
| 1—W-317 250 ft. Speaker Cable | 4.49 |
| 1—X-317 Microphone Connector | .31 |
| ★ TOTAL REGULAR CATALOG PRICE | $309.08 |

Fanon-Masco, Electro-Voice, Olson
## 100 Watt P.A. System

SAVE $53.64



No. AS-859 — $206 — $12 MONTHLY

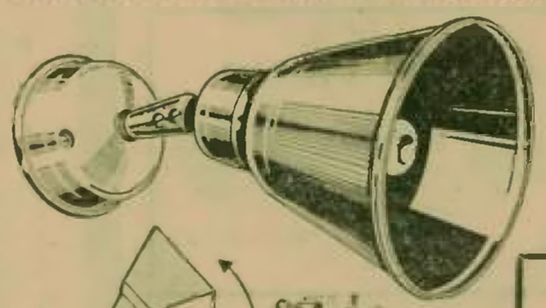
HERE'S WHAT YOU GET:

| | |
|---|---|
| 1—AM-239 100 Watt amp. (above) | $113.95 |
| 8—S-409 8" Speaker, Baffle (Pg. 14) | 69.32 |
| 1—M-140 Electro-Voice Mike (Pg. 15) | 49.98 |
| 8—T-110 Line Transformers | 13.68 |
| 1—M-94 Floor Mike Stand (Pg. 15) | 7.91 |
| 1—W-317 250 Ft. Speaker Cable | 4.49 |
| 1—X-317 Microphone Connector | .31 |
| ★ TOTAL REGULAR CATALOG PRICE | $259.64 |

## 70 VOLT LINE TRANSFORMER FOR ABOVE AMPLIFIERS

Primary: 2½ to 10 watts. Secondary: 3.2 & 8 ohms. 2" x 1½" Mtg. Clm. 2¾". Use one line transformer with each speaker. Shipping weight ½ lb. Made in U.S.A.

$1.71 — No. T-110 — 3 for $4.50 — Lots of 12, Ea. $1.25



Olson
Paging & Talk Back
# SPEAKER

★ Weather Proof
★ Decorator Styled

No. S-565

$12.98

2 for $25

Styled to blend tastefully with today's most modern furnishings. Ideal for any location where appearance is a critical factor, such as churches, conference halls, restaurants and similar surroundings. This speaker is equipped with a driver type reproducer unit for high efficiency, directivity and intelligibility. Response: 300 to 10,000 cps. Space is provided under the base of the speaker to house a line matching transformer if one is used. The base is designed to facilitate mounting to the standard 4" utility box or electrical lamp offset crossbar. Power rating 15 watt. Impedance: 8 ohms. Size: 6⅞" diameter x 15" long. Shipping weight 5 lbs.

RACON
## 25 Watt P.A. & Paging Speaker

★ Weather-Proof Terminal Block



Made In U.S.A.

No. S 482 — $15.95 — 2 for $30 — Compare at $34.50

Complete with driver, universal mounting brackets, unibody construction, Fidelifluxe design and built-in terminal blocks with transparent covers. Speaker mechanism fully enclosed in all-cast housing. High power for P.A. Superb speech efficiency. 25 watt continuous; 50 watt peak. Response 250-13,000 CPS. Voice Coil impedance; 8 ohm. Length 9½" diameter 16". Shipping weight 7 lbs.

RACON
## SPEECH & MUSIC



No. S-486 — $16.45 — 2 for $32.00

● 3½ ft. Reentrant air column

True wide range reproduction of speech and music. Overall length 15" diameter 12". Supplied less driver. Shpg. wt. 15 lbs.

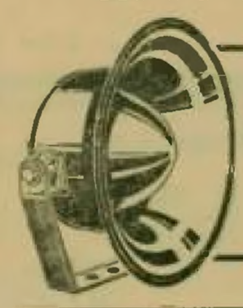
30 Watt Driver ● Model DA-30

For above speaker. Resp. 75-7500 CPS. 16 ohms. Shipping weight 7 lbs.

No. S-487, 2 for $29.00 ..... Ea. $14.95

## HI-FI MUSIC P. A. SPEAKERS

RACON



No. S-488 — $19.95 — 2 for $39

★ 95-8000 CPS ★ 15 Watts Power

Low cost, but high in efficiency and realism. Single wide range speaker with 120° dispersion. Combination of horn and housing produces excellent sound. 8 ohms impedance. Size: 8¼" overall length, diameter 15". Shipping weight 13 lbs.

RACON



No. S-484 — $37.75 — 2 for $74

★ 60-11,000 CPS ★ 30 Watts Power
★ Fully weather-proof

In this excellent music coaxial reproducer, with 120 degrees dispersion, an 8" woofer handles lows down to 60 C.P.S. Separate cone tweeter gives clean, smooth high frequencies. 8 ohms impedance. Size: Length 12¾" diameter 21½". Shipping weight 21 lbs.

FANON-MASCO
## 27 Watt Transistorized MOBILE P. A. AMPLIFIER
Model 3527



No. AM-208 — $62.95 — $7 MONTHLY

Latest transistorized circuit design employs 2-2N408 and 2-2N668 transistors. Compact size (6⅝" W. 3⅛" H. 4⅝" D) for auto dash or glove compartment mounting. Also ideal for boats, camps, etc. Handsome black and satin chrome finish. Operates on 12 volts DC. POWER OUTPUT: 27 watts. RESPONSE: 150 cycles to 10 KC. INPUTS: 1 microphone, 1 Xtal phono, 1 radio. GAIN: 110 db microphone, phono 70 db. HUM and NOISE: 70 db—below full output. OUTPUT IMPEDANCE: 4, 8, 16 ohms. INPUT IMPEDANCE: Microphone 2,000 ohms (aux.), 50 K. ohms, radio 3.2 —16 ohms. CONTROLS Microphone, radio or phono, tone control, power on-off switch, radio—aux. selector switch. With battery cable and clamps. Shipping weight 7 lbs.

20

MICROPHONE CONNECTOR, NO X-899 ..... EA $2.49

FANON-MASCO
4-Speed
## PHONO



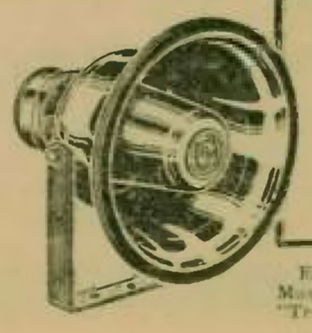
No. RP-242 — $34.50

Designed for use with mobile amp at left. Easily mounted with two thumb screws. Heavy duty motor plays all four speeds: 16, 33⅓, 45 and 78 RPM. Ceramic cartridge with dual sapphire stylli. Size: 12" x 9" x 4½". For 12 volt D.C. Shipping weight, 11 lbs.

Electro-Voice
Model 844

33 WATT
## PAGING SPEAKER

★ 90° Dispersion ★ Made In U.S.A.



No. S-175 — $21.46

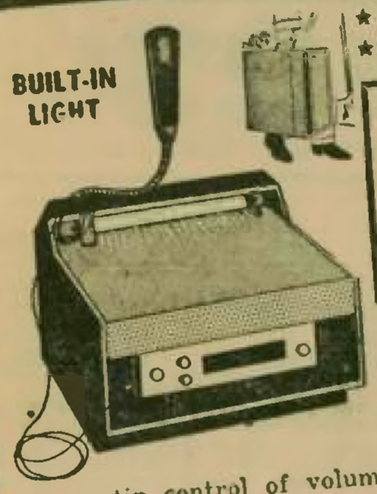
Complete horn and driver unit for general purpose paging and talk-back. Weatherproof construction. Response 250-13,000 cps. Complete with tropicalized hermetically sealed driver unit and mounting bracket. Size: 6⅞" dia. x 8⅝" deep. 8 ohm impedance. Shipping weight 9 lbs.

Electro Security Corp., P. Tuller, 276 Main St., Webster, Mass., wins choice of merchandise worth $5 from Olson's "Treasure Hunt". See back cover for instructions.

WRH

# BOGEN PORTAPODIUM
## Portable P.A. SYSTEM

★ Mfr. 1962 Net Price $249.95
★ Built-In FM Tuner



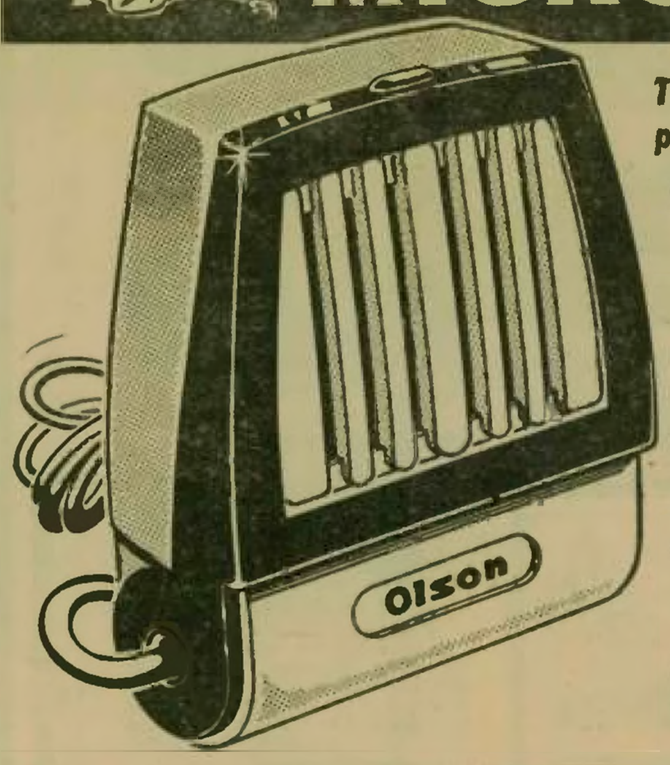

No. RA-559
**$121**

The most versatile and useful PA system available. Ideal for lecture, training courses, demonstrations, etc. Features built-in super-sensitive FM tuner and finger tip control of volume and tone. Has vibration-free, heavy duty speaker. The microphone fits into an adjustable stand or can be lifted out of the holder for moving about. The whole system packs into one compact portable carrying case. 110-125 volts A.C. Size: 10½" x 17¾" x 16½". Shipping weight 40 lbs.

Edw. Bupp, 8 Norwell St., W. Haven 16, Conn., wins choice of merchandise worth $5 from Olson's "Treasure Hunt." See back cover for instructions.

# Olson Crystal MICROPHONE






*The ideal mike to make your inexpensive tape recorder sound better*

No. M-163
**$2.99** ★

This high-output microphone is as handsomely styled as it is functional. Case is made of two-tone, hi-impact plastic. Three way stand folds around the microphone body permitting it to fit neatly into the palm of your hand. Equipped with an eight foot shielded cable which is finished in neutral grey. Ideal for tape recorder, PA, CB, or Amateur applications. Output—50db. Resp. 40—6,000 cps. Use two for stereo. Shpg. wt. ¾ lb.

**3-WAY MIKE**


Sit On Desk


Hang On Wall


Hold In Hand

**Crafted in ENGLAND by Unhurried Hands**

# GUITAR MIKE




**$6.95** No. M-161

Specially designed for guitars. Mounts under strings without tools or attachments. High impedance. Matches any amplifier. Has tone and volume controls. Unit slides up and down easily to create different tonal effects. Fits round hole opening. With 8 ft. plug-in cable. Shpg. wt. 3 lbs.

Stretch microphone cable. Extends to 16 ft., recoils to 4 ft.
No. W-467 ..... $4.49

MIKE CABLE, 22 ft., No. W-362 ..... 99c
¼" Phone Plugs, No. AS-477, Kit of 2 ..... 99c

Olson **TRANSISTORIZED MIKE MIXER**

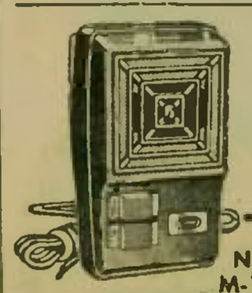


No. RA-345
**$4.85**
2 FOR $9.50

★ 4 CHANNELS

Controls one to four signals from high impedance sources. Allows user to increase the volume of any channel while fading or holding the other channels. All four inputs have standard ¼" phone jacks. Output terminates in RCA type phono jack. Operates on single 9 volt battery (less battery). Size 6" W x 2¼" H x 3½" D. Shipping weight 3 lbs.

BATTERY (1 reqd.) No. BA-89, Ea. 21c



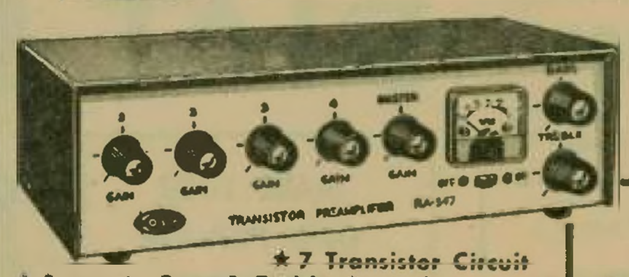
REMOTE CONTROL **MIKE**

★ Built-in Telephone Pick-Up
★ Remote Control Switch

No. M-170 **$4.49** 3 for $13

Genuine dynamic microphone has built-in transformer to change to hi-impedance. Slide switch on front selects microphone or telephone pick-up. Plug into tape recorder to make recordings of telephone conversation. A switch and extra set of wires is also included to operate a relay or start and stop tape recorder motor. Sensitivity: —53 db. Impedance: 50K ohms, telephone pick-up 2000 ohms. Frequency response: 60 — 10,000 cps. Shpg. wt. 2 lbs.

# Olson 4-Channel PREAMP MIXER




★ 65 db. Goin
★ Built-In VU Meter
★ 7 Transistor Circuit
★ Separate Bass & Treble Controls
★ Low Noise

No. RA-547
**$34.98**

**STEREO MONO Preamp Mixer**

Same excellent features as above with added advantage of 2 channel stereo mixing separate outputs for each channel. This unit can also be used for mono application with just a flip of a switch. Features 9 transistors for high gain and low noise. Shipping weight 6 lbs.

No. RA-548 ..... **$39.98**

Batteries (6 req'd.)
No. BA-67 ..... 8 for 59c

A highly versatile, extremely well designed mixer-preamplifier for use in public address systems, tape recording and similar applications. Not to be confused with low priced mixers, Olson RA-547 is a mixer and preamplifier. Featuring 65 db. gain and extremely low noise level. The unit may be used for several combinations of high level and microphone mixing, since each channel can be individually switched for either use. The excellent signal to noise ratio of this unit makes it ideal for remote professional recording. Size: 3¾" H x 11⅞" W x 3¼" D. Operates on six pen-light batteries (Included). All metal case. Shipping weight 5 lbs.

New! HI-LO Dual Impedance
# DYNAMIC MICROPHONE

★ 25 FOOT CABLE INCLUDED



No. M-164
**$12.98** 3 for $37

For recording and P.A. applications requiring long mike cables. Cable can be extended to 100 ft. or more with no signal loss. An impedance matching transformer (not included) is required for matching into hi-impedance inputs when mike is wired for low impedance operation. Microphone has cardiod pick-up pattern. Standard ⅝"-27-thread. Response: 50-10,000 cps. 50 K ohms. Polar Pattern: 2 omnidirected pattern 90° apart. With cable. Size: 4" x 7¼". Shipping weight 6 lbs.

NEW! Olson **STEREO DYNAMIC MICROPHONE**



★ Stereo-Monaural Switch
★ Satin Chrome Plated

No. M-169 **$17.95**

Dual high impedance dynamic elements. Eliminates need for two mikes when making stereo recordings or monaural recordings of large groups. Heavy cast base. Frequency response: 50-15,000 cps. 50 K ohms. Polar Pattern: 2 omnidirected pattern 90° apart. With cable. Size: 4" x 7¼". Shipping weight 6 lbs.

# Olson 4-Channel PREAMP MIXER




★ 65 db. Goin
★ Built-In VU Meter
★ 7 Transistor Circuit
★ Separate Bass & Treble Controls
★ Low Noise

No. RA-547
**$34.98**

**STEREO MONO Preamp Mixer**

Same excellent features as above with added advantage of 2 channel stereo mixing separate outputs for each channel. This unit can also be used for mono application with just a flip of a switch. Features 9 transistors for high gain and low noise. Shipping weight 6 lbs.

No. RA-548 ..... **$39.98**

Batteries (6 req'd.)
No. BA-67 ..... 8 for 59c

A highly versatile, extremely well designed mixer-preamplifier for use in public address systems, tape recording and similar applications. Not to be confused with low priced mixers, Olson RA-547 is a mixer and preamplifier. Featuring 65 db. gain and extremely low noise level. The unit may be used for several combinations of high level and microphone mixing, since each channel can be individually switched for either use. The excellent signal to noise ratio of this unit makes it ideal for remote professional recording. Size: 3¾" H x 11⅞" W x 3¼" D. Operates on six pen-light batteries (Included). All metal case. Shipping weight 5 lbs.

# Electro-Voice MICROPHONES

**Electro-Voice Model 729SR**
Cardioid CERAMIC MIKE



No. M-138
**$15.58**

With push-to-talk on-off switch.

Response 60-8000 cps. High impedance. Two tone gray finish. 10' cable. 8¼" high x 1⅝" wide x 1⅜" deep. Shipping weight 3 lbs.

Mike Cable, 22 ft., No. W-362 ..... 99c
Microphone Connector, No. X-317 ..... Ea. 31c

**Electro-Voice Model 664**



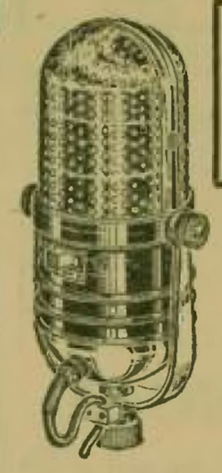
Cardioid **DYNAMIC MIKE**
No. M-140
**$49.98**

Response from 40-15,000 cps. Can be used with high or low impedance inputs. Low wind noise pickup means better outdoor sound. Output—56 db. Chrome finish. 18" cable. 7¼" long x 1⅞" diameter. Shipping weight 5 lbs.

¼" Phone Plugs, No. AS-477, Kit of 2 99c
Mike Cable, 22 ft., No. W-362 ..... 99c
Microphone Connector, No. X-317, Ea. 31c

Olson **CRYSTAL MIKE**

★ With Series Parallel Switch
★ Broadcast Type



No. M-102
**$5.87**
3 for $17.50

High independance crystal mike for music, voice, recording, P.A. etc. Equalize by a flip of the switch that is built into front of mike. Response 40 to 8,000 cps. Output—50 DB Double crystal cartridges give non-directional response when vertical to shielded cable. Shipping weight 1 lbs.

MIKE CABLE, 22 ft., No. W-362 ..... 99c
¼" Phone Plugs, No. AS-477, Kit of 2 ..... 99c

Olson **DYNAMIC MIKE**

Response 50-10,000 CPS



No. M-135
**$8.88**
3 for $25.50

All new dynamic mike. Use with tape recorder and P.A. system. Impedance 50,000 ohms. 6 foot shielded lead. Two-tone finish; black and cream. Size: 4⅝" long, 1¼" square at mouth tapering to ⅝" square. Shipping weight ¾ lbs.

¼" Phone Plugs, No AS-477, Kit of 2 ..... 99c

Olson **Crystal Mike**



No. M-105
**$3.66**
3 for $10.50

High impedance; response 100 to 8,000 cps. Ideal for PA or communications use. Output —55 DB. Finished in an attractive baked green enamel with chrome-plated front. Overall size: 2½" dia. x 4¼" long. Standard ⅝"-27 thread for mike stand with 5 ft. shielded cable. Shpg. wt. 2 lbs.

MIKE CABLE, 22 ft., No. W-362 ..... 99c
¼" Phone Plugs, No. AS-477, Kit of 2 ..... 99c

Olson **DYNAMIC MIKE**



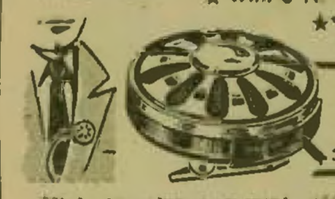
No. M-109
**$10.88**
3 for $31.50

High impedance. Response 50 - 11,000 cps. Built-in ON-OFF switch. Broadcast quality high output. Use with any standard ⅝"-27 thread floor or desk stand. Non-directional in vertical position or has cardioid pattern when tilted toward speaker. Grey hammertone with polished chrome fittings. Over-all size: 8x1¼" diameter. With 3 ft. mike cable. Shipping wt. 3 lbs.

Microphone Connector, X-317, ..... Ea. 31c

Olson **LAPEL MIKE**

★ Works On Any Amplifer
★ With 3 Ft. of Cable
★ Completely Portable



No. M-93
**$1.93**
3 for $5.50

High impedance crystal. 1⅝" diameter. Output level —60 DB. Response: 50-5,000 cps. 3 ft. shielded cable. Shpg. wt. ¼ lb.

Olson **NEW! SLIM Crystal MIKE**



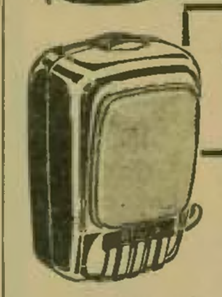
● Includes mike stand

No. M-145
**$3.88**
3 for $11.50

With built-in On-Off switch for tape recording, P.A., etc. Satin chrome finish. All directional, high impedance. Uniform response 60 to 8500 cps. Output level —57 DB. With desk stand, lavalier cord and 6 ft. shielded cable. Shipping wt. 2 lbs.

MIKE CABLE, 22 ft., No. W-362 ..... 99c
¼" Phone Plugs, No. AS-477, Kit of 2 ..... 99c

Olson **Crystal MIKE On-Off Switch**

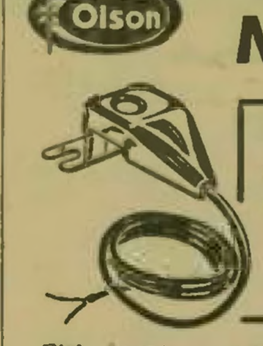


**$2.95** No. M-153
3 for $8.50

High impedance crystal microphone suitable for voice recording. P. A. and amateur communications. Response: 50 to 7500 CPS. Output: —50 DB. Push to talk switch located conveniently at top has spring. Contrasting good grille. With 5 ft. shielded cable. Shipping weight ½ lb.

MIKE CABLE, 22 ft., No. W-362 ..... 99c
¼" Phone Plugs, No. AS-477, Kit of 2 ..... 99c

Olson **Contact MIKE**

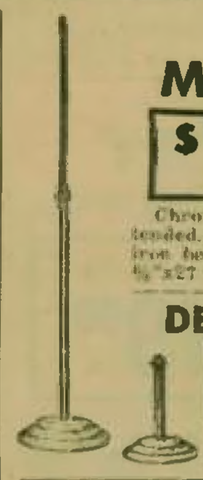


No. M-130
**$1.49** ea.
3 for $4.00

High impedance crystal contact mike with flexible 66" shielded lead. Can be connected to guitars, pianos, etc. For recordings or P.A. Also use as a detective mike. Shipping weight ¼ lb.

MIKE CABLE, 22 ft. No. W-362 ..... 99c
¼" Phone Plugs, No. AS-477, Kit of 2 ..... 99c

**FLOOR Mike Stand**



**$7.91** No. M-94
3 for $23.00

Chrome finish. 61 inches extended. 38 inches collapsed. Cast iron base in grey wrinkle finish. ⅝"x27 thread. Shpg. wt. 9 lbs.

**DESK STAND**

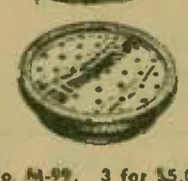


**$1.97** No. M-95
3 for $5.00

6" high, standard thread. Shpg. wt. 2 lbs.

Olson **MIKE Cartridges**

★ Crystal Type

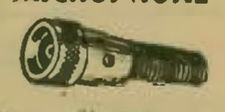


Response 40 to 7,000 CPS. Output -55 db. Size: 2" dia. x ½". Shpg. wt. ¼ lb.

No. M-99, 3 for $5.00 ..... Ea. **1.99**

As above but 1½" dia. x 1½" thick. Shipping weight ½ lb.
No. M-134 3 for $3.00 Ea. **1.19**

**MICROPHONE CONNECTOR**



No. X-317
**31c**
4 for $1.00

Standard ⅝-27 thread
Shipping weight ¼ lb.

Olson **25' MICROPHONE Extension CABLE KIT**

★ WITH 2 ADAPTOR PLUGS

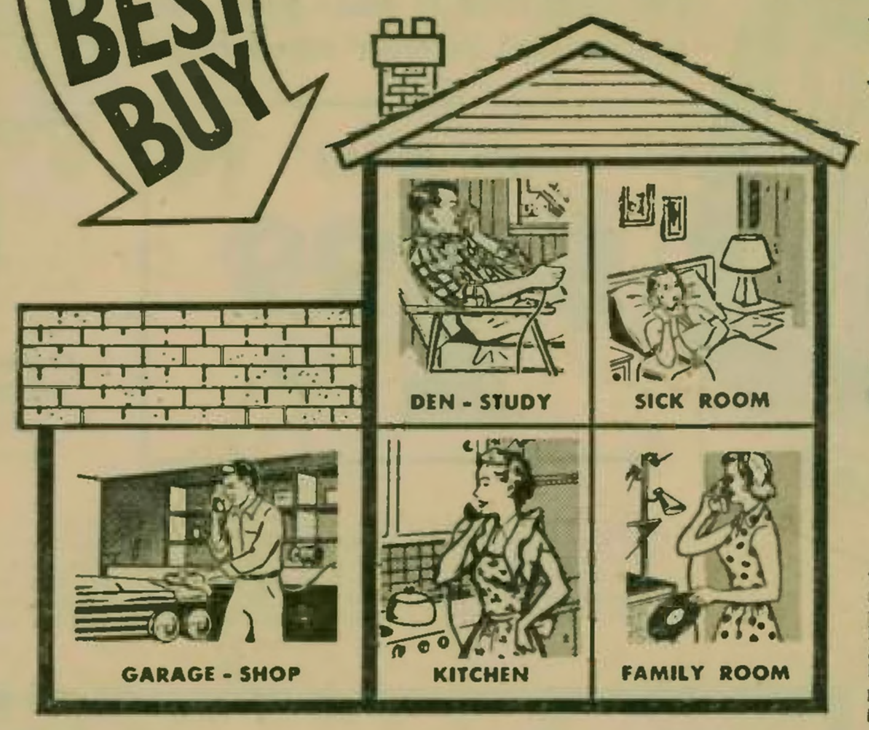


No. W-457
**$4.31**

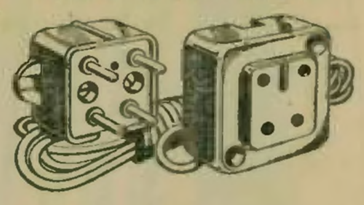
Twenty-five feet of heavy duty shielded microphone cable with standard Amphenol type connectors on each end. Adapter plugs convert Amphenol type plug to ¼" phone plug or ¼" phone jack. Extra flexible cable with rugged vinyl jacket in designed for heavy duty everyday use. Two universal extension cable makes any PA system more flexible. Shpg. wt. 3 lbs.

Olson BEST BUY

# 25 Ft. Telephone EXTENSION CORD




★ WILL FIT ALL PHONES LISTED ON THIS PAGE
★ MOVE YOUR INTERCOM PHONE TO ANY ROOM



**$2.85** No. W-442

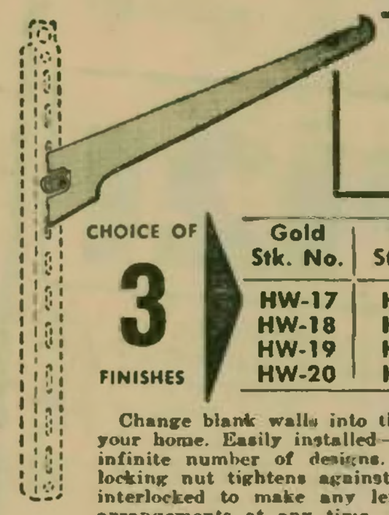
$3.98 IN CAT. 363

New extension cord for your telephone intercom. 25 feet of flexible cord and standard 4 pin plug and socket. Cord is completely assembled and ready to plug-in. Shpg. wt. 3½ lbs. Write for special large quantity prices.

PHONE PLUG, No. PL-82 ___ Ea. $1.25
PHONE JACK, No. PL-81 ___ Ea. $1.40

# Custom SHELF ACCESSORIES

## 6 TO 12" BRACKETS



AS LOW AS **23¢** EA.

Shpg. wt. ¼ lb. ea.

CHOICE OF 3 FINISHES

| Gold Stk. No. | Silver Stk. No. | Black Stk. No. | Shelf Widths | EACH |
|---|---|---|---|---|
| HW-17 | HW-21 | HW-25 | 6" | .23 |
| HW-18 | HW-22 | HW-26 | 8" | .26 |
| HW-19 | HW-23 | HW-27 | 10" | .33 |
| HW-20 | HW-24 | HW-28 | 12" | .36 |

Change blank walls into the most functional and attractive arens in your home. Easily installed—adjust shelf height in seconds—create an infinite number of designs. Brackets are adjustable at 1" intervals, locking nut tightens against strip. Strip standards, 12" long, can be interlocked to make any length standard. Change and enlarge wall arrangements at any time. Slim standards are barely visible. Shelves have an airy, floating look.





## 12" STRIP WALL STANDARDS

Interlock To Any Length

Gold, No. HW-29
Silver, No. HW-30
Black, No. HW-31

Shpg. wt. ¼ lb. ea.

**18¢** EACH

Sound Powered
## PHONES

★ No Batteries Required




No. PH-53
**$5.95**
2 for $10.50

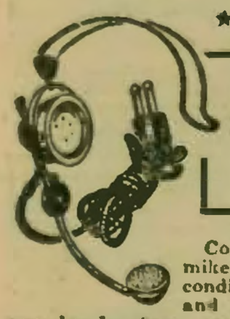
Provides instant 2-way communication up to 25 miles. No batteries required — only two wires to connect! Complete with coil cord attached that extends to 6 feet. As many as 12 phones can be connected. Shipping weight 3 lbs.

**Wire for connecting phones (indoor, outdoor or underground use).**

No. W-398, Per 100' coil ___ $3.00

Telephone Operators
## HEADSET

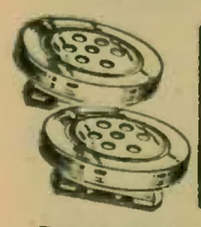
★ IDEAL FOR CB



No. PH-51
**$19.99**

Consists of boom type mike and earpiece. Reconditioned, with cord and plug. Ideal for citizens band, stage crews, telephones, etc. Frees hands. Shipping weight 2 lbs.

Kit of 2
Sound Powered
## PHONE ELEMENTS



No. AS-569
**99¢**
2 Kits for $1.75

Two standard HA-1 dynamic phone elements. No batteries needed. Just connect the two elements in series. Each element can be used as a receiver or transmitter or both. Four elements make two complete phones. Will operate over hundreds of feet of two conductor cable. Shpg. wt. ½ lb.

Phone Wire, No. W-398, Per 100' coil ___ $3.00

## TELEPHONE WIRE



2 conductor twisted No. 20 gauge stranded copperweld. Suitable for indoor, outdoor installations. Shipping weight ¾ lb.

No. W-398, Per 100' Coil ___ **$3.00**

## COILED HANDSET CORD



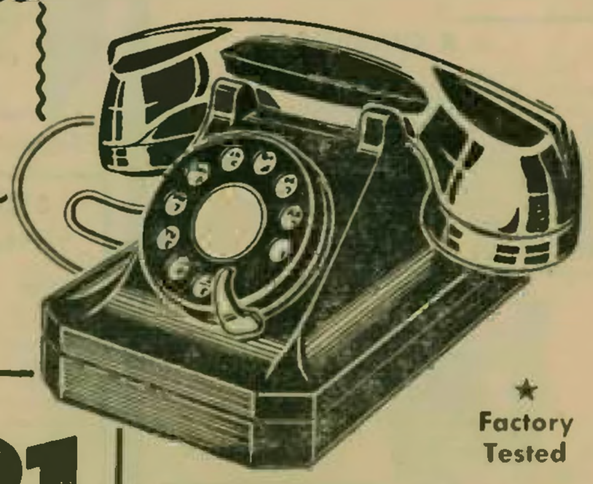
No. W-395
**99c**
4 for $3.50

22 — 3 conductors. Works with W. E., A. E., North, St. Carl, Kellog, and Leich. Expands from 1 to 6 feet. Shipping weight ½ lb.

# DIAL PHONE

MAKE YOUR OWN PRIVATE INTERCOM

Western Electric ___ No. PH-61
Automatic Electric ___ No. PH-62



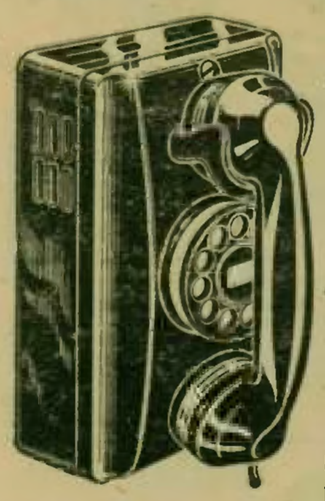
★ Factory Tested

**$7.91**

2 for $15

Can be used to make complete private systems. Includes handset, dial, bell, induction coil, etc., ready to connect. Used but factory tested. General appearance may vary slightly from catalog illustration. Available in 2 types. Shippnig wt. 8 lbs.

## WALL TELEPHONE



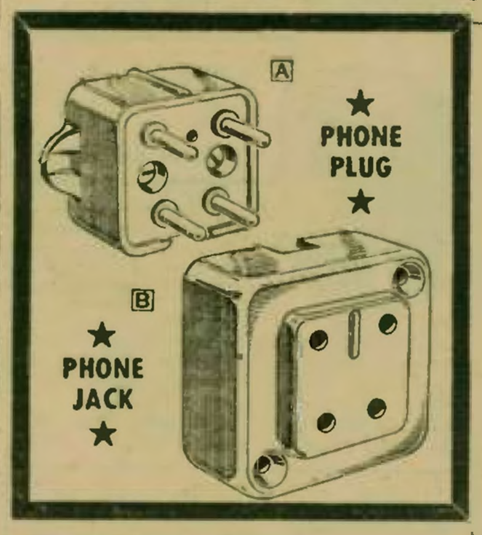
**$8.95** No. PH-49

★ Wall Type, with Dial & Bells



Self contained wall telephones. Includes bells, induction coil, capacitor, dial and handset. Ready to connect to extension for private systems. (General appearance may vary slightly from catalog illustration.) Used. Shipping weight 8 lbs.

Phone Wire, No. W-398, Per 100' Coil, $3.00
Phone Plug, No. PL-82 ___ Ea. $1.25

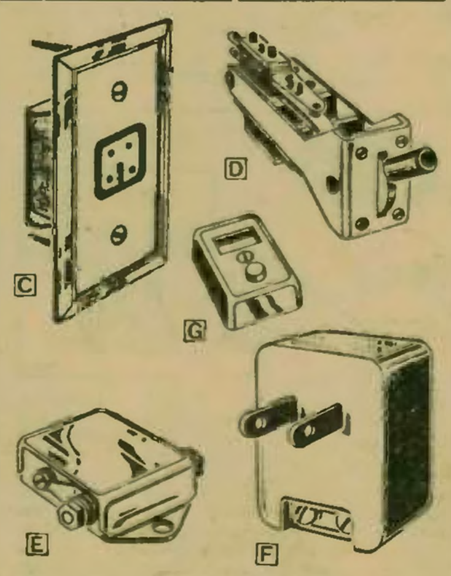



**A PHONE PLUG**
Shpg. wt. ¼ lb.
No. PL-82 ___ Each $1.25

**B PHONE JACK**
Shpg. wt. ¼ lb.
No. PL-81 ___ Each $1.40
100 ft. 3-cond. wire, No. W-105 ___ $1.50

**C Telephone WALL JACK**
For 2, 3, or 4 wire systems. Fits standard wall conduit boxes. Takes PL-82 plug. Shipping weight ½ lb.
No. AS-558 ___ Each $2.61

**D PHONE LEVER SWITCH**
Single pole, double throw switch. Size: 1⅝"x1⅛"x⅝". Shipping weight ½ lb.
No. SW-189,
Lots of 12, Ea. 44c Ea. 49c




**E SIGNALING BUZZER**
Makes any phone (above) into a private intercom. Use with switch (right). For 6-8 volts A.C. Size: 1⅝"x2"x1½". Shipping weight ¼ lb.
No. EA-64, 3 for $8.50 Ea. $2.93

**F Transformer for use with buzzer**
110V. primary, 6.3V. secondary U.L. App.
No. T-329 3 for $5.50 Ea. $1.99

**G Push-To-Signal SWITCH**
For use in making phone intercom system. Consists of S.P.S.T. momentary action switch with neutral color case, and space for identification number or name. Size: 1¼" x 1¼" x 1½". Shipping weight ½ lb.
No. SW-199 ___ Ea. $1.19

Tung-Sol "dynaquad" TOUCH-CONTROL
## SWITCH
TRANSISTORIZED

MADE IN U.S.A.



No. X-914
**$10.98**

Build A Magic Lamp

The switch is operated by touching metal touch points with the hand. Touch points are connected, by antenna wires, to switch. Absolutely no shock hazard. This PNPN germanium alloy transistor acts as an electronic switch that remains off until turned on and stays on until turned off. It has two modes of operation: single pole double-throw, or single pole single-throw. Works directly from 105-125 V. AC and can handle up to 100 watts. Self-contained in plastic case, 3" x 1¼" x 1¾". Useful for home lighting, appliances, burglar alarms, sorting, counting, control, advertising displays, sick room alarms, key-hole lights, etc. Shipping weight ¾ lbs.

GENERAL ELECTRIC
## RELAYS



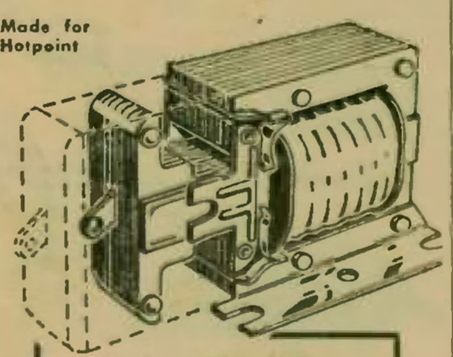
No. AS-579
4 FOR **99¢**

Attention: Experimenters, servicemen, students! Hundreds of applications can be found for these first quality, brand name relays. Each kit contains 4 assorted relays, all are made by General Electric, DPDT, DPST, etc., switch contacts. New in original factory cartons. Coils are rated 6 or 12 volts DC. Size: 1⅛" x 2" x 2". Shipping weight 3 lbs. Write for special large quantity prices.

115-VOLT A.C.
## SOLENOID

★ Provides 5 to 10 lbs. pull or lift

Made for Hotpoint



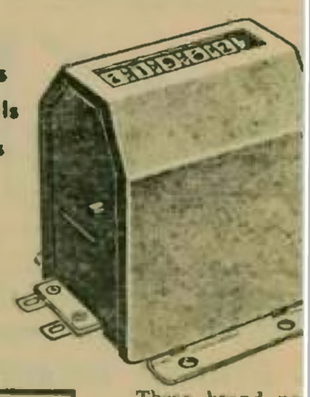
No. SW-215
**$1.49** 3 for $4
Lots of 12, Ea. $1.25

Will intermittently lift or pull weights. Just the thing for operating animated displays, hobby devices, and makes an excellent actuator for a remote power switch. Size only 2½" x 1⅝" x 2½". One inch armature travel is more than sufficient for any use. Shipping weight 2¼ lbs.

## 5 DIGIT Electro-Magnetic COUNTER

Turnstiles
Industrials
Drive-In's

★ MADE IN U.S.A.
★ FOR 110-125 Volts A.C.



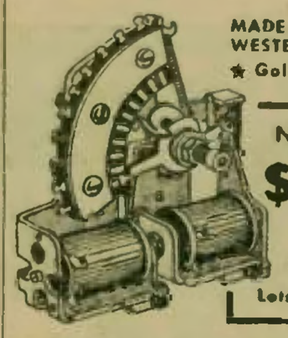
No. X-896
**ONLY $3.49**
10 for $30

These brand ne counters are ide for many countin operations, such a assembly line coun ing or door oper ings or machin operations, et Counts 400 puls per minute. Fo 110-125 volts A C 60 cps. Size: 3" 2½" x 2". Shippin weight 1 lb.

Juke Box Jack, 329 S. 6th, Douglas Wyo., wins choice of merchandise worth $5 from Olson's "Treasure Hunt." See back cover for instructions.

## 10 Step & Reset RELAY

MADE IN U.S.A. BY WESTERN ELECTRIC
★ Gold Plated Contacts

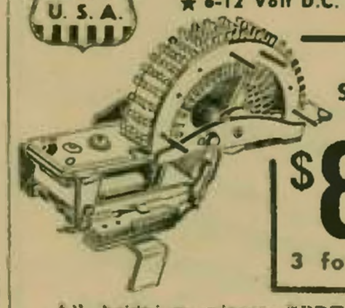


No. SW-209
**$6.95**
3 for $19.50
Lots of 6, Ea. $6.00

Single pole, 10 position switch contacts. Operates on 6 or 12 volts. D.C. voltage impulses move selector bar one step at a time up to 10. Separate reset coil releases selector bar to starting position. Size: 3½" x 4" x 1¾". Excellent for experimenters, technicians, students, etc. Used but tested and in good condition. Shpg. wt. 2 lbs.

5 Level
## 22 STEP RELAY
Made by WESTERN ELECTRIC

MADE IN U.S.A.
★ GOLD PLATED CONTACTS
★ 6-12 Volt D.C. Relay



No. SW-221
**$8.45**
3 for $24.00

All bridging wipers SPDT interrupter switch. Used but tested, and in good condition. Size: 7½" x 5" x 2". Shipping weight 4 lbs.

## DPDT RELAY

★ 6 Volts D.C.



No. SW-194
KIT OF 3 **$1**

DPDT contacts. Threaded flanges for easy mounting. Ideal for electric trains and moving displays. Size: 1⅝" x 1½" x 1". Shipping weight ¼ lb.

PRI

# Precision Radiation Instruments
# GEIGER COUNTER
## and Radiation Detector!

NEW

Original FACTORY CARTONS


SCHOOLS


C. D. UNITS


LABORATORIES


HOSPITALS

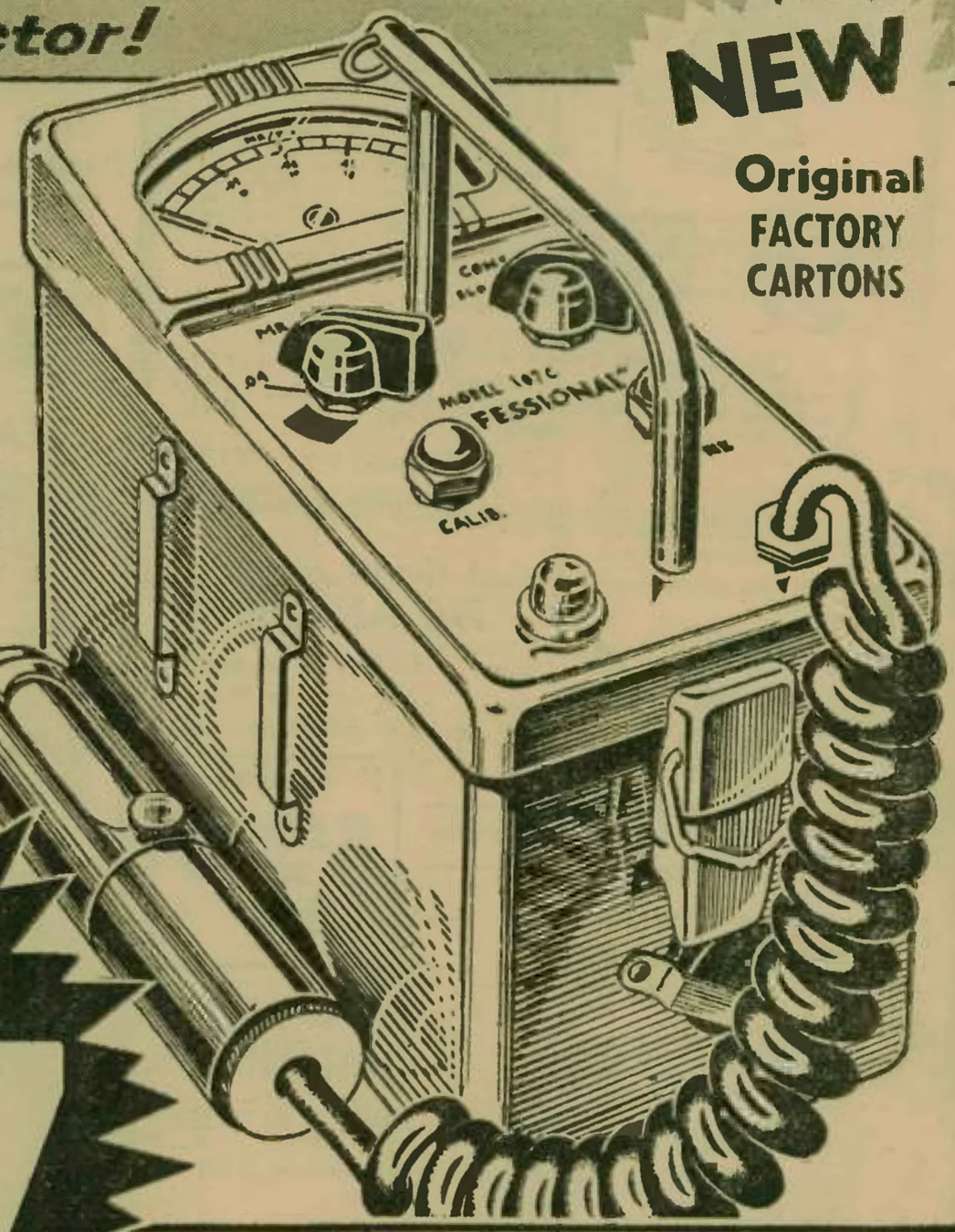

INDUSTRY


HOBBYISTS


"ROCK HOUNDS"

## HOW IT WORKS . . .

This highly sensitive device will detect the presence of radio active material from a few feet to dozens of feet away. It is equipped with a Geiger Mueller tube, which is filled with a gas and mounted in a directional probe. This "Professional" geiger counter has three means of indicating radio activity: a neon flasher, earphone and a meter.




## The Model 107C "Professional"

The model 107C "Professional" instrument is for the person who wants the best Geiger Counter made . . . many Civil Defense organizations use the 107C for the low level area surveys required in Civil Defense work . . . Hospitals, Industry and Laboratories use to detect the presence of radio activity in the air, in liquids, solids and minerals. Exclusive Percent Meter enables the prospector to determine the percentage of uranium in the ore right in the field. The instrument has four ranges of sensitivity: .04, .2, 2.0 and 20 milliroentgens per hour full scale. Two time constants are provided. The extra fast time constant makes it easier to assey ore in the field. Features a Dynn-Mu circuit which utilizes the latest type of low current subminiature tubes. Tube compliment: one 1B85, four 6007, two NE-2 and one NE-51. The sensitive Geiger Mueller tube is enclosed in a sturdy metal probe housing with sliding door and three foot shielded cable. The cable is coiled to stretch or retract as you move the probe. Probe clips to side of case when not in use. A calibrated control is provided on the top panel and a calibrated radio active sample is supplied, making it possible to calibrate the instrument in the field with no additional equipment. The entire instrument is completely heavy chrome plated, waterproof and tropicalized. A handsome saddle grain leather carrying case with shoulder strap plus assay container, headphone, ore sample bag and instructions is included. (less batteries) Size 3⅝" x 4⅝" x 7⅝". Shipping weight 11 lbs.

Harry Cann, 535 N. Market, Caldwell, Kans., wins choice of merchandise worth $5 from Olson's "Treasure Hunt." See back cover for instructions.

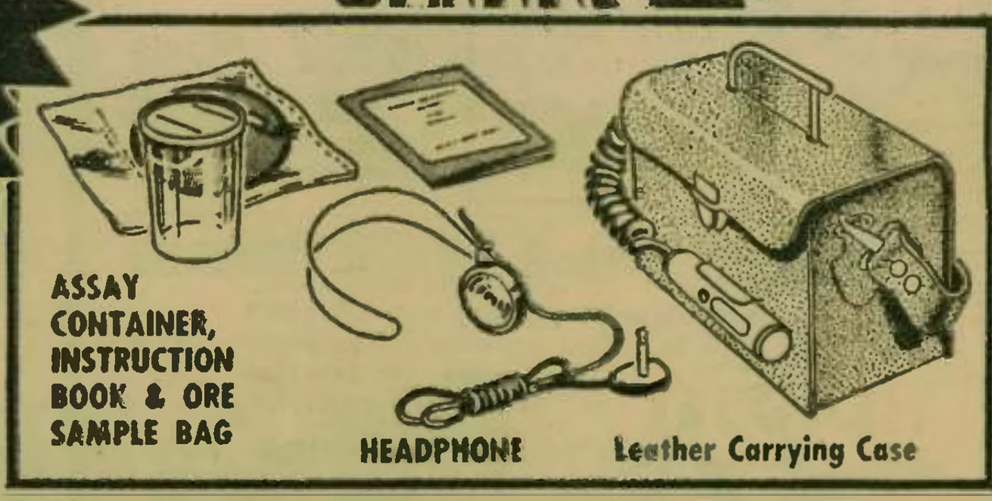
MFGR'S 1955 LIST PRICE ~~$149.50~~

**$27**

**No. ME-120**

COMPLETE SET OF BATTERIES for model 107C Geiger Counter. Contains: 2 volt, Neda No. 815, 1—[illegible] volt, Neda No. 208, 1—[illegible] volt Burgess No. XX30.

No. AS-831
**$5.35**




PRI

# Precision Radiation Instruments
# SCINTILLATOR

## 60 TIMES The Sensitivity Of A Geiger Counter!

★ Completely Self Contained

★ Steadier Meter Reading

## The Model 117B "Special"

The Model 117B was designed especially for the prospector who wants the advantage of a scintillation counter at a moderate price. It has sixty times the sensitivity of a geiger counter. It is an ideal instrumet for field prospecting because of its ruggedness, compactness and light weight. The detecting element used in the 117B is a 1" diameter x ½" thick Thallium activated Sodium Iodide crystal hermetically sealed and optically coupled to an RCA 6199 photomultiplier tube. The tube and crystal assembly is enclosed within the instrument case and is magnetically shielded. Operating ranges of the Model 117B are .025, .05, .25, .5, 2.5 and 5 milliroentgens per hour. It has an accuracy of 25 per cent on all ranges except the 5 MR/HR range. The counting rate of the 117B is in excess of 65,000 counts per minute in a one milliroentgen field. The Model 117B uses the newest type of circuit and is very stable in operation. The instrument has only two controls: the range switch and the time constant switch. It is just as simple to operate as a geiger counter and can be used by untrained persons. The entire instrument is waterproofed and tropicalized. The photo tube and crystal are shock mounted. This instrument is complete with saddle grain leather carrying case with shoulder strap plus a calibrated ore sample. Shipping weight 11 lbs.

MFGR'S 1955 LIST PRICE ~~$299.50~~

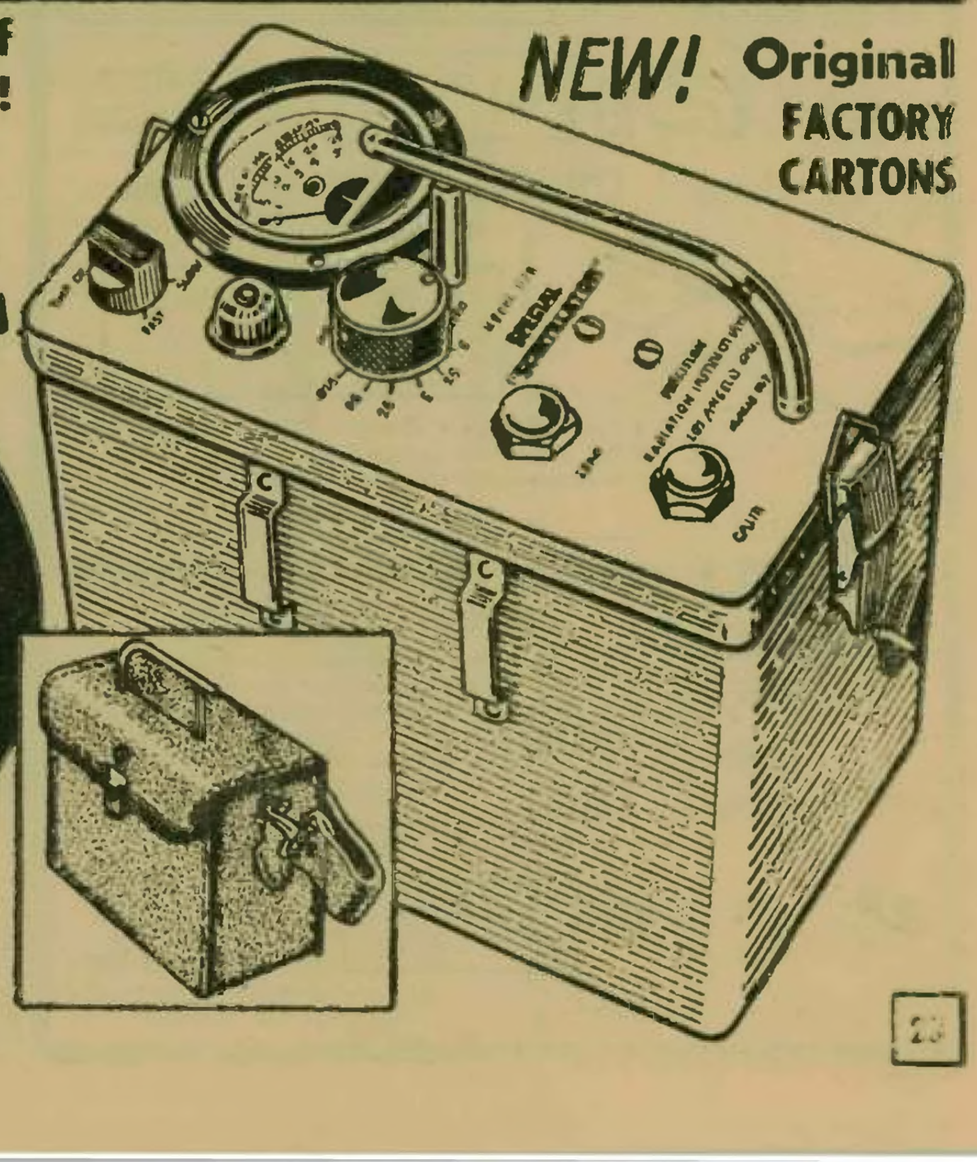
**$75**

**No. ME-121**

Complete Set of Batteries for Model 117B Scintillator. Contains: 2 - 45 volt Burgess No. XX-50, 1 - 22½ volt, Neda No. 215, 4 - 1½ volt, Neda No. 832.

No. AS-846
**$6.38**

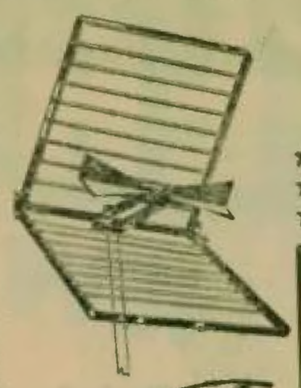
NEW! Original FACTORY CARTONS






WRH

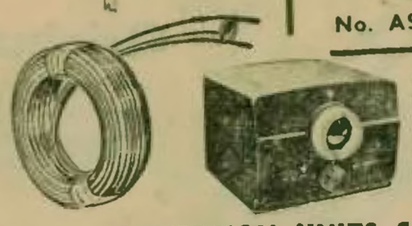
# UHF Conversion SYSTEM



★ Regency UHF Converter
★ UHF Corner Reflector Antenna
★ 100 ft. Oval UHF Wire

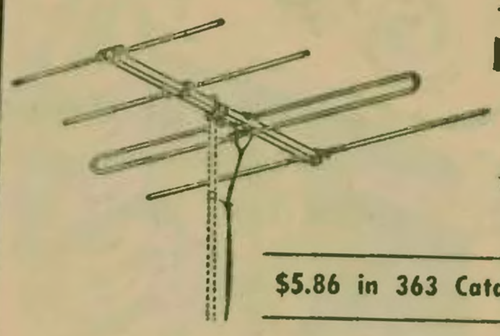
COMPLETE
$19.99
No. AS-825

All channel UHF converter connects to any TV set to give you all channel reception. High gain Corner Reflector antenna pulls in UHF stations up to 50 miles away. Conversion package features ultra low-loss oval lead-in for best possible performance. Converter operates on 110 to 125 v. A.C. Easy to connect, mounts on existing mast. Shipping weight 14 lbs.



## CONVERSION UNITS SOLD SEPARATELY:

| | |
|---|---|
| Regency UHF Converter (below) No. RA-344 | $17.97 |
| UHF Corner Reflector Antenna (above), No. AA-98 | 4.56 |
| 100 Ft. UHF Oval Wire (below), No. W-461 | 2.41 |
| Total Catalog Price | $24.94 |



4 Element Fringe
## FM ANTENNA

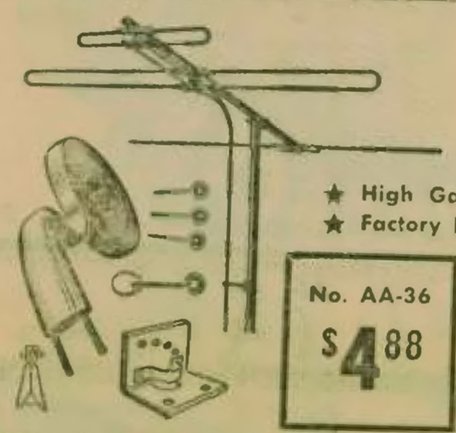
*RANGE: TO 60 MILES*

★ Ideal for Multiplex
★ All Aluminum construction

$5.86 in 363 Catalog

No. AA-84
$3.99

- Preassembled snap-out elements
- For long-distance FM reception
- Sensitive Yagi design. Shipping Weight 4 lbs.



## TV-FM ATTIC ANTENNA

*RANGE TO 50 MILES*

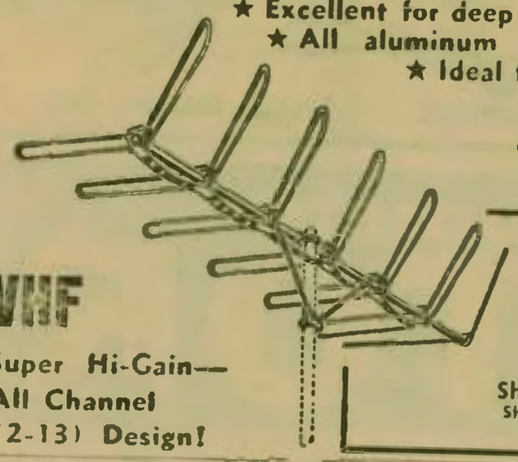
★ High Gain ★ All Channel (VHF)
★ Factory Pre-assembled

No. AA-36
$4.88

All-channel (VHF) yagi-type antenna. If desired, antenna may be installed outside. Kit includes: antenna, antenna mast, 50-ft. lead-in wire and hardware. Shipping weight 5 lbs.

## 7 Element Fringe TV-FM Antenna

★ Preassembled snap-out elements
★ Excellent for deep fringe areas
★ All aluminum construction
★ Ideal for color TV



Range: To
150 MILES

VHF
Super Hi-Gain—
All Channel
(2-13) Design!

No. AA-88
$17.50
Lots of 3, Each $17
Shipping Weight 10 lbs.
Shipped Railway Express For More Careful Handling



$41.15 No. AS-800

7 Element Antenna No. AA-88 (Above)
Alliance T-20 Rotor No. AU-12 (above-right)

## 16 Element CONICAL TV-FM ANTENNA

RANGE: TO 75 MILES



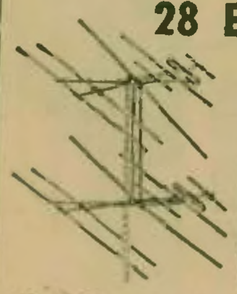
$5.20 No. AA-86
Lots of 3, Each $4.95

★ Semi-fringe all channel (2-13) VHF antenna
★ All aluminum construction
★ Preassembled snap-out elements

Shipping Weight 6 lbs.

## 28 Element ARRAY TV-FM ANTENNA

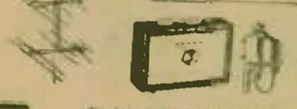
RANGE: TO 75 MILES



No AA-28
$11.83
Lots of 3, $11.50

★ All channel UHF-VHF Color
★ All aluminum construction
★ Preassembled snap-out elements
★ Hi-gain Conical Yagi Design
★ Stacked array

Shipping Weight 10 lbs.
Shipped Railway Express For More Careful Handling



$35.78 No. AS-802

28 Element Antenna No. AA-28 (Above)
Alliance T-20 Rotor No. AU-12 (above, right)

Keith Kaign, Box 68, Beaver City, Nebr., wins choice of merchandise worth $5 from Olson's "Treasure Hunt". See back cover for instructions.



Olson

# RANGE SPANNER

## 5-PIECE TV-FM ANTENNA SYSTEM

★Maximum Picture Pulling Power

★Beam-In on Distant Stations

RANGE TO 175 MILES

28 ELEMENT TV-FM ANTENNA AVAILABLE SEPARATELY
$27.98 No. AA-95



ALL 5 PIECES ... $7 MONTHLY
NO MONEY DOWN
No. AS-809 $54.00

ROTOR MOTOR

THRUST BEARING

100 FT CABLE

CONTROL BOX

IDEAL FOR
## COLOR!

Here's the answer to those areas where reception is really hard to get. Ideal for pulling in the distant stations even if you live in an area with good local reception. Antenna has extremely high front-to-back ratio to assure clean high gain signal with a minimum of unwanted interference from side and back of antenna. Alliance Deluxe T-20 rotor turns antenna 360° with just a touch of your finger on the control box. Also included at this special price: AU-13 thrust bearing to relieve strain on motor bearings and W-62 100 ft. 4 cond. wire. Shpg. wt. 30½ lbs. Shipped railway express for more careful handling.

## RANGE SPANNER UNITS SEPARATELY:

| | |
|---|---|
| 28 ELEMENT IN-LINE TV-FM ANTENNA No. AA-95 | $27.9 |
| ALLIANCE T-20 TENNA-ROTOR COMPLETE WITH MOTOR & CONTROL BOX No. AU-12 | $25.4 |
| ROTOR THRUST BEARING No. AU-13 | $2.9 |
| 100 FT. 4 CONDUCTOR CABLE No. W-62 | $2.9 |



MADE IN U.S.A.

PREAMP

POWER SUPPLY

BOTH UNITS FOR
$21.97
No. AA-96

Olson Transistorized
## TV-FM Booster

USE WITH ANY OF THE ANTENNAS AT LEFT
★ Properly Installed Will Last a Lifetime
★ Couples 2 Sets to Antenna

Preamplifier mounts directly on antenna boom for greatest efficiency. For brightest, clearest picture possible. Separate AC operated power supply mounts near set, and includes built in phasing switch. Same 300 ohm lead that brings signal in carries operating current to preamp. No extra wiring, no batteries on roof to worry about. For 110-125 V. AC. Shipping weight 2 lbs.

TWIN LINE
## TV-FM LEAD-IN
300 OHM

Made of pure poly ethylene, conductors of all stranded copper. Available in two grades

22 Gauge Copper, 40 Mil Insulation
3 for $3
100 COIL No. W-73 $1.19
250' SPOOL No. W-312 $2.35
3 for $6
Shpg. wt. 3 lbs. Shpg. wt. 5 lbs.

20 Gauge Copper, 100 Mil Insulation
100 COIL No. W-311 $1.98
3 for $5
250' SPOOL No. W-313 $3.35
3 for $9
Shpg. wt. 3 lbs. Shpg. wt. 6 lbs.

## GALLO FMS-101 FM Indoor Antenna System



$14.95
No. AA-107

Mfgr's. 1963 Price $29.95

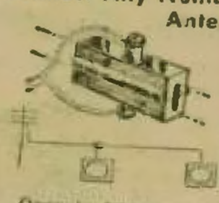
★ Transistorized

The Gallo FMS-101 will give you a high-quality, high-gain signal over the entire FM broadcast band. Just sit back and enjoy better music at its best, even from stations you could never listen to before!

The antenna system is compact, handsomely styled, fits into any room decor . . . attaches to your radio or tuner with just a screwdriver. It has an omni-directional antenna, coupled to an all-transistorized pre-amplifier, all completely enclosed in its sturdy case. Nothing to go wrong, nothing to need replacement ever. Shipping weight 2 lbs.

## TV-FM MASTER ANTENNA SYSTEM

Connect Any Number of Sets to One Antenna



$1.15 No. AA-69
3 for $3.09
Lots of 12, Ea. $1.00

Operate two or more TV sets or multiple systems. Operates 20 or more sets from one antenna without amplification. Provides clear reception on all channels with no interference between sets. Shipping weight ¼ lb.

## GALLO TWIN TV-FM ANTENNA



★ Transistorized
★ Non-Directional
★ TV and FM

$9.95 No. AA-108

A completely engineered system, the remarkable GALLO TWIN ANTENNA was developed to deliver highest quality, intense signals in congested metropolitan areas. Size: 6¼" x 8¾" x 11¾". Shp. wt. 2 lbs.

## Tenna-Plug TV ANTENNA

★ With Tenna Tuner



$1.19 No. AA-109

The Tenna-Plug uses the electrical wiring in your house to form a complete TV antenna. Features a fine tuner to bring in even weak stations. Ideal for TV, FM, FM-Mpx, and Short-Wave. Includes 15 ft. cable. Shipping weight 2 lbs.

## Oval UHF Lead-in Wire

★ Heavy Gauge Insulation
★ 100 Ft.
★ Low Loss



$2.41 No. W-461

Oval lead-in wire is designed for electronics low loss, particularly at the high UHF frequencies. This makes it ideal for UHF or unusually long lead-in lines. Thin fine wire, made by one of the nation's largest wire manufacturers, features heavy gauge insulation for long efficient service. Shipping weight 5 lbs.

## INDOOR TV-FM ANTENNA



No. AA-25 $1.91
3 for $5

★ With 12-position switch

Covers VHF and UHF as well as FM Stereo. Has 12 position phasing switch built into base. Complete with 300 ohm lead-in for any set. Extends to 34". Shipping weight 2 lbs.

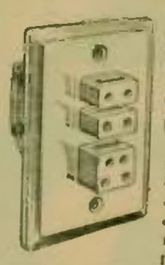
## FM Dipole ANTENNA



No. AA-71 89c

Flexible folded dipole antenna for FM or TV. Can be attached to back of cabinet. 300 ohm. Shpg. weight ¼ lb.

## WALL PLATE/COUPLER



★ 2 TV Sets & Rotor
★ TV & FM plus Rotor

No. AA-99 $2.19
3 for $6.00

Antenna wall jack combined with a highly efficient two-set coupler. You can connect two TV sets or a TV set and an FM radio to one antenna. Shipping weight ½ lb.

## TV-FM Wall Plate

★ Eliminates Unsightly Wires



99c No. AA-51
7 for $6
12 @ 65c ea

Allows you to put an outlet for 300 ohm flat TV lead-in wherever you wish. Comes with polarized plug, mounting hardware and complete instructions. Shipping weight ¼ lb.

## TV-FM Plug & Socket

★Kit of 3 Pairs

For TV or FM lead-in. No soldering. Plug: ¾" x 1⅝". Socket: 1⅝" x 1" x 1½". Shpg. wt. ¾ lb.

4 Kits for $3.50
No. PL-59 99c

## TV-FM Plug & Socket

★Kit of 3 pairs

For TV, FM lead-in or speaker wire. No soldering. Plug: 1⅝" x ⅞" x ⅜". Socket: 1" x ⅞" x ⅜". Shpg. wt. ¾ lb.

4 Kits for $3.50
No. PL-60 99c

Regency
## UHF CONVERTER

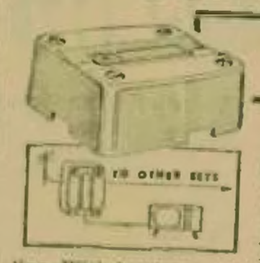
★ Easy To Connect



No. RA-344
$17.97 3 for $50

Just put converter between antenna and TV set. Automatically disconnects antenna from converter and sends VHF signal through when not in use. Uses 6AF4-A oscillator tube and low-noise mixer diode. Handsome cabinet in dark mahogany. Size: 5⅝" x 2⅝" x 4". For 110-125 volts A.C. Shipping weight 5 lbs.

B-T LABS
## Deluxe UHF-VHF Two-Set COUPLER



$3 No. AA-100

Enables operation of two TV sets or FM radios from single antenna without loss of signal strength. For standard 300 ohm line. With hardware and instructions. Size: 2" x 2¼" x 1⅝". Shipping weight ¼ lb.

## TV-FM ANTENNA SPLITTER



No. AA-30
$1.69
3 for $4.50

Balun coil type—operates 3 TV's from one antenna. Uses Balun Coils for maximum efficiency in the distribution and transfer of TV signals from a single antenna to 3 sets. Can also be used with a combination of TV and FM sets. Use with AA-51 and AA-69. 4" x 2¼" x 1⅝". Shipping weight ½ lb.

# ★ SLIDE RULES ★

## 10" SLIDE RULE



With Vinyl Case

No. TL- 425
$4.44

- **Engraved Scales**

A full sized, highly accurate slide rule with engraved scales at a bargain price. Features quality construction throughout, from warp-free bamboo base to white plastic cover. Each number and calibration mark is permanently etched into the surface of the ruler. Has A, B, C, CI, D and K scales on the front and S, L and T scales on the back. Complete with instructions. Shipping weight ¾ lb.

## 5" SLIDE RULE



NEW NEW NEW NEW NEW

No. TL-424
$2.29

★ Vinyl Case
★ Engraved Scales

All plastic slide rule with engraved scales. Each number and marker is etched right into the surface so it will not rub off and become hard to read. Has A, B, C1, C, D, K, S, L and T scales. Also has a 5-inch ruler on one edge and 0-15 centimeter scale on the other edge. Over all size 5⅞" x 1½", just right to fit your pocket. Shipping weight ¼ lb.

Silver Queen, Anthony W. Janik, Virginia City, Nev., wins choice of merchandise worth $5 from Olson's "Treasure Hunt". See back cover for instructions.

## 10" LOG-LOG DUPLITRIG SLIDE RULE

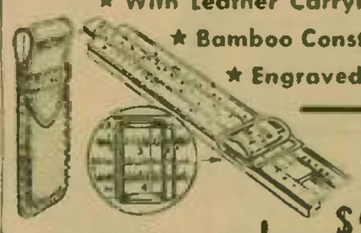


★ Warp-Free Construction
★ Complete with Leather Case

$10.45 No. TL-373

Laminated, nonhygroscopic bamboo. Scales are engraved on white plastic. Scales are L, LL1, DF, CF, CIF, C, D, LL3, LL2, LL1, LL00, A, B, K, C1, C, D, S, ST and T. A valuable tool for high school and college students, technicians and engineers. With illustrated instruction manual, including sample problems. Shpg wt. ¾ lb.

## 4" SLIDE RULE



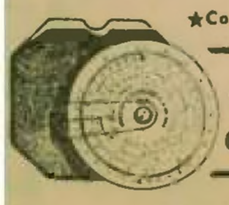
★ With Leather Carrying Case
★ Bamboo Construction
★ Engraved Scales

No. TL-366
$3.19
3 for $9.00

2X CURSOR gives readings equivalent accuracy of an 8" slide rule.

Has A, B, C1, C, D, S, L, and T scales. Also 0 to 4" measuring scale divided into 32nds of an inch plus 0 to 10 millimeter scale. Size overall: 4½". Shpg. wt. ¼ lb.

## CIRCULAR SLIDE RULE



★Comparable to 10" Rule

No. TL-397 ONLY $2

Has as many subdivisions as a 10" rule. Conversion tables for volume, weight, length, velocity, and energy. Only 3⅝" in diameter. Complete with carrying case. Shipping weight ¼ lb.

## Jeweled Swiss Stop (n' Go) Watch



$8.99 No. X-531

Scale divided in 1/10 seconds up to 30 seconds on outer dial. Inner dial registers up to 15 minutes. Side and crown push buttons for starting and stopping action, plus continuing action, from point where stopped: 1¾" dial. Shipping weight ½ lb.

## Sumit ADDING MACHINE

★ Adds, Subtracts, Multiplies, to 999,999.99

MADE IN U.S.A.



No. X-861
$18.95

SUMIT ideal as an auxiliary adding machine. "Scoop Control" the new system of control fingering that permits fast, accurate calculating. Dimensions—7" x 5" x 6". Durable metal housing. Shipping weight 5 lbs.

## 11-PIECE DRAFTING SET



★ Quality Instrument Made in W. Germany

$2.49 No. X-472
3 for $7.25
Lots of 12, Ea. $2.20

8 components—1 divider, 1 pencil, 1 pen, all 3½". Combination divider, pen and pencil compass 4½". Side screw adjustment. Accessories. All brass nickelplated in felt lined snap case. Shpg. wt. ½ lb.

DELUXE DRAFTING SET
No. X-553 ★ Center Screw Adjustment
Shipping weight ¾ lb. $4.98
3 @ $4.70 ea., 12 @ $4.30 ea. EA.

## ZIP-CORD



★ 18 Gauge
★ U. L. Approved

100 FOOT
No. W-318 Shipping Wt. 4 lbs. $2.59

250 FOOT
No. W-317 Shipping Wt. 7 lbs. $4.49

No. 18 stranded pure copper wire, brown vinyl insulated. For 117 v.

## Immersion HEATER



Gives boiling water in 3 minutes. 36" line cord with plug. For 110 volts AC only. Shipping weight ¼ lb.

No. X-761
3 for $1.20 ea. 49c

## Intercom CABLE



All copper insulated and color coded.

| Stock No. | Conductors | 100 ft. | 300 ft. |
|---|---|---|---|
| W-103 | 2 | .89 | $2.50 |
| W-105 | 3 | $1.50 | $3.50 |
| W-354 | 11 | $7.00 | $20.00 |

## TV INTERLOCK CORDS



No. W-61
3 FOR 99c

Kit of 3 standard TV interlock cords 6' long. Shpg. wt. ¼ lb.

## 8-IN-1 TAP-A-LINE



No. W-278
$1.47

Up to 8 appliances can be handled. Ivory color 12" long. Six foot cable. ½ lb.

## Stranded Hook-Up Wire 100' Coils

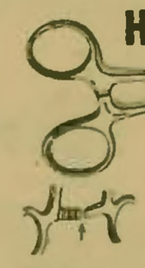
18 Gauge



79c 1½ lbs. No. W-452

## Holding FORCEPS

(Bent Tip)



$2.49 No. TL-358
3 for $7

★ Provides a third hand

Outreaches, outholds needle nose pliers. Approximately 6" long, stainless steel finish. Snap-locks to hold parts while soldering. Used. Shpg. wt. ¼ lb.

2-POSITION SNAP-LOCK

SERRATED JAWS

Straight Tip Forcep
No. TL-364
3 for $7.00 $2.49

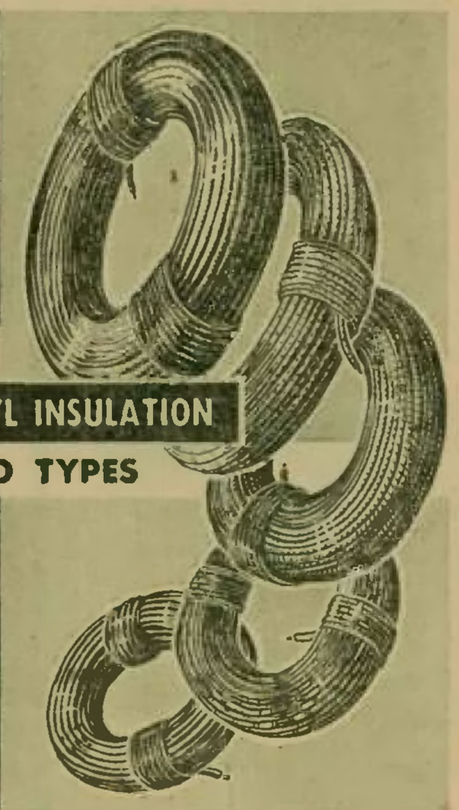
# Sensational WIRE OFFER



You get 5—100 ft. coils of insulated hook-up wire, both solid and stranded types. Each roll is well insulated with rubber, cotton or vinyl insulation. Ideal for kit building and repair work. Color code the circuits in your next kit by using a different color wire in each circuit. This will make future repairs and circuit tracing much easier. You will always have enough hook-up wire when you need it when you take advantage of this Olson bargain now. Shpg. weight 1½ lbs.

## 500 FT. HOOK-UP WIRE

★ FIVE 100 FT. COILS
★ RUBBER, COTTON OR VINYL INSULATION
★ SOLID AND STRANDED TYPES



50¢ WITH ANY $10 ORDER

No. AS-135 SOLD SEPARATELY... $1.99
Shipping Weight 1½ lbs.

## Olson WIRE BANK

8 DIFFERENT TYPES OF WIRE— 1 ROLL EACH:

- ★ 30' — 22 Ga. Hook-up Wire
- ★ 20' Miniature Clear Zip-Cord
- ★ 30' Bell Wire
- ★ 30' Aluminum Tie Wire
- ★ 94' Magnet Wire
- ★ 25' Rosin Core Solder
- ★ 15' Picture Wire
- ★ 30' Utility Copper Wire

274 FEET
*(Plus Free Dispenser)*

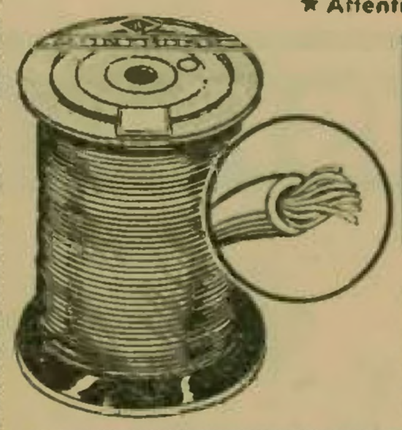



No. W-444 $2

Shipping Weight 3 lbs.

## INSULATED HOOK-UP WIRE

★ Attention Manufacturers and Industrial Users.

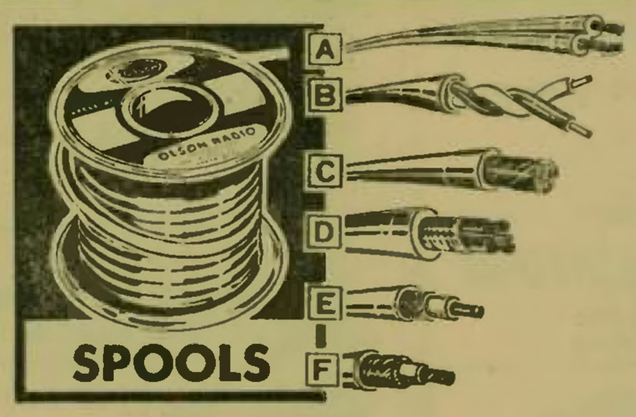


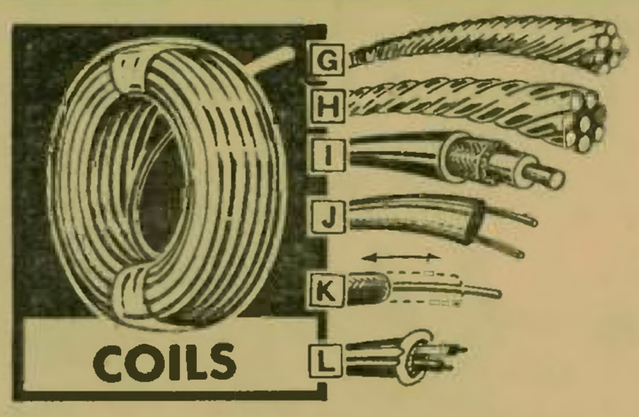
No. W-465 - Green
No. W-466 - Orange
$10 per 3500' reel
(Less than .003c per foot)

- 3500 Ft.
- 22 Gauge
- 300 Volt Insulation
- PVC Insulation

Here's an opportunity to stock up on top quality hook-up wire and save money too. Each roll contains 3500 ft. of the finest quality PVC insulated wire. Your choice of color. Insulation withstands 80°C. temperature. Stranded conductor wire is tinned for easy soldering. Insulation strips easily. Ideal for production lines. Shipping weight—12 lbs.

# Olson WIRE VALUES




### A SPEAKER CABLE—53 FT.

- 2 Conductor
- Plastic Insulated
- No. 24 Stranded
- Shipping wt. ½ lb.

99c
No. W-361

### A Speaker Cable—200 Ft.

- No. 24, Stranded
- Shpg. wt. 3 lbs.

$2.95
No. W-399

### A Speaker Cable—100 Ft.

- No. 21, Polarized
- Heavy Duty
- Shipping wt. 3 lbs.

$1.95
No. W-400

### E MIKE CABLE—22 FT.

- 15" Diameter
- Gray Plastic Jacket
- Braided Sheild
- Shpg. wt. ½ lb.

99c
No. W-362

### E MIKE CABLE—72 FT.

- 15" Diameter
- Lapel Mike Type
- Shpg. wt. 3 lbs.

$2.95
No. W-401

### E MIKE CABLE—60 FT.

- Heavy Duty
- .20" Diameter
- Shpg. wt. 4 lbs.

$2.95
No. W-402

### I COAXIAL CABLE—20 FT.

- Vinyl Insulation
- Shipping wt. ½ lb.

RG-59/U No. W-383
RG-58/U No. W-384
99c

### I COAXIAL CABLE—55 FT.

RG-59/U No. W-414
$2.95
- Shipping wt. 3 lbs.

### I COAXIAL CABLE—55 Ft.

RG-58/U No. W-415
$2.95
- Shipping Wt. 3 lbs.

### B INTERCOM CABLE

No. 20 Stranded

3 COND. 28 FT. With Jacket No. W-366
2 COND. 60 FT. Less Jacket No. W-363

99c
Shpg. wt. ½ lb.

### F AUDIO CABLE—23 FT.

Wrap shield, stranded center with grey plastic sheath
Shipping wt. ½ lb.

99c
No. W-368

75 Ft., No. W-403, Shpg. wt. 3 lbs. $2.95

### J DELUXE TWIN LEAD

100 FEET

Heavy duty 300 ohm lead-in for finest TV and FM reception. Shipping weight 3 lbs.

$2.95
No. W-412

### C HOOK-UP WIRE

No. 20 Stranded

- 75 Ft. Spool
- Vinyl Insulation
- Tinned Copper
- Shpg. wt ½ lb.

99c
No. W-375

### G Antenna Wire—50 Ft.

Stranded copper

Ideal for making citizens band and short wave antenna. Shpg. wt. ⅝ lb.

99c
No. W-378

### K PUSH BACK WIRE

Genuine Lenz—100 Ft.

Solid tinned No. 22 gauge wire, with waxed push-back cotton insulation. Shipping weight ½ lb.

69c
No. W-419, 3 for $2.00

### D 2 Cond. Shielded 80 Ft.

2-No. 22 ga. stranded conductors

With aluminum foil shield. Plastic jacket. Shpg. wt. 3 lbs.

$2.95
No. W-404

### H GUY WIRE—100 FT.

Galvanized-Rust Resistant

- Heavy-Duty
- Stranded Steel
- Shpg. wt. 4 lbs.

99c
No. W-380

### L 14/2 ROMEX CABLE

50 Foot Coil

- Standard Electric Cable
- 14 Gauge
- 2 Conductor
- Shpg. wt. 6 lbs.

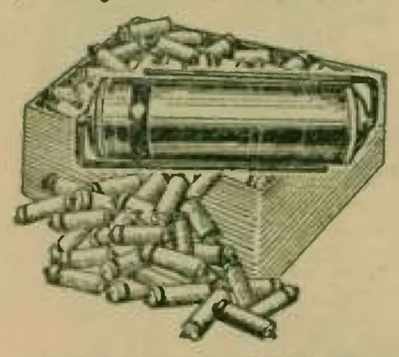
$1.80
No. W-445, 3 for $5

# Sensational KIT VALUES

## 100 PIECE CAPACITOR KIT

★ TUBULAR TYPE

★ Values: .001 mfd to .5 mfd
★ Voltages: 100 to 1000 volts



No. C-175 **$1.99**

ALL 100 PIECES . . .

Kit of 100 of the finest quality tubular capacitors. This is a must for every service man's or experimentor's service bench and tool box. Values range from .001 mfd to .5 mfd at voltages from 100 to 1000 volts. Condensers cost you less than 2c each, which is a very small fraction of their cost when purchased separately. Order several kits at this money saving price. Shipping weight 4 lbs.

## 100 PIECE RESISTOR KIT

★ 85 ½, 1 and 2 Watt Carbon Resistors

★ 15 Wire Wound Resistors up to 10 Watts



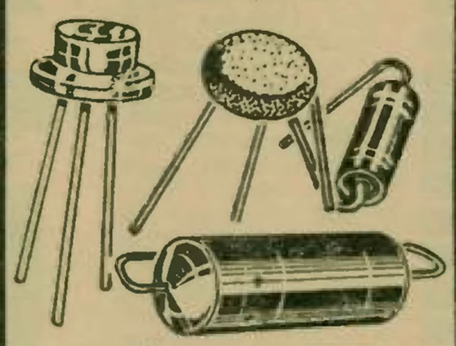
No. R-70 **$1.99**

ALL 100 PIECES . . .

100 top quality resistors. All are clearly marked with value. Standard color codes used throughout. Your cost is less than 2c each. Values have been carefully selected to fit most of your replacement needs. You get 85 ½, 1 and 2 watt carbon resistors plus 15 wire wound resistors up to 10 watts in size. Shipping weight 5 lbs.

## 315 PIECE Parts Assortment

★ 15 PNP Transistors
★ 100 Ceramic Condensers at 600 V.
★ 100 Carbon and Wire Wound Resistor
★ 100 Tubular Capacitors



No. AS-845 **$5**

ALL 315 PIECES . . .

Three hundred and fifteen carefully selected components to fill most replacement and experimental needs. You get 85—½, 1 and 2 watt carbon resistors plus 15 wire wound types ranging up to 10 watts. Also included are 100 disc and tubular ceramic condensers and 100 standard tubular condensers, and 15 popular PNP transistors. Shipping weight 4 lbs.

# ★ ELECTROLYTIC BARGAINS! ★

A new high in value, a new low in cost as Olson offers these two most popular electrolytic tubulars at rock bottom prices. Full insulation protects against heat and humidity. Shipping weight ½ lb. each.

**50-30 MFD @ 150 WVDC** — Buy Now!

No. C-149 **33c**

7 for $2
50 for $12.50



**40-40-20 MFD @ 150 WVDC** — Buy Now!

No. C-803 **75c**

3 for $2





### Capacitors Size Approx. 2¼" x 7/8" Dia.

| STOCK NO. | MFD | WVDC | PRICE EACH | QUANTITY PRICE | QUANTITY PRICE |
|---|---|---|---|---|---|
| C-143 | 50-50 | 150 | 35c | 7 FOR $2 | 50 FOR $1 |
| C-147 | 70-30 | 150 | 35c | 7 FOR $2 | 50 FOR $1 |
| C-146 | 80-50 | 150 | 52c | 4 FOR $2 | 50 FOR $2 |
| C-145 | 30-30-20 | 150 | 49c | 5 FOR $2 | 50 FOR $1 |
| C-144 | 80-40-20 | 150 | 59c | 6 FOR $3 | 50 FOR $2 |
| *C-150 | 50-30 | 150 | 69c | 2 FOR $1 | 50 FOR $2 |

* Aluminum Can

Robert L. Forbis, 758 W. Liberty St., Mexico, Mo., wins choice merchandise worth $5 from Olson's "Treasure Hunt". See back cover for instructions.

# Olson RESISTOR KITS — MADE IN U.S.A.

★ ★ ★ Five new, carefully selected, resistor kits to save you time and money. Values selected for kits are the results of years of experience in supplying your needs. Ideal for service technician, student, experimental lab, and anywhere electronic components are used. Manufactured for Olson by a famous U. S. manufacturer. ★ ★ ★

## 30 Most Needed ½-W Carbon RESISTORS



KIT OF 30 **$1.69** No. R-62 — 6 @ 1.49 ea. — Shpg. wt. ½ lb.

| OHMS | OHMS | OHMS | OHMS | OHMS |
|---|---|---|---|---|
| 10 | 150 | 2.2 K | 33 K | 330 K |
| 15 | 220 | 4.7 K | 47 K | 470 K |
| 22 | 330 | 6.8 K | 68 K | 1 meg. |
| 33 | 470 | 10 K | 100 K | 1.5 meg. |
| 47 | 1 K | 15 K | 150 K | 2.2 meg. |
| 100 | 1.5 K | 22 K | 220 K | 10 meg. |

## 20 Most Common 1 W. CARBON RESISTORS



KIT OF 20 **$1.69** No. R-63 — 6 @ 1.49 ea. — Shpg. wt. ½ lb.

| OHMS | OHMS | OHMS | OHMS | OHMS |
|---|---|---|---|---|
| 10 | 47 | 470 | 10 K | 150 K |
| 15 | 100 | 1 K | 15 K | 330 K |
| 22 | 150 | 1.5 K | 47 K | 470 K |
| 33 | 330 | 4.7 K | 100 K | 1 M |

### COMBINATION KIT

★ 30-½ Watt/20-1 Watt



**$2.98** No. R-64 — 6 @ $2.79 ea.

See No. R-62 and No. R-63 for values all in one handy kit at a savings. Shpg. wt. 3¾ lb.

## 18 10 Watt Wire Wound RESISTORS



KIT OF 18 **$1.98** No. R-65 — 6 @ $1.89 ea. — Shpg. wt. 1 lb.

| OHMS | OHMS | OHMS | OHMS |
|---|---|---|---|
| 5 | | 1500 | 5000 |
| 10 | 200 | 2000 | 7500 |
| 25 | 400 | 2500 | 10000 |
| 50 | 500 | 3000 | 15000 |
| 100 | 1000 | 4000 | |

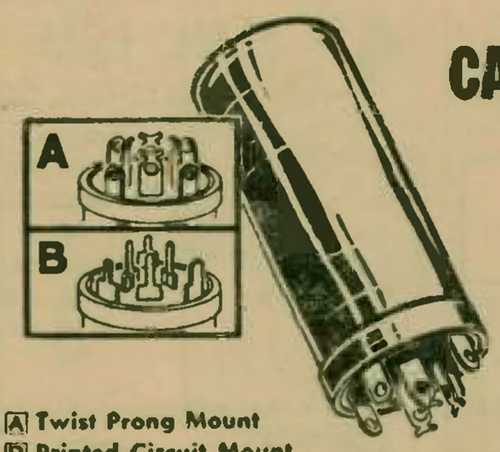
### 10-Watt Wire Wound Resistors



Kit of 27 Most Popular Values PER KIT **$2.50** No. AS-357 — Shpg. wt. 3 lbs.

# Electrolytic CAN CAPACITORS

★ MADE IN U.S.A.
★ BRAND NEW!




A Twist Prong Mount
B Printed Circuit Mount

Never before has Olson offered a Bargain like this on Metal Electrolytics. Both twist prong and printed circuit types are available. All are popular capacities at standard working voltages. All fresh brand new stock from leading American manufacturers. Buy in standard package quantities and save real money. Ideal for service men and experimenters. Limited quantities on some numbers. Shpg. wt. ½ lb.

| Stock No. | Type | Capacity | Working Volts D.C. | Size | 5 FOR |
|---|---|---|---|---|---|
| C-906 | B | 450/100/50 | 16 | 1"x2" | $1 |

| Stock No. | Type | Capacity | Working Volts D.C. | Size | 4 OF A NUMBER |
|---|---|---|---|---|---|
| C-903 | A | 500/150 | 16 | 1"x2" | $1 |
| C-164 | A | 40 | 250 | 2⅝"x1" | |

| Stock No. | Type | Capacity | Working Volts D.C. | Size | 2 OF A NUMBER |
|---|---|---|---|---|---|
| C-984 | A | 5/100/200 | 500/300/15 | 1⅜"x4" | $1 |
| C-918 | A | 40/40 | 150 | 1"x2" | |

# ATR VIBRATORS



Lots of 3 for $1.19 EACH...

**$1.29** ★

Popular non-synchronous types in 6 and 12 volt. Size: 1½" x 1⅝".

May Be Assorted For Quantity Price

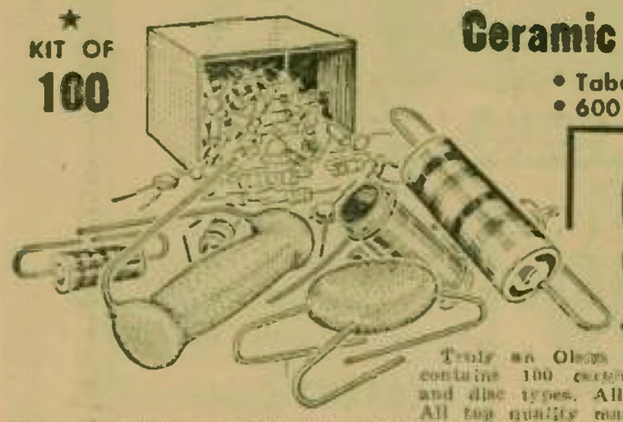
Choose from these

**6-VOLT, 4-PIN No. VB-60**
Replaces Mallory 294, 559, 901 M, Radiart 5500, 5501, Volcar NP-42-V; many others. Shpg. wt. ¼ lb.

**12-VOLT, 3-PIN No. VB-61**
Replaces ATR 1343, C-D 6550, Delco 8550, 1220-153, Mallory G874, Radiart 0550. Shpg. wt. ¼ lb.

**12-VOLT, 4-PIN No. VB-62**
Replaces ATR 1340 and Mallory G859, also many others for new 12 V car radios. Shpg. wt. ¼ lb.

## KIT OF 100 Ceramic CAPACITORS



• Tabular and Disc
• 600 Volts or More

**99c** No. K-90

Truly an Olson "Best Buy". This jumbo kit contains 100 ceramic condensers, both tubular and disc types. All rated at 600 volts or more. All top quality made by leading manufacturers. Every serviceman, experimenter and hobbiest needs one or more of these kits. Keep it handy on your work bench so you will always have the right value and size capacity at your finger tips when you need it. Take advantage of this terrific deal now while our assortments are complete. Shipping Weight ½ lb.

## 600 WV DC CONDENSERS

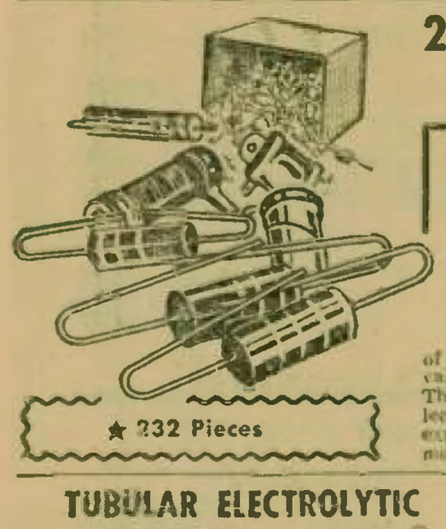


KIT OF 100 **$5.69** No. AS-268

| Q'ty | MFD | Q'ty | MFD |
|---|---|---|---|
| 10 | .001 | 20 | .02 |
| 10 | .002 | 20 | .05 |
| 10 | .005 | 10 | .1 |
| 20 | .01 | | |

Shpg. wt. 2 lbs.

## 232 Pc. RESISTOR KIT



★ 232 Pieces

★ Carbon and Wire Wound

**$3.99** No. AS-84 — 3 Kits $11.50

Olson recently purchased a large quantity of top quality insulated resistors in ½, 1 and 2 watt sizes plus 5 to 25 watt wire wound resistors. This generous assortment consists of 200 ½, 1 and 2 watt resistors in assorted values plus 22.5 to 25 watt wire-wound resistors. The values of these resistors were carefully selected to satisfy most of your replacement and experimental needs. Stock up now while assortments are complete. Shipping weight 4 lbs.

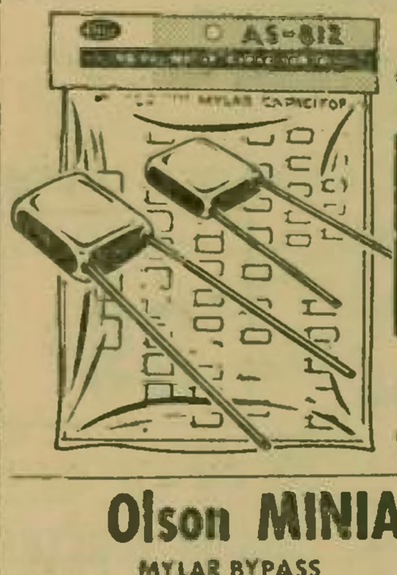
## 600 VOLT TUBULARS



Molded for greater protection. Factory fresh, capacity and working voltage clearly marked. Long, flexible, tinned leads firmly imbedded. Shpg. wt. ¼ lb.

| Stock No. | MFD | SIZE | YOUR PRICE |
|---|---|---|---|
| C-304 | .001 | ¼ x ⅜ | 12 for $1.00 |
| C-305 | .002 | ¼ x ⅜ | 12 for $1.00 |
| C-306 | .005 | ¼ x ⅜ | 12 for $1.00 |
| C-307 | .01 | ¼ x ½ | 11 for $1.00 |
| C-309 | .05 | ½ x 1⅛ | 10 for $1.00 |
| C-310 | .1 | ⅝ x 1⅞ | 7 for $1.00 |

## 50-Pc Mylar CAPACITOR KIT



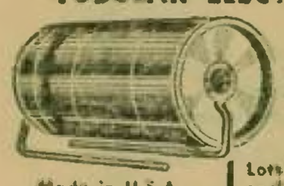
No AS-812 **$3.50**

★ 600 Volts

| Qty. | Mfd. | Qty. | Mfd. |
|---|---|---|---|
| 5 | .1 | 10 | .05 |
| 5 | .005 | 10 | .01 |
| 5 | .002 | 10 | .01 |
| 5 | .001 | | |

Kit of 50 carefully selected mylar capacitors to fill most of your replacement and construction needs. Mylar insulation withstands heat and moisture. All are rated at 600 volts. Ultra compact size makes replacement, even in small spaces, easy. Shipping weight ½ lb.

## TUBULAR ELECTROLYTIC



16 MFD @ 450 WVDC
No. C-137
Ea. **50c**
Lots of 100 each — 5 for $2

Made in U.S.A.
Size: 1¾"L x ¾"W

This factory fresh capacitor is ideal for a wide variety of applications where dependable service is required. Shipping weight ¼ lb.

## TUBULAR CAPACITORS



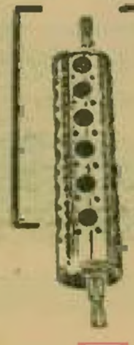
★ .05 mfd. X 400 Volt
★ 1 mfd. X 400 Volt

KIT OF 24 (12 of each Value) **99c** No. AS-840

Highest quality tubular capacitors for replacement or new construction. Sealed in wax with extra vinyl jacket to protect against heat and moisture. Leads are firmly embedded in each end. Size: .1 mfd. 15/16" x ½", .05 mfd. 1" x ⅝". Shipping weight 1 lb.

.05 mfd. X 400 Volt (Kit of 24) No. C-171 — **99c**
1 mfd. X 400 Volt (Kit of 24) No. C-172 — **99c**

## GLO-BAR DROPPING RESISTOR



**$2.99** No. R-40 — 3 for $8.00

Reduces 12 volts from battery to 6 volts D. C. Up to 10 amps. Changes resistance with load. Shipping weight ¼ lb.

## Olson MINIATURE CAPACITORS

### MYLAR BYPASS

★ Packaged 10 of a type per kit
Shipping weight ¼ lb.



PER KIT **$1.29**

(⅝" x ¼"), single ended, for easier repair work on transistor circuits. Shpg. wt. ¼ lb.

| No. | MFD | WVDC |
|---|---|---|
| C-971 | .001 | 100 |
| C-972 | .005 | 100 |
| C-973 | .01 | 100 |
| C-974 | .02 | 100 |
| C-975 | .04 | 100 |
| C-976 | .05 | 100 |
| C-977 | .1 | 100 |

### ELECTROLYTICS

★ STOCK UP NOW!



Poly plastic jacket protection. Designed for reliability, and ease of installation. Size approximately ⅜" dia. x ½" long. Shpg. wt. ¼ lb.

| Stock No. | MFD | WV-DC | YOUR PRICE |
|---|---|---|---|
| C-966 | 5 | 10 | 5 FOR 99c |
| C-967 | 10 | 10 | 5 FOR 99c |
| C-968 | 30 | 10 | 5 FOR 99c |
| C-969 | 50 | 10 | 5 FOR 99c |
| C-970 | 100 | 10 | 5 FOR 99c |



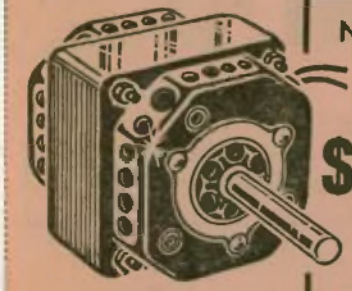
Olson Electronics
AKRON, OHIO

# *Sensational* SURPLUS BARGAINS

General Industries

## 4 Pole MOTOR

★ 117 Volt AC.
★ Quiet-Smooth Running
★ Lubricated Bearings



No. MO-109
ONLY
$2.99 ★

Shaded pole induction type motor. Has plenty of power for all sorts of devices . . . quiet fans, tape recorder mechanisms, record turntables, displays, etc. ⅝" dia. shaft. Permanetly lubricated bearings, 1750 RPM. For 110 to 120 volts, A.C. 60 cps. Size: 3⅝" x 2½". Shpg. wt. 3½ lbs.

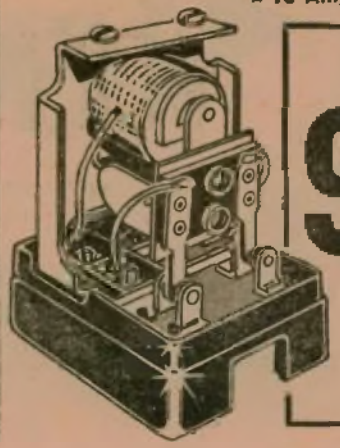
### HEAVY-DUTY 4-POLE MOTOR

Similar to above, for heavy duty application No. MO-53 ..... $3.49

Potter & Brumfield

## DPDT RELAY

★ 6-12 V. DC Coil
★ 10 Amp. Contacts



ONLY
99¢
6 FOR $5
No. SW-282



ENTIRE RELAY IS MOUNTED IN STURDY METAL CONTAINER

Rugged power switching relay operates on 6 or 12 volts DC. Has 10 AMP. D.P.D.T. contacts. Mounted in metal container to seal out dust and dirt. Relay contacts and coil connections are brought out to screws at rear of relay for easy connection. Size: 1⅞"W x 2½"L x 3"H. Shipping weight 1 lb.



KIT OF 5 $1
No. AS-856

5 PIECE HANDLE KIT plastic and leather. Shipping weight ½ lb.



No. X-937
99¢

SOLENOID. For 117 volts AC. Armature travel ⅝". Armature rotates counter clockwise ¼" as it pulls in. Shipping weight 2 lbs.



No. RP-268
Kit of 3 . . . $1

VM CHANGER ARMS. Replacement arms for popular VM changer. Less cartridge. Shipping weight ¼ lb.



No. ME-123
$3.98

GIANT 4½" FULL-VIEW METER, 0-1 MA. Made in U.S.A. Has 0-100 scale plus BAD — ? — GOOD scale. Shipping weight 1 lb.

Belden

## HEAVY DUTY AC CORD

★ With Plug

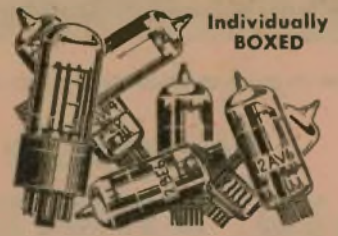


2 FOR
99¢
No. W-462

Heavy duty AC line cord. Ideal for replacement on power tools and motors. Heavy rubber insulation resists wear and scuffing. 8 ft. long. Shpg. wt. 2 lb.

## TUBE BARGAINS

★ *Famous Brands*



Individually BOXED

| TUBE TYPE | ORDER STOCK NO. | PRICE EACH |
|---|---|---|
| 0A2 | Z-312 | $ .75 |
| 1AG5 | Z-317 | 1.00 |
| 1L6 | Z-293 | 2.00 |
| 1K3 | Z-308 | .69 |
| 1U5 | Z-314 | .59 |
| 3AL5 | Z-326 | .39 |
| 3DT6 | Z-313 | .49 |
| 3V4 | Z-296 | .79 |
| 4DT6 | Z-294 | .79 |
| 5AN8 | Z-319 | .79 |
| 5AV8 | Z-300 | 1.25 |
| 5EA8 | Z-299 | 1.00 |
| 5U8 | Z-292 | .79 |
| 5Y3 | Z-307 | .39 |
| 6AN8 | Z-311 | .79 |
| 6CM7 | Z-320 | .69 |
| 6SF5 | Z-327 | 1.25 |
| 6SL7 | Z-324 | .79 |
| 8CM7 | Z-277 | 1.00 |
| 10DE7 | Z-305 | 1.20 |
| 12AU6 | Z-301 | .44 |
| 12AU7 | Z-306 | .69 |
| 12AX7 | Z-303 | .59 |
| 12BF6 | Z-310 | .79 |
| 17AX4 | Z-282 | .59 |
| 17DQ6 | Z-295 | 1.00 |
| 19T8 | Z-285 | 1.00 |
| 25CD6 | Z-297 | 1.25 |
| 25DN6 | Z-316 | 1.50 |
| 25Z6 | Z-321 | 1.00 |
| 35C5 | Z-284 | .39 |
| 117Z3 | Z-315 | 1.60 |
| 7189 | Z-298 | 1.00 |
| EF-86 | Z-318 | 1.00 |
| EM-84 | Z-325 | 1.00 |

## PLUG & SOCKET KIT

★ 6 Pair



No. AS-850
6 PAIR . . . 99¢

Kit of 6 pair of two pin plugs and sockets. Plug size: 1" dia. Socket size: 1⅛" x ⅝". Pins are of different sizes so plug fits only one way. Ideal for speaker plugs. Shipping wright 1 lb.

## TECHNICAL BOOKS

RCA TUBE MANUAL. Latest edition. 480 pages. 880 receving tubes plus 200 picture tubes.
No. B-275 ..... $1.25

HWS MAGNETIC RECORDING FOR THE HOBBYIST. How to record from phonographs, copying old records, how to record broadcasts and many more.
No. B-267 ..... $2.50

HWS 101 USES FOR OSCILLOSCOPE. By Robert G. Middleton. Covers the many possible uses of the oscilloscope. 160 pages. Size 5½"x11".
No. B-277 ..... $2.50

HWS 101 USES FOR VOM-VTVM. By Robert G. Middleton. Over 150 illustrations. 116 pgs.
No. B-278 ..... $2.00

HWS 101 MORE WAYS TO USE YOUR VOM-VTVM. TEM-8. By Robert G. Middleton. This is a sequel to book TEM-2 (above) and stresses the proper interpretation of observed wave forms. Illustrated. 160 pages.
No. B-279 ..... $2.50

HWS TUBE SUBSTITUTION HANDBOOK. TUB-6. 96 pages of substitutions for American, industrial European receiving, picture tubes.
No. B-271 ..... $1.50

HWS TRANSISTOR SUBSTITUTION HANDBOOK VOL. SSH-4. 6900 Direct Substitutions. 668 U.S. Substitutions for Japanese Transistors. 530 Semiconductor Diode Substitutes.
No. B-273 ..... $1.50

HWS HOW TO READ SCHEMATIC DIAGRAMS. Contains all types of schematic symbols and diagrams including tubes, transistors, capacitors, resistors, microphones, etc. 96 pages.
No. B-280 ..... $1.50

HWS TV SERVICING GUIDE BY SYMPTOMS. Explains trouble shooting techniques based on analysis of symptoms. 132 pages. 8½" x 11".
No. B-281 ..... $2.00

HWS ABC'S OF TRANSISTORS. TRA-1. By George B. Mann. Construction, basic circuits, temperature considerations, training and servicing procedures. Illustrated, 96 pages.
No. B-282 ..... $1.25

HWS UNDERSTANDING CAPACITORS AND THEIR USES. CAP-1. A 96 page book that makes it easy to understand capacitors.
No. B-274 ..... $1.95

HWS CITIZENS BAND RADIO HANDBOOK. By D. E. Hicks. For the service technician who installs and maintains CB gear, as well as for anyone who uses CB equip. 160 pages.
No. B-283 ..... $2.95

SP RADIO SERVICING COURSE. A practical radio training course for home study. The course covers basic electricity, including ohms law, coils, transformers, etc.
No. B-285 ..... $3.50

SP TELEVISION SERVICING COURSE. A complete home study course covering the basic essentials of TV servicing.
No. B-284 ..... $3.00

IR PHOTO & SOLAR CELL HANDBOOK. 112 pages of charts, data, and projects.
No. B-272 ..... $2.00

GERNSBACK 112 LEARN ELECTRONICS BY BUILDING. A complete electronic course in easy learn-by-doing form. From basic components to complete circuits.
No. B-286 ..... $3.95

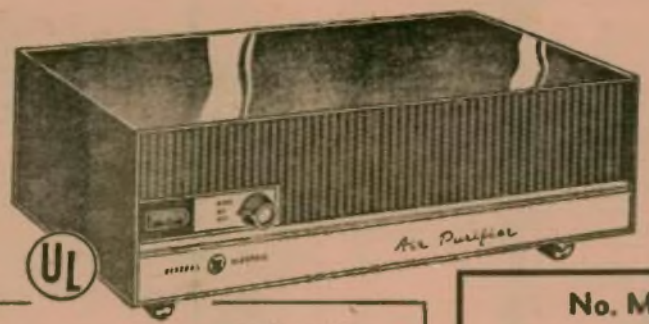
GE TRANSISTOR MANUAL. New 6th edition includes theory and specifications.
No. B-276 ..... $2.00

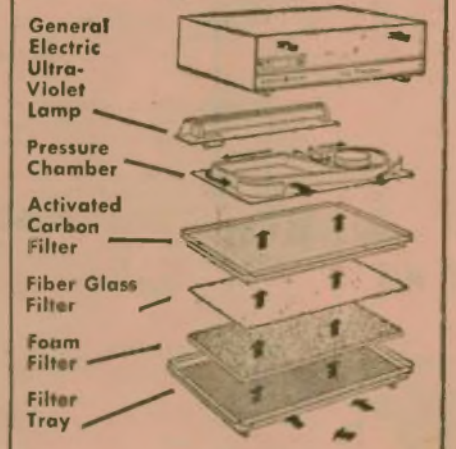
# For HOME COMFORT and PLEASURE!

## Portable AIR PURIFIER

**Removes Smoke, Odors, and Air-Borne Particles**

★ HEAVY DUTY FOAM FILTER ★ ACTIVATED CHARCOAL ★ 18" ULTRA VIOLET LAMP




Air enters the bottom, passes through three filters, is exposed to the ultra violet rays, and is blown into your room clean and fresh.

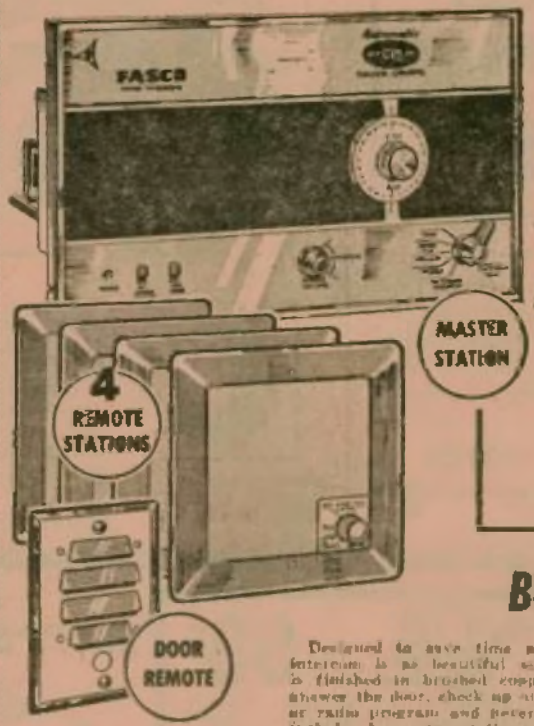
**No. MO-111**

**$19.99**

Wonderfully effective, stream-lined air purifier helps remove pollen, dust, smoke, and odors from the air; makes life more comfortable for allergy sufferers. A heavy-duty, washable foam filter removes most dust and dirt from the air passing through then a superfine fiber glass filter, removes smoke and other airborn particles down to approximately 1/1,000,000th of an inch. At least 90% of all household odors are actually removed from the air. After passing through this super-efficient filter system, the air is exposed to the rays of a General Electric 18-inch ultra-violet lamp. A quiet, but powerful 5-inch blower pulls 44 cubic feet of air every minute. Size: 21½" W. x 12" D. x 7½". H. For 110- to 120 V. AC, 60 cps. Shipping weight 24 lbs.

## FASCO FM-AM RADIO INTERCOM SYSTEM

Model 8406




**ALL STATIONS CAN INITIATE A CALL**

- ★ Phono Jack
- ★ 5 Remote Stations
- ★ Hardware & Wire Included

**No. AS-832**

**COMPLETE SYSTEM**

**$99.99**

**$10 MONTHLY**

Lots of 3, ea. $91.85

## BUILD INTO WALL

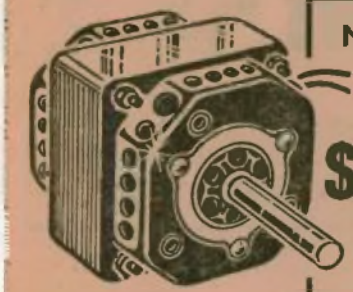
Designed to save time and expense. This custom crafted radio-intercom is as beautiful as it is functional. Master station panel is finished in brushed copper to blend with any decor. You can answer the door, check up on the baby, listen to your favorite records or radio programs and never leave your work area. Complete system includes 1—master station with FM-AM radio and phono jack, 4—indoor remote stations with selector switches and one door remote station plus all hardware, wire and complete instructions. Master can call all remotes or play radio or phono through remotes. Remotes can call master or other remotes and can also answer door remote. Each remote is equipped with a hi-fi volume and selector switch. Radio features vernier tuning dial for easy tuning. All wiring is color coded and requires no soldering. Exclusive "Automatic Station Control" eliminates the complicated switching arrangements found on most radio intercoms. Remote stations may be operated as private or non-private units depending upon the setting of the selector switch. Size: Master, 10⅝"x10⅝"x4". Indoor remotes: 5"x5"x1½". Outdoor remote 6"x4"x1½". For 110-125 v. AC 60 cps. Shipping weight 26 lbs.

# *Sensational* SURPLUS BARGAINS

General Industries

## 4 Pole MOTOR

★ 117 Volt AC.
★ Quiet-Smooth Running
★ Lubricated Bearings



No. MO-109
ONLY
$2.99 ★

Shaded pole induction type motor. Has plenty of power for all sorts of devices . . . quiet fans, tape recorder mechanisms, record turntables, displays, etc. ¾" dia. shaft. Permanetly lubricated bearings, 1750 RPM. For 110 to 120 volts. A.C. 60 cps. Size: 3⅜" x 2½". Shpg. wt. 3½ lbs.

### HEAVY-DUTY 4-POLE MOTOR

Similar to above, for heavy duty application No. MO-53 ..... $3.49

Potter & Brumfield

## DPDT RELAY

★ 6-12 V. DC Coil
★ 10 Amp. Contacts



ONLY
99¢
6 FOR $5
No. SW-282

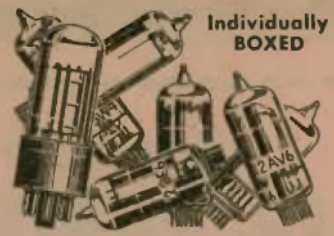


ENTIRE RELAY IS MOUNTED IN STURDY METAL CONTAINER

Rugged power switching relay operates on 6 or 12 volts DC. Has 10 AMP. D.P.D.T. contacts. Mounted in metal container to seal out dust and dirt. Relay contacts and coil connections are brought out to screws at rear of relay for easy connection. Size: 1¾"W x 2½"L x 3"H. Shipping weight 1 lb.

## TUBE BARGAINS

★ *Famous Brands*



Individually BOXED

| TUBE TYPE | ORDER STOCK NO. | PRICE EACH |
|---|---|---|
| 0A2 | Z-312 | $ .75 |
| 1AG5 | Z-317 | 1.00 |
| 1L6 | Z-293 | 2.00 |
| 1K3 | Z-308 | .69 |
| 1U5 | Z-314 | .59 |
| 3AL5 | Z-326 | .39 |
| 3DT6 | Z-313 | .49 |
| 3V4 | Z-296 | .79 |
| 4DT6 | Z-294 | .79 |
| 5AN8 | Z-319 | .79 |
| 5AV8 | Z-300 | 1.25 |
| 5EA8 | Z-299 | 1.00 |
| 5U8 | Z-292 | .79 |
| 5Y3 | Z-307 | .39 |
| 6AN8 | Z-311 | .79 |
| 6CM7 | Z-320 | .69 |
| 6SF5 | Z-327 | 1.25 |
| 6SL7 | Z-324 | .79 |
| 8CM7 | Z-277 | 1.00 |
| 10DE7 | Z-305 | 1.20 |
| 12AU6 | Z-301 | .44 |
| 12AU7 | Z-306 | .69 |
| 12AX7 | Z-303 | .59 |
| 12BF6 | Z-310 | .79 |
| 17AX4 | Z-282 | .59 |
| 17DQ6 | Z-295 | 1.00 |
| 19T8 | Z-285 | 1.00 |
| 25CD6 | Z-297 | 1.25 |
| 25DN6 | Z-316 | 1.50 |
| 25Z6 | Z-321 | 1.00 |
| 35C5 | Z-284 | .39 |
| 117Z3 | Z-315 | 1.60 |
| 7189 | Z-298 | 1.00 |
| EF-86 | Z-318 | 1.00 |
| EM-84 | Z-325 | 1.00 |

## TECHNICAL BOOKS

**RCA TUBE MANUAL.** Latest edition. 480 pages. 880 receiving tubes plus 200 picture tubes. No. B-275 ..... $1.25

**HWS MAGNETIC RECORDING FOR THE HOBBYIST.** How to record from phonographs, copying old records, how to record broadcasts and many more. No. B-287 ..... $2.50

**HWS 101 USES FOR OSCILLOSCOPE.** By Robert G. Middleton. Covers the many possible uses of the oscilloscope. 160 pages. Size 5½"x11". No. B-277 ..... $2.50

**HWS 101 USES FOR VOM-VTVM.** By Robert G. Middleton. Over 150 illustrations. 116 pgs. No. B-278 ..... $2.00

**HWS 101 MORE WAYS TO USE YOUR VOM-VTVM, TEM-8.** By Robert G. Middleton. This is a sequel to book TEM-2 (above) and stresses the proper interpretation of observed wave forms. Illustrated. 160 pages. No. B-279 ..... $2.50

**HWS TUBE SUBSTITUTION HANDBOOK, TUB-6.** 96 pages of substitutions for American, industrial European receiving, picture tubes. No. B-271 ..... $1.50

**HWS TRANSISTOR SUBSTITUTION HANDBOOK VOL. SSH-4.** 6500 Direct Substitutions, 668 U. S. Substitutions for Japanese Transistors, 530 Semiconductor Diode Substitutes. No. B-273 ..... $1.50

**HWS HOW TO READ SCHEMATIC DIAGRAMS.** Contains all types of schematic symbols and diagrams including tubes, transistors, capacitors, resistors, microphones, etc. 96 pages. No. B-280 ..... $1.50

**HWS TV SERVICING GUIDE BY SYMPTOMS.** Explains trouble shooting techniques based on analysis of symptoms. 132 pages. 8½" x 11". No. B-281 ..... $2.00

**HWS ABC'S OF TRANSISTORS, TAA-1.** By George B. Mann. Construction, basic circuits, temperature considerations, training and servicing procedures. Illustrated. 96 pages. No. B-282 ..... $1.25

**HWS UNDERSTANDING CAPACITORS AND THEIR USES, CAP-1.** A 96 page book that makes it easy to understand capacitors. No. B-274 ..... $1.95

**HWS CITIZENS BAND RADIO HANDBOOK.** By D. E. Hicks. For the service technician who installs and maintains CB gear, as well as for anyone who uses CB equip. 160 pages. No. B-283 ..... $2.95

**SP RADIO SERVICING COURSE.** A practical radio training course for home study. The course covers basic electricity, including ohms law, coils, transformers, etc. No. B-285 ..... $2.50

**SP TELEVISION SERVICING COURSE.** A complete home study course covering the basic essentials of TV servicing. No. B-284 ..... $3.00

**IR PHOTO & SOLAR CELL HANDBOOK.** 112 pages of charts, data, and projects. No. B-272 ..... $2.00

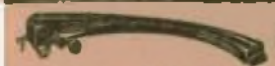
**GERNSBACK 112 LEARN ELECTRONICS BY BUILDING.** A complete electronic course in easy learn-by-doing form. From basic components to complete circuits. No. B-286 ..... $3.85

**GE TRANSISTOR MANUAL.** New 6th edition includes theory and specifications. No. B-276 ..... $2.00



KIT OF 5 $1
No. AS-856

5 PIECE HANDLE KIT plastic and leather. Shipping weight ½ lb.



No. RP-268 Kit of 3 . . . $1

VM CHANGER ARMS. Replacement arms for popular VM changer. Less cartridge. Shipping weight ½ lb.



No. X-937 99¢

SOLENOID. For 117 volts AC. Armature travel ⅝". Armature rotates counter clockwise ¼" as it pulls in. Shipping weight 2 lbs.



No. ME-123 $3.98

GIANT 4½" FULL-VIEW METER, 0-1 MA. Made in U.S.A. Has 0-100 scale plus BAD — ? — GOOD scale. Shipping weight 1 lb.

Belden

## HEAVY DUTY AC CORD

★ With Plug



2 FOR 99¢
No. W-462

Heavy duty AC line cord. Ideal for replacement on power tools and motors. Heavy rubber insulation resits wear and scuffing. 8 ft. long. Shpg. wt. 1 lb.

## PLUG & SOCKET KIT

★ 6 Pair



No. AS-850
6 PAIR . . . 99¢

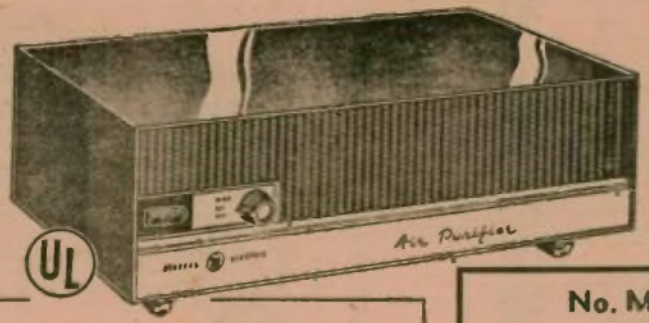
Kit of 6 pair of two pin plugs and sockets. Plug size: 1" dia. Socket size: 1½" x ¾". Pins are of different sizes so plug fits only one way. Ideal for speaker plugs. Shipping weight 1 lb.

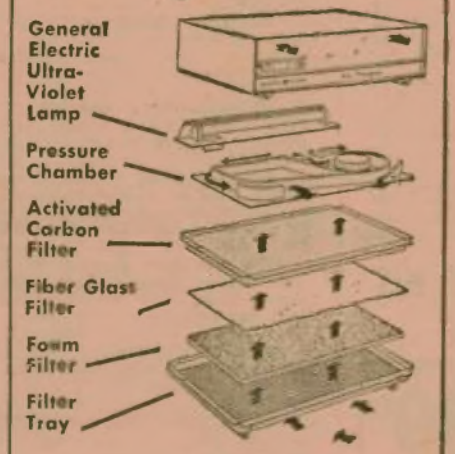
# For HOME COMFORT and PLEASURE!

## Portable AIR PURIFIER

**Removes Smoke, Odors, and Air-Borne Particles**

★ HEAVY DUTY FOAM FILTER ★ ACTIVATED CHARCOAL ★ 18" ULTRA VIOLET LAMP




Air enters the bottom, passes through three filters, is exposed to the ultra violet rays, and is blown into your room clean and fresh.

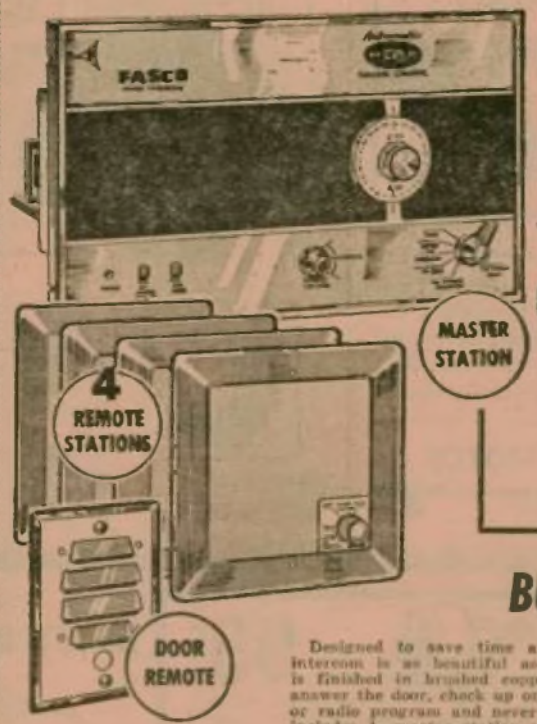
**No. MO-111**

**$19.99**

Wonderfully effective, stream-lined air purifier helps remove pollen, dust, smoke, and odors from the air; makes life more comfortable for allergy sufferers. A heavy-duty, washable foam filter removes most dust and dirt from the air passing through then a superfine fiber glass filter, removes smoke and other airborn particles down to approximately 1/1,000,000th of an inch. At least 90% of all household odors are actually removed from the air. After passing through this super-efficient filter system, the air is exposed to the rays of a General Electric 18-inch ultra-violet lamp. A quiet, but powerful 5-inch blower pulls 44 cubic feet of air every minute. Size: 21½" W. x 12" D. x 7½". H. For 110- to 120 V. AC, 60 cps. Shipping weight 24 lbs.

## FASCO FM-AM RADIO INTERCOM SYSTEM

Model 8406




**ALL STATIONS CAN INITIATE A CALL**

★ Phono Jack
★ 5 Remote Stations
★ Hardware & Wire Included

No. AS-832

**COMPLETE SYSTEM**

**$99.99**

**$10 MONTHLY**

Lots of 3, ea. $91.85

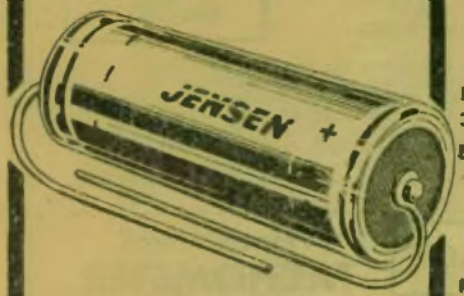
## BUILD INTO WALL

Designed to save time and energy. This custom crafted radio-intercom is as beautiful as it is functional. Master station panel is finished in brushed copper to blend with any decor. You can answer the door, check up on the baby, listen to your favorite records or radio program and never leave your work area. Complete system includes 1—master station with FM-AM radio and phono jack, 4—indoor remote stations with selector switches and one door remote station plus all hardware, wire and complete instructions. Master can call all remotes or play radio or phono through remotes. Remotes can call master or other remotes and can also answer door remote. Each remote is equipped with a hi-lo volume and selector switch. Radio features vernier tuning dial for easy tuning. All wiring is color coded and requires no soldering. Exclusive "Automatic Station Control" eliminates the complicated switching arrangements found on most radio intercoms. Remote stations may be operated as private or non-private units depending upon the setting of the selector switch. Size: Master, 15⅝"x10¼"x4". Indoor remotes: 8"x8"x1½". Outdoor remote 6"x4"x1½". For 110-125 v. AC, 60 cps. Shipping weight 26 lbs.

# JENSEN CAPACITORS
## Made In Denmark

Made in Denmark by Jensen's unhurried craftsman who are proud to produce precision capacitors to exacting specifications. Every bit of insulation is the finest. Every processing standard is painstakingly maintained. Sealed in tubular aluminum cases and insulated overall with colored transparent plastic jacket. Equipped with long tinned leads. Average shipping weight each ¼ lb.

## 450 VOLT
Withstands 500V Surges




**20 MFD**
1¾" long x ⅞" dia.
6 for $3
No. C-152 ..... EA. **52c**

**40 MFD**
2⅜" long x 1" dia.
5 for $3
No. C-153 ..... EA. **79c**

**80 MFD**
2½" long x 1¼" dia.
4 for $3
No. C-154 ..... EA. **99c**

**200 VOLT** Withstands 225V Surges
200 MFD, 2¾" long x 1" dia.,
No. C-155, 4 for $3 ..... EA. **99c**

## DUAL
### 450 VOLT
Withstands 500V Surges

**20-20 MFD**
2⅜" long x 1" dia.
No. C-156
3 for $2
EACH ..... **79c**

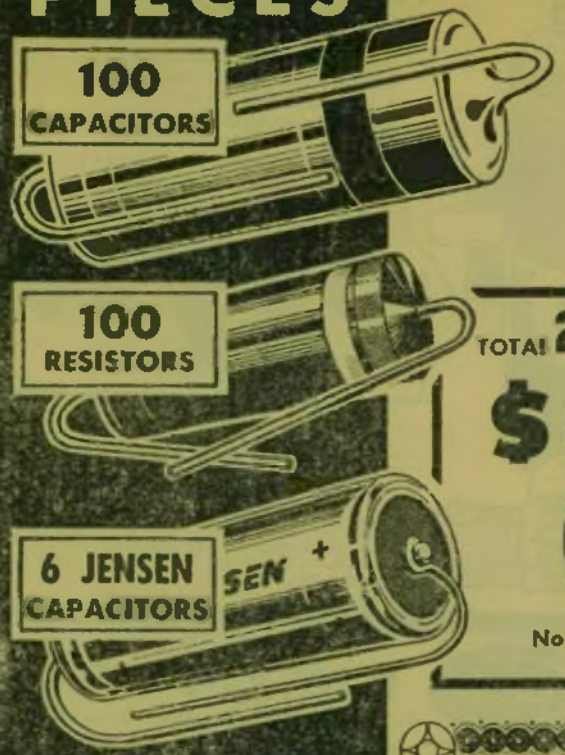
**40-40 MFD**
2¾" long x 1¼" dia.
No. C-157
4 for $3
EACH ..... **99c**

## TRIPLE
### 450 VOLT
Withstands 500V Surges

**20-20-20 MFD**
2⅜" long x 1¼" dia.
No. C-158
4 for $3
EACH ..... **99c**

**40-40-40 MFD**
3" long x 1¼" dia.
No. C-159
3 for $4
EACH ..... **$1.39**

# 206 PIECES




# CAPACITOR and RESISTOR KIT KIT

## CONSISTS OF:

100—Assorted 100 to 1000 V. Capacitors
100—Assorted Carbon & Wire Wound Resistors
1—JENSEN 20 MFD @ 450 V. Electrolytic
1—JENSEN 40 MFD @ 450 V. Electrolytic
1—JENSEN 80 MFD @ 450 V. Electrolytic
1—JENSEN 40-40-40 MFD @ 450 V. Elect.
1—JENSEN 200 MFD @ 200 V. Electrolytic

TOTAL 206 PIECES
**$8**
No. AS-872

Kit of 206 of the finest quality components . . . A must for every serviceman's or experimenter's service bench and tool box. Values have been carefully selected to fill most of your experimental and replacement needs. Each kit contains: 100 tubular capacitors from .001 to .5 mfd. or 100 to 1000 volts . . . 100 resistors including ½, 1 and 2 watt carbon type and a quantity of wirewound types, plus six Jenson Electrolytics. PLUS a free Westinghouse tube coupon. The coupon is good for a Westinghouse tube worth up to $3.00 mfgrs. list price. Shipping weight 5 lbs.

# PLUS
*Special Olson Offer!*

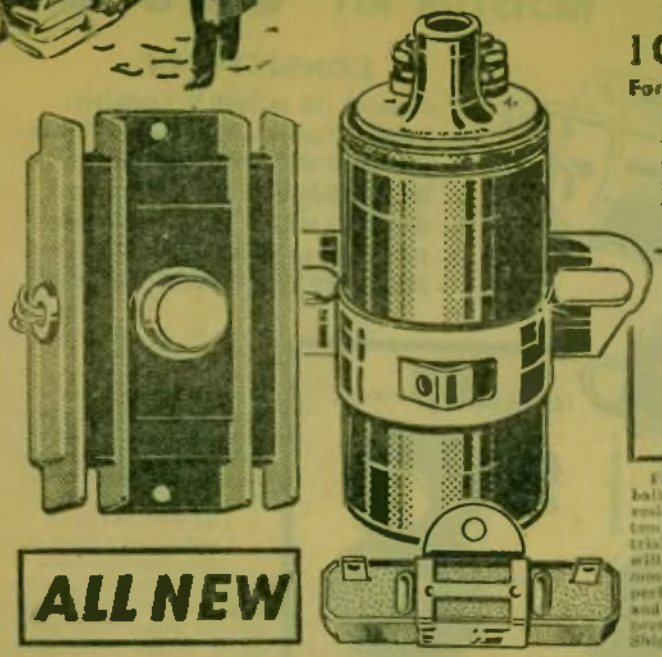
# Westinghouse FREE W TUBE

FREE with each 206 pc. kit you will find 1 certificate good for a Westinghouse tube worth up to $3.00 mfrs. list price. You get your choice of any tube; and if you sell or use the tube, the kit actually cost you only $5.



AVOID RUN-DOWN BATTERIES — GET FAST DEPENDABLE

# COLD WEATHER STARTING!



## Olson Transistor IGNITION SYSTEM

For 6 & 12 V. Negative Ground Systems

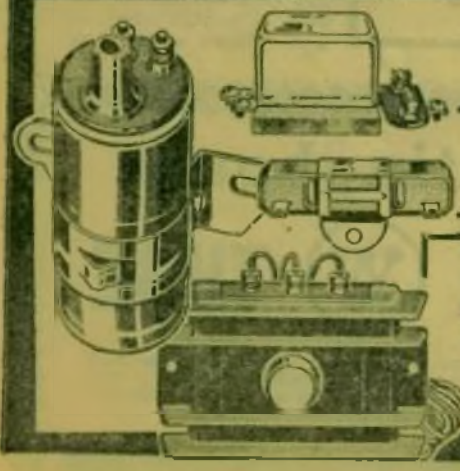
- ★ New—Easier Installation
- ★ Saves Gas, Plugs and Points
- ★ Insures Quick Starts
- ★ Eliminates Misfire
- ★ Reduces Maintenance Costs
- ★ Improves Engine Performance

**No. AM-243**

**$17.99**

For quick, easy installation on 6 volt cars with no ballast resistor and 12 volt cars with ceramic ballast resistor mounted in the engine compartment. This system is also recommended for boats, farm and industrial equipment. This advanced type ignition system will save you money in gas and tuneup costs, and most of all, it will give your engine that "first-tuned" performance every day. Features single transistor and heavy duty coil for most efficient operation. Neoprene coated wires resist oils, acids, heat and weather. Shipping weight 5 lbs.

**ALL NEW**



Deluxe Transistor

## Olson IGNITION SYSTEM

For All 12 Volt Negative Ground Systems

- ★ Heavy Duty Primary Relay
- ★ 400:1 Ratio Coil ★ Easy Installation
- ★ Molded Ceramic Resistor

This deluxe transistor ignition system is recommended for use on all 12 volt negative ground systems. The heavy duty primary relay eliminates [illegible] or rewiring of present ignition switch circuit. This makes installation particularly easy on cars which have the ignition resistance wire built into the wiring harness. Only two wires need to be changed from original wiring. Features a single high voltage 15 ampere transistor for more reliable operation. Heavy duty 400:1 ratio coil has extremely low primary resistance which reduces coil temperature. Universal mounting bracket can be used with any car. Neoprene covered wires resist oils, acids, heat and weather. Shipping weight 6 lbs.

**ALL NEW**

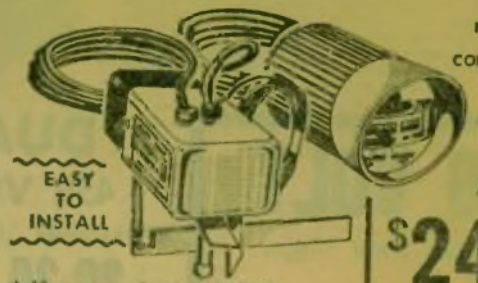
**No. AM-244**

**$24.98**

Electronic

# Miles Per Gallon Computer

*Calculates Relative MILES PER GALLON!*



★ NO GAS LINE CONNECTION

EASY TO INSTALL

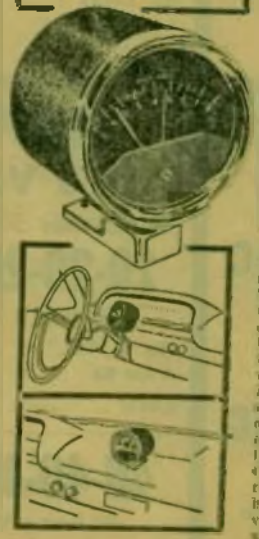
**No. X-933**

**$24.50**

★ Measures Engine SPEED

An all-electronic instrument engineered to be a guide to fuel economy. Measures relative miles per gallon at all speeds. Gives constant visual indication of optimum operating efficiency. Guides you to the economy of smooth acceleration, proper cruising speed, the best gas for your car. Easy-to-read, illuminated indicator mounts above dash. Simple installation, only three wires to connect. Complete with cable and instructions. For 12 volt negative ground systems. Size: 3½" dia. x 3" long. Shipping weight 3 lbs.

**ACROTACH**



## Transistorized TACHOMETER

- ★ Illuminated Dial
- ★ Universal Mounting
- ★ Adjustable Set-Pointer

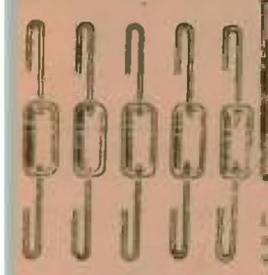
**No. X-941**

**$19.95**

This precision-built tachometer indicates engine speed instantly and accurately. Jewel bearing D'Arsonval meter and modern, sends regulated transistor circuit [illegible] reliable, trouble-free performance. Die-cast housing is finished in non-reflecting black, offset with a gleaming chrome bezel. Adjustable reference pointer can be set for correct shifting speed or maximum safe RPM. Works with regular and dual-point ignition systems, magnetos and transistor ignition systems. Does not affect ignition system performance. With hardware and instructions. For 12 volt, negative ground. Size: 3½" W. x 4½" H. x 3" D. Shpg. wt. 2½ lb.

# 88¢ TRANSISTOR - DIODE BARGAINS!

## GERMANIUM DIODES



No. DI-18
10 FOR 88¢

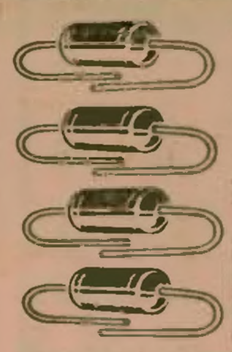
Replaces 1N34, 1N34A, 1N40 and 1N51. Shp. wt. ¼ lb.

## SILICON DIODES



No. DI-19
6 FOR 88¢

Replaces general purpose types 1N34, 1N34A, 1N51, 1N456, 1N625, 1N482, etc. Forward current 100 MA. Reverse current 25 UA. Shipping weight ¼ lb.



500 MA Silicon
## DIODES

★ RMS 280 Volts
★ PIV, 400 Volts
Shpg. wt. ¼ lb.

No. RE-76
4 FOR 88¢

## TOP HAT Silicon Diode

★ 500 MA
★ RMS 280 Volts
★ PIV. 400 VOLTS
Shpg. wt. ¼ lb.



No. RE-73
3 FOR 88¢

## SYLVANIA 2N233 NPN RF AMPLIFIER TRANSISTORS



No. X-802
2 FOR 88¢

Similar to General Transistor GT-229, G. E. 2N170 and Sylvania 2N229. Shipping weight ¼ lb.

## GENERAL PURPOSE

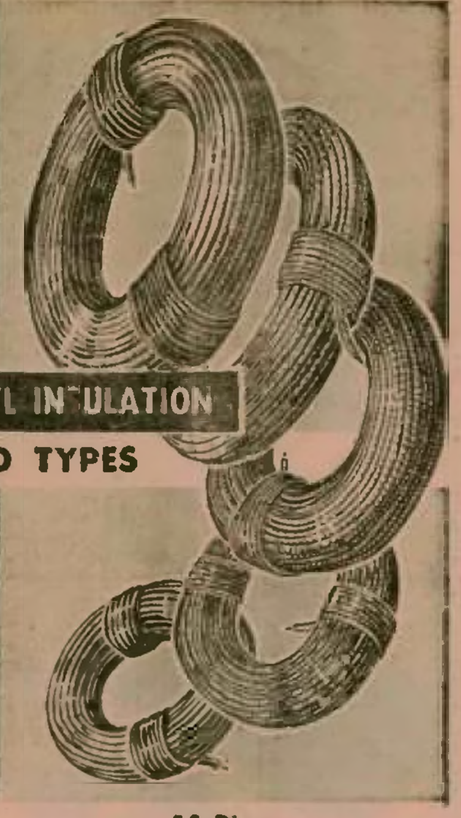


No. TR-16
4 FOR 88¢

Pkg. of 4 PNP junction transistors similar in characteristics to GE 2N-107. A high quality transistor at a low price suitable for experimenters and hobbyists. Shipping weight ¼ lb.

# 500 FT. HOOK-UP WIRE

★ FIVE 100 FT. COILS
★ RUBBER, COTTON OR VINYL INSULATION
★ SOLID AND STRANDED TYPES



50¢ WITH ANY $10 ORDER

No. A5-135
SOLD SEPARATELY . . . $1.99
Shipping Weight 1½ lbs.

## POWER TRANSISTORS



69¢
3 for $2.00
Lots of 100, Each 59¢
Shpg. wt. ¼ lb.

**No. TR-13 Low Wattage Type**
General replacement for low wattage types such as—2N175, 2N178, 2N179, 2N256, 2N257, TS176.

**No. TR-14 Med. Wattage Type**
General replacement for medium and wattage types such as—2N155, 2N256, 2N350, 2N350A, 2N351, 2N351A, 2N376A, 2N554, 2N555, CTP 1104, 1109, CTP2109, CTP1117, CTP1137.

**No. TR-15 High Wattage Type**
General replacement for high, medium low wattage types such as—2N176B, 2N234, 2N234A, 2N235, 2N235A, 2N236, 2N236A, 2N256B, 2N442, 2N295A, 2N307A, 2N352, 2N353, 2N400, 2N401, 2N669.

Motorola
**Power Transistor MOUNTING KIT**
X-773 4 for 99¢



## PNP Audio TRANSISTOR

No. TR-12
2N173, 2N174, 2N277, 2N278, 2N441, 2N442.
$1.99 3 for $5
Shpg. wt. ¼ lb.

## TRANSISTORS

YOU CAN RELY ON
**RCA Quality**



| Stock No. | RCA No. | Description | Net Each |
|---|---|---|---|
| X-745 | 2N412 | Mixer-oscillator | 89¢ |
| X-748 | 2N408 | Audio Output | 66¢ |
| X-746 | 2N410 | I. F. Amplifier | 88¢ |

**INDUSTRO TRANSISTORS**

| Stock No. | RCA No. | Description | Net Each |
|---|---|---|---|
| X-857 | 2N633 | Audio Output | 88¢ |
| X-858 | 2N482 | I. F. Amplifier | 88¢ |
| X-859 | 2N485 | Mixer-oscillator | 88¢ |



## TRANSISTORS

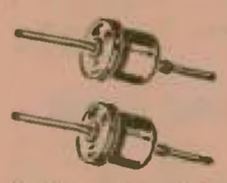
★ MATCHED SET OF 6
Plus one diode

No. TR-20
PER SET . . . $1.99
3 Sets, $5.50

Consists of: 1—mixer, 2—IFs, 1—driver and 2 output PNP transistors. Plus diode. Shipping weight ¾ lb.

## ZENER DIODES

These zener diodes are suitable for applications such as voltage references, voltage regulated power supplies, transistor bias, voltage switches for non-sensitive relays, transient absorbers for meters and other circuits, and other applications where the operating current range is always greater than the test current listed.



**1 WATT**
Your Choice
$1.19 PAIR

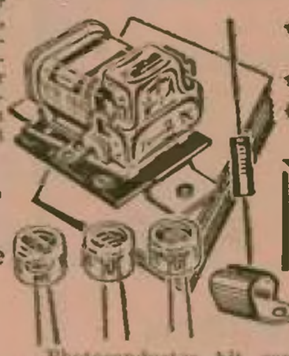
| Stk. No. | Nom. Voltage | Test Current M.A. |
|---|---|---|
| RE-85 | 4.7 volt | 40 M.A. |
| RE-86 | 4.7 volt | 30 M.A. |
| RE-87 | 10 volt | 20 M.A. |
| RE-88 | 15 volt | 13 M.A. |
| RE-89 | 22 volt | 9 M.A. |
| RE-90 | 30 volt | 5 M.A. |



**10 WATT**
Your Choice
$1.39 PAIR

| Stk. No. | Nom. Voltage | Test Current M.A. |
|---|---|---|
| RE-91 | 4.7 volt | 400 M.A. |
| RE-92 | 6.8 volt | 300 M.A. |
| RE-93 | 10 volt | 200 M.A. |
| RE-94 | 15 volt | 140 M.A. |
| RE-95 | 22 volt | 90 M.A. |
| RE-96 | 30 volt | 60 M.A. |

## SYLVANIA PHOTOCONDUCTOR KIT



★ Schematics for 19 Different Circuits
★ Sigma Relay
★ 3-Sylvania Photoconductors

No. SW-285
$9.95

Photoconductor kit contains schematics for building: Annunciator, Industrial Counter, Target Shoot for Game Room, Code Transmitter and Receiver, Blinker Light, Remote Utility Switch, Automatic Lighting Control, Slave Photoflash, Lightmeter, and other circuits. Circuits are aimed at the electronics, hobbiest, or experimenter, and construction requires a minimum of parts, all of which are readily obtainable. Each kit contains one genuine Sigma SPDT relay plus three Sylvania T-4 Cds Photoconductors and a 22K ohm 1 watt resistor. 115v. AC. line. Shpg. wt. 1 lb.

## 11-Piece SEMI-CONDUCTOR Assortment



Regular $2.98
$2.49
No. RE-82
SALE

★ Diagrams Included

Here's an Olson "Top-Value" for experimenters and hobbyists. Kit contains 11 semi-conductor devices including 1 controlled rectifier, 1 transistor, 3 diodes, and 1 silicon solar cell. Diagrams are included to make the following: Audio oscillator, transistor preamplifier, photo cell light meter, photo electric relay, power supplies, automatic tachometer, and many others. Shipping weight ¾ lb.

# TRANSISTORS BRAND NEW!

*Made By A Leading U.S.A. Manufacturer!*

BAG OF 10 NO. TR-21 — YOUR CHOICE $1 — BAG OF 15 NO. TR-22

**PNP High Frequency AUDIO**
SAVE $2 $8
10 BAGS (100 Transistors)

Brand new, first quality transistors with full length leads. Ideal for experimental and replacements needs in high frequency audio circuits. Replaces many popular numbers without circuit changes. These transistors are made by one of the leading U. S. manufacturers. Shipping wt. 2 lbs.

**PNP General Purpose AUDIO**
SAVE $2 $8
10 BAGS (150 Transistors)

These first quality audio transistors will work in most audio circuits as replacements or use them for 90% of experimental audio applications. Replaces many popular numbers without circuit changes. All are brand new with full length wire leads. Shipping weight 2 lbs.

# Olson PERF-BOARD

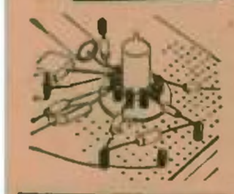
COMPLETE—Fast and Simple To Use—Solderless Breadboard Circuit Components

BUILD, DESIGN, CONSTRUCT RAPIDLY—Experimental or Permanent Electronics Circuits. Accepts OLSON Miniature Components (at right) for rapid set-up. May be easily cut with saw, to size you desire. Phenolic Boards with 3/32" holes punched on .265 centers, 1/16" thick. Shipping weight ¼ lb.

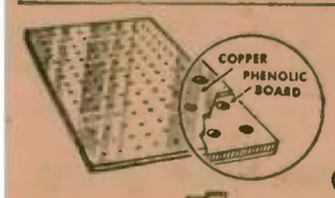


## UNCLAD PERF-BOARD

★ For Experimental & Design



| No. | Size (Punched) | Olson's Low Price Ea. | 3 for | Lots of 100 Ea. |
|---|---|---|---|---|
| K-116 | 3 21/32"x6 7/8" | .43 | 1.20 | .35 |
| K-118 | 6 7/8"x9 13/16" | 1.00 | 2.85 | .90 |




## Copper Clad Perf-Board

★ For Design of Printed Circuits



| No. | Size (Punched) | Olson's Low Price Ea. | 3 for | Lots of 100 Ea. |
|---|---|---|---|---|
| K-120 | 3 21/32"x6 7/8" | .53 | 1.50 | .48 |
| K-122 | 6 7/8"x9 13/16" | 1.50 | 4.00 | 1.20 |




## Copper Clad Board

★ For Making Your Own Printed Circuits



| No. | Size (Unpunched) | Olson's Low Price Ea. | 3 for | Lots of 100 Ea. |
|---|---|---|---|---|
| K-124 | 3 21/32"x6 7/8" | .43 | 1.20 | .38 |
| K-126 | 6 7/8"x9 13/16" | 1.35 | 4.00 | .90 |

## Etchant Solution

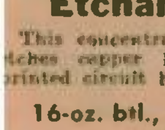
This concentrate, mixed with water, etches copper laminated surfaces on printed circuit boards.

16-oz. btl., No. X-919 $1.25

## TAPE RESIST

Use to protect areas of printed circuit board from etchant. ¼" x 370".

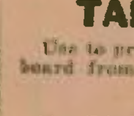
No. TA-16 75¢



## 7-Pin Tube Socket

Binding posts premounted. With mounting hardware.

No. HW-41 99¢



## Transistor Socket

Binding posts premounted. With mounting hardware.

No. HW-43 99¢

## ALLIGATOR CLIPS With Jacks

★ KIT OF 10



Color coded 5 red—5 black. 1¼" long. Shpg. wt. ¼ lb.

No. HW-32 99¢

## SPADE LUGS With Jacks

★ KIT OF 10



Color coded 5 red—5 black. 7/16" long. Shpg. wt. ¼ lb.

No. HW-33 99¢

## BINDING POSTS With Jacks

★ KIT OF 10



Color coded 5 red—5 black. 5/8" long. Shpg. wt. ¼ lb.

No. HW-34 99¢

## BANANA PLUGS

★ KIT OF 10

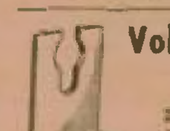


Color coded 5 red—5 black. 15/16" long. Shpg. wt. ¼ lb.

No. HW-35 99¢

## SPRING TYPE Banana Plugs

★ KIT OF 10



For quick and easy connections. 1⅛" long. Shipping weight ¼ lb.

No. HW-36 99¢

## Volume Control Holder

★ KIT OF 10

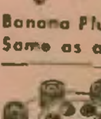


Right angle bracket with 2 mounting holes. 1⅝" H x 1" W. Shpg. wt. ¼ lb.

No. HW-37 99¢

## Banana Plug CORD SETS

★ Kit of 10 Sets



12" wire with plug on each end. 10 different colors. Shipping weight ¼ lb.

No. HW-42 $1.99

Banana Plug Cord Sets No. HW-38 Same as above but with 6" wire $1.49



## OCTAL SOCKET

Binding posts premounted. With mounting hardware. Shipping weight ¼ lb.

No. HW-40 $1.19



## 9-Pin Tube Socket

Binding posts premounted. With mounting hardware. Shipping wt. ¼ lb.

No. HW-39 $1.29

## SELENIUM CELLS



- .5 Volts @ 1-2 M.A.
- 5" Colord Coded Leads

No. RE-50
69¢
3 for $2
12 for $6.95
Lots of 100, Ea. 50¢

Gives up to .5 volts to 2 MA. in average sunlight. Size: 1½" x ⅝". Shipping weight ¼ lb.

## SOLAR CELL KIT

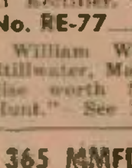


8 assorted selenium photo cells. Output from ⅓ to ½ volts. Current output from 250 micro-amps to 5 MA. Made by International Rectifier. Shpg. wt. ¼ lb.

No. RE-77 KIT OF 8, $1.98

William Woodbury, Stillwater P. O., Stillwater, Maine, wins choice of merchandise worth $5 from Olson's "Treasure Hunt." See back cover for instructions.

## 365 MMFD Variable CAPACITOR



⅞" square, with short shaft and 1¼" dia. transparent engraved dial. Shipping weight ¼ lb.

No. C-861, 3 for $2 81¢

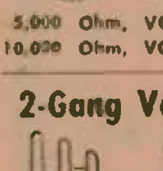
## Miniature Volume Control With Switch



For transistor circuits. Complete with switch and knob. Shipping weight ¼ lb.

5,000 Ohm, VC-258, 4 for $3.50, ea. 99¢
10,000 Ohm, VC-259, 4 for $3.50, ea. 99¢

## 2-Gang Variable Condenser



No. C-995
$1.49
3 for $4.00

Two gang variable condenser for superhet transistor radios. Use for replacement or new construction. Can be used in printed circuit board or standard wiring. Size: 1⅝" x 1⅝" x ½" long. Shipping weight ¼ lb.

IOR INTERNATIONAL RECTIFIER

## SILICON CAPSULE



- 1 V @ 10 to 16 MA
- ★ Color Coded Leads

No. RE-51
$3.99
3 for $10
Lots of 12, ea. $3

Each capsule contains 2 cells already connected in series and ready to deliver .8 to 1 volts @ 10 to 16 MA depending on brilliance of sun. Size: 1⅛" x 1¼". Shipping wt. ¼ lb.

## FERRI-TENNA



71¢
No. L-73
2 for $1
Lots of 100 Ea. 35¢

Use with any 365-410 MMF variable condenser. Coil tapped for properly matching transistor. Instructions Shipping weight ¾ lb.

FERRITE BAR
## ANTENNA COILS

★ KIT OF 3



Replaces most antenna coils in transistor radios. Size: 2¼" x ½", 2½" x ⅝", and 1⅝" x ⅜". Shpg. wt. ⅝ lb.

No. L-82 79¢

Joe D. New, Box 249, Sterlington, La., wins choice of merchandise worth $5 from Olson's "Treasure Hunt." See back cover for instructions.

# Miniature HOBBY MOTORS

★ Lubricated Bearings
★ Reversible



These high torque, miniature motors are perfect for all kinds of hobby applications. Because of their high efficiency and small size they are ideal for racing cars, boats and many other working models. All have permanently lubricated bearings. Threaded mounting hole on bottom of case makes mounting to any surface easy. Shipping weight ¼ lb. **Write for special large quantity prices.**

A 3 to 4 volts DC. Current (no load) .190 amp. Torque 9.92 gr./cm @ 8100 RPM. With 1½"x1¼" mounting stand. ⅛" dia shaft MO-106, 3 for $2.00 ____ Ea. **79c**

B 3 to 4 volts DC. Current (no load) .190 amp. Torque 9.92 gr./cm @ 8100 RPM. ⅛" dia. shaft. MO-105, 5 for $3.00 ____ Ea. **69c**

C 1.5 to 3 volts DC Current (no load) .210 amp. Torque 6.41 gr./cm @ 5900 RPM. ⅛" dia. shaft. MO-104, 3 for $1.25 ____ Ea. **49c**




## Heavy Duty BLOWERS

★ TORRINGTON FANS
★ HIGH SPEED MOTORS

Ideal for ventilating or cooling all types of electronic equipment such as ham gear or commercial broadcast equipment. **Write for special large quantity prices.**

### HEAVY DUTY BLOWER

★60 Cubic Ft. Per Min.

For use where continuous circulation of air with minimum noise is required. Two pole, Shaded-pole motor for cool, efficient, continuous duty. Size: 6½" x 6". 110-125 v. AC 60 cps. Shipping weight 5 lbs.

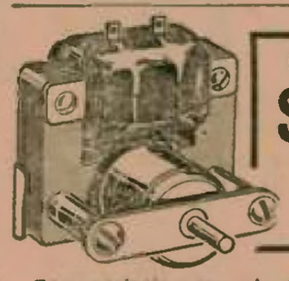
NO. MO-79 ____ **$7.95**

### DUAL BLOWER

★ 120 Cubic Ft. Per Min.

A versatile blower unit for use where quiet circulation of a large volume of air is required. Features cool running, two pole motor. Size: 10⅝" x 6½". Flange mounting. 110-125 v. AC 60 cps. Shpg. wt. 9 lbs.

NO. MO-78 ____ **$10.95**



No. MO-108 **$1.19** 3 for $3

## TELECHRON 1 RPM Timing MOTOR

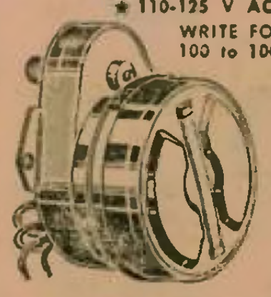
★ MADE IN U.S.A.

One revolution per minute, ideal for displays and timing devices. This rugged motor is built for continuous use. Features heavy duty gear box and motor frame plus fully insulated coil for long efficient life. Bearings require little or no lubrication. Power connections are conveniently located on the side of the coil. Overall Size: 2¼" x 2⅝" x 2½". The gear box has a ⅛" diameter shaft extending ⅜". For 110-125 v. AC 60 c.p.s. Shipping weight 2 lbs. **Write for special large quantity prices.**

## TIMING MOTORS

★ 110-125 V AC.

WRITE FOR SPECIAL 100 to 1000 PRICES!



UL

MADE IN U.S.A.

1/37.5 RPM MOTOR, No. MO-72 2 for $1.00 ____ Ea. **59c**

1/20 RPM MOTOR, No. MO-88 2 for $1.00 ____ Ea. **59c**

1/60 RPM MOTOR, No. MO-71, 3 for $1.00 ____ Ea. **39c**

5 RPM MOTOR, No. MO-74, 3 for $2.00 ____ Ea. **69c**

## KIT of 7 MOTORS

Kit contains 7 assorted motors of various speeds and voltages. A rare opportunity to stock up for your every experimental need. Shpg. wt. 4 lbs.

$2 No. AS-767

## 5 Hr. TIMER

LUX

With Bell

★ Heavy Duty Switch

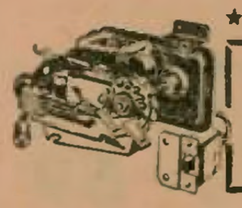


No. SW-281 **$1.99** 3 for $5.00

Heavy duty D.P.S.T. Switch is turned on by rotating shaft fully clockwise. At the end of the time cycle (5 hr.), the switch turns off and a bell begins to ring. Switch may also be operated manually. Rated at 30 amps. @ 250 volts. Motor operates on 110-125 volts A.C. 60 C.P.S. Size: 4⅛" x 2⅝" x 2⅝". Shipping wt. 2 lbs. **Write for Special Large Quantity Price.**

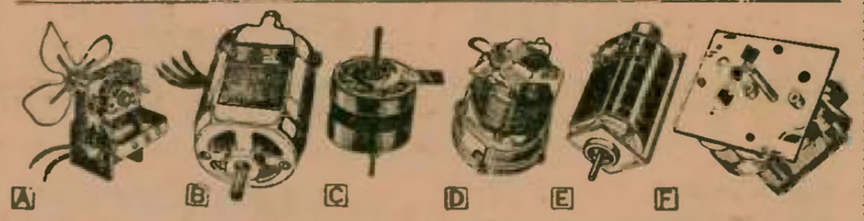
## Switching Motor

★ 13 RPM Gear Mechanism
★ 117 Volts AC



No. MO-107 **$1.99**

Rugged self starting motor with attached gear train. Stepping mechanism on end of gear box shaft rotates at 13 RPM. This stepper operates a leaf type switch opening a set of normally closed contacts at the rate of 13 times per revolution. Once each RPM a second set of normally closed contacts opens. For 110-125 v. AC 60 cps. Shipping weight 3 lbs.



### A VENTILATION MOTOR

Motor is ruggedly constructed of laminated steel and features permanently lubricated type bearings. Universal mounting bracket. 3" blade. Shpg. wt. 3 lbs. 110-125 volts. A.C. 60 cps.

No. MO-83 ____ ea. **$2.49**

### B BODINE 1/25 HP

High speed 3300 RPM motor for intermittent use in home or shop. ⅛" shaft has geared free and extends ⅝" from motor housing. Easily gear-coupled to any application. Operates on 110-125 volts A.C. or D.C. Size: 4" x 2¼" Shipping weight 4 lbs.

No. MO-64 3 for $5.50 Ea. **$1.98**

### C FASCO 4-POLE MOTOR

4-coil, 4-pole self-starting induction type. ¼" shaft extends 1¼" from front of motor and ⅝" from back of motor. 1550 RPM. For 110-125 volts AC, 60 cps. Size: 2½" x 3⅛" plus shaft. Shipping weight 5 lbs.

No. MO-110, 3 for $9.00 ea. **$3.50**

### D 24 RPM MOTOR

High torque 24 RPM motor features permanently lubricated bearings in rugged cast housing. Gear reduction ratio 137-1. Operates on 110-125 volts AC. Motor size 4¼" x 3¼" Shaft size ⅜" long x ⅜" dia. Shipping weight 5 lbs.

NO. MO-81 3 for $10 ea. **$3.50**

### E 3-6 V. MINIATURE MOTOR

Operates on 3 to 6 volts D.C. Current drain only .200 amperes 9 gr/cm torque @ 4500 RPM. Self aligning bearings. Shaft: ⅛" long by .079 dia. Overall size: 1⅜" x ⅝ With mounting bracket. Shpg. wt. ⅛ lb.

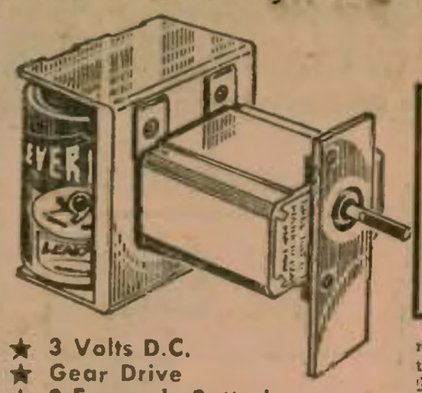
No. MO-65, 3 for $2.50 12 @ 75c Ea. ____ Ea. **89c**

### F Telechron TIMER MOTOR

Synchronous motor with multiple gear train. Front panel shaft sets timer for up to one hour. Buzzer sounds at end of time cycle. Size: 2¾" x 2½" x 3⅛" including 1½" shaft. 110-125 v. AC 60 cps. Shipping weight ⅜ lbs.

No. SW-254 ____ **99c**

## 6 RPM DC MOTOR



★ 3 Volts D.C.
★ Gear Drive
★ 2 Eveready Batteries

No. X-942 **$1.19** 3 for $3

Originally designed to operate displays. Powerful Handcraft motor and gear drive is completely enclosed. ⅛" diameter shaft rotates 6 RPM. ⅝" long shaft has flated side for set screw. Sturdy vinyl battery holder accepts two standard "D" size flashlight batteries (included). Features permanently lubricated bearings for long trouble-free service. Size: 1⅝" x 1⅝" x 2⅛" plus shaft length and mounting bracket. Shp. wt. 4 lbs.



### A MICRO SWITCH

Heavy duty Microswitch normally closed. 10 amp. 125 V AC. 5 amp. 250 V AC. Screw type terminals. Rugged heavy duty metal supported switch. Made in U.S.A. Shipping weight ¼ lb.

No. SW-208, 3 @ 25c Ea. 100 @ 20c Ea. ____ Ea. **29c**

### B MICRO SWITCH

Made in U.S.A. Normally closed micro switch miniature size 1" x ⅝" with solder terminals. Brand new individually packed. 10 amp at 125 Volts AC or 250 Volts AC. Shipping weight ¼ lb.

No. SW-205, 3 @ 33c Ea. 100 @ 25c Ea. ____ Ea. **39c**

### C ELECTRONIC LIGHT DIMMER

Easily installed in place of any standard switch without wiring changes. 300 watt capacity for incandescent lamps only. Fused silicon diode rectifier control unit. With mounting hardware. 3 positions: bright, dim and off. Replaces existing switch. Made in U.S.A. Shipping weight ¼ lb.

No. SW-169 ____ **$1.97**

### D MAGNETIC SWITCH

For burglar alarms, position indicators. Contact rating: 15 watts resistive up to 1 amp up to 250 volts DC. Use with relay for heavier load. Shipping wt. ¼ lb. Write for special large quantity prices.

No. SW-229, $1.79 In 363 Cat. ____ **67c**

### E TRIGGER SWITCH

★ With Push-button Lock

Heavy duty. Used as original equipment in power tools made by Ram, Pet, Black & Decker, McGraw Edison, Porter, Cable & others. Switch rating is 10 amp at 125 v. or ½ HP at 125 volts. Size: 3⅝" x 1⅞". Shipping weight ¼ lb.

No. SW-251, 3 for $2 ____ Ea. **80c**

### F DELAY SWITCH

Made in U.S.A.

Lights remain on for about 60 seconds, then turn off automatically. Easily installed like any regular switch. Ideal for use when you go to the car, etc. Shipping weight ¼ lb.

No. SW-179, 3 for $6 ____ Ea. **$2.19**

### G TIMER EXTENSION CORD

★ Automatically Turns Lights Off

Heavy duty extension cord with mechanical timer. Time cycle 0-4 hours. Extension cord has three outlets. Ideal for turning off fans, motors, radios, lights, etc. Use to turn off Christmas lights and decorations automatically.

No. SW-178 Lots of 3, Ea. $4.50 ____ **$5.11**

### H TIME SWITCH

★ Turns Appliances ON-OFF

Makes any radio a clock radio. Turns on and off coffee makers, lights, fans, etc., for as little as 15 minutes or as long as 23½ hours. Manual control for manual switching. Capacity 15 amps; 1650 watts. For 117 volts, AC only. Size: 5" W x 4" H x 2⅛" D. Shpg. wt. 2¼ lbs. Made in U. S. A.

No. X-706 ____ **$7.99**

### I Telechron Clock Movement

Made in U.S.A. Turns on TV sets, radios, phonos and or other appliances at any pre-set time within a 12 hour period. Has sweep second hand. A 60 minute slumber switch, manual on-off switch. For 117 volts A.C. Size: 6¾" x 4" x 2". Less knobs. Shipping wt. 3 lbs.

No. X-879 3 for $11.50 ____ Ea. **$3.93**

### J SPDT Miniature Toggle Switch

1.5 amps. 125 V. Size: 1⅝" x ½" x ½". Shipping weight ½ lb.

No. SW-211, 4 for $3.50 ____ Ea. **99c**

### J DPDT Miniature Toggle Switch

Same as above but DPDT.

No. SW-212, 3 for $3.75 ____ Ea. $1.29

## SPST Toggle Switch



6 Amps @ 125 V.
3 Amps @ 250 V.

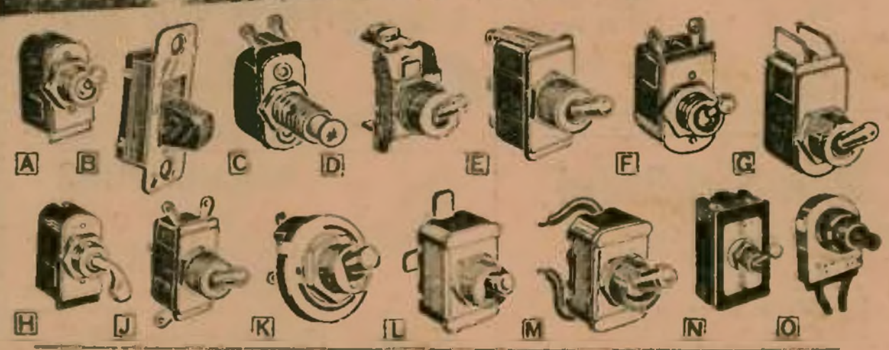
6 FOR $1

No. SW-256

## Carling SWITCHES

★ Heavy Duty AC and AC-DC.
★ U.L. Approved ★ Made in U.S.A.

A special purchase by Olson Electronics makes possible this variety of high quality switches at real money-saving prices. Heavy duty construction for dependable trouble free service made to the rigid specifications of this U.S.A. manufacturer. U.L. approved. Shipping weight 3 oz.



| Stock No. | Fig. | Action | Amps @ 125V. | Amps @ 250V. | Each 1-9 | Each 10-99 | Each 100-499 |
|---|---|---|---|---|---|---|---|
| SW-248 | B | SPST | | | .15 | .09 | .08 |
| SW-267 | B | SPDT | 4 | | .29 | .25 | .20 |
| SW-239 | B | SPST | 6 | 3 | .49 | .40 | .35 |
| SW-263 | B | DPDT† | 3 | 1 | .39 | .35 | .30 |
| SW-261 | C | SPDT‡ | 1 | | .39 | .35 | .30 |
| SW-264 | C | SPDT††‡ | 1 | | .39 | .35 | .30 |
| SW-237 | C | SPST‡ | 1 | | .29 | .25 | .20 |
| SW-265 | C | DPST‡ | 1 | | .29 | .25 | .20 |
| SW-236 | D | SPST | 3 | | .29 | .25 | .20 |
| SW-244 | E | DPDT | 3 | 1 | .69 | .60 | .50 |
| SW-276 | E | SPDT | 3 | 1 | .49 | .40 | .35 |
| SW-247 | F | SPST | 6 | 3 | .39 | .35 | .30 |
| SW-242 | G | SPST | 6 | 3 | .39 | .30 | .25 |
| SW-243 | H | SPST‡ | 6 | 3 | .59 | .50 | .40 |
| SW-279 | J | SPDT | 6 | 3 | .69 | .60 | .50 |
| SW-270 | J | DPST | 6 | 3 | .69 | .60 | .50 |
| SW-241 | K | DPDT | 6 | | .79 | .59 | .50 |
| SW-245 | K | SPDT | 15 | 7½ | .48 | .40 | .35 |
| SW-277 | K | SPST | 3 | | .39 | .35 | .30 |
| SW-274 | K | SPDT | 15 | 7½ | .48 | .40 | .35 |
| SW-246 | L | SPST | 15 | 10 | .48 | .40 | .35 |
| SW-272 | M | SPDT†* | 15 | 10 | .79 | .59 | .50 |
| SW-275 | M | SPDT* | 3 | | .59 | .50 | .40 |
| SW-278 | M | SPDT | 25 | 10 | .69 | .60 | .50 |
| SW-273 | M | DPDT* | 6 | 3 | .69 | .60 | .50 |
| SW-268 | M | DPDT‡ | 15 | 6 | .79 | .70 | .65 |
| SW-235 | M | SPST† | 15 | 10 | .48 | .36 | .30 |
| SW-259 | N | DPST | 12 | 6 | .39 | .35 | .30 |
| SW-257 | O | SPST | 3 | 1 | .29 | .25 | .20 |

‡ Indicates momentary action * Indicates wire leads †† momentary one way
* Indicates center-off ** Indicates one terminal to mounting lug

## Read-Out COUNTER

★ 24 V. DC Solenoid



★ Large Numerals

X-918 **$1.50** Lots of 4, Ea. $1.25

Ideal for industrial counting operations, score boards, assembly line counting, etc. Rugedly built for continuous operation in computers. Large numbers 0 thru 9 are printed on a drum which is rotated by a solenoid. Each number is ⅞" high so that it can easily be read at a glance. Size: 3⅝" x 1⅞" x 1½". Shpg. wt. 2 lbs.

## Automatic NIGHT LIGHT Switches

★ Turns Lights On and Off Automatically at Dusk and Dawn
★ Keeps Prowlers Away at Night When Occupants are Away

## PHOTO-EYE

Olson



No. SW-203 **$3.66** 3 for $10.50

Turns lights, signs, appliances and displays on and off at dusk and dawn automatically. Keeps prowlers away from your home when you are away by turning lights on at night. Size: 3½" x 2⅝" x 1½". For 117 volts A.C. Cap. 300 watts. Shipping weight ½ lb.

Fisher-Pierce

## NIGHT LIGHTER

Made In U. S. A.

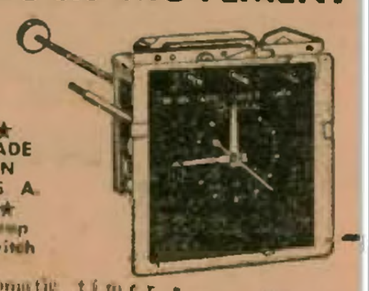


No. X-638 **$11.08**

Turns on lights or signs at dusk and off at dawn. Just plug Nightlighter into 115 volt AC socket and plug appliance into Nightlighter adaptor cord. Max. load 300 watts. Shipping weight 4 lbs.

Telechron

## CLOCK MOVEMENT



★ MADE IN U. S. A.
★ Sleep Switch

No. X-944 **$2.49**

Automatic timer switch can be attached to any radio or appliance. Turns radio or appliance on at preset time. Sleep switch can be set to turn off appliance after 60 minutes. Ideal for radios so you fall asleep to music. Switch rating 15 amp at 115 volts. Motor operates on 117 volts AC, 60 cps. Shipping weight 3 lbs.

Veeder—Root

## Deluxe TIMER SWITCH



No. SW-253 **$2.99**

This deluxe timer switch can be used for hundreds of timing applications. Timer will turn-on at any pre-set time and remain on for durations up to 6 hours. On-Time is adjustable in 15 minute intervals. Clock face is finished in handsome brushed brass. Use to turn on and off any electronic equipment automatically. Size: 9½" x 3½" x 3". (less Knobs). Contact rating 25 amps at 250 v AC. Motor 110 to 125 volts AC 60 cps. Shipping weight 3 lbs.

GE—Telechron—International Register

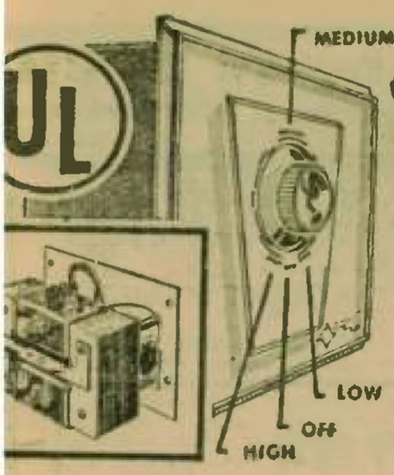
## Automatic TIME SWITCH



★ 25 AMP. CONTACTS

No. SW-249 **$1.99**

On-Time is adjustable in intervals of 1 minutes up to 5½ hours. Size of basic timer mechanism is 4½" x 3¼". Size and style of face plate may vary from illustration. Switch contacts are rated at 25 amps at 250 volts. Motor is for 110-125 volts AC 60 cps. Less knobs. Shipping weight 2¼ lbs.




PROGRESS WEBSTER

# Variable TRANSFORMER

## 500 WATT POWER CAPACITY

★ Front Panel & Knob Included
★ New! Factory Sealed Carton

**$4.99** No. T-353

Was $9.99 In Cat. 363

Mfr's 1962 List, $29.95

A heavy duty variable transformer designed to give variable control of light intensity, to create beautiful and unusual lighting effects. Can be used with incandescent or fluorescent lights with dimmer ballast. Included are knob and front panel with two color parts to match any decor. This ruggedly built transformer also has many applications on the service man's or experimenter's bench. Use for any application where an adjustable voltage is desired. Voltage range from 42 volts to 125 volts. Power capacity 500 watts. Louvered transformer housing size: 6⅝" x 7½" x 5½". Front panel size: 7⅛" x 8" for [illegible] volt AC 60 CPS. Shipping weight 17 lbs.

# SILICON RECTIFIERS

## 500 MA

No. RE-30 Ea. 47¢ 10 for $4.25

PIV: 200 volts
RMS: 140 volts
Size: ⅜"x⅜"
Shpg. wt. ¼ lb.

## 500 MA (MINIATURE)

★ 24 Karat Gold Plated

No. RE-70 KIT OF 4 PER KIT 99¢ 4 Kits $3.50

PIV: 100 volts
RMS: 70 volts
Size: ¼"x⅜"
Shpg. wt. ¼ lb.

## 750 MA

No. RE-29 Ea. 57¢ 10 @ 51c

PIV: 400 volts
RMS: 280 volts
Size: ⅜"x⅜"
Shpg. wt. ¼ lb.

## 750 MA

No. RE-32 69¢ 3 for $2.00

SPECIFICATIONS: Mfgrs. Type: SD-500-90; RMS A.C. Input: 280 Volts; Peak Inverse Voltage: 400 Volts. Output: D. C. 500 MA @ 100° C; Current: 750 MA @ 50° C. Shpg. wt. ¼ lb.

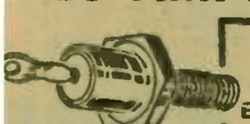
## 2 AMPERE



No. RE-66 Ea. 99¢ 4 for $3.50

400 PIV
" Hex-Stud Mount. Shpg. wt. ¼ lb.

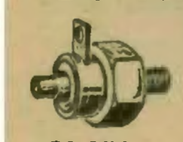
## 15 AMPERE



No. RE-65 EA. $2.79 3 for $8.00

400 PIV
" Hex-Stud Mount
Shpg. wt. ¼ lb.

## 50 AMPERE



No. RE-71 EA. $3.50 3 for $9.75

50 PIV
" Hex-Stud Mount
Shpg. wt. ¼ lb.

[illegible]alino Alcon, Box 253, Hanapepe, [illegible]waii, wins choice of merchandise worth from Olson's "Treasure Hunt". See back cover for instructions.

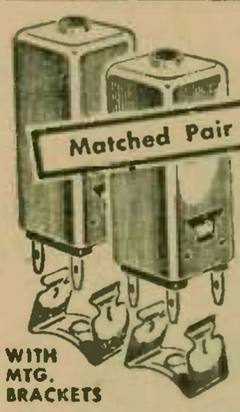


# POWER TRANSFORMER

★ Built-in Rectifier Sockets

**$3.99** No. T-382

Has built-in sockets for two 5U4's. Delivers 600 v. CT @ 250 ma. and 6.3 v. @ 10 amp., plus 2-5 volt windings @ 3 amp each. High voltage and 5 volt windings are connected to the sockets. 4½" x 3¾" x 5½". 110-120 V. AC 60 cps. Shpg. wt 8 lbs.




## Matched Pair 455 kc IF TRANSFORMERS

No. L-83 ONLY 99¢ PER PAIR

WITH MTG. BRACKETS

Consists of one each, input and output transformer. Size: ¾" x ¾" x 2". Complete with instructions. Shipping weight ¼ lb.

## 456 KC IF TRANSFORMER

Size: ¾" x ¾" x 2". For all input and output circuits. With mtg. bracket. Shpg. weight ¼ lb.

No. L-32, 10 for $4.90 Ea. 59c

## Miniature 455 KC IF TRANSFORMERS

★ Kit of 6



No. T-380 99¢

Only ⅝" x ¾" x ½". Standard 455 KC. Ideal for transistor radios. Contacts are designed for printed circuit board. Shpg. weight ¼ lb.

Olson

## Audio TRANSFORMERS



Your Choice 79¢

¾" square for miniature circuits. Shpg. wt. ¼ lb.

| Stock No. | Use | Primary Imp. Ohms | Secondary Imp. Ohms |
|---|---|---|---|
| T-230 | driver | 10,000 | 2,000 |
| T-231 | output | 500 | 8 |

## AUDIO Transformers ULTRA-MINIATURE



79c 2 for $1.50

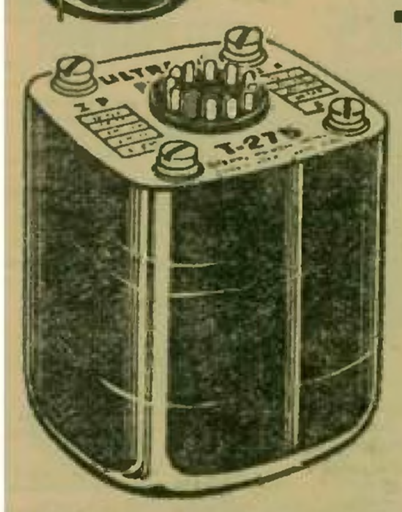
Only 7/16" square overall. Tab mount. Long insulated leads. Especially suited for printed circuit transistor applications. Shpg. wt. ¼ lb.

| Stk. No. | Use | Primary Imp. Ohms | Secondary Imp. Ohms |
|---|---|---|---|
| T-332 | Driver | 10,000 | 2,000 CT |
| T-333 | Output | 500 CT | 8 |

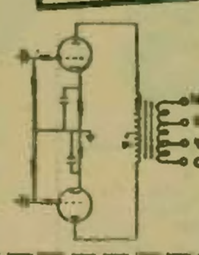
Olson

## 15 Watt Hi-Fi Output TRANSFORMER

• Response ±1 DB 15 to 50,000 CPS



**$4.95** No. T-275 2 for $9.50



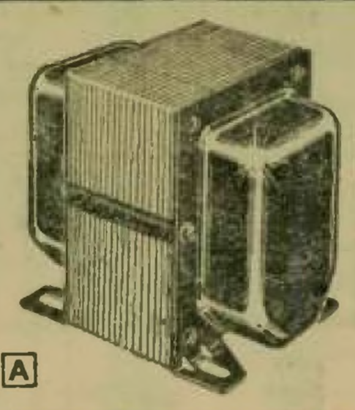
Matches most popular output tubes in push-pull circuit to most speakers. All internal leads brought out to terminals at bottom. Primary impedances: 5,000, 8,000, and 10,000 ohms. Secondary impedances: 4, 8, and 16 ohms. Size: 2½"x2½"x3". Shipping weight 3 lbs.

## NEW! STEREO OUTPUT TRANSFORMER

Two high fidelity output transformers in one compact case. Primary windings are tapped for ultra-linear operation. Primary impedance is 8,000 and 10,000 ohms with center tap which will match most popular output tubes in push-pull. All internal leads are brought out to terminals at the bottom of the transformer. ± 1 DB 15 to 50,000 CPS. Power rating: 20 watts: Size: 4¼"x2½"x3". Shpg. wt. 4 lbs.

No. T-355 $7.99

# • AUDIO OUTPUT • FILAMENT • POWER TRANSFORMERS



A

## A POWER

SECONDARY: 300-0-300 V. @ 200 M A. 6.3 volts @ 6 Amp. 5 volts @ 3 Amp.
SIZE: 4" x 4" x 3"
Shpg. wt. 8 lbs.

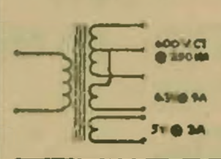



$3.66 No. T-381

## A POWER

★ WITH COOLING FINS

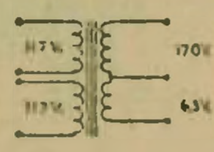
SECONDARY: 300-0-300 Volt @ 250 MA., 6.3 V. @ 9A, 5 V. @ 3A
SIZE: 4½" x 4½" x 4¾"
Shpg. Wt. 8 lbs.




No. T-377 $3.69 3 for $10.50

## A POWER

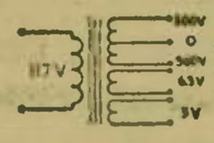
SECONDARY: 170 Volt @ 45 MA 6.3 Volt @ 1.1 Amp.
SIZE: 2⅜" x 2⅝" x 2"
Shpg. Wt. 2 lbs.




$1.79 No. T-359

## A POWER

SECONDARY: 300-0-300 V. @ 275 M.A. 6.3 volts @ 10 Amp. 5 volts @ 3 Amp.
SIZE: 3¾" x 3⅛" x 3½"
Shipping weight 8 lbs.

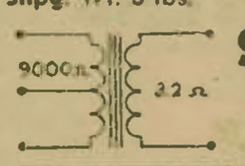



No. T-378 $3.59 3 for $10

B

## A OUTPUT

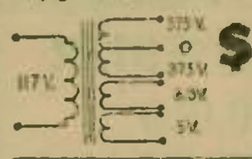
PRIMARY: 9000 OHM C. T. 25 Watt
SECONDARY: 3.2 OHM
APPLICATION: P. P. 50L6GT
SIZE: 3¾" x 2½" x 2¼"
Shpg. Wt. 3 lbs.




$1.79 No. T-373

## B POWER

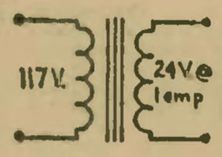
SECONDARY: 375-0-375 V. @ 160 MA. 6.3 volts @ 3.5 Amp. 5 volts @ 3 Amp.
SIZE: 3½" x 3⅞" x 3"
Shpg. Wt. 7 lbs.




$2.99 No. T-366

## C POWER

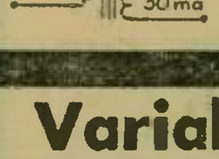
SECONDARY: 24 v. @ 1 amp
SIZE: 2¾" x 2¼" x 2¼"
SHIPPING WEIGHT: 2 lbs.




No. T-290 $1.49 3 for $4 12 @ $1.25

## C POWER

SECONDARY: 6.3 volts @ .6 amps 110 volts @ 30 MA.
SIZE: 1⅞" x 1⅞" x 2"
Shpg. Wt. 1 lb.




No. T-173 $1.32 3 for $3.50 100 @ 86c ea.

C

## C FILAMENT

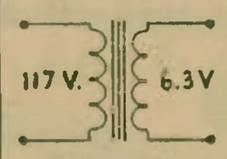
SECONDARY: 12.6 volts @ 1 amp.
SIZE: 2" x 1⅝" x 1¼"
Shpg. wt. 1 lb.




No. T-304 $1.49 3 @ 1.29 ea.

## C FILAMENT

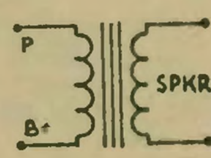
PRIMARY: 110-125 volts A. C.
SECONDARY: 6.3 v @ 1 amp.
SIZE: 1¼" x 1¼" x 1⅜"
Shpg. Wt. 1 lb.




No. T-76 89¢ 3 @ 80c ea. 100 @ .69 ea.

## C AUDIO OUTPUT

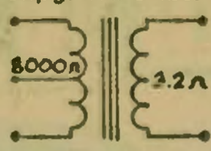
PRIMARY: 2500 ohms; 2 watts
SECONDARY: 3.2 ohms
APPL.: 50C5, 50L6, etc.
SIZE: 1½"x1¼"x1"
Shpg. Wt. ¼ lb.




No. T-334 39¢ 3 @ 33c 100 @ 28c

## C AUDIO OUTPUT

PRIMARY: 8,000 ohm C.T.
SECONDARY: 3.2 ohm
APPLICATION: P.P., 6BQ5, EL-84
SIZE: 2⅜"x1¾"x2"
Shpg. Wt. 2 lbs.




89¢ No. T-374

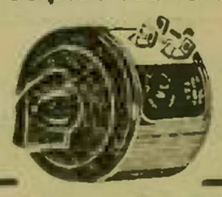
MADE IN U. S. A.

# OHMITE Variable TRANSFORMERS

Delivers variable AC voltage from 0 to well above 115 volts when connected to standard 110-125 volt 60 cycle current. Ideal for regulating incandescent lights, motor speeds, input voltage for radios and TV to locate intermittent components and many other industrial and experimental uses. Angle of rotation 320°. Complete with reversible direct reading dial and knob. Delivers full current at any dial setting.

## 1½ AMP

Output 0-132 volts

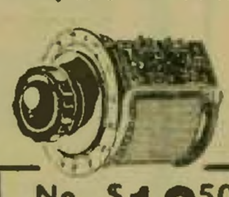


No. T-300 $8.50

VT-2 delivers 1½ amps. 198 watts. size: 2⅛" x 2½". Shpg. weight 3 lbs.

## 3½ AMP

Output 0-140 volts

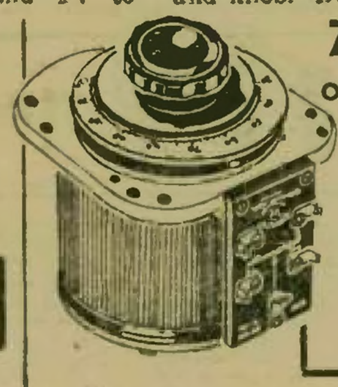


No. T-301 $12.50

VT-4 delivers 3½ amps. 490 watts. size: 4½" x 3½". Shpg. weight 7 lbs.

## 7½ AMP

Output 0-140 Volts



No. T-302 $18

VT-8 delivers 7½ amps, 1050 watts, size 4⅞" x 4⅜". Shipping weight 13 lbs.

## 20 AMP

Output 0-140 V.



No. T-328 $45

VT-20 delivers 20 amps. 2400 watts. Size: 8⅛" x 7½" x 5⅞". Shpg. weight 28 lbs.

## 65 MA Selenium RECTIFIER



No. RE-75 A.C. input 130V RMS

39¢ 3 for $1.00

Size ⅝"x⅝"x⅝" Ideal replacement in most AC-DC radios. Shipping weight ¼ lb.

## TV Transformers & Coils..66c



KIT OF 10 No. L-77

Assorted TV I.F. transformers, discriminators, peaking coils, and chokes. Shpg. wt. ¼ lb.

## FUSE HOLDERS .....67c

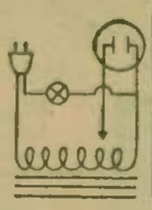


No. FU-6
99c in 662 Cat.

Kit of three standard fuse holders for chassis mounting. Shpg. wt. ¼ lb.

## 500 WATT VARIABLE VOLTAGE CONTROL



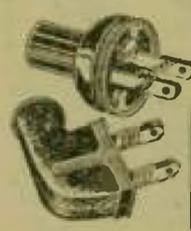



$12.93 No. T-279 3 for $38.50 Lots of 6, Ea. $11.00

Variable auto-transformers of toroidal coil design delivers variable A.C. voltage from 0 to 150 volts. Maximum rating applies over full range of output voltage. Ideal for schools, service shops, laboratories, etc. Can be used to dim lights, experimental applications or to adjust for low or high voltages.

Negligible voltage change from no load to full load. Comes with line cord and plug. Output voltage available from built-in A.C. outlet. Frequency range 50-60 cps. A.C. input 110-125 volts A.C. Shipping weight 11 lbs.

## Rubber A.C. PLUGS



KIT OF 5 99¢ No. PL-107

Kit contains 3 standard plugs and 2 right angle plugs. Ideal for power tools and appliances. Shipping weight ¼ lb. Write for special large quantity prices.

## Audio Output Transformer




Primary: 2,500 ohms; 3 watts
Secondary: 3.2 ohms
Applications: 50C5, 50L6, etc.
Size: 1½" x 1¾" x 1"
Shpg. Wt. ¼ lb.

No. T-92 3 @ 45c ea. 100 @ 39c, ea. 49c

## Electric Range SWITCH

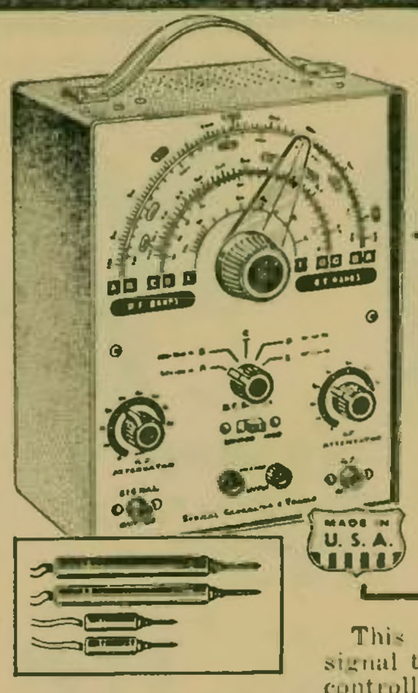
★ Snap-In Switch



No. KB-153 $1 2 FOR . . .

20 amp. at 125 volts. Mounts in ⅞" x 1¾" hole. Shipping weight ¾ lb.

# Quality TEST EQUIPMENT For Every Application!



Olson

Combination
**SIGNAL GENERATOR and TRACER KIT**

This Kit Has All Major Components Premounted & Tested At Factory

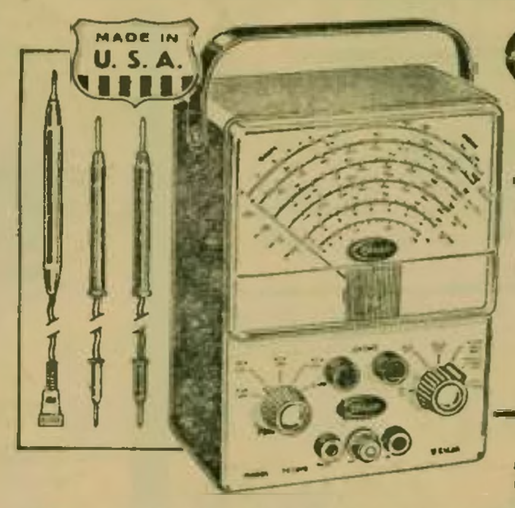
**PRE-FAB KIT CONSTRUCTION**

**No. KB-141**

**$24.95**

- ★ High Stability Electron Coupled Oscillator
- ★ Most Used Frequencies Marked in Color
- ★ Separate RF & Audio Signal Probes

This signal generator and tracer, unlike any standard signal tracer, first injects its own signal then traces that controlled signal to locate the trouble spot by standard signal tracing techniques. Designed for use with RF or audio signals and circuits. Five frequency ranges available with an attenuator switch which controls both the RF signal (modulated or unmodulated) or the 400 cps audio tone. Front panel jacks can be used for earphones. V.T.V.M. or scope. Easy to follow Olson construction manual with large, easy-to-read diagrams make building this kit pleasant. Housed in a steel cabinet with etched aluminum panel. For 110-125 volts 60 CPS. Size: 7½"x9½"x5¾" complete with probes. Range: 250 KC-120 MC in 5 bands. AUDIO: 400 CPS audio signal. TUBES: 5965, 5687, 6350, 6AG5. Shpg. wt. 12 lbs.



Olson

**V.T.V.M. KIT**

★GIANT 6" METER
★Two Color Scales

**$25.95** No. KB-140

A highly accurate DC voltmeter, AC voltmeter, and ohmmeter, with a large 6" 400 microampere meter with easily read black and red scales. It will measure AC peak-to-peak voltages to 2,000 volts any wave form, from 30 cps to above 5 MC with no accessory probes. AC RMS can be read up to 1500 volts if a sine wave. Resistance can be read directly from 0.2 ohms to 1,000 megohms. Direct reading decibel scale is calibrated from −10 to +18 DB, reference 1.73 volts, 6 MW into 500 ohm line. Zero center measurements can also be made.

SPECIFICATIONS—DC voltage ranges: 0-3, 15, 75, 150, 300, 750, 1500 volts. Input resistance: 11 megohms (1 megohm to probe) on all ranges. AC voltage: RMS ranges 0-3, 15, 75, 150, 300, 750, 15,000 volts. Peak to peak ranges 0-8, 40, 200, 400, 800, 2000 volts. Decibel ranges: −10 to +18 DB +10 to +38 DB, +30 to 58 DB response 30 cps to above 5 megacycles. Ohmmeter ranges: 0-1000, 10,000, 100,000 ohms, 0-1 meg. 10 meg, 1000 megohms center scales 10, 100, 1000, 10,000, 100,000, ohms 1 megohm 10 megohms. TUBES: 1—12AU7 twin triode balanced bridge, 2—9006 peak to peak rectifiers, 1 power supply selenium rectifier. Power: 110-125 volts AC 60 cps. Size: 7½" x 6½" x5". Shipping weight 8 lbs.

**Accessories:**

RF Probe for KB-140, No. TE-167 ——— ea. $3.75

Battery, (1 req'd) No. BA-53 ——— ea. 13c

Olson

**MULTITESTER**

**30,000 OHMS PER VOLT**

★ Self Shielded Magnet

★ COMPACT



Self shielded magnet minimizes outside interference to the extent that it is negligible. Unique single deck rotary switch gives instant positive selection of desired range. Specifications: DC volts: 0-250 mv — 1v - 10v - 50v - 250v - 500v-1000v at 30,000 ohms per volt, AC volts: 0—10v-50v--250v-500v at 12,000 ohms per volt, DC Current: 0—50ua—10ma —250 ma. Resistance: 0—5k—500k — 5 meg. ohms, DB:—10 to + 22 Size: 4¾" x 3¾" x 1½". Shipping weight 2 lbs.

**No. TE-179**

**$13.92**

SICO

Superior
**TUBE TESTER**

★ Made in U.S.A.



★ Tests Over 600 Types ★

★ Multiple Sockets

**No. TE-180**

**$19.95**

The use of multiple sockets permits elimination of element switches, thus reducing testing time and the possibility of incorrect switch settings. To test any tube, you simply insert it into a numbered socket as designated, turn the filament switch and press down the quality switch—That's all! Read quality on the meter. Inter-element leakage, if any, indicates automatically. Tester is mounted in portable carrying case with lid. Size: 13⅝" x 9½" x 4". For 110-125 volts A.C. 60 cps. Shipping weight 11 lbs.

DELUXE Self-Service Tester. Similar to above with leather case and rigid metal panel that slips into the back of tester to convert to self-service.

No. TE-178 ——— $24

Olson

Transistor
**D.C. POWER SUPPLY**

★ FOR MOST TRANSISTOR DEVICE



- Completely Wired
- 6-9-12 Volt Outputs
- Vernier Voltage Control
- 0-15 DC Meter

Everyone working with transistors or other low voltage, low current DC devices, will find this an extremely useful tool.

**No. RA-472**

**$13.98** ★

Alligator clips, which a included, can be connected desired in circuit, voltage se up from 5½ to 15 volts, as d sired for test. All control leads, fuse and meter readi available on front panel. Es ily controlled 12 step tapp transformer source of DC vol age. 110-125 volts AC, 50-6 cps. Size: 5½" x 4½" x 4½ Shipping weight 6 lbs.



*IN-CIRCUIT CAPACITOR*

Olson

**TESTER KIT**

**MEASURES ELECTROLYTICS IN-CIRCUIT**

- ★ EASY TO READ Light Bar Indicator
- ★ Sharp, Non Confusing Readings
- ★ Electrolytic Dial
- ★ Direct Reading Dial
- ★ Low Loss Coaxial Test Leads

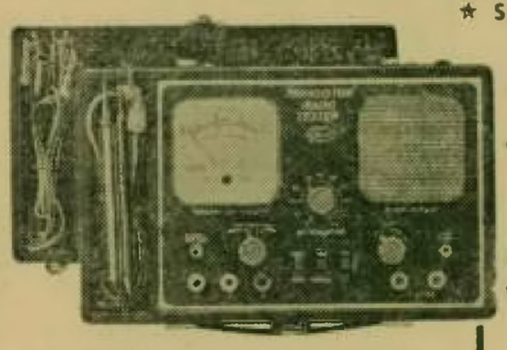
**$17.98** ★ No. KB-147

Instantly reveals opened and shorted capacitors without removing them from circuit. Checks by-pass, coupling, blocking, and filter capacitors of all types including electrolytics. Also finds dried out electrolytics, as well as opened and shorted electrolytics, by directly indicating capacitance on new easy-to-read EM-84 eye tube. Indicates in-circuit electrolytic capacity from 2 mfd to 400 mfd in two ranges. Condenser is automatically proven non-shorted and not open if capacity reading can be read. Rugged ripple finish steel cabinet with easy-to-read two color panel. Complete with leads, detailed assembly instructions and operating manual. Size: 7½" x 5⅝" x 4¼". For 110-125 volts AC, 60 cps only. Shipping weight 4 lbs. Order today.

Olson

Transistor Radio
**TESTER KIT**

★ Signal Generator and Tracer
★ Large easy to read meter
MADE IN U. S. A.



**No. KB-143**

**$26.95**

A highly versatile tester for transistors or transistor circuitry. Completely portable, operates on self-contained batteries (included). Housed in an attractive rugged carrying case. Tests PNP and NPN transistors for leakage and relative gain. Signal generator produces an audio modulated RF signal which may be applied to any stage, can be traced and heard through amp and speaker in tracer. Complete with all necessary probes and leads plus large easy to follow instructions. Size 11" x 7" x 4". Shipping weight 8 lbs.

EXTRA BATTERY (3 req'd.) ——— No. BA-67 ——— 8 for 59c

12-Piece
**TEST LEAD KIT**

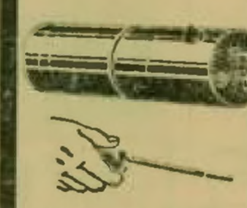


**$1.79** No. W-348 3 for $5

Consists of two 36" red and black test leads with banana plugs on each end, 2 heavy-duty spade lugs, 2 phone tip plugs, two 5" test probes and insulated clips. Shipping weight ¼ lb.

Olson

Transistorized
**SIGNAL INJECTOR**



NO. TE-150

**$3.94**

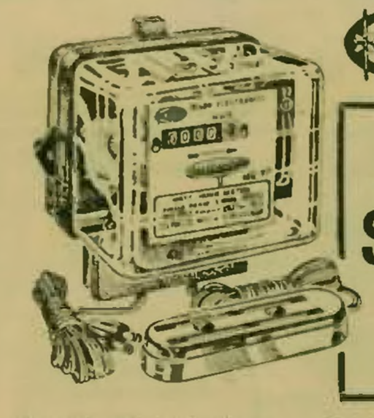
3 for $11

Produces an audio signal, suitable for signal tracing in A.F., I.F., and R.F. circuits. Operates on 4 standard penlite cells. Size: 4⅝" x 1⅜" x 1¼" (includes batteries. Shipping weight ¼ lb.

Batteries (4 req'd) No. BA-67 Bag of 8 ——— 59c

Olson

Watthour **METER**



- 117 VOLT 60 CPS
- 10 AMPERES
- SINGLE PHASE

**ONLY $9.99** No. ME-77

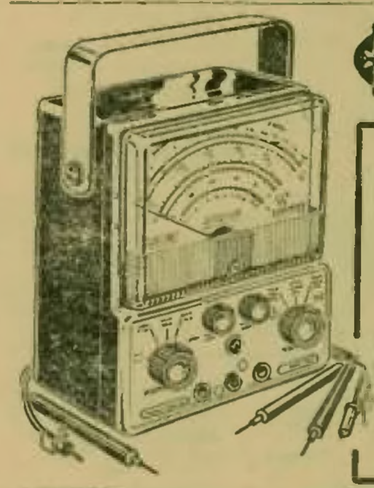
**Ideal For: Hotels, Motels, Apartments, Rental Servic**

Measure the power consume by power tools and electrical a pliances. Ideal for amateur rad operators, to determine operatin costs. This meter is complete assembled with cords and plug Just plug power tool or applian into the handy extension co and plug the watt-hour met into any electrical outlet. Read power consumed in kilowatt hours directly on th front of the meter. Know how much of your electric bill is for power tools, etc. Mo than one tool or appliance can be plugged in at a time. For 110-125 volt AC 60 cp Size: 4¼x3⅝x4½". This fine meter will pay for itself many times in savings to yo Shipping weight 6 lbs.

Olson

**6½" VTVM**

MADE IN U.S.A.



**No. TE-158**

**ONLY $29.95**

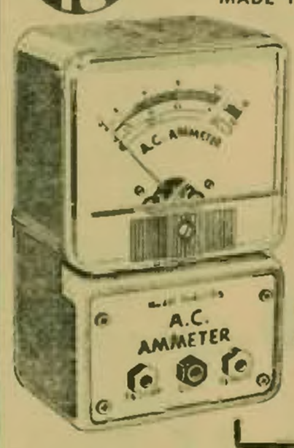
D. C. Ranges: 0 to 3, 30 150, 300, 1500 volts. A. C R.M.S. Ranges: 0 to 3, 30 150, 300, 1500 volts. Peak t Peak Ranges: 0 to 8, 80 400, 800 volts. OHMMETE Ranges: 0 to 1000 meg. ( ranges). 110-125 volts A. C 50-60 cps. Shpg. wt. 6 lbs

W. Bloor, 114 A Pioneer Sheppard AFB, Tex., wi choice of merchandise worth $5 from Olson's "Treasure Hunt." See back cover for instructions.

SICO

Superior
**AC AMMETER**

MADE IN U.S.A.



★ JUMBO METER ★ Mirrored Scale

**No. TE-177**

**$7**

This rugged ammeter is an ideal companion to the AC volt meter right. Features extra-large mirrored scale for greater accuracy. Two scales cover every application. 0-7.5 amp. AC and 0-15 amp. AC. Meter size: 3⅝" wide x 3¼" high. The streamlined case has three standard pin jacks on the front panel for quick and easy connection. Size: 3⅝" wide x 5¾" high x 2½" deep. Shipping weight ¾ lb.

12-pc. Test Lead Kit For Above Meter
No. W-348 ——— $1.79

SICO

Superior
**AC VOLTMETER**

MADE IN U.S.A.



★ JUMBO METER ★ Mirrored Scale

**No. TE-176**

**$5**

Large full-view meter with big clear numerals. This fine meter is made even more accurate by a mirrored scale. Reflection of meter hand gives accurate readings even when viewed from an angle. Features these most often used ranges: 0-150 volts AC, 0-300 volts AC, and 0-750 volts AC. Meter size 3⅝" wide x 3¼" high. New streamlined case has four standard pin jacks on front panel for quick and easy connection. Size: 3⅝" wide x 5¾" high x 2½" deep. Shipping weight ¾ lb.

12-pc. Test Lead Kit for Above Meter
No. W-348 ——— $1.79

SICO

Superior
**A.C. Expanded Scale VOLTMETER**



Employs OB2 Regulator Tube

Made In U. S. A.

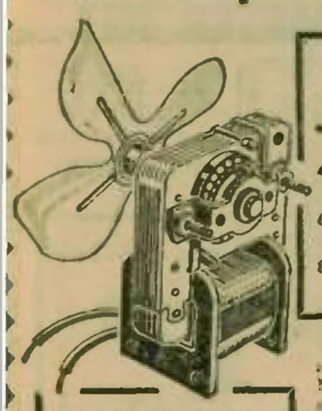
**No. ME-124**

**$5**

★ Indicates Exact Voltage Constantly

Expanded scale spreads 105 to 125 volt range over 55% of the complete scale. Expanded scale makes line voltage checks instant and accurate. OB2 voltage regulator tube improves accuracy and reliability of meter. Features large, easy-to-read numerals and divisions. Each volt between 95 and 135 is clearly indicated. Accuracy is plus or minus 1% or one scale division, whichever is greater. Large 3½" meter is equipped with over-size damping chamber. Size: 6" x 4" x 2½". Shipping weight ¾ lb.

# 1 and 2 Speed FAN MOTORS & BLADES



## Your Choice of Motors

| 1-SPEED | | 2-SPEED | |
|---|---|---|---|
| 4" BLADE No. MO-98 | $1.98 | 4" BLADE No. MO-101 | $2.96 |
| 6" BLADE No. MO-99 | $2.59 | 6" BLADE No. MO-102 | $3.31 |
| 8" BLADE No. MO-100 | $2.98 | 8" BLADE No. MO-103 | $3.97 |

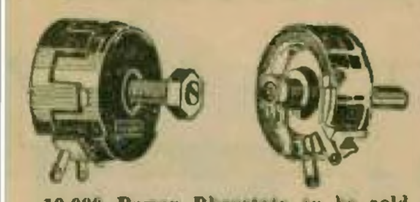
AS LOW AS **$1.98**

Motors deliver up to 1500 rpm. Ideal for cooling and ventilating all types of electronic equipment. Motors are of the squirrel cage induction type with shaded poles for self starting. Your choice of one or two speed motor with 4", 6" or 8" blade. Shipping weight 4 lbs. For 110-125 volts AC 60 cps.

SWITCHES FOR ABOVE:

| | |
|---|---|
| For Two Speed Motor, No. SW-275 | 59c |
| For One Speed Motor, No. SW-238 | 29c |
| A.C. Line Cord, No. W-43 | 29c |

# POWER RHEOSTATS



10,000 Power Rheostats to be sold fast! Famous makes included, Clarostat, Ward-Leonard, Hardwick-Hindle, Dejur, etc. STOCK UP NOW. Ideal for regulating lights, adjusting speeds also for model railroads. Shipping weight ¼ lb.

**49c** 10 FOR $4.50 EACH

MAY BE ASSORTED

### 15 OHMS — 25 WATTS
No. VC-270

Screwdriver shaft. Mounting stud: ⅜" dia. x ½" long. Size: 1⅛" dia. x 2" deep.

### 100 OHMS — 25 WATTS
No. VC-272

¼" round shaft. Mounting stud: ⅜" dia. x ½" long. Size: 1⅝" dia. x 1¾" deep.

### 125 OHMS — 25 WATTS
No. VC-265

¼" Round shaft ½" long. Mounting stud: ⅜" dia. x ½" long. Size: 1½" dia. x 2⅛" deep.

### 250 OHMS — 25 WATTS
No. VC-260

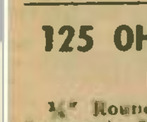
Heavy ceramic housing. 1½" dia. Shaft ¼" dia. x 1" long.

### 20,000 Ohms — 25 Watts
No. VC-268

Screwdriver Shaft. Mounting stud: ⅜" dia. x ⅝" long. Size: 1⅛" Dia. x 1⅞" deep.

**Write For Special LARGE QUANTITY PRICES!**

### CLAROSTAT 8 OHM L PAD

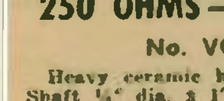


Provides set to control of speaker volume. 1" dia. Shaft ¼" dia. x 1" long. Shpg wt. ¼ lb.

No. VC-261, 3 for $2 Ea. **79c**

### CLAROSTAT ROTARY SWITCH

★UL APPROVED

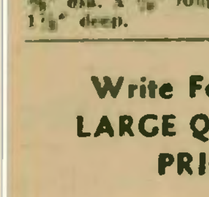


Size: ⅞" dia. Shaft ¼" dia. x 1¼" L.

No. SW-231, 6 for $1 Ea. **19c**

### SPDT PLATE RELAY

★ 1400 Ohms



No. SW-206 — 3 FOR **$1**

1400 ohm, 12 MA D.C. Contacts 50 volts at 1 MA. Size: 1" dia. x 2⅛".

### 5 Power FLASHLIGHT MAGNIFIER



Polished chrome with ivory plastic trim. Uses two "C" cells (not included). Size: 6⅝" long. Shipping weight ⅝ lb.

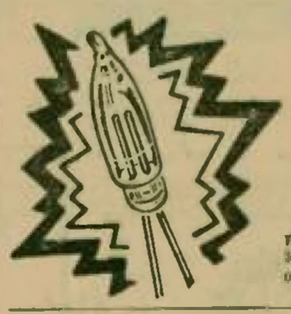
3 for $4.50, No. SW-200

12 @ $1.25 EACH **$1.71**

Batteries (2 req'd) No BA-41 Ea. 15c

# NE-2 NEON LAMP

No. PL-51



Ea. **9c**

15 for $1.00
100 for $5.88

Use with dropping resistor of 56,000 to 100,000 ohms. 1/25 watt.

# NE-2H High Brightness NEON LAMP

★ 20 Times Brighter



No. PL-105

10 for $1
100 for $7.50
EACH **12c**

The new GE NE-2H neon lamps are up to 20 times brighter than the standard NE-2. Can be used in areas where high level general illumination reduces the effectiveness of the standard brightness lamps. Bulb size ⅝" long with 1" wire leads. Operates on 95 to 135 volts with dropping resistor. Shipping weight ½ lb.



No. **47** PILOT LAMPS

• 6-8 Volt • .15 Amps

**59c** Box of 10 — No. PL-53 — 3 Boxes for $1.75

### No. 51 PILOT LAMPS

6 Volt @ .25 Amps.
3 Boxes, $1.75
No. PL-89 Box of 10, **59c**

### 8-IN-1 TAP-A-LINE

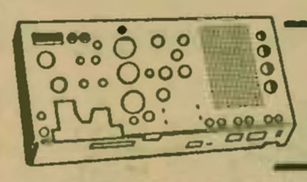


No. W-278 — **$1.47**

Up to 8 appliances can be handled. Ivory color 12" long. Six foot cable. ½ lb.

Zephyrhills High Sch., Zephyrhills, Fla., wins choice of merchandise worth $5 from Olson's "Treasure Hunt." See back cover for instructions.

### PRE-PUNCHED ALUMINUM CHASSIS



No. X-927 — 2 FOR **99c**

Ideal for experimental circuits. 15½" x 7½" x 2⅛". All Aluminum chassis. Prepunched with holes for tube sockets, transformers, coils, switches and many other parts. Ideal for building power supplies, transmitters, receivers, etc. Shpg. wt. 4 lbs.

### METAL KNOB KIT



★ Kit of 3 ★ ¼" Shaft

3 Kits for $3.50
No. KN-18 **$1.29**

Kit of three matched aluminum knobs to fit standard ¼" shaft. Set screw locks knob firmly to shaft. Modern appearance is accented by gradual taper from ⅞" dia. to ⅝" dia. Length of knob, ⅞". Shipping weight ¼ lb.

# LUX MARINE Accessory CLOCK



★ Luminous 24-hr. Dial

No. EA-70

Plus 90% F.E.T.

**$9**

Lux Precision movement with jeweled balance stud and screw. This handsome clock is moisture and shock resistant. Practical and nautical, at home, in runabout, cruiser, or landlubber's den. Can be surface or flush mounted. Requires 3⅛" hole for flush mounting. Sweep second hand. 24 hr. mechanical mechanism. Shpg. wt. ½ lb.

# GIANT SURPRISE KIT




No. AS-700 ONLY **$5**

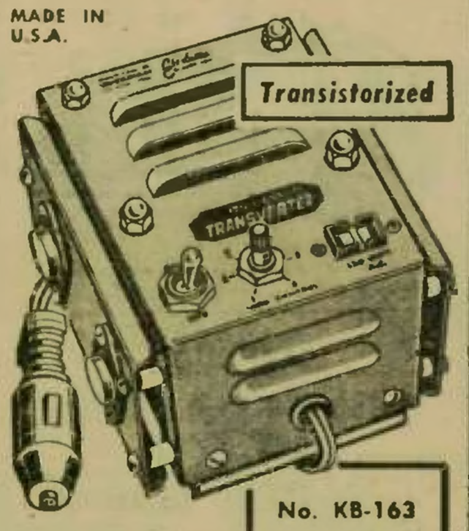
A deluxe HIGH VALUE Surprise Kit worth MANY TIMES Olson's low, low price! Kit may contain transformers, motors, relays, capacitors, resistors, controls, wire and countless other valuable components. Shipping weight 20 lbs.

5-LB. SURPRISE KIT
Shipping Weight 7½ lbs.
No. AS-137 **$1.98**

### WORKMAN TRANSVERTER KIT

12 V. DC to 117 V. AC

MADE IN U.S.A.




No. KB-163 — **$22.95**

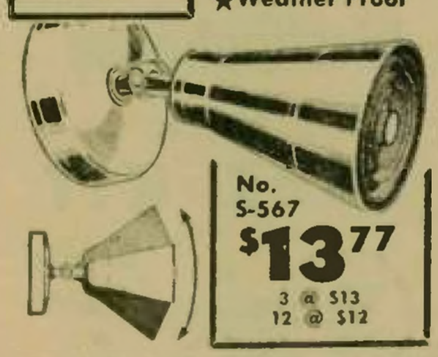
Supplies 117 volt AC 60 cycle voltage at 100 watts continuously from 12 V. DC battery. Highly efficient, no vibrators, uses four TXB-9 transistors. Has three foot cord with plug to fit into lighter receptacle and standard electrical female output. Size: 5¼" x 5¼" x 4". Shipping weight 5 lbs.

Factory Assembled Transverter
125 watts continuous. **$29.95**
No. RA-584

### PAGING SPEAKER

MADE IN U. S. A.

★Decorator Styled
★Universal Mount
★Weather Proof



No. S-567 — **$13.77**

3 @ $13
12 @ $12

Styled to blend tastefully with todays most modern furnishings. Ideal for any location where appearance is a critical factor, such as churches, conference halls, restaurants and similar surroundings. This speaker is equipped with a driver type reproducer unit for high efficiency, directivity and intelligibility. Response: 350 to 13,000 cps. Power capacity 7.5 watts. Size: 6½" bell dia. x 14" long. Shipping weight 4 lbs.

### BEACON LANTERN

★ With Red Flasher



No. X-784 — **99c**

3 for $2.70
Lots of 12, Ea. 85c

★ Use as lantern, flasher - beacon or both. Shipping wt. 2 lbs.

Batteries (4 req'd) No. BA-53 Ea. 13c
Extra Lantern bulb No. PL-45 Ea. 15c
Extra Flasher bulb No. PL-44 Ea. 15c

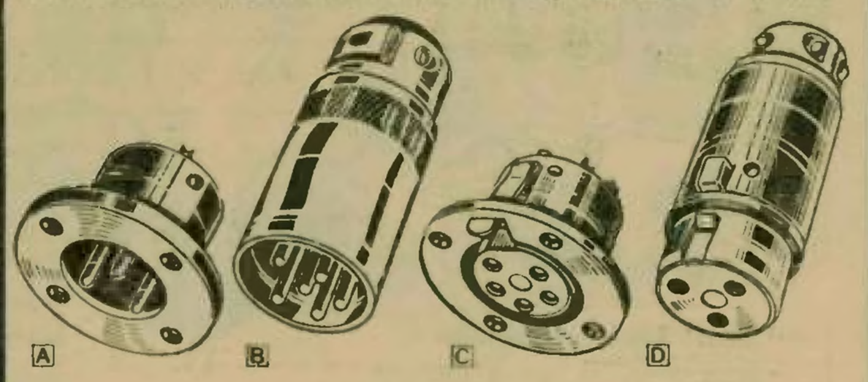
# ELCO AUDIO PLUGS

(EQUIVALENT TO CANNON P AND PCG SERIES)

★ Prices Good While Stock Lasts ★ Limited Quantities

Olson bought all the manufacturers had. Industrial users and experimenters stock up now.

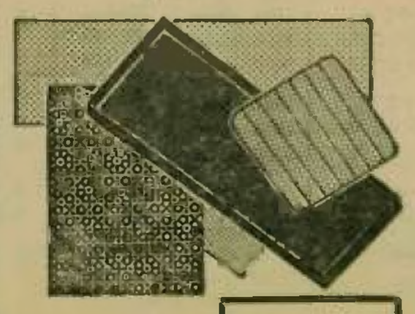
Will handle up to 30 amps. Housings are die cast zinc alloy and steel to withstand hard usage. Contacts are silver-plated brass, with a silver-plated beryllium copper spring added to the female contacts. Fully-tinned solder cups at contact tail ends will take up to No. 10 wires. Finished in satin chrome. A latch lock device provides quick and secure locking of a mated pair. Positive polarization. Cable connectors may be plugged into each other or into the panel receptacle. Plugs are 1⅛" in diameter and 2¼" long. Shpg. wt. ½ lb. ea.




| OLSON STK. NO. | FIG. | EQUIVALENT CANNON NO. | EICO NO. | PINS | TYPE | OLSON PRICE |
|---|---|---|---|---|---|---|
| PL-109 | A | P2-14 | P-2 | 2 | Male | $1.05 |
| PL-110 | A | P3-14 | | 3 | Male | 1.15 |
| PL-111 | A | P4-14 | 4 | 4 | Male | 1.30 |
| PL-112 | A | P5-14 | 5 | 5 | Male | 1.40 |
| PL-123 | B | P2-CG-12S | B-2212-2 | 2 | Male | 1.65 |
| PL-124 | B | P3-CG-12S | 3 | 3 | Male | 1.75 |
| PL-125 | B | P4-CG 12S | 4 | 4 | Male | 1.85 |
| PL-126 | B | P5-CG-12S | 5 | 5 | Male | 1.95 |
| PL-118 | C | P2-13 | B-2211-2 | 2 | Female | 1.60 |
| PL-119 | C | P3-13 | 3 | 3 | Female | 1.70 |
| PL-120 | C | P4-13 | 4 | 4 | Female | 1.80 |
| PL-121 | C | P5-13 | 5 | 5 | Female | 1.90 |
| PL-114 | D | P2-CG-11S | B-2210-2 | 2 | Female | 2.10 |
| PL-115 | D | P3-CG-11S | 3 | 3 | Female | 2.20 |
| PL-116 | D | P4-CG-11S | 4 | 4 | Female | 2.30 |
| PL-117 | D | P5-CG-11S | 5 | 5 | Female | 2.40 |

### Metal Grille Kit

★ KIT OF 10

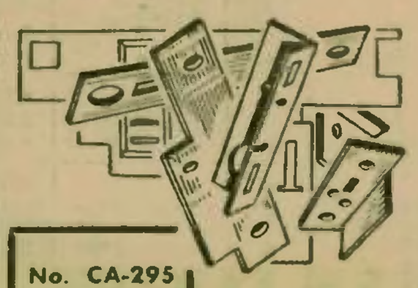


Kit of 10 assorted pieces of metal grille. Ideal for use as speaker grille in radios, TV or phono. Makes excellent grille for ventilation openings. Shpg. wt. 4 lbs.

No. CA-283 — **99c**

### 25 Pc. Metal KIT

★ Aluminum & Steel



No. CA-295 — **99c**

Kit includes 26 pieces of metal panels, brackets and plates plus at least one pre-punched aluminum chassis. Chassis alone is worth this low price. Metal plates and panels can be cut and bent to form a chassis of your choice. Shipping weight 15 lbs.



### OCTAL SOCKET KIT

No. AS-849 Kit of 6 — **99c**

★ Molded Type

Kit of 6 standard Octal sockets. All molded type. Some are saddle type mount and some are for snap ring mounting. Terminal lugs are all clearly numbered. Shpg. wt. 1 lb.



### Cabinet Hardware Kit

No. AS-847 — **99c**

★ 12 Pieces

Generous assortment of all kinds of cabinet hardware. You're sure to find just what you need to repair furniture or cabinets. Kit contains several kinds of hinges, knobs and fasteners. Shipping weight 2 lbs.

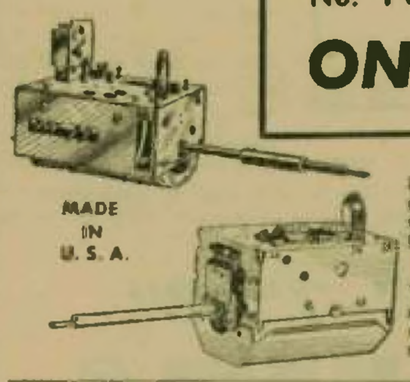
# PARTS BARGAINS!

★ LIMITED QUANTITIES

★ STOCK-UP NOW



No. TV-109 — **ONLY .. $1.99**



MADE IN U. S. A.

Popular Standard Coil Tuners. All kinds, all sizes, less tubes. Ideal for repair parts. Install new tubes and tuner may be in working order. Quantities are limited so stock up now. Shpg. wt. 2 lbs.

Wilbur Glouser, 571 Kathryn Dr., Wilmington, Ohio, wins choice of merchandise worth $5 from Olson's "Treasure Hunt". See back cover for instructions.

# FURNITURE LEGS



MADE IN U. S. A.

As Low As **99c** SET OF 4

★ Wood & Plastic Legs

WOOD

| STOCK NO. | LEN. | FINISH | Price Per Set of 4 |
|---|---|---|---|
| CA-285 | 3" | UNFIN. | $ .99 |
| CA-287 | 6" | UNFIN. | $1.19 |

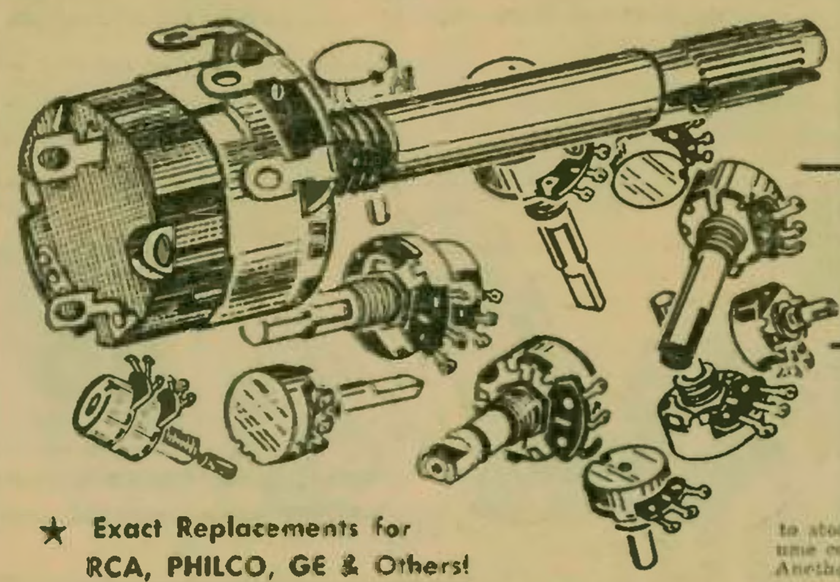
PLASTIC

| | | | |
|---|---|---|---|
| CA-289 | 3" | BLONDE | $ .99 |
| CA-290 | 3" | WALNUT | .99 |
| CA-291 | 3" | MAHOG. | .99 |

Legs of all sizes and finishes. Ideal for building end tables, etc. Some are finished some are unfinished and can be painted to match your furniture. Approx. shipping wt. 4 lbs.

# VOLUME CONTROL KIT

Name Brands Such As . . . MALLORY — CENTRALAB



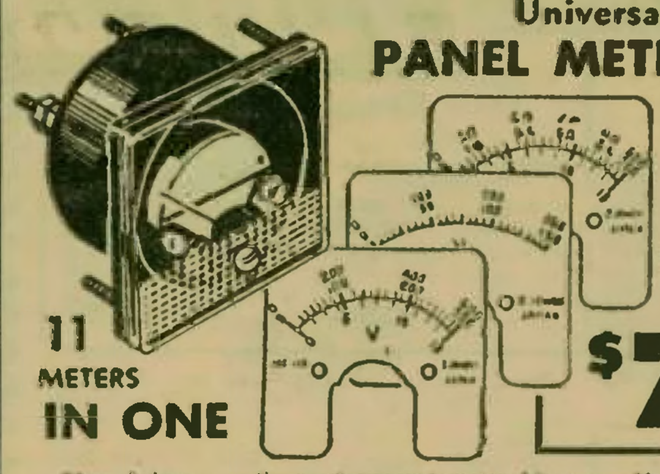
★ Exact Replacements for RCA, PHILCO, GE & Others!

★ KIT OF 12

No. VC-274
6 Kits, $5
ALL 12 . . . 99¢

12 assorted volume controls. Many well known brands such as Centralab, Mallory and others. Many are exact replacements for RCA, Philco, G.E. and other radios, phones and TV's. Various shaft lengths and diameters. Some include switches. Most are carbon controls but some wire wound types are also included. Here's a real opportunity to stock up on a fine assortment of name brand volume controls, at a fraction of the manufacturers cost. Another true Olson bargain. Shipping weight ½ lb.

## Universal PANEL METER KIT



11 METERS IN ONE

AC VOLTMETER
DC VOLTMETER
DC MILLIAMETER
2¼" METER

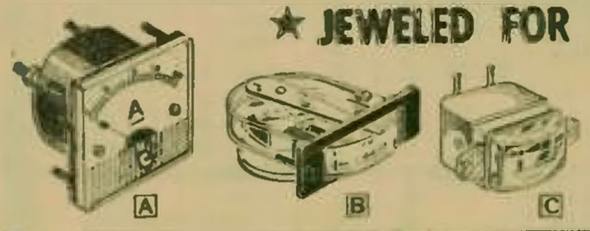
No. ME-119
$7.99

Olson brings you the most unusual meter kit ever offered. Basically the meter is a precision 2-jewel 0-1 ma. movement. It comes complete with all resistors, adaptor boards, meter faces, hardware and instructions to make 11 different panel meters. Olson even supplies the screwdriver to put it together. The following meters can be made with this kit: AC voltmeter, range: 0-15 V., 0-150V., 0-300 V. DC milliammeter, range: 0-1 ma., 0-50 ma., 0-100 ma., 0-500 ma. DC voltmeter range: 0-15 V., 0-150 V., 0-300 V., 0-600 V. With the simple step-by-step instructions included you can make almost any meter you need. Meter can be changed from one type to another quickly and conveniently. Shipping weight 2 lbs.

Extra Meter for Above Kit, No. ME-115 ..... $4.95

# Olson PANEL METERS

★ JEWELED FOR EXTENDED LIFE!

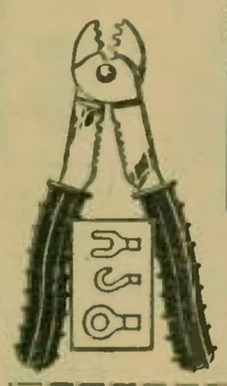


A B C

A complete line of high quality meters at a "value-plus" price. Each meter is carefully packed complete with mounting and operating instructions. These fine meters can be used whenever a rugged compact meter is required. Order now! Shipping weight ¼ lb ea.

| TYPE | STYLE | SIZE | RANGE | INT. RES. | STK. NO. | PRICE |
|---|---|---|---|---|---|---|
| DC Microammeter | A | 1⅝x1⅛x1⅞" | 0-50 DC μa | 900 ohms | ME-100 | $5.95 |
| | A | " | 0-500 DC μa | 195 ohms | ME-101 | 4.95 |
| DC Milliammeter | A | " | 0-1 DC ma | 75 ohms | ME-97 | 3.95 |
| | A | " | 0-50 DC ma | 3.1 ohms | ME-98 | 3.95 |
| | A | " | 0-100 DC ma | 3.1 ohms | ME-99 | 3.95 |
| DC Ammeter | A | " | 0-20 DC amp | 3.1 ohms | ME-96 | 3.95 |
| DC Voltmeter | A | " | 0-15 DC V. | 15K ohms | ME-102 | 3.95 |
| | A | " | 0-150 DC V. | 150K ohms | ME-103 | 3.95 |
| | A | " | 0-300 DC V. | 300K ohms | ME-104 | 3.95 |
| AC Voltmeter | A | " | 0-15 AC V. | 15K ohms | ME-105 | 4.50 |
| | A | " | 0-150 AC V. | 150K ohms | ME-106 | 4.50 |
| | A | " | 0-300 AC V. | 300K ohms | ME-107 | 4.50 |
| "S" Meter | A | " | 500 μa | XXXX | ME-108 | 4.50 |
| | B | 1⅝x1⅛x1⅛" | 500 μa | | ME-109 | 4.95 |
| "VU" Meter | A | 1⅝x1⅝x1⅞" | 100 ma | 3.9K ohms | ME-110 | 5.95 |
| | B | 1⅝x1⅛x1⅛" | 100 ma | 3.9K ohms | ME-111 | 5.95 |
| FM Tuning Meter | C | ⅞ x ⅝ x ⅜" | XXXX | 1.3K ohms | ME-112 | 3.95 |

## CRIMPING TOOL WITH TERMINALS



★ Cuts Wire
★ Strips Wire
★ Crimps Terminals

$1.49 No. TL-369
3 for $4.00
Lots of 12, Ea. $1.25

Made of tempered tool steel, chrome plated with insulated handles. Size: 8⅜" long. Includes generous assortment of terminals. Shipping weight ½ lb.

Package of 41 Assorted Terminals
No. TL-376 ..... Per Pack $1.00

## Portable LAMP



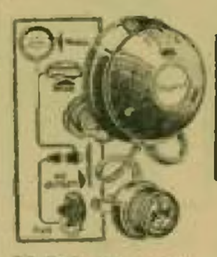
6 FT. CORD

Made in U.S.A.

No. X-617
$1.72
3 for $5

The handiest lamp ever. Just clamp onto anything. Position it over your work area. Move it about as you move. Has 4¾" dia. reflector and 6 ft. A.C. cord. Shipping weight 2 lbs.

## Temptrol Automatic FAN CONTROL



No. SW-280
ONLY $4.99

Thermostatic Operation
MADE IN U.S.A.

STARTS fan when room gets warm. | TURNS FAN OFF when room cools.

New automatic temperature control for all types of fans. No wires to connect, just plug "Temptrol" into any wall outlet and plug your fan into the outlet on the "Temptrol". Dial desired temperature and let "Temptrol" keep you cool automatically. Move from room to room wherever you use a fan, bedroom, kitchen or family room. 110-125 volts A.C., 60 cps. Shipping weight 1½ lbs. Limited Supply.

## Westinghouse 5 Pack TUBE KIT




Brand NEW

No. AS-817
LOTS OF 3 KITS, EACH
$2.50
Single Kit, $2.99

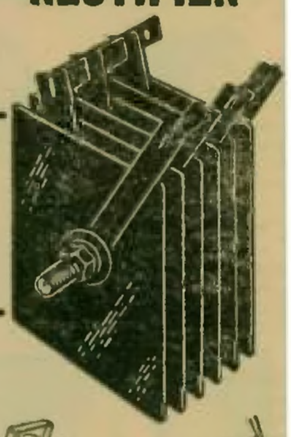
Each kit contains 5 brand new Westinghouse tubes—1 each as listed: 35W4, 50C5, 12BA6, 12AV6, 12BE6. Most common types for AC-DC house radios. Shpg. wt. ¾ lb.

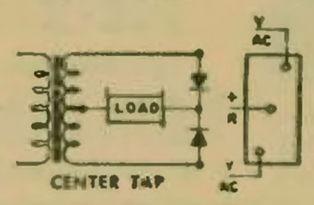
## INTERNATIONAL RECTIFIER BATTERY RECTIFIER

★ 100 AMP.
★ FOR 6 and 12 VOLT

Mfg. Type No. JD4245B. Exact replacement for all fast charge 6 and 12 volt battery chargers. Delivers up to 100 amps. Brand new, heavy duty selenium rectifiers made by a nationally famous manufacturer. Size of plates 5" x 6" x ⅞" thick. Equipped with mounting stud. Shpg. wt. 4 lbs.

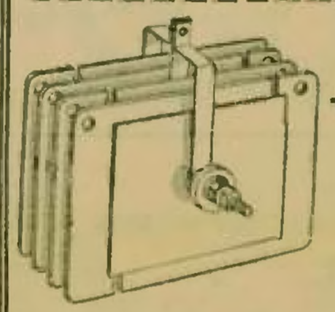
No. X-499
$14.47
3 for $40.00
12 @ $12.50 Ea.






Ideal for Replacement or "Do-It-Yourself" Units





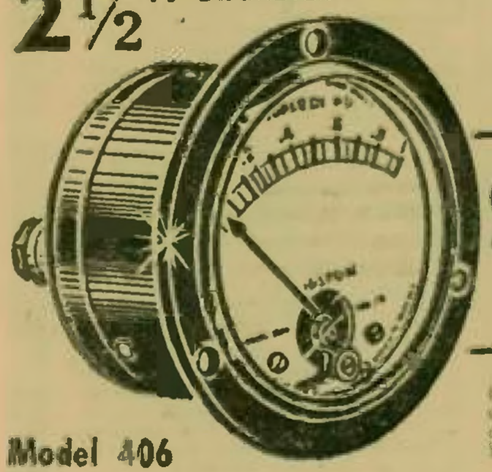
## 100 AMP BATTERY RECTIFIER FOR 6 AND 12 VOLT



No. RE-68
$8.93
3 for $24

Similar to above except has smaller plate area. Brand New Factory Boxed. Size: 4½" x 6" x 3". Shpg. wt. 3 pounds.

## 2½" DIAMETER WESTON 0-1 MA. Meter

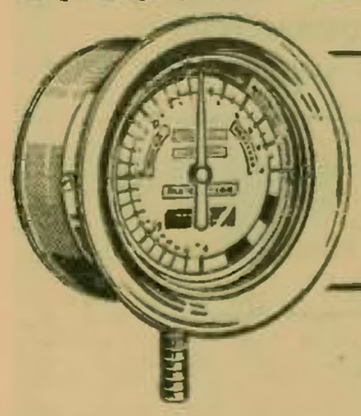


Model 406

$3.98
No. ME-122

Genuine Weston Meter, Model Number 506. Scale 0 to 1 ma. Internal resistance 26 ohms. By adding appropriate resistors you can make any range meter you need. Mounts in 2⅜" round hole. Shpg. wt. 1 lb.

## Vacuum & Pressure Tester

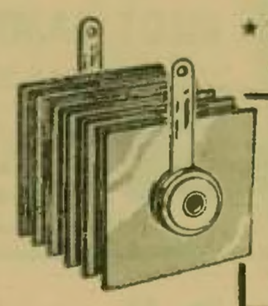


No. ME-125
$1.49
3 for $4

★ BIG 3" DIAL
★ All Metal Case

Large 3" dial type compound, reads 0 to 30 inch vacuum and 0 to 5 lbs. pressure. Has two color dial. Use for tune-up work such as more exact ignition timing, locating burned or sticking valves, defective rings, choked mufflers, defective choke and throttle valves on carburetors. Also used on fuel pump vacuum and pressure tests to indicate condition of fuel pump. Shipping weight 2 lbs.

## 500 MA Selenium RECTIFIER

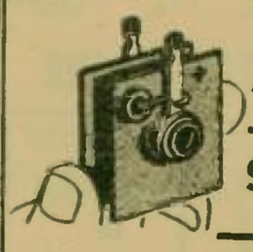


★ Fills 90% of All Needs

No. RE-67
89¢
3 for $2.50
10 @ 73c ea.

New tri-density selenium gives greater current output and smaller physical size. (Only 1⅝" x 1⅛" x 1"). Individually factory boxed. Shipping weight ¼ lb.

## Silicon "UNISTAC"



$1.68 No. RE-34

Mfgrs. Type: TV-500. RMS A.C. Input: 280 Volts. Peak Inverse Voltage: 400 Volts. Output D.C. Current: 750 MA. Size: 1½" x 1½" x 1". Shipping weight ¼ lb.

Elect. Serv. Co., Chas. L. Houch, Jr., 1624 Park Ave., Lynchburg, Va., wins choice of merchandise worth $5 from Olson's "Treasure Hunt". See back cover for instructions.

## Hi-Density SELENIUM RECTIFIERS



★ Provide More Power in ½ The Size
★ RMS A.C. Input 130 Volts

Mfgrs. Type: TO65 075 Size: 1⅛x1⅛x½"
Replaces: Any Rectifier up to 75 MA
Shipping weight ½ lb.
No. RE-35 ..... Ea. 44c

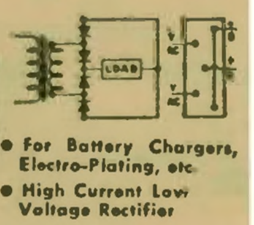
## Sarkes Tarzian SILICONE DIODE



1.5 amp. 500 PIV. AC RMS 140. ½" dia. x ⅝" deep. With 1½" leads. Shpg. wt. ½ lb.
2 for $1.00
No. RE-79 ..... Ea. 59c

## Selenium Bridge Rectifiers

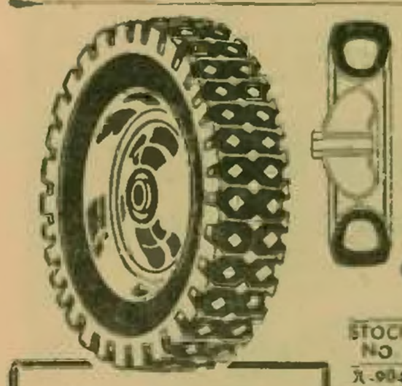





- For Battery Chargers, Electro-Plating, etc.
- High Current Low Voltage Rectifier

Mfgrs. Type: M18
A.C. Input Voltage: 25 volts
D.C. Current Output: 1-2 amps
Size: 2"x2"x3⅛"
Shpg. wt. ¼ lb.
No. RE-2 3 for $4.50 ..... $1.69

## 6"–7"–8" WHEELS



★ ALL METAL OFFSET WHEELS

- Semi-Pneumatic
- Deep Tread

SELF-LUBRICATING BEARING

| STOCK NO. | BEARING BORE | DIAMETER & TIRE WIDTH | HUB LENGTH | PRICE EACH | LOTS OF 4, EACH |
|---|---|---|---|---|---|
| X-904 | ½" | 6"x1½" | 1½" | .89 | .79 |
| X-903 | ½" | 7"x1½" | 1⅜" | .72 | .72 |
| X-898 | ½" | 8"x1½" | 1⅜" | .99 | .86 |

STEEL BALL BEARING

| STOCK NO. | BEARING BORE | DIAMETER & TIRE WIDTH | HUB LENGTH | PRICE EACH | LOTS OF 4, EACH |
|---|---|---|---|---|---|
| X-905 | ½" | 6"x1½" | 1½" | $1.29 | $1.17 |
| X-906 | ½" | 7"x1½" | 1¾" | 1.39 | 1.25 |
| X-907 | ½" | 8"x1½" | 1½" | 1.49 | 1.37 |

Shipping Weight 3 lbs. Ea.

7" WHEEL
AS LOW AS 72¢ EACH
32

## Photo Electric CONTROL CHASSIS

★ Cadmium Sulfide Photo Cell
★ For 117 Volt



★ Sigma Relay

No. SW-284
$2.49

Can be easily adapted to turn yard lights and advertising signs on at dusk and off in the day time. Sensitivity can be adjusted by sliding screen on the photo cell. Features a genuine signal relay with double break S.P.S.T. contacts. Units are used but in excellent working condition. Complete, assembled ready to connect and use. Appearance may vary slightly from illustration. Size, 3" dia. x 2" above chassis. For 110-125 volts AC, 60 cps. Shipping weight 2 lbs.

## PARTS VALUE—Photo Electric Control Chassis

A wonderful buy of parts, transformers, relays, controls, etc. All parts OK but units not operable. Buy now & save. Used. Shipping weight 4 lbs.

BUY NOW! 99¢ No. X-895
$1.32 in 763 Cat.

# CLOSE OUTS

**OK-UP WIRE,** kit of 500 ft. Assorted colors. Includes solid and stranded types. Insulation is rubber, cotton or vinyl. Shipping weight 1½ lbs.
No. AS-135 ..... **$1.99**

**NT SURPRISE KIT,** may contain transformers, motors, relays, capacitors, resistors, controls, wire and many other items. Shipping weight 20 lbs.
No. AS-700 ..... **$5**

**E CARTRIDGE KIT,** all mechanical parts to assemble a standard tape cartridge (less tape). With instructions.
No. TA-48 ..... **$1**

**NA-PLUG, TV** Antenna. Plugs into wall outlet to use house wiring for antenna. Shipping weight 2 lbs.
No. AA-109 ..... **$1.19**

**RTS BARGAINS.** TV tuners of all kinds. Most are in working condition but lack tubes. Ideal for replacement parts. Shipping weight 3 lbs.
No. TV-109 ..... **$1.99**

**LL TELEPHONE,** made by Automatic Electric Co. Has separate ear phone. Shipping weight 8 lbs.
No. PM-89 ..... **$2.50**

**PE RECORDER MOTOR** 4 pole, fully enclosed motor for tape recorder or turntable. Size 2¾x2¾x2¼" with ⅜" long shaft and pully. 110-125 volts AC.
No. MO-94 ..... **$2**

**AKER ENCLOSURE,** for 12" speaker. Slim-line design. Size: 25" x 19" x 10¼". Fiber glass lined interior. Finished with wood grained synthetic material. Shipping weight 20½ lbs.
No. CA-251 Walnut
Was $19.50 in 263) ..... **$14**
No. CA-252 Mahogany
Was $19.50 in 263) ..... **$14**

**ING MOTOR 1/30 RPM.** Self Starting with built-in gear train. For 110-125-volt A. C., cps. Shipping wt. ½ lb.
No. MO-73 ..... **3 for $2**

**BCOR 4-SPEED CHANGER** Has heavy-duty 4-pole motor and GE magnetic stereo cartridge. Completely assembled and mounted on a metal base, with all cables. Shipping weight 14 lbs.
No. RP-244 ..... **$24.95**

**LEAD-IN INSULATORS,** 1½" length with strap to fasten to mast.
No. X-260 ..... pkg. of 25 **$1**

**BULAR CAPACITOR,** Value .1 mfd x 00 volts, compact size, ideal for transistor circuits. Only ¾" x ¼". Poly jacket. ¼ lb.
No. C-874 ..... **6 for $1**

**.TER CONDENSER,** can type with twist prongs. 500 + 250 + 50 @ 16 volts DC. Ideal for low voltage power supplies. Shipping weight ½ lb.
No. C-904 ..... **3 for $1**

**TOR,** Heavy duty squirrel cage design with shaded poles. Ideal for experimenters and students. Operates on 95 volts AC @ 60 cps. Shipping weight 4 lbs.
No. MO-75 ..... **99c**

**TOR,** Heavy duty squirrel cage design with shaded poles. Ideal for experimenters and students. Operates on 90 volts AC @ 60 cps. Shipping weight 4 lbs.
No. MO-76 ..... **2 for $1**

**LENIUM BRIDGE RECTIFIER.** 25 volts 1.2 amps. Shipping weight ¼ lb.
No. RE-80 ..... **$1**

**VOLT RELAY.** Hermitically sealed. SPST contacts. Has 1 foot of 4 conductor cable. Shipping weight 3 lbs.
No. SW-197 ..... Kit of **4 for 66c**

**ON INDICATOR LAMPS,** kit of 10 snap-on neon indicators. Mounts in ⅝" x ¾" hole. 117 volts AC. 1 lb.
No. AS-811 ..... **$1**

**LOT LAMP SOCKETS,** kit of 20 standard screw base pilot lamp socket. ¼ lb.
No. PL-98 ..... **50c**

**LLING KADDY,** aluminum kaddy holds a supply of billing forms. Size: 10x6½" Has self storing compartment. 2 lb.
No. F-2 ($3.49 in 165 catalog) ..... **$2**

**ENERAL ELECTRIC NE-2,** Neon Lamp. Requires 50,000 OHM Resistor for 117 Volt operation.
No. PL-51 100 for $5.88 Pkg. of 15 **$1**

**RINTED CIRCUIT SOCKETS.** Kit of 10. pin sockets for printed circuit boards. ½ lb.
No. KB-155 ..... **2 kits for $1**

**LEPHONE LAMP.** Attractive old style upright telephone, brass plated and made into lamp (less shade). 6 lb.
No. PH-78 ($19.95 in 562 cat.) ..... **$14**

**ALLORY ½ WAVE RECT.,** selenium AC input 130 volts. DC output 300 MA. ¼ lb.
No. RE-52 (69c in 761 cat.) ..... **3 for $1**

**ALLORY ½ WAVE RECT.,** selenium AC input 175 volts. DC output 250 MA. ¼ lb.
No. RE-54 (89c in 761 cat.) ..... **4 for $1**

**JOB KIT,** 25 assorted sizes and types. Ideal replacements for radio, TV or phono.
No. AS-482 ..... **66c**

**NIATURE ELECTROLYTIC CONDENSER,** 4 MFD. @ 50V. Ideal for transistor circuits. Only ⅞" long x ¼" dia. Poly jacket.
No. C-176 ..... **20 for $1**

**A 6" PM SPEAKER,** extra heavy duty magnet for greater power capacity. 3 lb.
No. S-536 ..... **$1.49**

**USE KIT,** 6 assorted fuses. Slow blow, ¼ lb.
No. FU-7 (99c in 563 cat.) ..... **76c**

**LTER CONDENSER** 60-40 MFD x 150 v. ¼ lb.
No. C-996 (Tubular type) ..... **3 for $1**

**LECTROLYTIC CAPACITOR,** can type Twist prongs. 15 + 15 @ 350 volts. ½ lb.
No. C-927 (89c in 162 Cat.) ..... **3 for $1**

# YOUR CHOICE 66¢

ALL SENSATIONAL BARGAINS!

**2% Precision Resistors ..... 66c**
Kit of 25 No. R-52
Each marked with resistance. Values from low, low ohms to many million ohms. Shipping weight ¼ lb.

**Push Switches ..... 66c**
Kit of 5 No. AS-473
Five S.P.S.T. miniature push switches, spring return. Size: ¾" x ⅝". Shpg. wt. ¼ lb.

**9'x12' Dropcloth ..... 66c**
No. TL-253
Sturdy seamless transparent plastic can be used for table spread, to protect indoor and outdoor furniture. ½ lb.

**Inline ¼" Jacks ..... 66c**
Kit of 3 No. PL-61
Inline ¼" phone jacks. Fit all standard ¼" phone plugs. Size: ⅝" x 1½" long. ¼ lb.

**Mike Transformer ..... 66c**
No. T-348
Miniature mike transformer. Primary 5 ohm, secondary 300 ohms with 30 ohm tap. Size: ¾"x⅝"x½". ¼ lb.

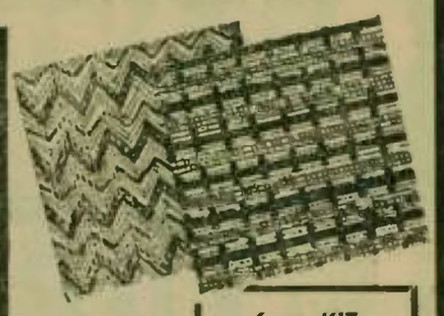
**Dynamic Earphone 66c**
2000 Ohms No. PH-77
3 ft. of cord and plug. Response to 4,000 cycles. Shipping weight ¼ lb.

**Assorted Knobs 66c**
★ Kit of 25, No. AS-482
25 assorted knobs for radio and TV replacement. Variety of styles and colors. Shipping weight 2 lbs.

**Microswitches ..... 66c**
KIT of 5 No. SW-166
Kit of 5. May be assorted. Shipping weight ¼ lb.

**7 Pin Sockets ..... 66c**
Kit of 15 No. AS-570
Kit of 15 — 7 pin miniature tube sockets. Wafer type ceramic clean. Shipping weight ¼ lb.

## GRILLE CLOTH
★ 6-PIECE KIT ★



Different patterns and sizes in mahogany and blonde from 7" x 10" to 12". ¼ lb.

6 pc. KIT
**66c**
No. K-104

# YOUR CHOICE 99¢

4 FOR $3.50



**SAFE-T-GLUE ..... 99c**
★ 1 Pint No. TL-423
Cements wood, leather, cloth, china, etc. In handy poly-squeeze bottle with applicator top. Dries clear. 1 pint bottle. ¼ lb.

**Calibrated Knobs ..... 99c**
Kit of 4 No. KN-14
Grey finish with black numerals. Dial diameter: 1½" Fits ¼" shaft. ¼ lb.

**Clock Radio Knobs 99c**
Kit of 25 No. KN-12
Various colors for all makes and models of clock radios. 25 assorted colors. ¼ lb.

**MATCHED KNOBS 99c**
No. KN-8 Kit of 5
Matched set of 5 white knobs with polished gold inlay. Set screw type for ¼" dia. shaft. ¼ lb.

**Dial Cord ..... 99c**
100 Feet No. X-182
Finest nylon glass core. Standard thin .028 dia. ½ lb.

**PENLIGHT BATTERY HOLDERS ..... 99c**
Kit of 3 No. BA-91
Easy snap together construction. One each 4, 6 and 8 cell holders ¼ lb.

**Battery Holders 99c**
Kit of 10 No. BA-55
3 penlite, 3 miniature penlite, 3 flashlight and one 4 penlite cell holders. Shipping weight ¼ lb.

**Loopsticks 99c**
Kit of 3
No. L-75
Kit of 3. All directional radio antenna. Pulls in distant radio stations with remarkable ease. ¼ lb.

**Speaker Control 99c**
No. SW-133
Reduces volume of one speaker while gradually increasing volume of other speaker. With hardware. ¼ lb.

**BOTTLE LIGHT ..... 99c**
No. X-867
Make your own lamp. Socket, cord, plug and switch. Press-on fitting fits snugly into bottle. ¼ lb.

**Speaker Faders ..... 99c**
Kit of 3 No. VC-231
Permits control of both set speaker and remote speaker. 1⅛" diameter x 1" long. With instructions. Shipping weight ½ lb.

**Switches & Controls 99c**
Kit of 12 No. AS-485
12 assorted selector switches and volume controls. Shipping weight 2 lbs.

**ALLIGATOR CLIPS ..... 99c**
★ Kit of 14 No. AS-447
Kit of 14 insulated Alligator clips, 7 red clips and 7 black clips. Asst. sizes. ¼ lb.

**Transistor Sockets 99c**
Kit of 10 No. AS-444
Takes transistors with three contacts in line or triangle (JEDEC). Size: ⅝" x ¼" ¼ lb.

**Tube Sockets ..... 99c**
Kit of 6 No. AS-479
Kit of 6. Consists of 3 each miniature 7 pin and 9 pin tube sockets. Shipping weight ¼ lb.

**Terminal Strip Kit 99c**
No. AS-506
48 Pieces, 12 ea. 1 through 4 lugs. Solder type with mounting lug. ¼ lb.

**Plugs & Sockets ..... 99c**
6 Pairs No. PL-68
Assorted colors, ivory, red and black. Plug size: ¾" x ½". Receptacle. ½"x½". ¼ lb.

**A.C. Chassis Sockets 99c**
Kit of 8 No. X-303
Bag of 8. Rated for 117 volts, 10 amps. Mount in ½" x 15/16" hole. ¼ lb.

**A.C. Plugs ..... 99c**
Kit of 12 No. PL-58
Brown, black and grey rugged plugs. Rated for 117 volts 10 amps. ¼ lb.

**12 A.C. Plugs ..... 99c**
6 Sets No. W-349
6 male and 6 female sockets. Grey bakelite. 10 amps, 117 Volts. ¼ lb.

**Knife Switches ..... 99c**
Kit of 5 No. SW-155
Double pole, double throw knife switches with screw terminals. Size: 1½" x 2½". ¼ lb.

**Toggle Switches ..... 99c**
Kit of 3 No. SW-154
(SPST and DPDT). Rated @ 3 amps 125 volts. Size: 1⅛" x ¾". ¼ lb.

**Center-Off Toggle ..... 99c**
Kit of 2 No. SW-156
DPDT center off toggle switches. Rated 6 amps @ 125 volts or 3 amps @ 250 volts. Size: ¾" x 1¾" x ¾". ¼ lb.

**Slide Switches ..... 99c**
Kit of 6 No. SW-153
Assorted SPST, SPDT, DPST and DPDT. 1 amp. 125 volts. Size: ½" x ⅜" x 1¼". ¼ lb.

**Push Button SWITCH KIT ..... 99c**
No. SW-173
INCLUDES: cable, connectors, mounting plate, hardware and instructions. For rear seat speaker installations. Shipping weight ¼ lb.

**Clip Leads ..... 99c**
Kit of 10 No. X-804
10 leads 14" long with insulated miniature alligator clips attached one to each end. ¼ lb.

**Binding Posts ..... 99c**
Kit of 10 No. AS-439
Will take alligator clip, banana plug, tip plug, spade lug, or wire. ½ lb.

**Phono Cable ..... 99c**
35 Feet No. W-355
35 feet of shielded, extra flexible phono cable. Single center conductor. Shipping weight ¼ lb.

**AUDIO CABLE KIT ..... 99c**
No. AS-481
Consists of 3' audio lead with pin plug, other end tinned and stripped; 6' audio lead with pin pluga; 1 dual inline jack. ¼ lb.

**FLEXIBLE "Y" ADAPTOR KIT ..... 99c**
Kit of 2, No. W-423
Both have 1 male and 2 female connections with 3¾" flexible leads. Total length 5⅝". ¼ lb.

**Dual Inline Jacks 99c**
Kit of 4, No. AS-476
Dual inline phono jacks allow connection of two audio cables having phono pin plug ends. Size: ½" diameter x 1½" long. ¼ lb.

**Lug Terminals ..... 99c**
Kit of 13 No. AS-438
Size: ⅝" x ⅝" lengths: 1½" 2⅛" & 2¾". ¼ lb.

**Phono Pin Plugs 99c**
Kit of 5 No. PL-57
All metal. New design makes soldering easy. Size: ⅜" diameter x 1⅝" long. ¼ lb.

**Phono Pin Plugs & Jacks ..... 99c**
3 Pairs
No. AS-440
3 plugs and jacks for making audio connections. Size: ⅜" diam. x 1⅝" long. ¼ lb.

**Pin Plugs & Jacks ..... 99c**
4 Pairs No. PL-70
2 red, 2 black.
Knurled nut tightens against wire making soldering unnecessary to pin plugs. Jacks mount in ⅜" hole. ¼ lb.

**Phone Plug Sets ..... 99c**
2 Pairs No. PL-91
Two pair of male and female ¼ inch phone jacks and plugs. Color coded black and red identification. ¼ lb.

**Phone Plug Adaptors 99c**
Kit of 2 No. AS-471
Convert standard ¼" phone plugs to RCA type phono plug. Size: 1" diameter x 2¼". ¼ lb.

**Phono Pin Jacks ..... 99c**
Kit of 6 No. AS-441
Kit of 6. Takes RCA type pin plug. Mount on single ¼" hole. Plated. Size: ⅜" x ⅜" Shipping weight ¼ lb.

**"Y" Adaptor Kit ..... 99c**
Kit of 2 No. X-817
One has 3 female connections, other has 2 female and 1 male connection. For many hi-fi uses. Size: 1¾"x1¾". ¼ lb.

**Miniature Plugs & Jacks 99c**
6 Pairs No. AS-442
6 assorted pairs. Jacks are closed circuit type. Ideal for transistor earphones and receivers. ¼ lb.

**PLUGS & JACKS 99c**
Kit of 4 pairs No. PL-63
Kit of 4 pairs banana plugs and jacks. 2 red pairs and 2 black pairs With soldering lug. Shipping weight ¼ lb.

**Miniature Phone Plugs & Jacks 99c**
3 PAIRS No. AS-642
Kit of 3 pairs of miniature, shielded, phone type plugs, and shorting jacks. Ideal for remote speaker hookups, small microphones and many other uses. ¼ lb.

**SHIELDED Phone Plugs ..... 99c**
Kit of 2 No. AS-477
Kit of 2 shielded standard ¼" phone plugs. Plated all metal barrel. Screw terminals. ¼" shaft. Barrel 1⅝" x ½". ¼ lb.

**Phono Plug Adaptors ..... 99c**
Kit of 3, No. AS-470
Kit of 3 inline adaptors to convert RCA type phono plug to standard ¼" phone plug. Size: ½" dia. x 2⅞". ½ lb.

**¼" PHONE PLUGS ..... Per Kit 99c**
★ KIT OF 4
No. X-253 4 for $3.50
Plugs into ¼" phone jack. ½ lb.

**¼" PHONE JACKS 99c**
★ Kit of 5 No. AS-445
Open and closed circuit. Takes any standard ¼" phone plug. ¼ lb.

**Goodyear Pliobond 99c**
No. TL-276
Cements anything, metals, woods, glass, fabrics, etc. Also can be used as a liquid "Spaghetti." ½ pint can. ½ lb.

## Wedge Grip LAMP & SOCKET

12 v. @ .24 amps.
KIT OF 4
NEW



New all glass lamp with wedge grip contacts. GE number 158 bulb. Ideal for hard to reach places. Shipping weight ½ lb.

No. PL-99
**99c**

**Panel Indicators ..... 99c**
No. PL-65—KIT OF 2
(1 red, 1 green) with 6 volt bulbs ⅝" dia. x 1" long. ½ lb.
Extra Lamps, No. PL-66, 10 for 99c

**NEON PILOT LIGHTS ..... 99c**
Kit of 3 No. KB-90
With neon lamp, jewel and socket. Operates on 115 volts. ⅝" dia. x 1⅝". Requires dropping resistor 100,000 ohms. 2-Red, 1-Yel. Shpg. wt. ¼ lb.

**Pilot Lights ..... 99c**
Kit of 5 No. PL-64
Jeweled pilot light assemblies with bayonet base sockets. 2 with red jewels, 2 with green and 1 amber. ½ lb.

**15-Ohm Earphones ..... 99c**
Kit of 2 No. PH-36
Response 50 to 4,000 CPS. Size: ⅝" x ⅜"diameter. ¼ lb.

**Midget Soldering Iron ..... 99c**
30 Watts No. TL-119
Only 8½" Long
Only ⅝" dia. 5-ft. cord with molded plug. For printed circuit.
110-125 volts AC or DC. ½ lb.

**Jeweler's Screwdrivers 99c**
No. TL-118
Five-piece set. 7 blades measuring .080, .070, .055, .040 and .025. ¼ lb.

**6" Diagonal Cutters 99c**
No. TL-7
6-in. heavy duty; cuts the finest to the toughest wire. Shpg. wt. ¼ lb.

**Needle Nose Pliers ..... 99c**
6" Bent
No. TL-247
Nose is bent 90° to get into small spaces and corners. ¼ lb.

**6" Needle Nose Pliers 99c**
No. TL-5
With side cutters. For Radio and TV repair. 6 inches long. ¼ lb.

**Insulated Tube Puller 99c**
Bent Type
No. TL-295
7¼" long. Removes tubes from cramped areas. Shpg. wt. ¼ lb.

**Insulated Tube Puller 99c**
Straight Type
No. TL-294
7½" long for cramped areas. ¼ lb.

**Insulating Tape ..... 99c**
★ Two 33' Rolls No. TA-5
2 rolls of ¾" wide, self-sticking plastic insulating tape. 2 colors: one roll red, one roll black. ¼ lb.

**ELECTRICIAN'S TAPE ..... 99c**
66-ft. roll No. TL-268
¾" plastic self-sticking electricians tape. Shipping weight ¼ lb.

Eden Prairie Schools, Attn. Business Manager, 8100 School Rd., Hopkins, Minn., wins choice of merchandise worth $6 from Olson's "Treasure Hunt." See back cover for instructions.

**Olson Electronics** AKRON OHIO **33**

# RAYTHEON

## New! TUBES

★ Individually Factory Boxed




35W4 TUBE

**39¢**

ORDER NO. Z-274

| TUBE TYPE | ORDER TUBES BY THESE NO'S. |
|---|---|
| 5U4GB | No. Z-267 |
| 6AU6A | No. Z-268 |
| 6CB6A | No. Z-270 |
| 6CG7 | No. Z-271 |
| 12AU7 | No. Z-273 |
| 50C5 | No. Z-275 |

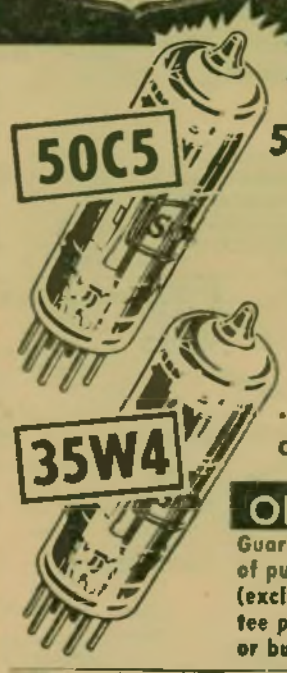
**YOUR CHOICE 79¢ EACH**

6AX4GTB No. Z-269. ____ **99c** 6SN7GTB No. Z-272 ____ **99c**

MADE BY RAYTHEON INTERNATIONAL

# Shield TUBES

MADE IN U.S.A.




YOUR CHOICE 50C5 or 35W4

## FREE

. . . with each purchase of any 8 Shield Brand Tubes!

**ONE YEAR GUARANTEE**

Guaranteed for a full 12 months from the date of purchase. We will replace any defective tube (exclusive of freight charges) within the guarantee period. This does not apply to broken tubes or burned out filaments.

| TUBE TYPE | PRICE EACH | TUBE TYPE | PRICE EACH | TUBE TYPE | PRICE EACH | TUBE TYPE | PRICE EACH | TUBE TYPE | PRICE EACH |
|---|---|---|---|---|---|---|---|---|---|
| 1B3/1G3 | $ .89 | 5U4GB | $ .60 | 6BQ6 | $1.12 | 6GX6 | $ .66 | 12BE6 | .38 |
| 1J3 | .79 | 5U8 | .84 | 6BQ7 | 1.30 | 6HS8 | .82 | 12BH7 | .77 |
| 1K3 | .79 | 5Y3 | .46 | 6BS8 | 1.60 | 6J6 | .71 | 12BL6 | $ .57 |
| 1R5 | .77 | 6AB4 | .54 | 6BU8 | .70 | 6S4 | .62 | 12BQ6 | 1.34 |
| 1U5 | .65 | 6AC7 | 1.22 | 6BX7 | 1.32 | 6SL7GT | .84 | 12BY7 | .77 |
| 1X2 | .95 | 6AF4 | 1.01 | 6BZ6 | .55 | 6SN7GTB | .79 | 12BZ7 | .86 |
| 2AF4 | 1.14 | 6AG5 | .70 | 6BZ7 | 1.20 | 6T8 | .98 | 12D4 | .82 |
| 2CY5 | .71 | 6AH4 | .81 | 6C4 | .45 | 6U8 | .83 | 12DQ6 | 1.06 |
| 3A3 | .76 | 6AH6 | 1.10 | 6CB6 | .55 | 6V6 | .53 | 12SN7GT | .81 |
| 3AL5 | .46 | 6AK5 | 1.20 | 6CD6GA | 1.51 | 6W4 | .75 | 12V6 | .63 |
| 3AU6 | .56 | 6AK6 | .98 | 6CG7 | .61 | 6W6 | .80 | 12W4 | .71 |
| 3AV6 | .42 | 6AL5 | .52 | 6CG8 | .80 | 6X4 | .41 | 12X4 | .56 |
| 3BC5 | .63 | 6AM8 | .78 | 6CL8 | 1.00 | 6X8 | .97 | 13EM7 | 1.08 |
| 3BN6 | .76 | 6AN8 | .93 | 6CM7 | .80 | 7AU7 | .65 | 17AX4 | .67 |
| 3BU8 | .71 | 6AQ5 | .53 | 6CN7 | .70 | 8FQ7 | .74 | 17DQ6 | 1.06 |
| 3BY6 | .58 | 6AS5 | .96 | 6CQ8 | .92 | 12AB5 | .72 | 19AU4 | .87 |
| 3BZ6 | .56 | 6AU6 | 1.10 | 6CS6 | .68 | 12AD6 | .57 | 19T8 | 1.02 |
| 3C86 | .56 | 6AU6 | .65 | 6CU5 | .70 | 12AE6 | .50 | 25BQ6 | 1.40 |
| 3DG4 | .85 | 6AU8 | .88 | 6CY5 | .70 | 12AQ5 | .72 | 25C5 | .58 |
| 3DK6 | .72 | 6AV6 | .53 | 6CY7 | .86 | 12AT6 | .60 | 25CD6GB | 1.52 |
| 3DT6 | .54 | 6AW8 | .90 | 6DA4 | .68 | 12AT7 | .75 | 25DN6 | 1.70 |
| 4AU6 | .64 | 6AX4 | .83 | 6DE6 | .61 | 12AU6 | .48 | 25L6 | .57 |
| 4BC8 | 1.29 | 6BA6 | .56 | 6DK6 | .59 | 12AU7 | .75 | 35C5 | .48 |
| 4BQ7 | 1.29 | 6BC5 | .62 | 6DQ5 | 2.28 | 12AV6 | .38 | 35W4 | .42 |
| 4BZ6 | .56 | 6BC8 | 1.14 | 6DQ6 | 1.05 | 12AV7 | .98 | 35Z5GT | .60 |
| 4BZ7 | 1.29 | 6BE6 | .55 | 6DT6 | .53 | 12AX4 | .85 | 50C5 | .63 |
| 4CB6 | .56 | 6BG6GB | 1.70 | 6EA8 | .67 | 12AX7 | .61 | 50EH5 | .53 |
| 5AM8 | .79 | 6BH6 | .68 | 6EB8 | .94 | 12AZ7 | .82 | 50L6 | .60 |
| 5AN8 | .90 | 6BH8 | .98 | 6EM7 | 1.08 | 1284 | .68 | 7025 | .82 |
| 5AQ5 | .54 | 6BJ6 | .65 | 6EW6 | .57 | 12BA6 | .38 | | |
| 5AT8 | .83 | 6BK7 | .85 | 6FQ7 | .76 | | | | |
| 5BK7 | .86 | 6BL7 | 1.09 | 6GH8 | .67 | | | | |
| 5BQ7 | 1.20 | 6BN6 | .74 | 6GK5 | .82 | | | | |
| 5CG8 | .81 | 6BN8 | .80 | 6GM6 | .68 | | | | |
| 5C8 | .76 | 6BQ5 | .59 | 6GN8 | 1.20 | | | | |

**ORDER NOW!**



# BRAND NEW - FACTORY SEALED

# Westinghouse TUBES

## ONE YEAR GUARANTEE

Brand new. All tubes are guaranteed for a full 12 months from the date of purchase. We will replace any defective tube (exclusive of freight charges) within the GUARANTEE period. This does not apply to broken tubes or burned out filaments.

| TUBE TYPES | MFRS. LIST PRICE | YOUR COST 1 - 10 Each | YOUR COST 11 - Up Each |
|---|---|---|---|
| OZ4 | 2.40 | 1.18 | 1.01 |
| 1B3/1G3/GT | 2.90 | 1.42 | 1.21 |
| 1K3 | 2.90 | 1.42 | 1.21 |
| 1R5 | 3.05 | 1.50 | 1.28 |
| 1S5 | 2.90 | 1.42 | 1.21 |
| 1T4 | 2.90 | 1.42 | 1.21 |
| 1U4 | 2.90 | 1.42 | 1.21 |
| 1U5 | 2.65 | 1.30 | 1.11 |
| 1V2 | 2.10 | 1.03 | .88 |
| 1X2B | 3.05 | 1.50 | 1.28 |
| 2AF4-A | 4.05 | 1.98 | 1.70 |
| 3BN4 | 2.55 | 1.25 | 1.07 |
| 3CY5 | 3.05 | 1.50 | 1.28 |
| 3A3 | 3.40 | 1.66 | 1.42 |
| 3AL5 | 2.05 | 1.00 | .86 |
| 3AU6 | 2.35 | 1.15 | .98 |
| 3BC5 | 2.35 | 1.15 | .98 |
| 3BN6 | 3.85 | 1.89 | 1.61 |
| 3BU8 | 3.10 | 1.51 | 1.29 |
| 3BZ6 | 2.30 | 1.13 | .97 |
| 3C86 | 2.25 | 1.10 | .94 |
| 3DG6 | 3.40 | 1.66 | 1.42 |
| 3DT6 | 2.20 | 1.08 | .92 |
| 3S4 | 3.20 | 1.56 | 1.33 |
| 3V4 | 2.50 | 1.22 | 1.05 |
| 4BC8 | 4.05 | 1.98 | 1.70 |
| 4BQ7-A | 4.00 | 1.96 | 1.68 |
| 4BZ6 | 2.25 | 1.10 | .94 |
| 4CB6 | 2.30 | 1.13 | .96 |
| 5AM8 | 3.55 | 1.74 | 1.49 |
| 5AQ5 | 2.20 | 1.08 | .92 |
| 5AT8 | 3.70 | 1.81 | 1.55 |
| 5B8 | 5.30 | 2.60 | 2.22 |
| 5BK7A | 3.40 | 1.66 | 1.42 |
| 5BR8 | 3.65 | 1.79 | 1.53 |
| 5CG8 | 3.35 | 1.64 | 1.40 |
| 5CL8A | 3.35 | 1.64 | 1.40 |
| 5T8 | 3.40 | 1.66 | 1.42 |
| 5U4-GB | 2.10 | 1.03 | .88 |
| 5U8 | 3.30 | 1.62 | 1.38 |
| 5V4GA | 3.50 | 1.71 | 1.47 |
| 5X8 | 3.45 | 1.69 | 1.45 |
| 5Y3GT | 1.75 | .86 | .73 |
| 6AB4 | 2.15 | 1.05 | .90 |
| 6AC7 | 5.10 | 2.50 | 2.14 |
| 6AF4-A | 4.00 | 1.96 | 1.68 |
| 6AG5 | 2.75 | 1.35 | 1.15 |
| 6AH4GT | 3.45 | 1.69 | 1.45 |
| 6AH6 | 4.65 | 2.28 | 1.95 |
| 6AK5 | 4.40 | 2.15 | 1.84 |
| 6AK6 | 2.90 | 1.42 | 1.21 |
| 6AL5 | 1.85 | .91 | .78 |
| 6AM3A | 3.45 | 1.69 | 1.45 |
| 5AN8A | 4.00 | 1.96 | 1.68 |
| 6AQ5A | 2.35 | 1.15 | .98 |
| 6AQ7GT | 4.00 | 1.96 | 1.68 |
| 6AS5 | 2.40 | 1.18 | 1.01 |
| 6AS8 | 3.80 | 1.86 | 1.59 |
| 6AT6 | 1.90 | .93 | .80 |
| 6AT8A | 3.80 | 1.86 | 1.59 |
| 6AU4GTA | 3.55 | 1.74 | 1.49 |
| 6AU5GT | 4.30 | 2.11 | 1.80 |
| 6AU6A | 2.10 | 1.03 | .88 |
| 6AU8A | 3.50 | 1.71 | 1.47 |

TUBE TYPES MAY BE ASSORTED FOR QUANTITY PRICE

| TUBE TYPES | MFRS. LIST PRICE | YOUR COST 1 - 10 Each | YOUR COST 11 - Up Each |
|---|---|---|---|
| 6AV5GA | 4.20 | 2.06 | 1.74 |
| 6AV6 | 1.65 | .80 | .69 |
| 6AW8A | 3.70 | 1.81 | 1.55 |
| 6AX4GTB | 2.65 | 1.30 | 1.11 |
| 6BA6 | 2.00 | .98 | .84 |
| 6BA8A | 3.85 | 1.89 | 1.61 |
| 6BC5 | 2.35 | 1.15 | .98 |
| 6BC8 | 4.00 | 1.96 | 1.68 |
| 6BE6 | 2.20 | 1.08 | .92 |
| 6BF5 | 3.55 | 1.74 | 1.49 |
| 6BF6 | 1.80 | .88 | .75 |
| 6BG6GA | 6.50 | 3.20 | 2.72 |
| 6BH8 | 3.65 | 1.79 | 1.53 |
| 6BJ6 | 2.60 | 1.27 | 1.09 |
| 6BK5 | 3.70 | 1.81 | 1.55 |
| 6BK7B | 3.35 | 1.64 | 1.40 |
| 6BL7GTA | 3.95 | 1.94 | 1.66 |
| 6BN4A | 2.50 | 1.22 | 1.05 |
| 6BN6 | 3.20 | 1.56 | 1.33 |
| 6BQ5 | 2.40 | 1.18 | 1.01 |
| 6BQ6GTB | 4.35 | 2.13 | 1.82 |
| 6BQ7A | 3.95 | 1.93 | 1.65 |
| 6BS8 | 3.75 | 1.84 | 1.57 |
| 6BU8 | 2.80 | 1.37 | 1.17 |
| 6BX7GT | 4.35 | 2.13 | 1.82 |
| 6BY6 | 2.50 | 1.22 | 1.05 |
| 6BY8 | 2.65 | 1.30 | 1.11 |
| 6BZ6 | 2.25 | 1.10 | .94 |
| 6BZ7 | 4.00 | 1.96 | 1.68 |
| 6C4 | 1.85 | .91 | .78 |
| 6CB6A | 2.25 | 1.10 | .94 |
| 6CD6GA | 5.80 | 2.84 | 2.43 |
| 6CF6 | 2.55 | 1.25 | 1.07 |
| 6CG7 | 2.45 | 1.20 | 1.03 |
| 6CG8A | 3.30 | 1.62 | 1.38 |
| 6CL6 | 3.75 | 1.84 | 1.57 |
| 6CL8A | 3.15 | 1.54 | 1.32 |
| 6CM7 | 2.90 | 1.42 | 1.21 |
| 6CN7 | 2.90 | 1.42 | 1.21 |
| 6CQ8 | 3.50 | 1.71 | 1.47 |
| 6CS6 | 3.35 | 1.15 | .98 |
| 6CS7 | 2.95 | 1.44 | 1.24 |
| 6CU8 | 4.15 | 2.03 | 1.74 |
| 6CY5 | 2.75 | 1.35 | 1.15 |
| 6CW4 | 4.45 | 2.18 | 1.86 |
| 6CX8 | 3.85 | 1.89 | 1.61 |
| 6DE4 | 2.85 | 1.39 | 1.17 |
| 6DE6 | 2.55 | 1.25 | 1.07 |
| 6DQ6 | 4.10 | 2.01 | 1.72 |
| 6EA8 | 3.20 | 1.56 | 1.33 |
| 6EB8 | 4.00 | 1.97 | 1.68 |
| 6EM7 | 5.10 | 2.50 | 2.14 |
| 6H6 | 4.00 | 1.96 | 1.68 |
| 6J5 | 3.65 | 1.79 | 1.53 |
| 6J6 | 2.80 | 1.37 | 1.17 |
| 6J7 | 4.95 | 2.43 | 2.07 |
| 6K6GT | 2.65 | 1.30 | 1.11 |
| 6L6 | 8.60 | 4.21 | 3.60 |
| 6L6GC | 4.20 | 2.06 | 1.76 |
| 6S4A | 2.45 | 1.20 | 1.03 |
| 6SA7 | 4.30 | 2.11 | 1.80 |
| 6SC7 | 4.20 | 2.06 | 1.76 |
| 6SJ7 | 4.15 | 2.03 | 1.74 |
| 6SK7 | 3.95 | 1.93 | 1.65 |
| 6SL7GT | 3.50 | 1.71 | 1.47 |

TUBE TYPES MAY BE ASSORTED FOR QUANTITY PRICE

| TUBE TYPES | MFRS. LIST PRICE | YOUR COST 1 - 10 Each | YOUR COST 11 - Up Each |
|---|---|---|---|
| 6SN7GTB | 2.60 | 1.27 | 1.09 |
| 6SQ7 | 3.80 | 1.86 | 1.59 |
| 6T8A | 3.35 | 1.64 | 1.40 |
| 6U8A | 3.30 | 1.62 | 1.38 |
| 6V3A | 4.55 | 2.23 | 1.91 |
| 6V6GT | 2.20 | 1.08 | .92 |
| 6W4GT | 2.40 | 1.18 | 1.01 |
| 6W6GT | 2.80 | 1.37 | 1.17 |
| 6X4 | 1.65 | .80 | .65 |
| 6X5GT | 2.05 | 1.00 | .86 |
| 6X8 | 3.15 | 1.54 | 1.32 |
| 7AU7 | 2.60 | 1.27 | 1.09 |
| 7N7 | 7.55 | 3.70 | 3.16 |
| 8AW8A | 3.65 | 1.79 | 1.53 |
| 10DE7 | 3.40 | 1.66 | 1.42 |
| 12AB5 | 3.50 | 1.71 | 1.47 |
| 12AD6 | 2.40 | 1.18 | 1.01 |
| 12AQ5 | 2.60 | 1.27 | 1.09 |
| 12AT6 | 1.85 | .91 | .78 |
| 12AT7 | 3.05 | 1.49 | 1.28 |
| 12AU6 | 2.15 | 1.05 | .90 |
| 12AU7A | 2.45 | 1.20 | 1.03 |
| 12AV5GA | 3.85 | 1.89 | 1.61 |
| 12AV6 | 1.65 | .80 | .69 |
| 12AV7 | 3.55 | 1.74 | 1.49 |
| 12AX4GTA | 2.70 | 1.32 | 1.13 |
| 12AX7 | 2.50 | 1.23 | 1.05 |
| 12AZ7A | 2.75 | 1.35 | 1.15 |
| 1284A | 2.70 | 1.33 | 1.14 |
| 12BA6 | 1.65 | .80 | .69 |
| 12BE6 | 1.75 | .86 | .73 |
| 12BH7A | 3.05 | 1.49 | 1.28 |
| 12BQ6GTB | 4.45 | 2.18 | 1.86 |
| 12BR7 | 3.20 | 1.56 | 1.33 |
| 12BY7A | 3.05 | 1.50 | 1.28 |
| 12C5/12CU5 | 2.45 | 1.20 | 1.03 |
| 12CA5 | 2.85 | 1.39 | 1.17 |
| 12D4 | 2.75 | 1.35 | 1.15 |
| 12DQ6B/A | 4.20 | 2.06 | 1.76 |
| 12L6GT | 2.75 | 1.35 | 1.15 |
| 12SA7 | 4.30 | 2.11 | 1.80 |
| 12SK7 | 3.90 | 1.91 | 1.63 |
| 12SN7GTA | 2.70 | 1.32 | 1.13 |
| 12SQ7 | 3.75 | 1.84 | 1.57 |
| 12V6GT | 2.40 | 1.18 | 1.01 |
| 12W6GT | 3.00 | 1.47 | 1.26 |
| 12X4 | 1.90 | .93 | .80 |
| 17D4 | 2.75 | 1.35 | 1.15 |
| 17DQ6B | 4.20 | 2.06 | 1.76 |
| 19AU4GTA | 3.45 | 1.69 | 1.45 |
| 19T8 | 3.50 | 1.71 | 1.47 |
| 25BQ6GTB | 4.60 | 2.26 | 1.93 |
| 25DN6 | 6.80 | 3.34 | 2.76 |
| 25L6GT | 2.35 | 1.15 | .98 |
| 25Z6GT | 3.50 | 1.71 | 1.47 |
| 35C5 | 2.15 | 1.05 | .90 |
| 35L6GT | 2.40 | 1.18 | 1.01 |
| 35W4 | 1.10 | .53 | .47 |
| 35Y4 | 4.80 | 2.35 | 2.01 |
| 35Z5GT | 1.85 | .91 | .78 |
| 50B5 | 2.95 | 1.45 | 1.24 |
| 50C5 | 2.15 | 1.05 | .90 |
| 50EH5 | 2.30 | 1.13 | .96 |
| 50L6GT | 2.55 | 1.25 | 1.07 |
| 117Z3 | 4.35 | 2.13 | 1.82 |

TUBE TYPES MAY BE ASSORTED FOR QUANTITY PRICE

# Imported Hi-Fi TUBES

## Mullard

Made In England

MOST POPULAR TYPES

★ For Improved Performance
★ Low Noise, High Gain, Less Hum

| Mullard Types | Replaces | Net Each |
|---|---|---|
| EABC-80 | 6AK6 | $1.92 |
| ECC-81 | 12AT7 | 1.55 |
| ECC-82 | 12AU7 | 1.27 |
| ECC-83 | 12AX7 | 1.29 |
| ECC-85 | 6AQ8 | 1.41 |
| ECC-88 | 6DJ8 | 2.38 |
| ECF-80 | 6BL8 | 2.06 |
| ECH-81 | 6AJ8 | 1.83 |
| EF-86 | 6267 | 1.38 |
| EF-89 | 6DA6 | 1.71 |
| EL-34 | 6CA7 | 3.16 |
| EL-37 | 6L6, 5881, 1614 | 3.40 |
| EL-84 | 6BQ5 | 1.25 |
| EZ-81 | 6CA4 | 1.14 |
| GZ-34 | 5AR4 | 2.26 |

### MATCHED PAIRS

| | | |
|---|---|---|
| EL-34MP | 6CA7 | $6.86 Pr. |
| EL-37MP | 6L6, 5881, 1614 | 7.10 Pr. |
| EL-84MP | 6BQ5 | 2.84 Pr. |
| EL-90MP | 6AQ5 | 2.73 Pr. |
| ECL-82MP | 6BM8 | 3.65 Pr. |

Thurston Bryan, M. D., Box 420, Cadiz, Ky., wins choice of merchandise worth $5 from Olson's "Treasure Hunt." See back cover for instructions.

# SIEMENS

## HI-FI TUBES

★Imported from Holland & Germany

| Siemens Type | Replaces | Net Each |
|---|---|---|
| ECC-81 | 12AT7 | $1.20 |
| ECC-82 | 12AU7 | .99 |
| ECC-83 | 12AX7 | .99 |
| ECC-85 | 6AQ8 | 1.20 |
| ECC-88 | 6DJ8 | 1.72 |
| ECF-80 | 6BL8 | .99 |
| EF-183 | 6EH7 | .99 |
| EF-184 | 6EJ7 | .99 |

## ★ OTHERS ★

| | | | |
|---|---|---|---|
| 6SA7 | $1.02 | 12SA7 | $1.08 |
| 6SK7 | .95 | 12SK7 | .98 |
| 6SQ7 | .94 | 12SQ7 | .85 |

### UNIVERSAL BOOSTER



Increases brightness on old or dim picture tubes. Works with series, parallel, conventional 70°, 90° or 110° tubes. Shipping weight ¼ lb.

No. T-335, 4 for $3.50 **99c**

### 4-WAY BOOSTER



No. T-276 EACH **$1.77**

3 for $5.00
12 @ $1.40 ea.

Adds months to any picture tube life. Connects between picture tube base and socket. 2½" x 1½". Shipping weight ⅜ lb.

# Olson 5 Pack TUBE KIT

BRAND NEW!




No. AS-533

**$2** PER KIT

Each kit contains 5 tubes—1 each as listed: 35W4, 50C5, 12BA6, 12AV6, 12BE6. Most common types for AC-DC home radios. Shpg. wt. 1 lb.



Tube CADDY

No. CA-125

**$7.97** 2 for $15

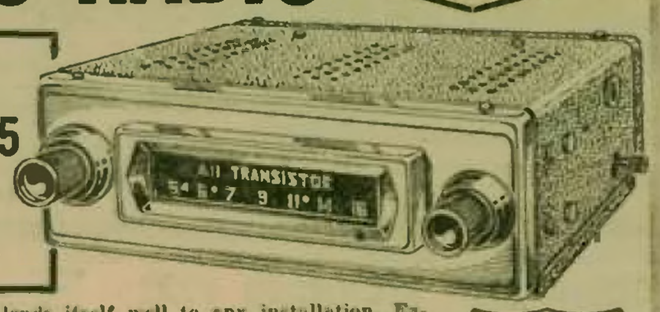
★ Holds Up To 143 Tubes

Durable heavy grey covering. Size: 15¾" W x 13⅝" H x 3" D. Shpg. wt. 8 lbs.

## 12 Volt All Transistor
# AUTO RADIO

★ With Built-In 4" Speaker
★ Slide Rule Dial Tuning

No. RA-450
$29.95
3 @ $28.50 ea.

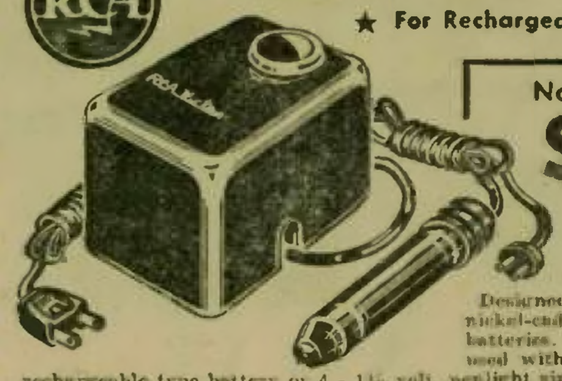



Low silhouette lends itself well to any installation. Excellent sensitivity and stability plus effective AVC assure steady clear reception in any area. All transistor circuit for greatest economy. No warm up. Radio is "instant-on." Compact size: 6¾" x 2¾" x 8¾". With hardware and instructions. Shipping weight 8 lbs.

MADE IN U.S.A.

## BATTERY CHARGER

★ For Rechargeable Batteries



No. BA-94
$4

Designed to recharge nickel-cadmium type batteries. It may be used with any 6 volt rechargeable type battery or 4 - 1½ volt, penlight size, rechargeable batteries. Charger plugs into AC house current or into cigar lighter in your 12-volt car. Adapter cord for charging from cigar lighter is included. Size: 3⅜" x 2½" x 2⅝", 6 ft. adapter cord and AC line cord. For 110-125 volts AC 60 cps. Shipping wright 3 lbs.

## RCB-3 Nickel-Cadmium BATTERY

★ Rechargeable



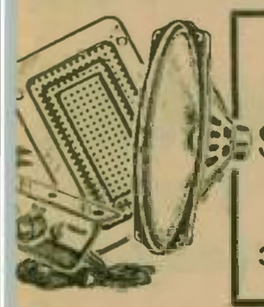
No. BA-96
$1.19
4 for $4

1.25 Volt
Penlight Size

Can be recharged many times. Not adversely affected by long storage, either charged or discharged. Though voltage is slightly less than a regular penlight battery, rechargable batteries can be used in most applications calling for a penlight type battery. Use with RCA charger at left. (required adapter, not included). Batteries are shipped in discharged condition.

## 6x9" Rear Deck SPEAKER KIT

★ No Soldering Required



No. S-333
$3.63
3 for $10.00

No soldering required. Speaker is Fahnestock clips and wire is tinned. Fader control enables volume to be adjusted to any desired level. Includes 6x9 speaker, fader control, wire, chromed grille, hardware and easy to follow instructions. Shipping weight 2 lbs.

Accurate
Ammeter-Oil
## PRESSURE GAUGE



No. ME-117
Non-Illuminated
$4.99

Illuminated
ME-118 $6.10

Can be mounted in any location that offers easy readability. Eliminates guesswork resulting from red indicator lights now used in most cars. Easy to connect to any car. Complete with all fittings and connectors. Oil pressure range: 0 to 80 pounds. Ammeter range: 60-0-60 amps. Both meters are mounted on a universal mounting, chrome panel. Illuminated model includes socket, bulb, and all necessary hook-up wire. Can be used in any 6 or 12-volt system. Shpg. wt. 3 lbs.

Nickel Cadmium
## BATTERY CHARGER

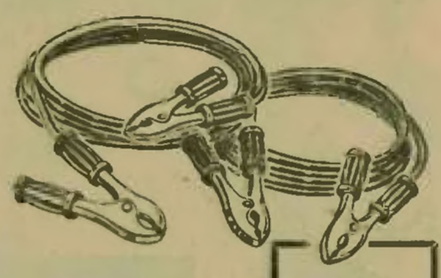
★ Charge 1 to 10 Cells in Series



No. RA-602
$9.95

This unit will charge from 1 to 10 cells in series up to a maximum of 250 milliamperes. Battery manufacturers recommended charging rate is 10 per cent of rated cell capacity. Simply select correct charging rate in MA and read correct pointer setting beneath the number of cells being charged. Size: 6¼" x 2" x 3¾". Shipping weight 3 lbs.

8 FT. Battery
## BOOSTER CABLES



W-352
$1.29
3 Sets $3.60

Two rugged 8 foot cables with heavy duty battery clips on each end. Easy to use—connect from your battery to a friend's battery—turn the switch and start your car without pushing.

4 AMP
## BATTERY CHARGER

● 6 and 12 Volt
● U. L. Approved



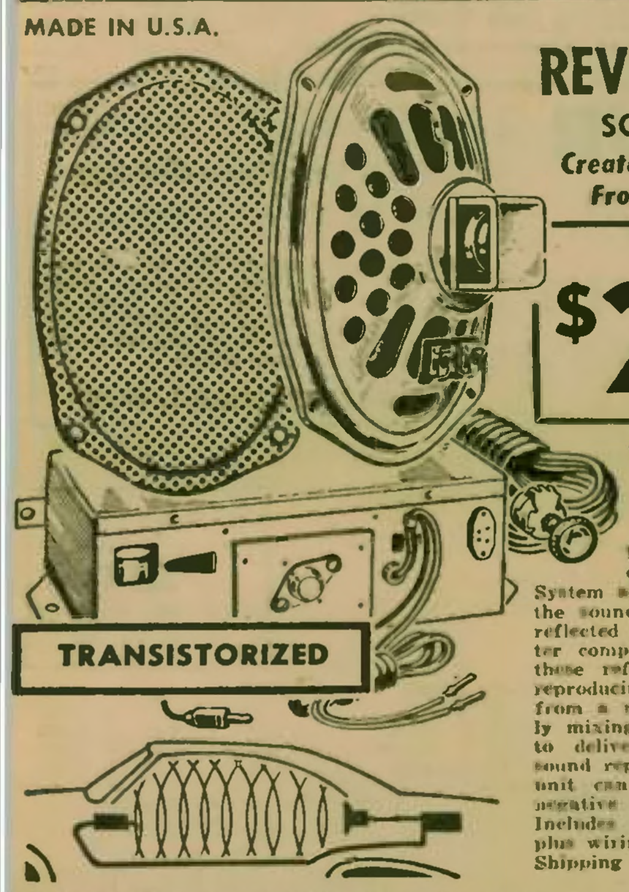
No. RA-604
$10.63

Moderately rated at 4 amps, charger actually delivers 5.5 amps. Charges 6 and 12 volt batteries and keeps them fresh. Automatic circuit-breaker protects both battery and charger. Cannot over charge battery. Charging rate automatically tapers off as battery becomes charged. Built-in ammeter tells you the charging rate with AC line cord and battery cables. For 110-125 volts AC, 60 CPS. Shpg. wt. 5 lbs.

MADE IN U.S.A.

Concert Master
## REVERBERATION SOUND SYSTEM

*Creates Concert Hall Sound From Your Auto Radio*




No. RA-577
$26.97

★ Use with Any 12-volt, Negative Ground Auto Radio—AM-FM

Add "life" to the sound from your car radio. Concert-Master Reverberation System adds depth and dimension to the sound by electronically creating reflected sound waves. Concert-Master compensates for the absence of those reflected waves in a car by reproducing a second set of waves from a rear speaker and acoustically mixing both sets of sound waves to deliver this new dimension in sound reproduction in your car. This unit can be added to any 12-volt negative ground radio—AM or FM. Includes 6x9" speaker with grille plus wiring harness and instructions. Shipping weight 6 lbs.

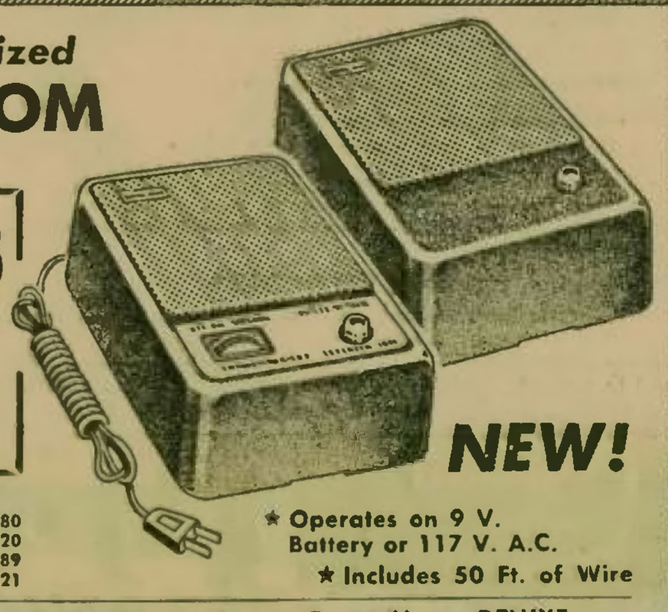
S. Herbert Berg, P. O. Box 231, Ft. Benton, Mont., wins choice of merchandise worth $5 from Olson's "Treasure Hunt." See back cover for instructions.

## FANON-MASCO Transistorized INTERCOM

Model 1300

Special power pack (included) enables you to operate this intercom on 117 volt AC house current or a standard transistor battery (not included). Additional remote stations may be added to make the system more flexible. Remote stations may call master even when power is turned off. This insures economical operation and prolongs the life of all components. All-metal construction, smartly finished in sandalwood tan with gold trim. Suitable for desk or wall mounting. Size: 4½" L. x 3½" W. x 1¾" H. Shpg. wt. 2½ lbs.

$14.95
No. AM-238



NEW!

★ Operates on 9 V. Battery or 117 V. A.C.
★ Includes 50 Ft. of Wire

ACCESSORIES:

| | | | |
|---|---|---|---|
| Outdoor Remote Station | No. | X-939 | $4.80 |
| Indoor Remote Station | No. | X-940 | 4.20 |
| 100 Ft. 2 Conductor Wire | No. | W-103 | .89 |
| 9 Volt Battery | No. | BA-89 | .21 |

Fanon-Masco ALL MASTER
### 6-STATION INTERCOM

Model FX-6B



No. AS-729
All 6 Units
$135.00

MADE IN U. S. A.

Provides 3 private conversations, or up to six station conference talk. Consists of 6 FX-6B master units. For 110-125 Volts AC. Shipping wt. 29 lbs. Total cost if bought separately, $143.40.

Above Master Station sold separately, No. AM-212, Shpg. wt. 4 lbs. $23.90
3 Conductor Universal Cable
No. W-354 Ft. 7c

Remote station for use with above master unit for master remote intercom. Model FCB. Up to five remotes may be used with a master. Shipping weight 2 lbs.
No. AM-22e $8.40

Fanon-Masco 2-STATION
### Wireless Intercom

★ Model FW 50 B



No. AM-227
BOTH FOR
$49.95

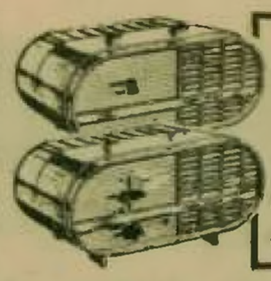
★ 3½" ALNICO MAGNET SPEAKER

No wires to connect, just plug in and use. Features powerful 4 tube plus silicon rectifier amplifier . . . picks up at considerable distances. "Dictate" position on talk-listen switch permits operation as a baby sitter. Noise silencing control eliminates interference of power lines. Several stations may be added to any system. Size: 8⅛" W x 4¾" H x 5¾" D. For 110-125 volts AC. Shipping weight 7 lbs.

Extra station for above. Shpg wt. 3½ lbs.
No. AM-228 $25.45

Fanon-Masco DELUXE
### TWO STATION INTERCOM

Model FX-2B



No. AM-211
BOTH FOR
23.90

MADE IN U. S. A.

Substation can "originate" calls, or can be left open for baby sitting, dictation etc. or receive calls from master. Cabinet is 8⅝" W. 4⅝" H. 5¾" D. of high impact styrene. Black and gold trim. Complete with 50 ft. of 3 conductor cable. For 110-125 volts AC. Shipping weight 9 lbs.

Extra Cable—100 ft. Shpg. wt. 2 lbs.
No. W-105 $1.50

Transistor Radio Battery
## Eliminator-Charger



Charge batteries in 1 to 1½ hours. Converts transistor portables to AC. Use with batteries BL - 006P, MV - 006P, Burgess 2U6. For 110-125 volts. AC. Size, design may vary from picture. Shipping weight 4½ lb.

No. BA-78, 3 for $8 Ea. $2.93

## Bag of 8 Pen-Lite Cells



Bag of 8 Replaces Burgess Z, Eveready 915, Ray-O-Vac 7R, etc. 1.5 volts. Shpg. wt. ¼ lb.

No. BA-67, 24 for $1.50 8 for 59c

Miniature Rear Seat
## SPEAKER KIT

★ Prewired

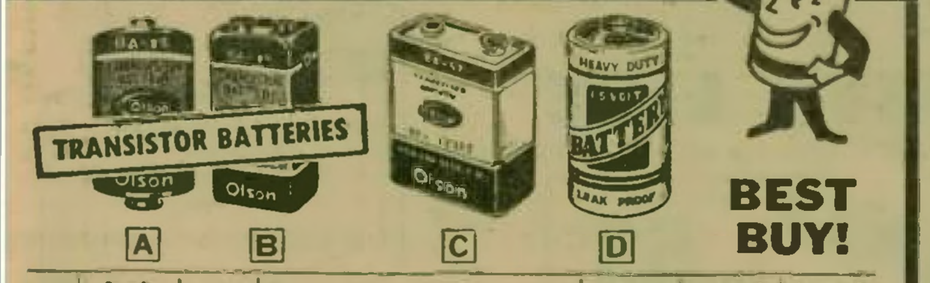


No. S-501
$2.29



This prewired kit can be installed in minutes in any car. Selector switch permits selection of front, rear or both speakers. Mirror-finish steel case can be installed in any auto, convertible, foreign car or station wagon. Size: 2¼" sq. x 1⅛" deep. Shipping weight ½ lb.

## BATTERIES




| | Stock No. | Volts | Replaces | Each | Lots of 10, ea. | Lots of 100, ea. |
|---|---|---|---|---|---|---|
| A | BA-85 | 9 | Burgess P-6, P-6M, RCA, VS-300, VS-314 and Eveready 226 ¼ lb | 39c | 34c | 29c |
| B | BA-89 | 9 | Burgess, 2U6, RCA, VS-312, ¼ lb Eveready 216, and NEDA 1604 | 21c | 20c | 19c |
| C | BA-99 | 67½ | Eveready 467, Burgess XX-45, and RCA VSO-16 3¾ lb. | $2.94 | $2.94 | $2.94 |
| D | BA-53 | 1½ | Burgess 2R, Eveready 950 or RCA VSO-36 ¼ lb. | 13c | 9c | 9c |

A. M. McGee, Box 433, Nevada, Mo., wins choice of merchandise worth $5 from Olson's "Treasure Hunt." See back cover for instructions.

TRANSISTORIZED
## Portable Intercom



No. RA-516
BOTH FOR
$9.45
3 for $27.00

- Completely Portable!
- Battery Operated!
- 2-Way Signal
- Outdoor-Indoor

All purpose, outdoor or indoor 2 way intercom. Uses one 9 volt battery for power, (included) no A.C. cord, no chance for shocks. Battery saver two way buzzer signal operates even though master is turned off. Cable has miniature telephone type plug at each end for quick setup or mounting. Clear, loud, tone. Substation is on when master is on so you can hear children without pushing button. Size: 1⅛"x2½"x4". Shipping weight 2 lbs.
Extra battery, No. BA-89 Ea. 21c

## Portable 2-Station INTERCOM KIT

★ Transistorized—3 Transistors



$11.91 No. KB-95

Handsome gold enamel finish. Operates on 4 size "C" cells. Size: 7⅛"x 3½"x3¼". Less batteries and transistors. Shipping weight 7 lbs.

★ ACCESSORIES FOR KB-95 ★

| | |
|---|---|
| Batteries (4 req'd) No. BA-41 | Ea. 13c |
| Transistors No. X-801 (2 req'd) | Ea. 49c |
| Transistors No. TR-13 (1 req'd) | Ea. 49c |
| Extra Cable No. W-103 | Per 100 ft. 89c |

Bogen ALL MASTER TELEPHONE Intercom System



No. AM-156
$20.95

Model TQ-6. A total of 7 instruments can be used in a system. Any station can call any other station. (6 pushbuttons). Grey, high impact polystyrene case, with coil-cord. For desk or wall mounting. Less cable and power supply. Shipping weight 5 lbs.

117 V AC Transformer Power Supply (one req'd.).
Shpg. Wt. 4 lbs. No. AM-157 $ 22.50
Complete System (7-AM-156, 1-AM-157). Shipg. Wt. 40 lbs.
No. AS-657, $9 monthly $148.00
Cable (11 conductors) No. W-35 Per Ft. 7c

Bogen TRANSISTORIZED TWIN-COM



No. RA-563
$23.90
$39.85 in 363 cat.

This versatile, compact intercom can be used anywhere or even moved from place to place. Operates independently of house current. Uses self contained batteries (not included). Attractively styled to match any decor. Ideal for home, office, work area, sickroom monitoring and many other applications. Sound engineered to give clear, natural sounding voice reproduction. Includes two stations plus 50 feet of cable. Size: 8½"x5¾"x3½". Shipping weight 6 lbs.

Batteries (4 required) No. BA-67 8 for 59c

# MEMOCORD *Executive Recorder*













Say it here!
Hear it here!




★ 1 HOUR Recording Time

★ Size: Only 1½x3⅛x4½"

★ Wt.: 11½ ozs.

★ Made In West Europe

## Ever Have a Memo Pad Talk Back?

(U. S. Patents Pending)

Slip this "talking **memo pad**" into your pocket and let MEMOCORD be your infallible memory. It never forgets! Remembers thoughts, ideas, reports, names, addresses—and repeats them on demand.

Engineers, consultants, sales executives, doctors, lawyers, educators, students, coaches, reporters, servicemen, ministers, save precious time.

MEMOCORD tapes are recorded in true voice fidelity and can be mailed in any envelope . . . and it's so easy to use MEMOCORD, only two push buttons, red to record and white to listen. Records one full hour on a single reel of tape. No external wires, even the microphone and speaker are built-in.

Tape is indexed so that you may refer to any point easily. Recorder automatically erases previous recordings so tape may be used over and over. MEMOCORD comes with 1 reel of tape, 1 take-up reel plus a handsome leatherette covered carrying case with snap cover. MEMOCORD Model 1, supplied less batteries. Shipping weight 3 lbs.

**OPTIONAL ACCESSORIES:**

| | |
|---|---|
| Auxiliary Speaker for group playback, No. S-583 | $2.49 |
| Foot Control, starts and stops recorder No. X-936 (Mfgrs. List $10) | $5 |
| Extra 1 hr. tape with take-up reel, No. TA-119 | $1.99 |
| Set of Batteries: One 9V and one 1½V. Alkaline Pen cell No. AS-860, Both For | .61 |

Mfgr's Current List Price . . . ~~$109.50~~

**OLSON PRICE**

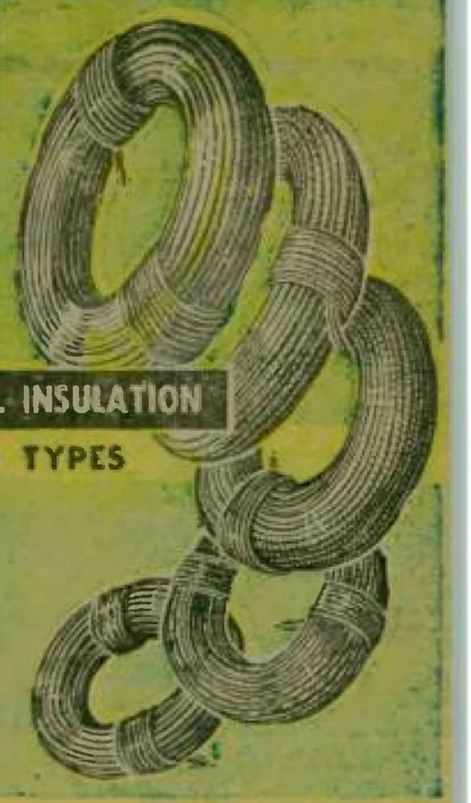
**$29.99 ★**

No. RA-608



★ With Traveling Case

# 500 FT. HOOK-UP WIRE



★ FIVE 100 FT. COILS

★ RUBBER, COTTON OR VINYL INSULATION

★ SOLID AND STRANDED TYPES

**50¢** WITH ANY $10 ORDER

No. AS-135 SOLD SEPARATELY . . . $1.99

Shipping Weight 1½ lbs.

NAME BRAND

# 1200 FT. MYLAR Recording Tape

★ Made By A Leading U.S.A. Manufacturer



No. TA-75

LOTS OF 10, EACH **99¢**

Lots of 3, Ea. $1.19

Single, Each $1.29

★ 7" REEL

★ Factory Boxed

Sensational tape offer which features a uniform coating of oxide bonded to a tough mylar base. High signal to noise ratio, low distortion and uniform output. Standard ¼" width for all recorders. Shipg. wt. 1 lb.

## 24 HOUR Phone Service

Direct Dial Area Code 216
Akron, Ohio

**Phone: 535-9191**

If you can't phone during the day, you can phone ANYTIME at night and give your order to our night operator. Your order will be shipped the next day!

## TREASURE HUNT

*Look For Your Name—You May*

**WIN $5 IN MERCHANDISE**

Somewhere throughout this catalog are the names of 10 Olson customers. Your name may be there! If it is, write us giving the page number and OLSON will send you FREE from the catalog, $5 worth of merchandise of your choice.

OFFER EXPIRES March 1, 1964

Superior

# ELECTRONIC CAR STARTER

★ HELPS START WET, COLD, OVER-HEATED or SLUGGISH CAR ENGINES






Mfgr's 1963 List $8.95

**$2.99**

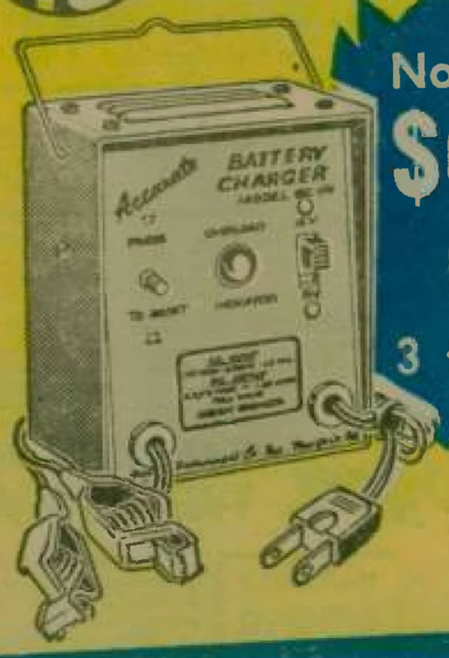
No. AM-246

★ 5 Times Normal Spark
★ Only Two Connections
★ For 6 or 12 Volt Cars
★ Saves Your Battery

Two simple connections can make the difference . . . whether your car starts instantly, or you have to grind away at the battery and your temper. In just a few minutes, you can connect this amazing device to your car, 6 or 12 volt. Electronic Car Starter sends FIVE TIMES the normal amount of spark from your plugs, insuring a positive start every time. This device disconnects itself automatically the instant the engine begins running. Electronic Car Starter will never damage the plugs. Size: 6⅛" x 1½" x 1½". Includes 25" wire leads. Shipping weight 2 lbs.

Superior

# Superior BATTERY CHARGER




No. RA-617

**$3.99**

3 for $11.50

★ 6 and 12 Volt
★ Overload Circuit Breaker
★ 1.25 Amp.
★ Can Not Overcharge
★ Two 4½ Foot Cables
★ Rugged Metal Case

Keep your car battery charged ready to deliver full power when you need it. Battery may become discharged even while standing idle. With charger attached, battery remains fully charged at all times. Switch on front panel selects 6 or 12 volt batteries. Has 4½ foot charging cables with 25 amp. easy-to-attach clips. Charging rate tapers off as battery becomes charged. Can't overcharge. Re-set circuit breaker trips automatically if an overload should occur for any reason. Indicator light tells you if circuit breaker has been tripped. Features rugged metal cabinet for lifetime use. Size: 9" x 3½" x 5". For 110-125 volts A.C., 60 cps. Don't miss this tremendous value! Shipping weight 4 lbs.

★ SEE PAGE 35 FOR MORE CHARGERS

OLSON ELECTRONICS, INC.
260 S. Forge St., Akron, Ohio 44308
RETURN REQUESTED

Catalog 164

BULK RATE
U. S. POSTAGE
**PAID**
AKRON, OHIO
PERMIT No. 240



## WILL YOU DO ME A FAVOR?

If your name is misspelled or if the address shown is incorrect, won't you please clip out the address panel, correct it, and return it to me? Also if you are receiving two catalogs because of a variation in the use of your name and initials, please indicate which you prefer and return both address panels to me. I will correct your file and you will be assured of receiving all future Olson catalogs without the possibility of mishandling in the mail because of an incorrect name or address. Thank you.

*Ruth Kelly*

Westinghouse

# NITE LITE

Mfgr's. 1963 List Price $1.19

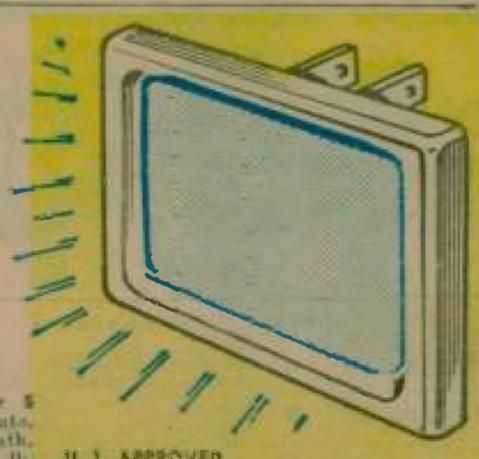
SAVE

No. X-850

Ea. **53¢**

2 for $1

Gives soft green light. Lasts for over 5 years— cost less than 1¢ a year to operate. Ideal for child's room, hall, bedroom or bath. Size: 2⅝" w x 2⅛" h x ⅝" thick. Shp. wt ½ lb.



U. L. APPROVED

# OLSON ELECTRONICS

260 S. FORGE ST.
AKRON, OHIO 44308

WRH



# Olson Gift CHRISTMAS CATALOG

ORDERS Shipped SAME DAY Received!

## ...for the Gift YOU Would Like To Receive!

## SCOURMASTER

★ SCOURS
★ SCRUBS
★ SHINES
★ POLISHES
★ PORTABLE




Mfgr's List Price ~~$29.95~~

No. MO-112

**$7.77**

2 FOR $15

Complete With EVEREADY Batteries

Scourmaster not only scours and scrubs dirty pots and pans but also shines and polishes silverware and copperware, cleans dishes and glassware. No need to plug into a wall outlet. Scourmaster operates on self contained batteries (included). The exclusive "Paw-R-Pack" handle contains a highly efficient motor that gives just the right amount of cleaning power and splash-proof speed to remove stubborn scorch, even burnt-on stains. This hand-contoured, rubber-clad handle is completely safe and comfortable to use in or out of water—it's completely water-proof. Scourmaster is automatically self-starting, just lift the handle from its cradle and the motor starts instantly. Complete with batteries, 6 heavy duty scouring pads, 2 nylon fiber pads, 1 soft plastic brush and wall mounting plate. Cabinet Size: 6¼" H x 9" W x 3" D. Shipping weight 10 lbs.

Extra Batteries, 2 req'd. 6V Eveready 509. No. BA-92 Ea. $1.19




## MEMOCORD (U. S. Patents Pending)

## Executive Recorder

*. . . the perfect Gift for the Man On The Go!*

★ 1 Full Hour Recording Time
★ Made In West Europe
★ Size 1½ x 3⅛ x 4½", Weight 11½ Ozs.

**Say it here!**
**Hear it here!**




Mfgr's Current List Price . . . ~~$109.50~~

OLSON PRICE

**$29.99** ★

No. RA-608



WITH TRAVELING CASE!

*Ever Have a Memo Pad Talk Back?*




*Thousands Of Uses . . .*

**HOUSEWIVES:** For Grocery Lists
**STUDENTS:** For Notes & Lectures
**ENGINEERS:** For Facts & Data
**SALESMEN:** For Verbal Orders
**DOCTORS:** Instructions To Nurse
**LAWYERS:** Notes For Court
**SECRETARIES:** Messages For Boss
**MERCHANTS:** Notes On Inventory
**SERVICEMEN:** Voice Letters

**OPTIONAL ACCESSORIES:**

Auxiliary Speaker for group playback
No. S-583 ..... $2.49

Foot Control, starts and stops recorder.
No. X-936 (Mfgr's. List $10) ..... $5

Extra 1 hr. tape with take-up reel.
No. TA-119 ..... $1.99

Set of Batteries: One 9V and one 1½ V. Alkaline Pen cell.
No. AS-860, Both For ..... 61c

Slip this "talking memo pad" into your pocket and let MEMOCORD be your infallible memory. It never forgets! Remembers thoughts, ideas, reports—and repeats them on demand. Engineers, consultants, sales executives, doctors, lawyers, educators, students, coaches, reporters—save precious time.

MEMOCORD tapes are recorded in true voice fidelity and can be mailed in any envelope . . . and it's so easy to use MEMOCORD, only two push buttons, red to record and white to listen. Records one full hour on a single reel of tape. No external wires, everything is built-in, even the microphone and speaker.

Tape is indexed so that you may refer to any point easily. Recorder automatically erases previous recordings so tape may be used over and over. MEMOCORD comes with 1 reel of tape, 1 take-up reel plus a handsome leatherette covered carrying case with snap cover. MEMOCORD Model 1, supplied less batteries. Shipping weight 3 lbs.

NAME BRAND

## 1200 FT. MYLAR Recording Tape

★ Made By A Leading U.S.A. Manufacturer



No. TA-75

LOTS OF 10, EACH **99¢**

Lots of 3, Ea. $1.19
Single, Each $1.29

★ 7" REEL
★ Factory Boxed

Sensational tape offer which features a uniform coating of oxide bonded to a tough mylar base. High signal to noise ratio, low distortion and uniform output. Standard ¼" width for all recorders. Shipg. wt. 1 lb.

4-SPEED

## Sonora Portable PHONO

★ PM Speaker
★ Attractive Case
*. . . the perfect Gift!*






No. RP-255 **$15.98** ★

Compact 4-speed phono plays all size records. Handsome case is light and portable, take it with you wherever you go. PM speaker and powerful amplifier deliver full rich tones. Case has cloth bottom to eliminate scuffing. 110-125 volts AC, 60, cps. Size: 12" W. x 9½" D. x 5½" H. Shipping weight 5 lbs.

Catalog 1163. Copyrighted 1963, OLSON ELECTRONICS, INC

# OLSON ELECTRONICS

260 S. FORGE ST.
AKRON, OHIO 44308

NEW – EXCITING

# Sonora®

*Clear as a Bell...*

*The Finest Sound Reproduction*

"Made in America by American Craftsmen."

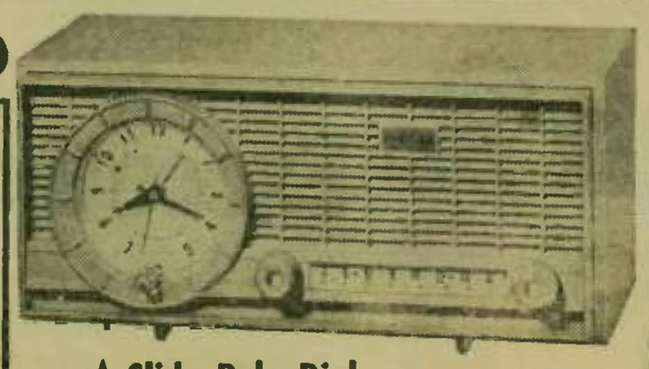
## TRAVLER CLOCK RADIO

Why wake up to a jangling alarm clock? Instead, wake up gently to your favorite music. Powerful superheterodyne circuit for unmatched sensitivity. "Quick-Tune" slide-rule vernier dial provides easy accurate tuning. Improved automatic volume control circuit insures steady, clear tone. Features built-in precision loop antenna for stronger pickup. Genuine Telechron clock automatically turns on radio at preset time. Beautiful, slim-line styled cabinet size: 5¾" H. x 12¾" W. x 6" D. For 110-125 volts A.C. 60 cps. Shipping weight 10 lbs.

No. RA-597

ONLY

$14.99



★ Slide Rule Dial
★ Alnico V Speaker

Custom Deluxe

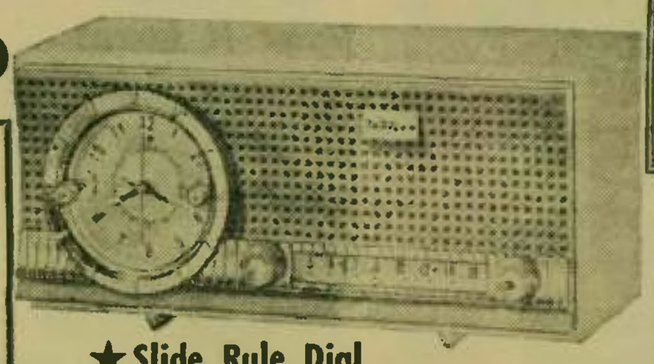
## TRAVLER CLOCK RADIO

This full-featured clock-radio rings, sings, or operates your appliance—also lulls you to sleep at slumber time. Alnico V PM speaker delivers finest tone. Deluxe Telechron timer with luminous hands and sweep second hand, clock turns radio on at preset time to wake you in the morning. Also has buzzer alarm. Slumber switch lets you fall asleep to your favorite music and then turns radio off. 1200 watt appliance outlet on back of radio makes any appliance automatic. Ideal for turning on coffee maker or lights in the morning. Modern, slim-line styled cabinet has smart gold-colored trim. Size: 5¾" H. x 12¾" W. x 6" D. For 110-125 volts A.C., 60 cps. Shipping weight 10 lbs.

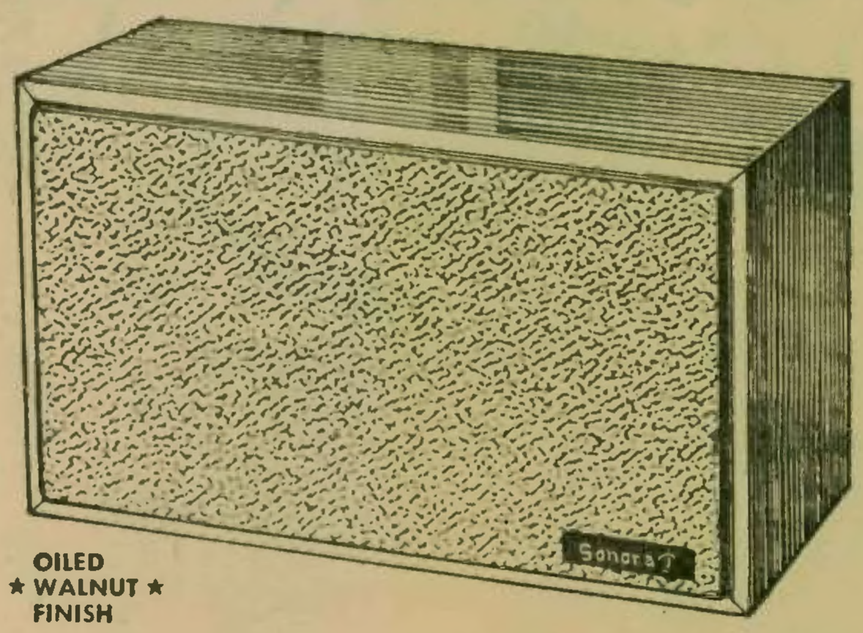
No. RA-598

ONLY

$17.99



★ Slide Rule Dial
★ Alnico V Speaker
★ Built-in Automatic Timer



OILED ★ WALNUT ★ FINISH

## Sonora 2 SPEAKER SYSTEM

★ Oiled Walnut Finish
★ Response: 20-20,000 CPS
★ Power Capacity: 15 Watts

$17.98 No. S-537
2 for $34.00

Completely assembled and ready to connect to any stereo or monaural amplifier. 2 speaker system with one 8" low frequency speaker and one 3½" tweeter, 8 ohm impedance. Handsome oiled walnut enclosure 18" x 9½" x 5½". Buy two for Stereo. Shipping weight 11 lbs.

## Sonora 3 SPEAKER SYSTEM

- Oiled Walnut
- 20—20,000 CPS
- 15 Watts

No. S-578
$24.95
2 for $47

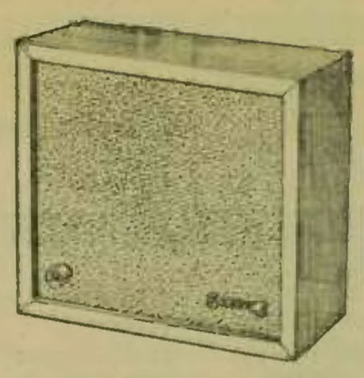


Beautifully finished cabinet and matching grille cloth reflect the excellent craftsmanship throughout. Three matched speakers deliver flawless reproduction. Slimline styling blends tastefully with any decor. System contains one 8" speaker for bass tones, one 6" speaker for midrange tones and a 4" speaker for high frequencies. Oiled walnut enclosure is ported in back to eliminate speaker loading. Size: 24" W. x 11½" H. x 6" D. Shpg. wt. 15 lbs.

## Sonora 8" SPEAKER & CABINET

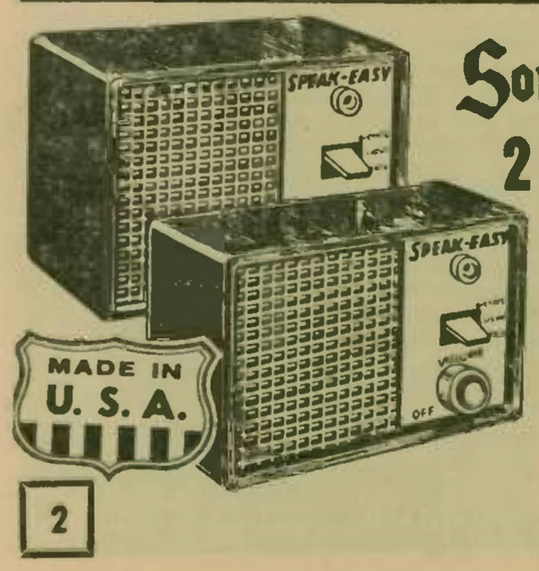
- Oiled Walnut
- Volume Control
- Wire Included

No. S-539
$11.98
2 for $23.00



Henry Wilfong, Rt. 2, Box 66, Weston, W. Va., wins choice of merchandise worth $5 from Olson's "Treasure Hunt." See back cover for instructions.

Extension speaker for stereo or hi-fi. Built-in volume control permits adjustment of balance or volume without changing controls on main unit. Full range freq. resp. 10 watts 8 ohm. Size: 11¾" x 11¾" x 4½". Shipping weight 6 lbs.




## Sonora ALL TRANSISTOR 2 STATION INTERCOM

★ SYLVANIA TRANSISTORS
★ RANGE: 2,000 FT.
★ BATTERY POWERED
★ PORTABLE

No. RA-534
BOTH FOR
$15.98

Complete two-way communication system. Can be used anywhere. Operates on one self-contained 9 volt battery (not included). Cabinets are made of attractive high impact styrene. Remotes can call master even with power turned off. Master has built-in tone signal and indicator lamp. Size: 6" x 4" x 3". Complete with 50 ft. of cable. Shipping weight 5 lbs.

**ACCESSORIES**

9 Volt Battery (1 req'd.), No. BA-89 ea. 21¢
Extra 100' of cable No. W-103 89¢

**NEW! TWO STATION WIRELESS TRANSISTORIZED INTERCOM**

Use anywhere — no wires to connect — just plug-in and use. Transistor circuit for low power drain. For 110-125 v. AC. Shipping weight 6 lbs.

No. RA-535
$29.98

## Sonora STEREO PHONO

★ 4-SPEED ★ TURNOVER CARTRIDGE
★ 4-SPEAKER SYSTEM ★ DETACHABLE SPEAKERS



$7 $59.95 No. RP-257 NO MONEY DOWN MONTHLY

Delivers console-like quality from powerful 2 channel amplifier and 4 matched speakers. Each 2-way speaker system has its own portable baffle which may be detached from main unit and placed to give greater stereo separation. Custom styled pull-down changer has a ceramic turnover cartridge with two sapphire needles. Sound control panel features separate volume controls for each channel plus a full range base-treble control. Plays all size and all speed records, both stereo and mono. 45 rpm adapter spindle is included. For 110-125 volts AC, 60 cps. Size: 15¾" H. x 9¼" D. x 23" W. Shipping weight 30 lbs.

## Sonora Automatic HI-FI PHONO

★ 4-Speed Automatic Changer
★ Tone Control

No. RP-256
$39.98



Elegant styling and true fidelity sound quality, light weight portability are combined in this deluxe unit. Powerful wide response amplifier drives a PM type speaker which is electronically balanced and front mounted for best sound dispersion and finest tonal reproduction. Has off-on volume control and separate tone control. Turnover cartridge has two sapphire needles. Automatic changer plays all speeds 16⅔, 33⅓, 45 and 78 RPM. Stylish luggage type carrying case has scuff-resistant washable covering. For 110-125 volts AC, 60 CPS. Size: 8½" H. x 13" W. x 17¼" D. Shipping weight 24 lbs.

NEW

## Sonora Deluxe STEREO PHONO

★ 4-Speed Automatic Changer



No. RP-259
$7.00 MONTHLY
$54.98
NO MONEY DOWN

★ 4 Speakers
★ Turnover Ceramic Cartridge

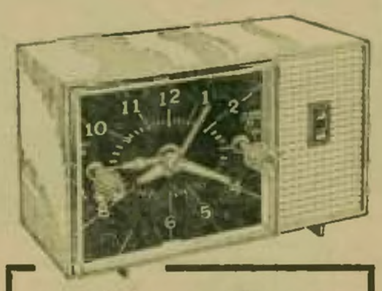
Truly outstanding in performance, styling and value! Combines in one smartly styled unit a complete portable music system for magnificent stereo reproduction. Superb tone quality from low-noise, hum-free dual channel stereophonic amplifier. Two, 2-speaker systems deliver console-like tone. 4-speed changer plays all size records automatically at 16⅔, 33⅓, 45 and 78 RPM.

Plays both stereo and mono records with utmost in clarity and balance. Has turnover cartridge with two sapphire needles. Scuff-resistant slimline carrying case. For 110-125 volts AC, 60 cps. Size: 14¾" H. x 26" W. x 9½" D. Shipping weight 26 lbs.

Sonora

## Timer-Alarm Clock

★ Telechron Movement
★ Controlled Outlet



No. X-901
Plus 10% F.E.T.
$8.80

Can be used as timer only or timer with alarm. Has 60 minute timer for automatic shut-off of radio or appliance. Appliance will come back on at any pre-set time with or without alarm. For 110-125 volts AC, 60 cps. Shpg. wt. 3 lbs.

Sonora—Telechron

## Timer-Alarm Clock

● Luminous Hands ● Walnut Cabinet



No. X-930
Plus 10% F.E.T.
$11.95

Deluxe timer switch handles up to 1000 watts. Has 60 minute timer which shuts off automatically at the end of time cycle. Timer can also be set to turn on appliance or radio at any pre-set time. Can be used with or without built in alarm. Beautiful handrubbed oiled walnut cabinet. Size: 4¾" x 4¾" x 2½". 110-125 v. AC, 60 cps. Shipping weight 3 lbs.



# The Perfect Gift for the Teenager!

# 45 RPM Portable TURNTABLE

MADE IN ENGLAND

**No. RP-252**

**$4.99**

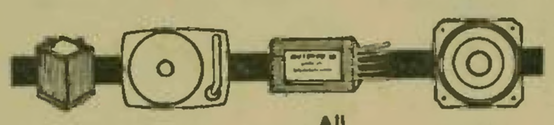
★ 6 VOLT DC MOTOR
★ CERAMIC CARTRIDGE
★ DUAL LP STYLUS

Joseph Strobel, 84 Chichester Ave., Center Moriches, L. I., N. Y., wins choice of merchandise worth $5 from Olson's "Treasure Hunt." See back cover for instructions.

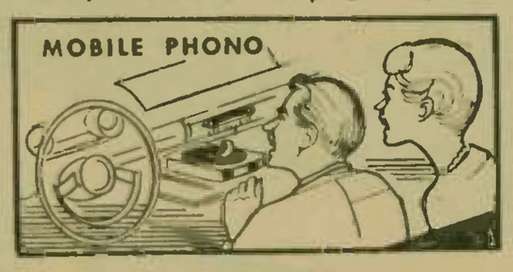
The most unusual turntable we have ever offered. Ideal for use in portable or mobile equipment. Motor operates on one 6 volt battery or 4 flashlight batteries in series. It can also be used on 12 volts DC by inserting a 10 watt 100 ohm resistor in series with the motor lead. Plug-in ceramic cartridge is equipped with 2 sapphire needles. When one side wears out you just unplug the cartridge, turn it over and plug back in and you have a brand new needle. To start changer you flip needle guard back which brings tone arm up to play position, move tone arm to right which turns on power and place the arm on the record. The motor will turn off automatically at the end of the record. Size: 7⅞" W. x 6⅞" D. x 2¾" H. Shipping weight 2 lbs.




## ★ BUILD YOUR OWN PORTABLE PHONO ★



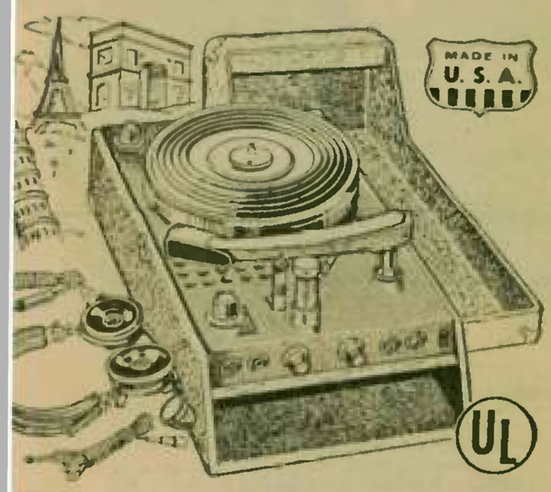

| | |
|---|---|
| 2-Watt All Transistor AMPLIFIER No. AM-218 (page 10) | 8.40 |
| 6-Volt BATTERY, No. BA-90 | 90c |
| 4" PM SPEAKER No. S-564 (Page 12) | 99c |






Design and build your own portable 45 RPM Phono . . . A PERFECT KIT PROJECT!

# PRONUNCIATOR Language Trainer




★ 4-SPEED PHONOGRAPH
★ HI-FI HEADPHONES & MICROPHONE
★ VARIABLE SPEED
★ "ACRA-SET" ARM LIFTER

The Pronunciator Language Trainer is a complete 4 speed phonograph with headphones and microphone. Designed and built in the U.S.A. by one of the leading manufacturers of Public Address equipment. This ruggedly built unit provides a direct, simplified, economical approach to accelerated language learning. You repeat into the microphone a word or phrase you have heard on the record. Immediately you hear how closely your inflection, accent and rhythm approximate the pronunciation of the recorded speaker. You hear yourself as others hear you because your voice is routed from microphone through amplifier to headphones, over-riding bone conduction perception which does not give a true picture of how you sound. The exclusive "Acra-Set" tone arm lifter gently raises and lowers the phono needle to the record surface by simply twisting a knob. You can pause between words or phrases and return the needle to the exact position without damage to record or needle. Plays all four standard speeds, 16⅔, 33⅓, 45 and 78 r.p.m. In addition, the variable speed control accelerates or decelerates speed to the limits of intelligible reproduction. Thus you can analyze a word syllable by syllable. The crack-proof case is covered with washable, scratch-resistant, fabrikoid with metal-guarded corners. Size: 6⅝" x 9⅝" x 14½". 110-125 Volts AC. Shipping weight 16 lbs.

*Perfect Gift For The* **LANGUAGE STUDENT**

**$49.99**

No. RP-254



ame unit as above with 4-speed, fixed speed phono motor.

do. RP-253 ..... **$44.99**

# Olson Stereo Headphone

★ Cushioned for Comfort



**No. PH-82**

**$14.98**

Individual volume controls on each phone make balance and volume adjustments easy and convenient. Phones are padded for extra comfort and are equipped with a 7-ft. flexible cord and standard three-circuit plug. Response 30 to 15,000 cps. Impedance 8 ohms. Shipping weight 5 lbs.

**INDIVIDUAL VOLUME CONTROLS**

25 Ft. Stereo Headphone
## EXTENSION CORD



No. W-447

**$2.29**

3 for $6

Three conductor cable with grey vinyl jacket. ⅛" 3 circuit plug on one end, 3 circuit jack on the other end. Shpg. wt. 1 lb.

## STEREO HEADPHONE JUNCTION BOX



Junction box for above headphones with 36" leads has selector switch to select headphones or speakers. Connect to any amplifier. Shipping weight ½ lb.

No. PH-83 ..... $1.98

# Olson *Deluxe* 2-WAY SPEAKER SYSTEM

BEST Gift BUY

★ Made In U.S.A.




**$12**

No. AS-844

## ACOUSTIC DAMPER

★ Compression Horn Tweeter
★ PM Dynamic 12" Woofer
★ Crossover Capacitor

Phenomenal bass response, full-bodied mid-range and silky smooth upper octaves are reproduced with unusually pleasing musical balance by this deluxe 2-way speaker system. Exceptionally "clean" bass is achieved by a revolutionary new design in woofer construction. An "acoustic damper," eliminates "booming" and "one-note" bass even in open-back cabinets. Now you can have "clean" bass at any setting of the Bass-Boost or Loudness Control of your amplifier. Woofer: response 20 to 3,000 cps, 8 ohms, 20 watt power capacity (40 watts peak). 2000 cps crossover automatically channels upper mid-range and high frequencies to a genuine compression horn tweeter for the utmost in clarity and balance. You will be thoroughly pleased with the thrilling performance of this fine system and amazed that so much performance can be purchased for such a low price. Response: 20 to 15,000 cps. Power capacity: 20 watts (40 watts peak). Size: Woofer: 12" x 5⅞". Tweeter: 4" H x 10½" W x 11½" L. Includes capacitor type crossover. Shipping weight 12 lbs.

## ★ UNITS AVAILABLE SEPARATELY ★

**HORN TWEETER**

★ Resp. 1,000 to 18,000 CPS
★ Shipping Weight 4 lbs

ORDER No. S-547 **$7.99**



**12" WOOFER**

★ Resp. 20 to 3,000 CPS
★ Shipping Weight 8 lbs.

ORDER No. S-574 **$7.99**



NEW

# Olson 2 Speed-Dual Track TAPE RECORDER

...World's Easiest To Operate!

The Perfect FAMILY GIFT!

★ Handsome Luggage Type Leatherette Case
★ Jack For External Speaker Or Headphor
★ Frequency Response: 40–12,000 CP



PATCH CORD



CRYSTAL MIKE



No. AM-232

**$54.98**

2 FOR $105

$7 MONTHLY

## Dual Speed TAPE RECORDER

★ Equipped with New "Sing-A-Long" Feature
★ Magic Eye Level Indicator
★ Response 50 - 15,000 cps



No. AM-233

**$69.98**

2 for $130

The new De-Luxe Olson tape recorder is designed to record and play high fidelity tapes and is equipped with a new "Sing-a-Long" feature which enables you to sing along with prerecorded tapes. Simply plug mike (included) into special sing-a-long jack and adjust volume control. Your voice is electronically mixed with the sound coming from the tape. Then both the pre-recorded sound and your voice come through the loudspeaker. Recorder uses all standard size reels including 7". Speed change is accomplished by means of a push-push type switch. Tape speeds are 3¾ and 7½ IPS. Dual track record/playback head gives twice as much recording time on same length of tape. Magic eye recording level indicator assures sharp clear recordings. Response: 50 - 15,000 CPS. Recorder is complete with microphone and patchcoard plus complete instruction book. Size: 14½ x 11¾ x 6½ for 110-125 volts AC 60 CPS. Shpg. wt. 26 lbs.



★ EASY TO OPERATE – ONE KNOB CONTROL

★ "MAGIC EYE" RECORDING LEVEL INDICATOR

High fidelity recording and playback at a budget price. This quality recorder operates two standard speeds 3¾ IPS and 7½ IPS. The faster speed gives greater fidelity for cording music. Speed change is quick and positive, simply remove capstan sleeve and st on post provided. Tone control permits adjustments of playback tone to suit your listeni taste. Has external speaker jack for the connection of a larger speaker or headphones desired. A highly sensitive crystal mike and a recording patch cord are included alo with an empty take-up reel. Proper recording level is indicated on a magic eye type i dicator. Handsome luggage type case comes in brown leatherette. Size 13½" x 10" x 110-125 volts AC. Shipping weight 21 lbs.

Toulon High School, Toulon, Ill., wins choice of merchandise worth $5 from Olson's "Treasure Hunt." back cover for instructions.

# 1200 Lucor STEREO 4-Track Tape Recorder



Mfgr's 1963 List Price ~~$339.95~~

**$169.99**

$11 MONTHLY

No. RA-610



★ Records Stereo—Plays Stereo
★ 2 Speeds, 3¾ and 7½ IPS.
★ 15 Watt Stereo Amplifier
★ 2 Dynamic Microphones

The Lucor "1200" full-stereo tape recorder com bines professional quality, features and performanc with ease of operation and attractive design. Sim lified controls assure perfect recordings, eithe monophonically or stereophonically. A hysteres motor assures consistently silent, smooth operatio The precision-engineered tape transport feature tension levers for accurate, constant speed. Record and plays both monophonically and stereophonicall in either 2 or 4 tracks. This professional quality re corder is completely self-contained. It may b played through its own high fidelity 5" x 7" speak ers or you can plug in extension speakers. Th sound reflectors on each side of the case give maxi mum separation with the built-in speakers. Th recorder may be used as a public address amplifie simply by turning on the monitor switch. Feature three panel meters, two for recording and one fo playback balance. Tape counter permits quick ref erence to any particular spot on the tape. The Luco 1200 is complete with 2 dynamic microphones, patch cords, 1 empty 7" reel and 7" reel of tapc Size 8½' x 17" x 15". For 110-125 volts AC, 60 cps Shipping weight 45 lbs.

BEST Gift BUY




# TRANSISTORIZED Portable Tape RECORDER

No. RA-594

**$59.98**

$7 MONTHLY

SMART GIFT FOR THE STUDENT

★ Capstan Drive
★ Ideal for Dictation
★ Two Standard Speeds, 1⅞ & 3¾

This all new transistor tape recorder features capstan drive for constant speed. Two standard speeds, 1⅞ and 3¾ IPS are selected by removing a sleeve on the capstan. Tapes recorded on this machine may be played back on any other tape recorder having the same standard speeds. Dual track record/playback head gives double the recording time. Push button on microphone starts and stops machine . . . ideal for dictation. Safety interlock button prevents accidental erasure of recorded tapes. Proper recording level is indicated by a level meter to assure the utmost in clarity. Uses popular 3-inch reels. Operates on 6 standard penlight batteries for greatest economy. Size: 7⅝" x 2⅜". Shipping weight 6 lbs.

Extra Batteries (6 req'd.) No. BA-67 ..... 8 for 59c




1800 Ft. ACETATE No. X-670
Lots of 3 to 95, Ea. $1.33
Lots of 96 or more, Ea. $1.25
EACH **$1.73**

2400 Ft. MYLAR No. X-740
Lots of 96 or more, ea. $2.50
No. X-740 EACH **$2.99**

# RECORDING TAPE

MADE IN U.S.A.

Made by one of the leading Tape Manufacturers, individually boxed. For use in all tape recorders. Each is on a 7" reel and may have splices. Shpg. wt. ¾ lb.

**1200 FT. ACETATE**

**99c EACH** No. X-673

Reg. $1.33 in 862 Cat.

# RECORDING TAPE

Shield

MADE IN U.S.A.

Finest mirror polished red oxide bonded to strong base. Response 50-15,000 cps. High Signal to noise ratio, low distortion and uniform output. Standard ¼" width for all recorders. Boxed. Shipping weight ¾ lb.

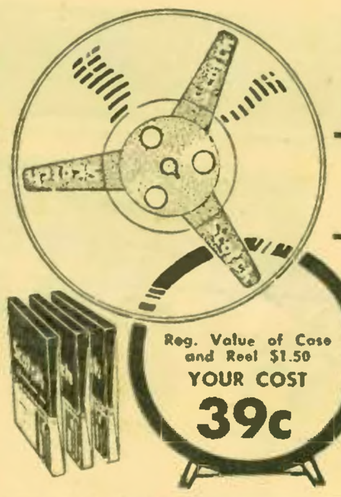


| Stock No. | Backing | Footage | Reel Size | 1 - 5 | 6-11 | 12-95 | 96 or more |
|---|---|---|---|---|---|---|---|
| X-249 | Acetate | 1200 Ft. | 7" | $1.99 Ea. | $1.69 Ea. | $1.49 Ea. | $1.30 Ea. |
| X-583 | Acetate | 1800 Ft. | 7" | 2.69 Ea. | 2.39 Ea. | 2.25 Ea. | 1.85 Ea. |
| X-692 | Mylar | 2400 Ft. | 7" | 3.99 Ea. | 3.79 Ea. | 3.69 Ea. | 3.00 Ea. |

# Scotch

## SELF THREADING 7" REEL

and SNAP TIGHT CASE
PLUS
3 1800 FOOT REELS OF POLYESTER TAPE



NO. TA-115 ALL 5 PIECES **$12.54**

Reg. Value of Case and Reel $1.50
YOUR COST **39c**

Regular value of this new self-threading reel is $1.50 but it costs you only 39c in this special package offer from Scotch. Also included are 3 rolls of Scotch No. 150-18, 1800 ft. of polyester tape on standard 7" reels. This revolutionary new reel threads the tape automatically. Just lay the tape inside the reel and start your recorder. The reel holds the tape gently but firmly, as recorder starts. No hooks, no slots, no attachments—no tape fumbles! This reel does away with thread-up problems. Shipping weight 2½ lbs.

## SCOTCH RECORDING TAPE

No. 120 HIGH OUTPUT—Replaces 111A at no additional cost, gives higher signal, less noise.
No. 190 EXTRA PLAY—Gives 50% more recording time from standard reel, 1 mil plastic base.
No. 150 EXTRA PLAY—1800', supersensitive, high potency oxide on polyester mylar backing.

SAVE—ORDER BY THE DOZEN

| STOCK NO. | MFG. TYPE | SIZE | DIAM. | LOTS OF 1 - 11 EA | LOTS OF 12 OR MORE |
|---|---|---|---|---|---|
| TA-13 | 120-6 | 600' | 5" | $1.47 | $1.32 |
| TA-14 | 120-12 | 1200' | 7" | 2.29 | 2.06 |
| X-468 | 190-18 | 1800' | 7" | 3.60 | 3.23 |
| X-707 | 150-18 | 1800' | 7" | 4.05 | 3.65 |

ROYALCORDER

# Portable TAPE RECORDER

★ Adjustable Speed Control
★ Recording Level Meter
★ 2-Way Microphone




No. RA-599

**$24.99**

Up to one hour recording time with new long play 600 ft. tapes. This is one of the most versatile portable recorders ever offered at such a low price. Accepts up to 7" inch reels. Dual track head permits two-track recording which doubles recording time. New "Hand 'N Stand" two-way mike stands on desk or you can use it as a hand mike. Push button switch on mike starts and stops recorder . . . ideal for dictation. Single switch makes operating this recorder as easy as turning on a radio, 5 transistor amplifier and 2½ inch PM speaker produce loud clear tones. Speed control adjusts speed as batteries become weak. Recording level meter indicates proper recording level for best fidelity. This meter also measures battery voltage when function switch is in play back position. Recorder also has a monitor jack and an earphone for monitoring tapes as you record. A jack is provided for an external speaker if desired. This excellent recorder comes complete with: batteries, earphone, mike, empty reel and a roll of tape. Shipping weight 6 lbs.

Extra Batteries: BA-67 (6 req'd.) ..... 8 for 59c
BA-41 (4 req'd.) ..... ea. 13c

# *Mayfair Transistor* TAPE RECORDER

★ 2-Speed 3¾ I.P.S. and 7½ I.P.S.
★ Capstan Drive
★ Dual Track



**$44.98**

2 FOR $86

NO. RA-607

The first high-fidelity, battery operated recorder at a moderate price. Records and plays at 7½ and 3¾ I.P.S. Fast speed (7½ I.P.S.) is ideal for recording music. Uses standard 5" reel. Push buttons make recording and playback foolproof. Record interlock switch prevents accidental erasure of tapes. Handsome luggage type leather case has metal trim and corner guards. Five transistor circuit and 2½" speaker deliver maximum volume and clear tone. Complete with: batteries, earphone, microphone, 5" reel of tape, empty reel and instruction manual. Size: 8" x 11" x 3⅞". Shipping weight 9 lbs.

Extra Batteries:
BA-53, 3 req'd (1½ volt) ..... ea. 13c
BA-89, 1 req'd (9 volt) ..... 21c

# AMERICAN Triple Length Recording Tape



★ A Full Day of Recording Time at 1⅞ IPS
★ 3600 Feet

Extra-play, extra-strength 3600' of Tensilized mylar base recording tape on standard 7" reel. Gives three times the playing time of standard 1½ mil tape. Super strong tensilized mylar prevents breakage, lasts extra long. Shipping weight ¾ lb.

No. TA-109 **$6.95** 12 or more Ea. $6.57

## NEW! PROFESSIONAL LENGTH TAPE

3000 ft. of tensilized mylar tape on a standard 7" reel. Shipping weight ¾ lb.

No. TA-116 ..... **$5.70**

## DICTAPE



Ideal for all miniature and battery operated tape recorders and dictating machines, except those using a custom reel. Packed in self mailer cartons. Shipping weight ⅛ lb.

| Stk. No. | Backing | Ft. | Reel Size | Lots of 1 - 9 | Lots of 10 or more |
|---|---|---|---|---|---|
| TA-10 | Dupont Mylar | 225 | 3" | 63c Ea. | 55c Ea. |
| TA-18 | Mylar | 300' | 3" | 69c Ea. | 64c Ea. |
| TA-49 | Mylar | 600' | 3¼" | 1.35 Ea. | 1.20 Ea. |

## TAPE HEAD DEMAGNETIZER



Just connect to 117 volts AC and move tip against tape head. Removes head magnetism and protects tapes from partial erasures or noise insertions. Shipping weight 1 lb.

No. RP-248, 3 for $9.40 ..... ea. **$3.19**

# BARGAINS!

## Empty Plastic REELS



No AS 614 **99c** 4 For $3.50

3" REELS
★ Kit of 5
Fits all miniature and standard tape recorders.

MORE REEL BARGAINS!

| Stock No. | Size Reel | Lots of 1 - 9 | Lots of 10 - 99 | 100 or MORE |
|---|---|---|---|---|
| X-250 | 5" | 29c Ea. | 25c Ea. | 20c Ea. |
| X-251 | 7" | 45c Ea. | 35c Ea. | 25c Ea. |

## 750 Ft. Recording Tape



★ 3 Mailing Boxes
★ 3—3" Reels of Tape

No. TA-107 ALL 3 FOR **$1.19**

Three reels of high quality, 1 mil, acetate recording tape. Each in its own mailing box. Ideal for tape letters or dictation. Standard 3" reel fits most miniature and battery operated recorders. Ship. wt. ½ lb.

Dels Radio Serv., Charles N. Dalton, Box 184, Circleville, Utah, wins choice of merchandise worth $5 from Olson's "Treasure Hunt." See back cover for instructions.

5

## TAPE ERASER

★ Erases reel of tape instantly



**$11.91** No. TA-8
3 for $35.00

Quickly and efficiently erases your recording tape to provide better, noise free recordings. Lowers signal-to-noise ratio and uses tape fully, without having to record on tape recorder. Can also demagnetize record and playback heads. For 110-125 volts A. C. Shipping weight 6 lbs.

## TAPE SPLICER KIT



Includes instructions, plastic container, splicer, cutting blade and supply of splicing tape tabs. Shipping weight ¼ lb.

No. AM-23, 3 for $4.00 ..... Ea. 1.49

## Telephone Pickup



Record or amplify both sides of a telephone conversation. No connection to telephone necessary. Has 6 ft. shielded lead 5/8" dia. x 2". Shipping weight ¼ lb.

No. M-133, 3 for $5.50 ..... Ea. 1.89

## Flat Telephone Pickup



Place under phone to hear both sides of telephone conversation. Connects to magnetic input of any amplifier or tape recorder. Size: 3½"x1½"x⅛". Shipping weight ¼ lb.

No. M-143 ..... Ea. 1.79

## Bulk Tape ERASER

★For 3", 5", 7" or 10½" Reels



**$18.95** No. TA-7
3 for $55.00

Will erase any magnetic recording tape from ¼" to 1" width. Just place the reel on spindle of the demagnetizer, slowly rotate 2 or 3 turns and tape is completely erased. Housed in rugged case with Power Switch, Fuse, Pilot Light, Spindle and A.C. cord. For 110-125 volts A.C. Size: 6½" x 7⅝" x 3". Shpg. wt. 10 lbs.

## RECORDING TAPE CHEST



No. X-547 **$2.99**

Holds 12-7" reels or cans. All steel, grey enamel. Double safety catch, folding handle. Shpg. wt. 4¾ lbs.

## 7" Tape Storage Can Made in U.S.A.



Steel construction blue hammertone enamel. Shipping weight ½ lb.

No. X-546, 3 for $1.00, 12 lot, ea. 30c ..... Ea. 39c

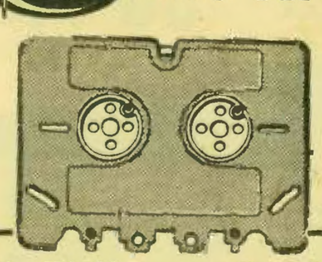
## Recorder PATCH CORD



Record from Radio, TV or Phono. With pin plug, adapter & 2 clips 6' long. Shipping weight ⅛ lb.

No. W-269, 3 for 2.00 ..... Ea. 69c

## TAPE Cartridge KIT



No. TA-48 (Less Tape) **$1** PER KIT . . .

Write for special large quantity prices

| | |
|---|---|
| 4 KITS plus 2400 FT. MYLAR TAPE | No. AS-734 |
| Shpg. wt. 3 lbs. | $5.91 |

NOW! Assemble your own tape cartridge in minutes—and save. All mechanical parts and materials to make a standard tape cartridge. Cartridge fits all standard cartridge recorders such as Viking, RCA, Bell and others. Complete with easy to follow instructions. Shipping weight ½ lb.

## BLANK TAPE CARTRIDGE

★ Loaded—Ready to Use

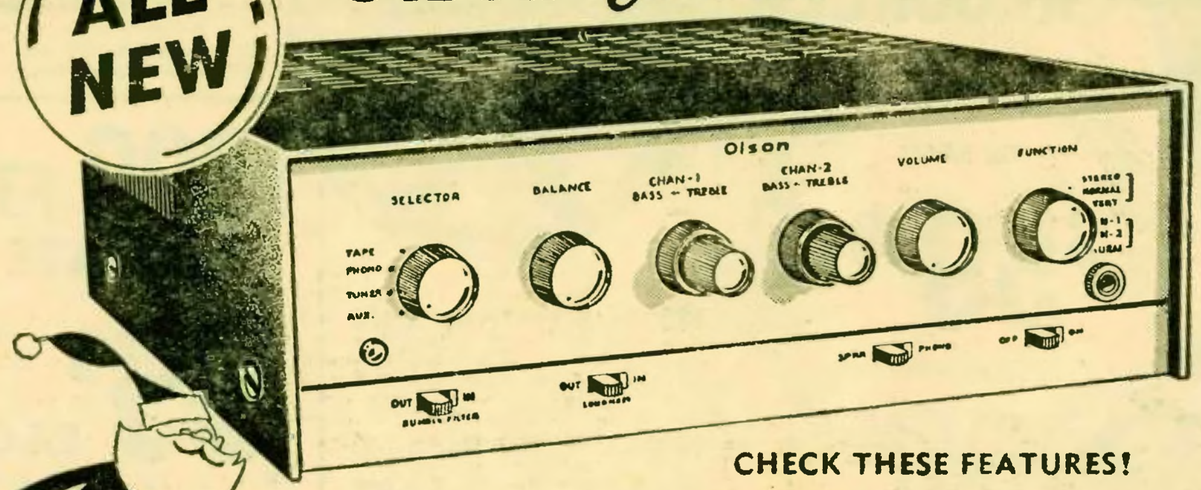
The new modern, pre-loaded tape cartridge. No threading. Just drop cartridge in place and you are ready to record or playback. Cartridges are tangle free and failure proof. All are loaded with at least 200 ft. of 1 mil mylar tape. Slightly used. Shipping weight ½ lb.

No. TA-76 ..... $1.66

WRH

ALL NEW

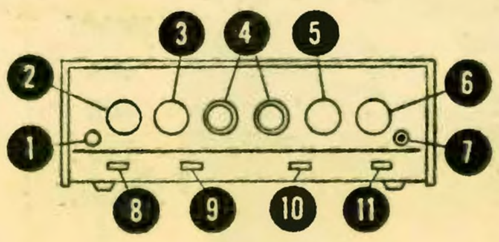
# Olson "Classic" 30 Watt STEREO AMPLIFIER




- ★ Highest Quality and Lowest Price
- ★ Response 30 to 25,000 cps.
- ★ Matchless Styling and Performance
- ★ Stereo Headphone Jack

**$69.98**
No. AM-229
$7 MONTHLY

## CHECK THESE FEATURES!




1—Pilot Lamp
2—Input Selector
3—Balance
4—Tone
5—Volume
6—Mode Selector
7—Stereo Headphone Jack
8—Rumple Filter
9—Loudness
10—Speaker—Earphone Selector
11—Power OFF-ON

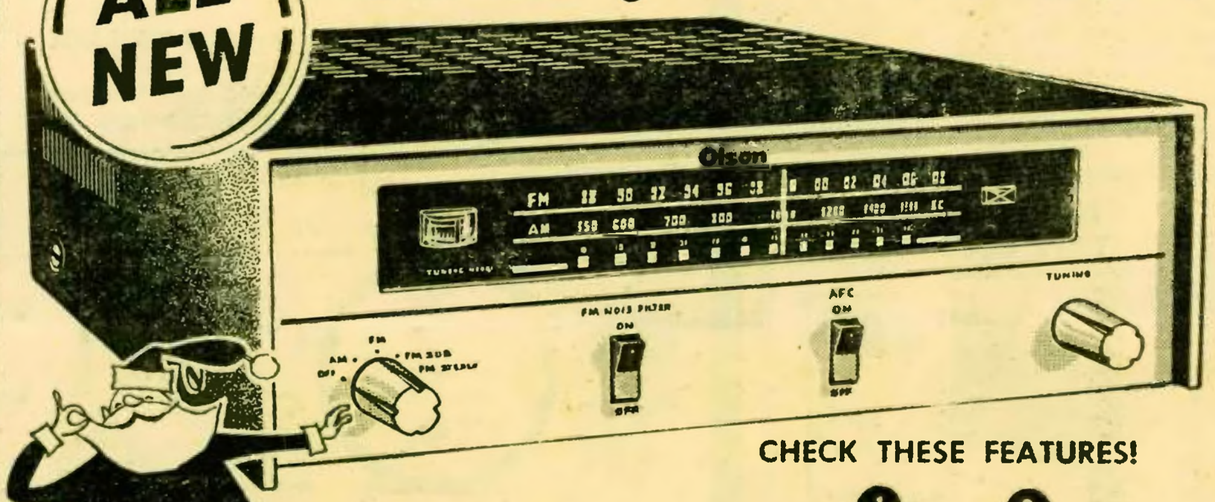
Olson's buying know-how and on-the-spot follow-through in manufacturing result in styling and performance that is second to none. Superior quality is evident even before you turn on the switch. One look at the elegant styling . . . the brushed aluminum panel . . . the handsome, textured finish cabinet and you know that here is an outstanding value. But appearance is only half of the story. This "Classic" amplifier has all the features and performance of amplifiers selling for much more than Olson's low price. Specifications: Power Output 30 watts, 15 watts per channel. Frequency response: ± 0.5 db., 30 to 25,000 cps. Harmonic distortion: less than 1% at 10 watts. Hum and Noise: more than 60 db. below rated output. Output Impedance: 4, 8, and 16 ohms. Tape Output: high impedance. Tube Complement: 2-12AX7, 4-6BM8, and 1-6CA4. Power Supply: 110-120 volts A.C. 60 cps. Dimensions: 14¾" W. x 9¼" D. x 5⅜" H. with legs. Shipping weight 23 lbs.

**Complete set of metal knobs to match tuner below.**
**No. KN-19** $1.99

**No. AS-861 BOTH FOR $142**

ALL NEW

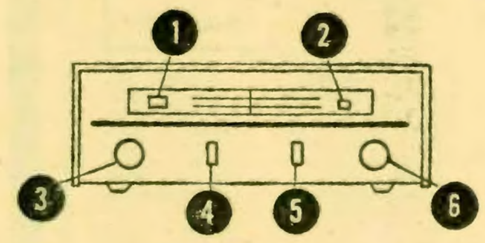
# Olson "Classic" FM-AM-FM STEREO TUNER




- ★ Built in Multiplex
- ★ Side-Band Switch selects Stereo Stations
- ★ Built-in Tuning Meter
- ★ Brushed Aluminum Panel and Knobs

**$79.98**
No. RA-580
$8 MONTHLY

## CHECK THESE FEATURES!



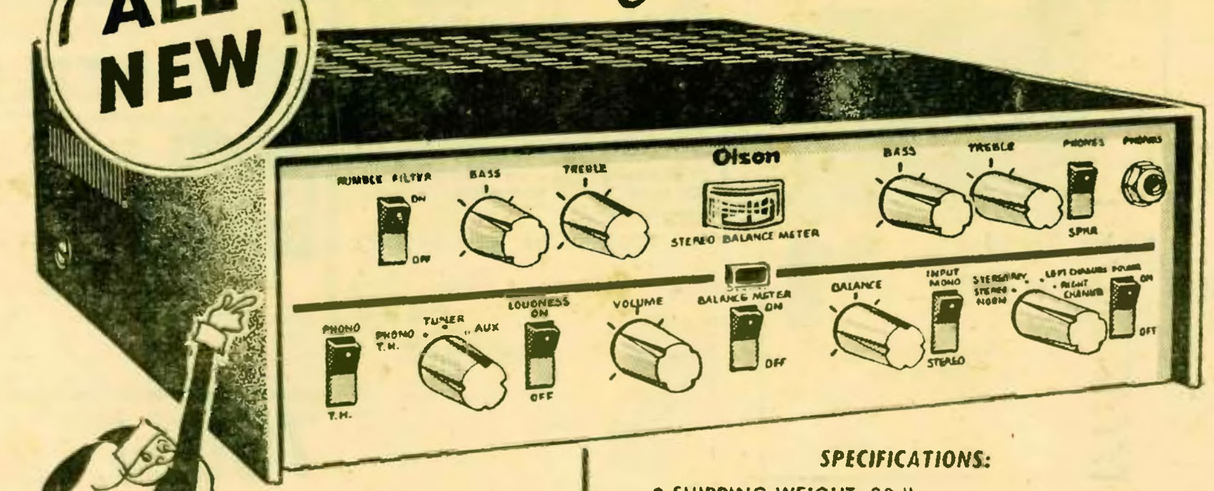

1—Tuning Meter
2—Stereo Pilot Light
3—Side Band Switch
4—FM Noise Filter
5—AFC
6—Tuning

All the latest advances in circuit design have been incorporated into this top rated tuner to give you the ultimate in performance. An example of this advanced design is the exclusive Side-Band switch which permits you to select only those stations which are broadcasting a multiplex signal. No more tuning around looking for the stereo station in your area. An excellent multiplex circuit has been incorporated into the design in order to make possible the finest reception of FM Multiplex Stereo Broadcasts. Truly effective AFC locks in even the most difficult stations. FM noise filter eliminates hum and noise caused by reflected radio waves. Specifications: Sensitivity: 2 uv. for 20db signal to noise ratio. FM: IF Band Width: 200 kc. Response: FM 20-20,000 cps. Image Reflection: better than 40 db. Ferrite loopstick antenna for AM. Tubes: 1-6AL5, 3-6AU6, 1-6X4, 2-6BA6, 1-2AT7, 1-6BE6, 1-6BN8, 1-12AU7, and one 6R-HH2. Size: 14⅞" W. x 10⅝" D. x 5⅛" H. with legs. For 110-125 volts A.C., 60 cps. Shipping weight 18 lbs.

**No. AS-862 BOTH FOR $172**

ALL NEW

# Olson "Classic" 50 Watt STEREO AMPLIFIER




- ★ Response 15 to 40,000 cps.
- ★ Brushed Aluminum Panel & Knobs
- ★ Stereo Headphone Jack
- ★ Balance Meter

**$99.98**
No. AM-240
$10 MONTHLY

A Fine Gift of Year Around Listening Enjoyment

### SPECIFICATIONS:

- SHIPPING WEIGHT: 30 lb.
- POWER OUTPUT: 15 to 40,000 cps.
- HARMONIC DISTORTION: less than 1%
- OUTPUT IMPEDANCE: 4, 8, and 16 ohms
- CHANNEL SEPARATION: Greater than 50 db.
- HUM & NOISE: 75 db. below rated output
- TUBES: 5—12AX7, 4—7189 plus silicon rectifiers
- SIZE: 14¾" W. x 10⅝" D. x 5⅛" H. with legs
- POWER SUPPLY: 110-125 volts A.C. 60 cps.

This "Classic" stereo amplifier is completely new from cover to output terminals. Truly an outstanding example of advanced style and design. Handsome front panel of brushed aluminum is accented by polished aluminum knobs and all new rocker switches. Cabinet is texture finished in gray with ventilating louvers for cool efficient operation. Electronically this is one of the finest amplifiers we have ever had the pleasure of listening to. Features individual treble and bass controls for each channel plus volume and balance. Slector switch selects: magnetic phono, tape head, tuner and aux. New easy to use rocker switches operate: loudness, meter (off-on), mono/stereo, earphone/speaker, rumble and phono/tape head.

Moon TV Serv., Donald E. Moon, P. O. Box 144, Van Buren, Ind., wins choice of merchandise worth $5 from Olson's "Treasure Hunt." See back cover for instructions.

# Olson Classic

# FM-AM-FM STEREO TUNER & STEREO AMPLIFIER

ALL NEW




No. RA-581

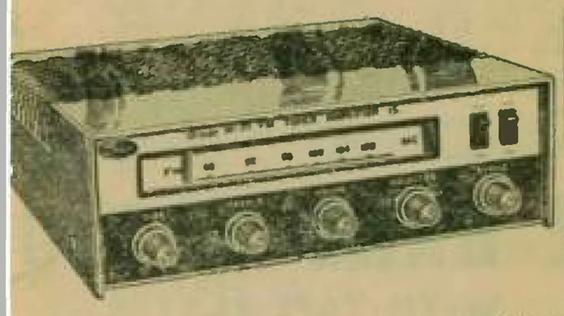
**$89.98**

$9 MONTHLY

- ★ 15 Watt Stereo Amplifier
- ★ Built-in Multiplex Stereo
- ★ Magic-Bar Tuning Indicator
- ★ Stereo Headphone Jack
- ★ 11 Tubes—18 Tube Performance

Studio quality and elegant styling combined at an unbeatable Olson price. 15 Watts Stereo music power combined with an extremely sensitive AM-FM tuner provides the basis for the finest home or professional music system. Every styling appointment and every advancement in electronic circuitry has been designed into this stereo receiver to give you the utmost in beauty and performance. Super sensitive tuner receives AM, FM and FM multiplex. Magic bar tuning indicator assures positive on-station tuning. 8 controls provide every desired adjustment for the most critical listener. 11 tubes give 18 tube performance. Power supply uses silicon diodes for cool efficient operation. Specifications: POWER OUTPUT: 15 watts, 7½ watts per channel. FREQUENCY RESPONSE: ±3db, 50 to 20,000 cps. HARMONIC DISTORTION: less than 2%. OUTPUT IMPEDANCE: 4, 8 and 16 ohms. CONTROLS: Selector: phono, FM, FM/AFC, MPX, AUX. Volume, balance, treble, bass, tuning, power and speaker/headphone. POWER SUPPLY: 110-125 volts A.C. 60 cps. TUBE COMPLEMENT: 2-6AQ8, 1-6BA6, 2-12AX7, 2-6AU6, 1-12AU7, 2-6BN8 and 1-6RE13. Size: 13½" W. x 10½" D. x 5" H. Shipping weight 19 lbs.

## Olson
## FM Hi-Fi TUNER/15 Watt AMPLIFIER

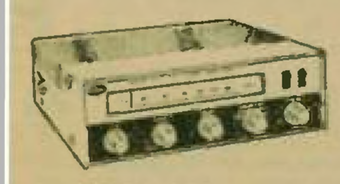


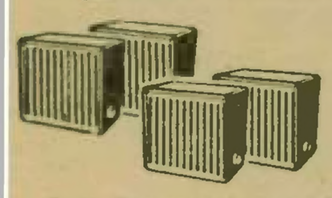
$69.95 No. RA-433 — $7 MONTHLY

- ★ Provisions for Multiplex
- ★ Switchable A.F.C. —
- Sensitivy: 3 microvolt for 20 db quieting
- A.F.C.: Reactance tube system
- INPUTS: Mag. 5MV., Tape Aux. 100 MV.
- OUTPUTS: 15 Watt Music Power
- Resp.: ± 1 db 20 20,000 CPS at 1 Watt
- POWER SUPPLY: 110-125 V. AC, 60 CPS
- SIZE: 11⅞" W x 9⅛" D x 4⅛" H

The flawless styling and brilliant performance makes this FM tuner-amplifier an ideal unit for any home music system. Olson FM tuner-amplifier is also ideally suited for background music in doctor or dentist's office and waiting rooms or can be used in factories or restaurants. The FM reception provides a constant source of ever changing high fidelity music. You can plug in your record changer or tape recorder to play your choice of music. The amplifier is equipped with input for ceramic cartridge and pre-amplified input for magnetic phono cartridges. Tuner has Multiplex jack for FM stereo reception. Add this to your present high fidelity system to convert to stereo. Shipping weight 18 lbs.

## BACKGROUND MUSIC SYSTEM





NO. AS-843 — $10 MONTHLY — ALL 5 UNITS... **$94**

HERE'S WHAT YOU GET:

| | |
|---|---|
| 1—RA-433 FM Tuner & Amplifier (above) | $69.95 |
| 4—S-409 8" Speaker & Baffle (pg. 14) | 4 for 32.00 |
| Total Regular Catalog Price | $101.95 |

J. V. Reeves, 505 Grandview Ave., Muscatine, Iowa, wins choice of merchandise worth $5 from Olson's "Treasure Hunt." See back cover for instructions.

## Olson
## 15 WATT Stereo Amplifier

- ★ Response 20-20,000 CPS
- ★ Built-In Preamplifiers




No. AM-217 — ONLY **34.98**

Headphone Jack

This compact stereo amplifier really packs a punch. All the features—all the flexibility of the "BIG ONES" at a fraction of the price. Built-in pre-amps to accommodate any magnetic cartridge. Output impedance 4, 8 and 16 ohms. Has standard 3 circuit jack for most stereo headphones. Handsomely styled, satin finished in gold and contrasting brown. With metal cabinet. SPECIFICATIONS: Output: 15 watts, 7.5 watts per channel. Frequency Response: 20-20,000 CPS. Power Supply: 110-125 volts 50/60 CPS. Dimensions: 12¾" x 5⅛" x 8¼". Shipping weight 16 lbs.



No. AS-841 — $69.99 — $7 MONTHLY

## STEREO ON A BUDGET

HERE'S WHAT YOU GET:



| | |
|---|---|
| 1—15 Watt Stereo Amp. No. AM-217 (above) | $34.98 |
| 1—PE 4-speed Changer No. RP-250 (pg. 9) | 18.00 |
| 2—Sonora 8" Speakers & Baffles No. S-539 (pg. 2) | 23.00 |
| Total Regular Catalog Price | $75.98 |

★ Accessories ★

| | |
|---|---|
| Changer mounting base, CA-260 | $3.88 |
| 45 RPM adpt. spindle, No. RP-240 | 2.49 |
| A.C. line cord, No. W-43 | .29 |
| 2—5-ft. Audio cables, W-321 2 for | 1.30 |

## FM STEREO TUNER/30 WATT STEREO AMPLIFIER

Manufactured by **PILOT**

A Gift for the Entire Family




★Made in U. S. A.

★ BUILT-IN MULTIPLEX

★ MAGIC EYE TUNING INDICATOR

Remarkably sensitive FM stereo tuner along with a 30-watt stereo amplifier that will drive any fine speaker system to full room level. A significant feature of the tuner is the stereo beacon that lights when you tune in a stereo station. The amplifier has two heavy duty output transformers and a rugged power transformer for long lasting dependable service. Separate bass and treble controls plus loudness switch give you the greatest possible flexibility. Tape monitor allows you to hear the signal you have recorded on tape a fraction of a second after it has been recorded. Mode switch permits playing any mono signal through both channels. An AC convenience outlet is located on the back of the amplifier to supply power to your record changer. Tuner sensitivity: 4 μv. Amplifier response: 10 to 30,000 cps, output impedance 8 and 16 ohms, output power 30 watts—15 per channel. Complete with vinyl covered metal cover and mounting instructions. Front panel is finished in brushed aluminum to contrast with any decor. Size: 6" high x 15⅝" wide x 10¾" deep. Shipping weight 24 lbs.

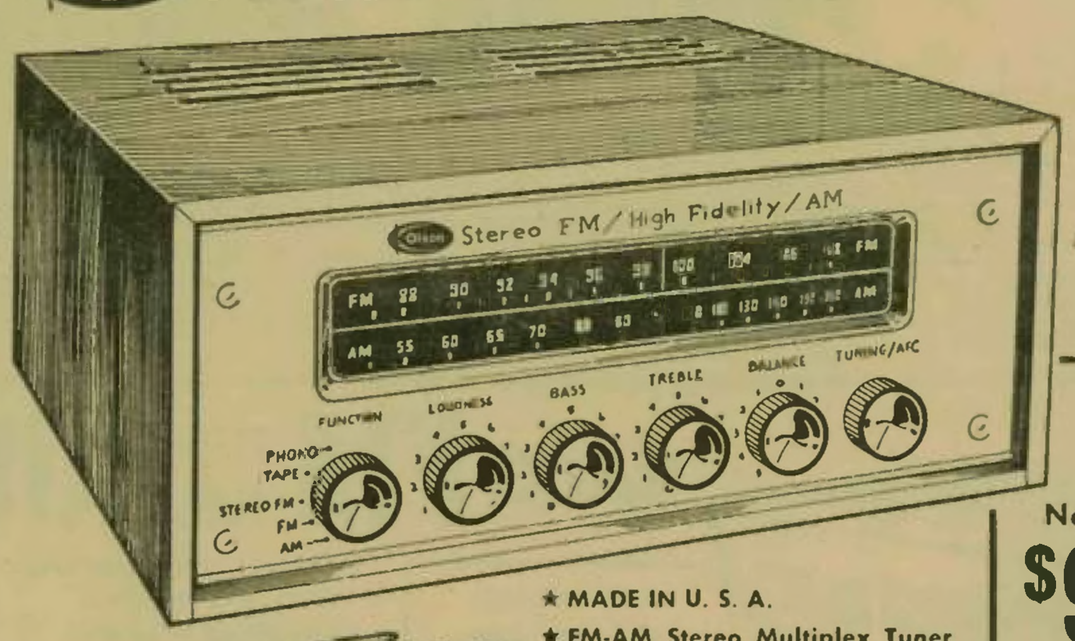
No. RA-600

**$149.99**

$9 MONTHLY

★ Complete With Cabinet

## Olson FM-AM-FM STEREO TUNER AMPLIFIER




Why Not Make it a **STEREO** Christmas?



No. AM-230

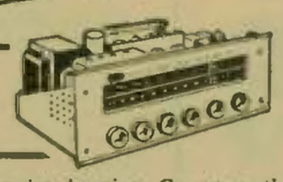
**$99.93**

$10 MONTHLY

Less Cabinet

- ★ MADE IN U. S. A.
- ★ FM-AM Stereo Multiplex Tuner
- ★ 20 Watt Power Amplifier
- ★ Built-In Preamplifier
- ★ Illuminated Slide Rule Dial

FOR CUSTOM INSTALLATION

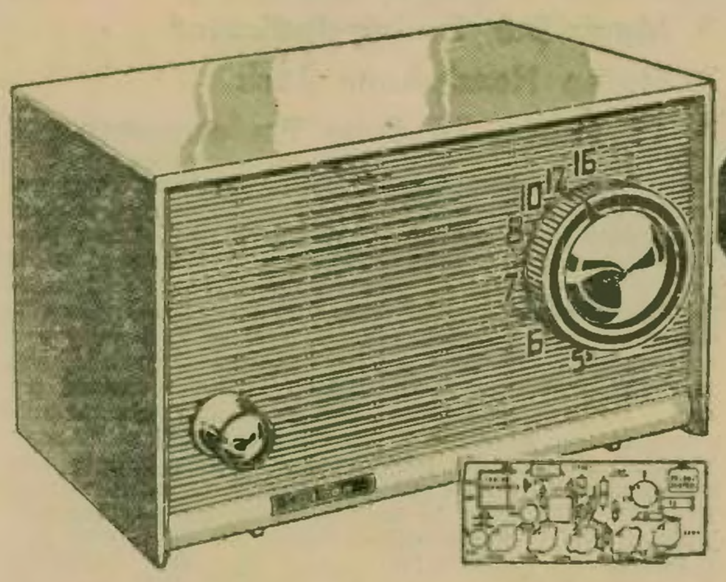


Olson breaks the price barrier. Compare the specifications . . . compare the quality . . . compare the design. Olson purchasing "know-how" keeps the price low. Twenty watts of stereo power combined with an FM-AM stereo tuner provides in one compact unit an unsurpassable control center. The perfect heart for even the finest stereophonic music system. Every needed feature has been included to give you the best from tape, records or radio. Employs the most advanced circuitry, including AFC for perfect drift-free FM reception. Specifications: Power: 20 watts (10 per channel). Response: 40-20,000 cps. Inverse feedback for minimum distortion. Built-in preamplifiers to accommodate any magnetic cartridge. Separate bass and treble controls, loudness and balance control. AFC defeat switch on tuning shaft. Size: 14½" x 5¼" x 10½" D. Shipping weight 20 lbs.

OILED WALNUT CABINET for Tuner-Amplifier above, No. CA-277 ..... $15

# Fantastic KIT BARGAINS

## 5 Tube Printed Circuit RADIO KIT



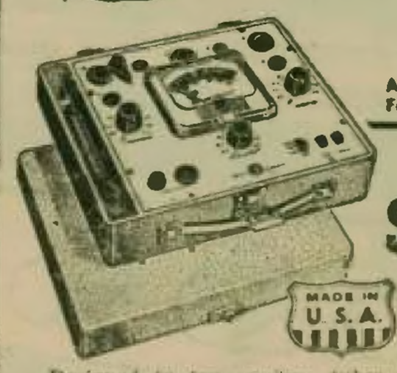
PRINT-A-BOARD

**$8.98** No. KB-150 (less tubes)

The mounting of each part is a simple operation because of the specially designed "Print-a-Board" circuit board layout employed, coupled with the easy to follow "Quick-Step" instructions. The high gain tubes, IF transformers and ferrite bar antenna result in excellent sensitivity. 4" PM speaker. 110-125 volts AC or DC. Shipping weight 5 pounds.

KIT OF 5 TUBES FOR ABOVE
No. AS-533 ____ Per Kit **$2**

## Olson Portable TUBE TESTER KIT



**PRE-FAB KIT CONSTRUCTION**

All Major Components Premounted and Tested at Factory

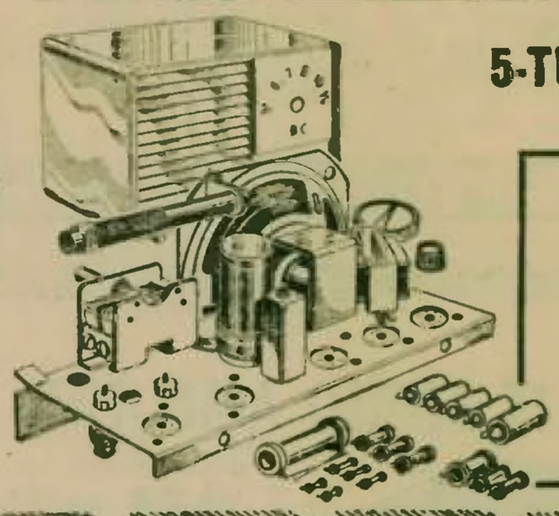
No. KB-142
**$17.95**

- ★ Checks All Modern Tubes
- ★ Checks Shorts & Leakage Between all elements
- ★ A Pleasure To Build

Designed to test modern tubes in radio, TV and HI-FI equipment. Single rotary switch speeds operation over slow combination slide switches. Simply plug tube into appropriate socket, set filament switch for proper voltage and rotate element switch, shorts show on leakage indicator. Tube emission is read on large easy to read meter face as good, ?, bad. Olson's easy to read step-by-step instruction manual with large, clear diagrams assure professional style construction and performance. Housed in handsome, rugged carrying case with removable cover. For 110-125 volts AC 60 CPS. Size: 10½" x 8½" x 3½". Shipping weight 6 lbs.

OLSON TUBE TESTER (NOT A KIT wired & ready to use) No. TE-153 ____ $21.95
Picture Tube Test Adaptor No. TE-154 ____ $ 3.83

## 5-TUBE AC-DC RADIO KIT

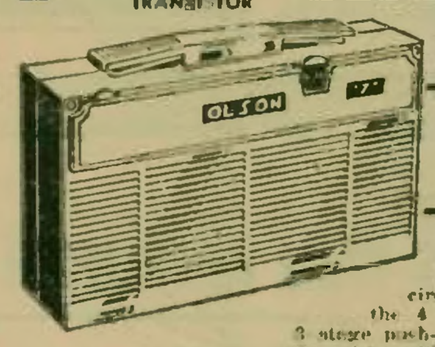


No. KB-83
**$8.49**
3 for $24

Consists of prepunched chassis, sockets, IF. transformer and coils, oscillator coil, hi "Q" loopstick antenna, gang, 4 PM speaker, cabinet, output transformer, capacitors and resistors to build a sensitive superheterodyne broadcast band (530-1600 KC) receiver. 8 page instruction manual has 6 full page illustrations to simplify construction. Size: 6½" x 3½" x 4½". For 110-125 volts AC or DC. Less tubes. Shipping weight 4 pounds.

KIT OF 5 TUBES FOR ABOVE
No. AS-533 ____ Per Kit **$2**

## 7 RAYTHEON TRANSISTOR RADIO KIT



- ★ Preassembled Printed Circuit
- ★ Large 3" PM Speaker
- ★ 7 Raytheon Transistors

No. KB-137
OLSON PRICE . . . **$15**

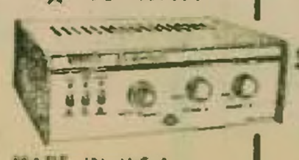
MADE IN U. S. A.

Housed in a handsome Hi-impact styrene case. Construction is simplified through use of two pre-wired printed circuit modulars. One modular contains the 4 stage tuner and the other modular a 3 stage push-pull audio amplifier. 7½" x 4½" x 2". Complete with all parts and instructions. Less batteries. Shipping wt. 2½ lbs.

Batteries (4 req'd.) No. BA-o7 ____ 8 for 59c

## MERRELL Stereo Amplifier Kit

★ 16 WATT



No. KB-151
**$29.95**
Lots of 3, Ea. $29
(Less Cover)

MADE IN U.S.A.

Complete with large, clear, step-by-step instructions. Power Output: 8 watts per channel. Peak Power Output: 16 watts each channel; 32 watts combined peak power. Frequency Response: 20 to 20,000 CPS. Inputs: 6 (3 pairs) mag. phono/tape, tuner, crystal phono. Output Impedance: 8 ohms. Tubes: 2—7025/ECC83/12AX7; 2—EL84/6BQ5; 1—5Y3 rectifier. Size: 12½" wide x 8" deep x 4½" high. 110-125 Volts AC, 50-60 CPS. With tubes and instructions. Shipping weight 15 lbs.

COVER FOR AMPLIFIER
No. CA-268 ____ $4.95

## MERRELL Stereo Amplifier Kit

★ Williamson Type Circuit
★ Decorator Styled Panel
★ 40 Watts
Made in U. S. A.

No. KB-162
**$49.95**
(less cover)

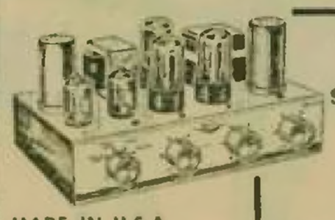


Power Output of each channel is 20 watts. Frequency response is 20-20,000 cps. Front Panel Controls: Function Selector, Dual Loudness Control, Balance Control, Dual Bass Control, Dual Treble Control. Switches: Mode, Stereo Monaural, Equalization, Power. 4 Dual Inputs: Tape/Lo Phono, Hi Phono, Tuner, Auxiliary. Outputs: Dual Tape, 4, 8, 16 ohm speakers. Tape Equalization: NARTB. Record Equalization: RIAA, Tube Complement: 2-7025/ECC83/12AX7, 4-EL84/6BQ5, 2-ECC81/12AT7. For 110-125 volts A.C. 60 cps. With tubes and instructions. Shpg. wt. 26 lbs.

Cover for Amp
No. CA-296 ____ $8.95

## MERRELL 12-Watt Amplifier Kit

★ Williamson Type Circuit



No. KB-68
**$19.66**
Lots of 2, Ea. $19

MADE IN U.S.A.

Response ± 1DB 20 to 20,000 CPS, 4 inputs: magnetic phono: tape; crystal phono; tuner/radio; mike/aux. Output impedances: 4, 8, and 16 ohms, special design Williamson type output transformer, 4 controls, function, loudness, bass, treble/power switch. 5 tubes: 1—12AX7/ECC83, 1—12AT7, 2—6V6 and Rectifier Tube. Size: 11" x 7". 115-125 V A.C. 50-60 CPS. With tubes and instructions. Shipping weight 11 lbs.

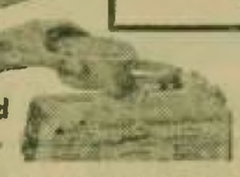
## Westrex TRANSISTORIZED 2-BAND RADIO WITH TAPE PLAYER

★ Portable



**$25** No. RA-55[illegible]
Mfr. 1961 Suggested List $99.95

★ AM Band
★ Marine Band
★ Tape Player



Magazine loading tape cartridge just drops in to play—no reels to handle—no threading—no rewinding. Easier to handle than a record. Insertion of tape cartridge into player is simple and absolutely foolproof.

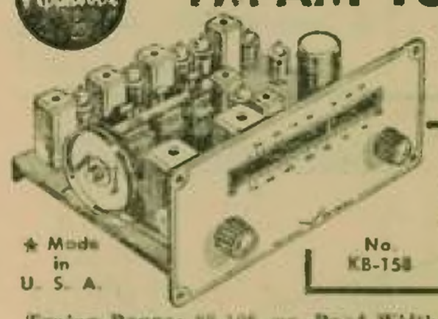
This Westrex powerful 2-Band Radio w unique portable Tape Player features pu button operation and makes band selecti quick and positive. Radio circuits and ta player function entirely on battery pow Operates on standard 6 volt lantern batte (not included). Low drain transistor circ Has built-in jacks for phono and exter speaker. Marine band: 150 KC to 200 KC, A band tunes 530-1600 KC. Size: 12" x 8" x Shipping weight 14 lbs.

Battery (1 req'd.) No. BA-92 ____ $1

FM-AM, Short Wave, Tape Player, No. RA-557, $60 in 263 Cor., NOW ____ $

## Imperial FM-AM TUNER KIT

12 TUBES
5 μV Sensitivity



★ Made in U. S. A.

Mfr's. 1961 List Price $38.50
No. KB-158
**$33**

Tuning Range: 88-108 mc. Band Width: 200 kc. Sensitivity: 5uv - 20 db. Response: 20-20,000 cps. Tubes: 6BQ6, 2-6AB4, 4-6AL5, 6AL5, 6CL. AM Specifications: Tuning Range: 530-1650 kc. Tuned RF stage. Sensitivity: 5 microvolts. Size: 9⅝" L x 5" H x 2" W. NOTICE: External power supply requirements: 120 volts DC @ 55 ma. and 6.3 volts AC @ 4 amp (can be tapped from amplifier power supply).

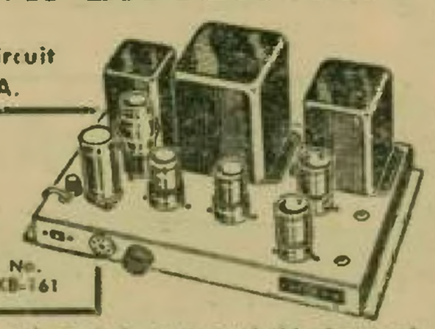
**Approved FM TUNER KIT**

Nine tubes. Slide rule dial. No drift temperature compensated components. Shpg. wt. 9½ lbs. (Mfr's 1961 price $33.50).
No. KB-157 Mfg. 1961 Price $33.50 ____ EA. $25

## 20 Watt AMPLIFIER KIT

★Williamson Circuit
★Made in U. S. A.

MFR'S 1961 NET PRICE $47.50
**$29**
No. KB-161



Beautifully designed and precisely engineered this Approved Ultra-Linear WILLIAMSON CIRCUIT Amplifier Kit is one of the finest amplifiers of its kind on the market. Complete 24 page illustrated instruction book included. Requires preamplifier with volume and tone controls. Specifications: Response, 10 to 100,000 cps. ± .5 db. Harmonic distortion, .5% —20 to 20,000 cps. IM distortion, 1% 60 cps. 6/12 watts. Hum level, —78 db. Output, 4-8-16 ohms. Tubes, 2—6SN7GT, 2—5881, 5V4G. Size: 15" L. x 7" H. x 9" W. 110-120 volts AC 60 cps. Shipping weight 26 lbs.



Mfr. 1961 Suggested List: $69.95
**$15** No. RA-555

Westrex Transistorized
**TAPE PLAYER**

Same fine features as RA-557 but less radio it's a tape player only. With transistorized push-pull amplifier and wide range speaker for hi-fidelity reproduction of your favorite pre-recorded music (less battery). Size: 12" x 8" 4½". Shpg. wt. 13 lbs.

Battery (1 req'd.) No. BA-92 ____ $1.

## NEW! Westrex PRE-RECORDED TAPE

20 MINUTE TAPES YOUR CHOICE . . . $2
Shpg. wt. ¼ lb.



ONE HOUR TAPES YOUR CHOICE . . . $4.50
Shpg. wt. ½ lb.

TA-97 HELEN O'CONNELL: Embraceable You, Brazil, Blue and Broken Hearted, others.

TA-98 SONS OF THE PIONEERS: One More Ride, Hasta La Vista, For Enchanted Isle, others.

TA-99 DOROTHY OLSON: Children's songs. Barnyard Song, The Little Duck, Butterfly, others.

TA-100 HIT PARADE: Tossin and Turnin', Bad Weevil Song, Stand By Me, others.

TA-101 DANCE FAVORITES: Fox-trot medle from My Fair Lady, Damn Yankees others.

TA-102 LATIN MELODIES: Lisbon Antiqu Brazil, Tico Tico, Cuanto le Gusta, Perfidi others.

TA-103 MOOD MUSIC: Selection from Rodge Porter, Blue Moon, Misty, Indian Summe others.

TA-104 DANCE FAVORITES: The Lady is Tramp, Apple Blossom Time, My Blue He ven, others.

TA-105 TOPS IN POPS: Pretty Little Ang Eyes, I've Told Every Little Star, I'll There, others.

TA-106 LET'S DANCE: Blue Moon, Stor Weather, Solitude, Stardust, Singin' In T Rain, others.

Portland High School, Portland, Maine, wins choice of merchandise worth $5 from Olson's "Treasure Hunt." See back cover for instructions.

MADE IN U. S. A.

## PACO FM STEREO TUNER Kit



No. KB-148
(Less Cover)
ONLY **$45**

- ★ COMPLETE WITH MULTIPLEX
- ★ "MAGIC EYE" TUNING
- ★ COMPATIBLE WITH ANY STEREO SYSTEM

A complete FM Stereo / Multiplex tuner kit, budget priced, with the features, and performance of much higher priced units. Enjoy the fun of building your own FM multiplex tuner, but with complete assurance of success. Complete well illustrated instruction manual, carefully marked and packaged parts, prealigned shielded front end. No effort has been spared to make this the finest FM tuner kit available. Check these specifications—Freq. response: 30-15,000 cps ±2 DB. Distortion, less than 1% at 100 micro-volts input. Wide Band Ratio Detector. Dual Limiters. AM Suppression: better than 25 DB. IHFM Sensitivity: 4 microvolts. Quieting Sensitivity 1.5 microvolts for 20 DB. 2.5 microvolts for 30 DB. AFC defeat. Eye type tuning indicator, and smooth fly wheel tuning. Size: 13" Wide x 8¾" Deep x 3½" High. For 110-125 volts AC, 60 CPS. Shipping weight 20 lbs.

Metal cabinet for above, No. CA-261 ____ $4

NEW!



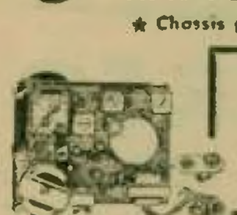
PREASSEMBLED FRONT END



EASY TO FOLLOW INSTRUCTIONS

## 6 TRANSISTOR RADIO CHASSIS

★ Chassis pre-wired



No. KB-145
**$5.97**
Less Transistors

Miniature 6 transistor radio chassis for custom mounting anywhere. Completely assembled and ready to mount (less transistors). Powerful push-pull output will drive any size speaker to room filling volume. Has earphone jack. Uses standard 9 volt battery (not included). With transistor mounting instructions. Size: 2¼" x 3" x 1¼". Standard shirt pocket size. Shipping weight ¾ pound.

Set of 6 Transistors, No. TR-20 ____ $1.99
2¼" PM Speaker No. S-502 ____ 1.19
Earphone, No. PH-81 ____ .54
Battery, No. BA-89 ____ .21

## 2 TRANSISTOR TUNER CHASSIS



**$1.99** No. RA-586

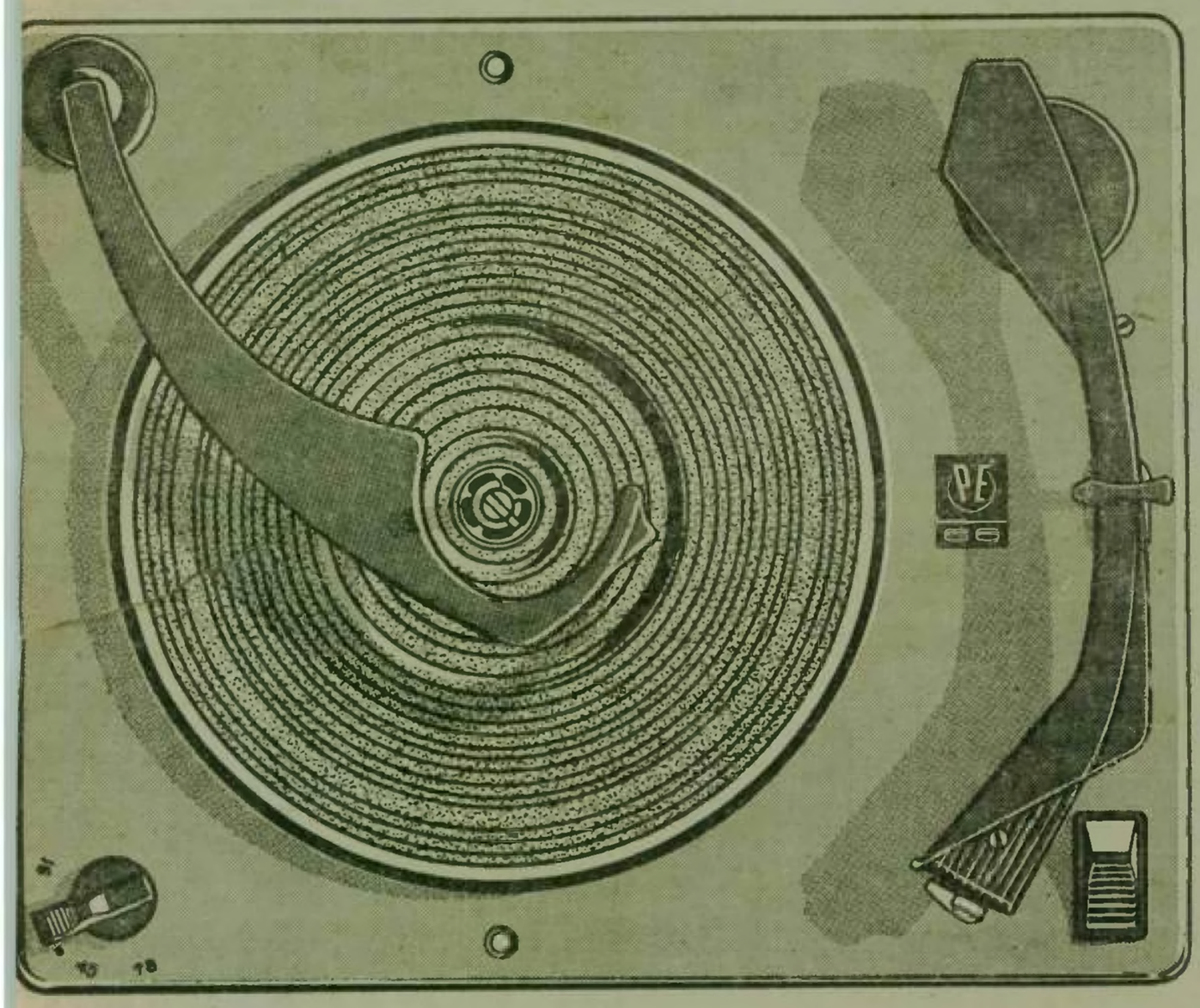
Add this AM tuner chassis to phono PA system for news and music. Complet ly assembled less transistors and diod Uses ferrite core antenna for maximu sensitivity. Tuner may also be connecte directly to an ear phone to make a com plete personal, portable. Requires standar 9 volt battery (not included) plus 2 PN transistors and a 1N54 type diode (not in cluded). Shipping weight ½ lb.

Battery (1 req'd.) No. BA-89 ____ 2
TRANSISTOR AND DIODE KIT for above. Co tains 2 PNP transistors plus one diode for t dio chassis No. RA-586 (above).
No. TR-23 ____ 9

# PERPETUUM-EBNER
# STEREO CHANGER

**Imported from Western Germany**
**With Ceramic Turnover Cartridge**

**★ 4-Speed Automatic**
**★ Rugged 4-Pole Motor**



Made in Europe by craftsmen who take great pride in quality workmanship. Every detail of construction is painstakingly followed to give you absolutely flawless performance. Change cycle is carefully timed to handle your records with utmost care. Balanced tone arm equipped with stereo ceramic turnover cartridge, gives light, skip-free tracking. Easily adjusted to meet any cartridge appliance requirement. Large turntable and heavy-duty 4-pole motor give smooth, quiet operation that is free from rumble or wow. Turntable top has non-slip rubber mat. Neutral position on speed selector disengages drive wheel to prevent flat spots. Plays all size records, both stereo and monaural with utmost purity and fidelity. Automatic shut-off after last record. Four speeds 78, 45, 33⅓ and 16 RPM. Size: 15" x 18½" x 5¾" above mounting board and 3¾" below. 110 to 125 volts AC 60 CPS. Shipping weight 12 lbs.

**No. RP-250 $18**

| | |
|---|---|
| Mounting Base, No. CA-260 | $3.88 |
| 45 RPM Spindle, No. RP-240 | 2.49 |
| AC Line Cord, No. W-43 | .29 |
| 2-5 Ft. Audio Cables, No. W-321, 2 For | 1.30 |

## YOUR CHOICE OF CARTRIDGE FREE

With purchase of either Empire or Miracord Turntable Below



**SHURE M3D**
No. PC-95
Available Separately
$15.88



**EMPIRE 880**
No. PC-102
Available Separately
$17.95



**Pickering U38/AT**
No. PC-96
Available Separately
$16.88

(See page 10 for specifications on cartridges)

## empire TURNTABLE



Shipping Weight 25 lbs.

★ Model 488 ★ 3-Speed
★ 5 lb. Balanced Turntable

No. RP-269 (Less Base) **$150** $9 MONTHLY

Walnut, wood base.
No. CA-297 ..... $15.00



No. RP-258
**$89.50** (Less Base)
$9 MONTHLY

## MIRACORD Automatic TURNTABLE

★ Model 10 ★ 4 Speed
★ Heavy Duty 4-Pole Motor
★ Jam Proof Tone Arm
★ Made In W. Germany

Shipping weight 20 lbs.
Oiled Walnut, wood base.
No. CA-298 ..... $9.95

## VM Stereo CHANGER

MADE IN U. S. A.



No. RP-176
**$24.95**
3 for $69

Famous VM four-speed record changer with stereo cartridge. Plays manually or automatically and shuts off after last record has played. Heavy duty motor drives large, rubber matted, weighted turntable. Plays all 7", 10" and 12" records at all four speeds. (16⅔, 33⅓, 45 and 78 RPM). Size: 11¾" x 13⅛". For 110-125 volts A.C., 60 CPS. Shipping weight 13 lbs.

★ ACCESSORIES ★

| | |
|---|---|
| Diamond Needle, No. N-122 | $1.69 |
| Mounting Base, No. CA-65 | 4.88 |
| 45 RPM Spindle No. RP-106 | 2.99 |
| Line Cord, No. W-43 | .29 |
| Phono Cord, No. W-321 | .65 |

## BSR Stereo CHANGER

Model UA-14



MADE IN ENGLAND

No. RP-222
**$19.95**
3 for $59

Plays stereo and monaural discs any size up to 12" in diameter, automatically. 4 speeds. Rubber padded, weighted turntable is driven by oversize induction motor. Has turnover hi-fi crystal stereo cartridge with dual sapphire styli. Handsome tan finish. Size: 13⅛" x 11¾". Height above: 5⅛" x 2½" below. Operates on 110-125 volts AC 60 cps. Shipping weight 12 lbs.

★ ACCESSORIES ★

| | |
|---|---|
| 45 RPM Spindle, No. RP-7 | $2.37 |
| Mounting Base, No. CA-212 (Page 17) | 4.88 |
| Line Cord, No. W-43 | .29 |
| Phono Cord, No. W-321 | .65 |

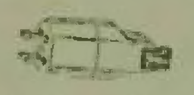
# Garrard STEREO Record Changers

## GARRARD STEREO CHANGER & CARTRIDGE COMBINATION DEALS!

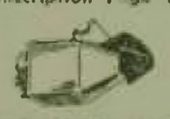
YOUR CHOICE 1¢ EXTRA With Purchase of Any GARRARD Changer Below



**SHURE M3D**
Professional Stereo
**CARTRIDGE**
No PC-95
Available Separately
**$15.88**
Description Page 10



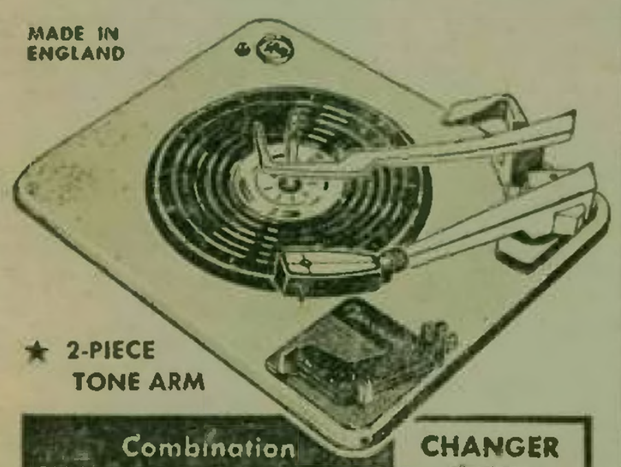
AUDIO EMPIRE 880
**STEREO CARTRIDGE**
No. PC-102 $17.95
Available Separately
Description Page 10



PICKERING U38/AT
**STEREO CARTRIDGE**
No. PC-96 $16.88
Available Separately

## Garrard AUTOSLIM/P MARK II

MADE IN ENGLAND



★ 2-PIECE TONE ARM

Combination CHANGER & CARTRIDGE
**$39.51** No. AS-651 ★

CHANGER ONLY
**$39.50** No. RP-224

Versatile: This automatic-manual intermix changer has numerous new features. New, two piece tone arm, specially designed 4 pole motor. Separate manual and automatic controls. Changer designed to give you perfect torque, balance and quiet running. Compact clean simple design in grey with white trim. Plays all sizes and speeds, stereo or monaural. Size 14⅛" x 12½" x 2⅝" below mtg. board, 4½" above mtg. board 110-125 volts A. C. 60 CPS. Shipping weight 12 lbs.

| | |
|---|---|
| Molded, Plastic Dust Cover. No. CA-301 | $4.95 |
| 45 RPM Spindle, No. RP-228 | $3.80 |
| Mounting Base, No. CA-151 (Pg. 10) | $4.88 |

Col. Joseph T. Caples, U. S. Army Hosp., Ft. Leavenworth, Kans., wins choice of merchandise worth $5 from Olson's "Treasure Hunt." See back cover for instructions.

## Garrard AT6

MADE IN ENGLAND



NO MONEY DOWN
**$6** MONTHLY

No. AS 695 Combination Changer & Cartridge ..... **$54.51**
No. RP-225 Changer Only ..... **$54.50**

Moderately priced automatic turntable for those who want the professional features of a turntable with the convenience of a changer. Plays all sizes and speeds, stereo or monaural. Oversize turntable assures a smooth, silent, accurate operation. Dynamically counterbalanced adjustable tubular tone arm. Quiet 4 pole shaded motor. Size: 14½"x12½"; 4½" above mounting board, 2⅝" below, 1½" required at rear and arm side of base for counter weight. 110-125 volts AC, 60 cps. Shipping weight 14 lbs.

| | |
|---|---|
| Molded, Plastic Dust Cover. No. CA-300 | $4.95 |
| 45 RPM Spindle, No. RP 235 | $3.80 |
| Mounting Base, No. CA-151 (Page 10) | $4.88 |

SHURE Model M99/AT6
"Gard A Matic" STEREO CARTRIDGE
★ Diamond Stylus
★ Factory Wired



No. PC-104 ..... **$49.50**

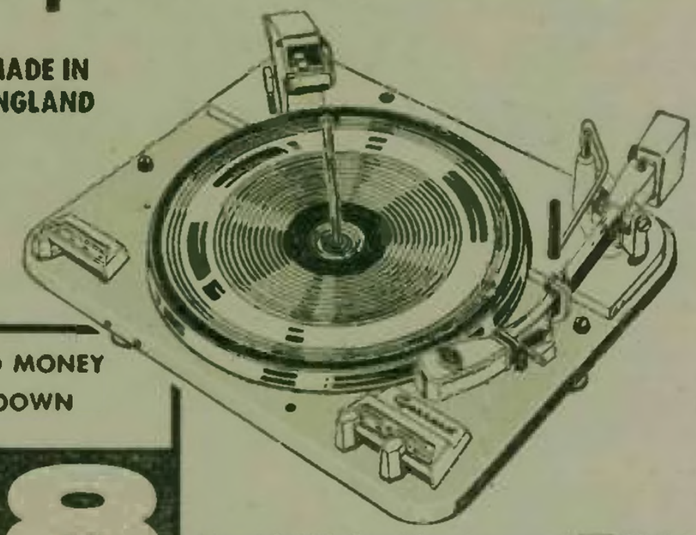
Garrard-Shure COMBINATION DEAL

Garrard Type AT6 Changer (Above)
Shure M99/AT6 Cartridge (Left)
Shpg. Wt. 12½ lbs.

BOTH FOR **$64.50**
$7 MON.
No. AS-786

## Garrard TYPE "A"

MADE IN ENGLAND



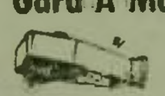
NO MONEY DOWN
**$8** MONTHLY

No. AS-532 Combination Changer & Cartridge ..... **$79.51**
No. RP-202 Changer Only ..... **$79.50**

Garrard 3-speed changer, a full size, two piece professional turntable, with unique foam disc for damping noise & vibration. Exclusive pusher-type mechanism. Simple one knob leveling device, laboratory-balanced motor for low rumble. Dynamically balanced tone arm. Plays all 4 speeds, 7—10—12" records monaural or stereo. Size: 16" x 15¾" x 2⅝" below mtg. board, 6" above mtg. board. 110-125 volts AC, 60 cps. Shipping weight 23 lbs.

| | |
|---|---|
| Molded, Plastic Dust Cover. No. CA-299 | $4.95 |
| Extra Plug-In-Head, No. RP-204 | $ 1.50 |
| 45 RPM Spindle No. RP-41 | $ 3.80 |
| Mounting Base, No. CA-40 (Pg. 10) | $4.88 |

SHURE Model M99/A
"Gard A Matic" STEREO CARTRIDGE
★ Diamond Stylus
★ Factory Wired



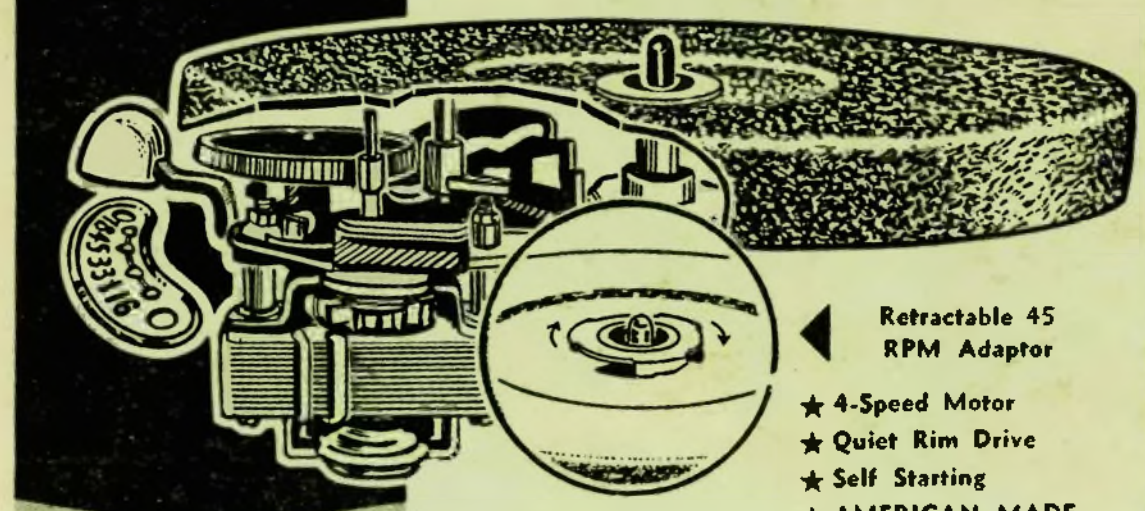
No. PC-103 ..... **$49.50**

Garrard-Shure COMBINATION DEAL

Garrard Type "A" Changer (Above)
Shure M99/A Cartridge (Left)
Shpg wt. 23¼ lbs.

BOTH FOR **$89.50**
$9 MON
No. AS-785

# alliance 4-SPEED Motor & Turntable



- ★ 4-Speed Motor
- ★ Quiet Rim Drive
- ★ Self Starting
- ★ AMERICAN MADE

Retractable 45 RPM Adaptor

**$4** No. MO-56

Genuine Alliance 4-Speed phono motor with heavy, felt covered, turntable. Self-starting, precision built motor drives turntable through large rubber idler wheel to keep noise and vibration to a minimum. All 4 popular speeds, 16⅔, 33⅓, 45 and 78 RPM can be played on this fine turntable without an adaptor. Retractable disc in center of turntable fits large hole in 45 RPM records. Complete with selector arm and index plate for speed change. Operates on 110-125 volts AC, 60 cps. Write for special large quantity prices. Shipping weight 6 lbs.

Woodland High School, Woodland, Calif., wins choice of merchandise worth $5 from Olson's "Treasure Hunt". See back cover for instructions.

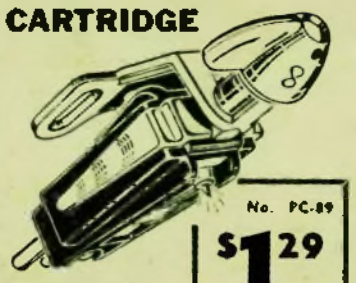
## BUILD OR REMODEL YOUR OWN MONO OR STEREO PHONO



Build or remodel your own phono by combining the 4-speed motor above with either tone arm (RP-236 or RP-220) and amplifier (AM-16) listed below. Select any size speaker from those listed on page 12.

# PHONO CARTRIDGE

## Monaural Turnover CARTRIDGE



No. PC-89 **$1.29** 3 for $3.00

★ 3-5 Volts Output
★ Made In England

Dual-sapphire cartridge with ½" mounting centers, and European in-line mounting. This cartridge with its high output and low distortion, is an ideal replacement in almost any monaural phonograph, or European changer. Plays all four speeds. Response 30 to well above 6000 CPS. Complete with plug in type solder lugs. Shipping weight ¼ lb.

**Monaural Turnover Cartridge**

Same as above but with diamond-sapphire stylus

No. PC-97, 3 for $6.00 Ea. **$2.59**

## EMPIRE 880 STEREO Cartridge

WITH DIAMOND STYLUS

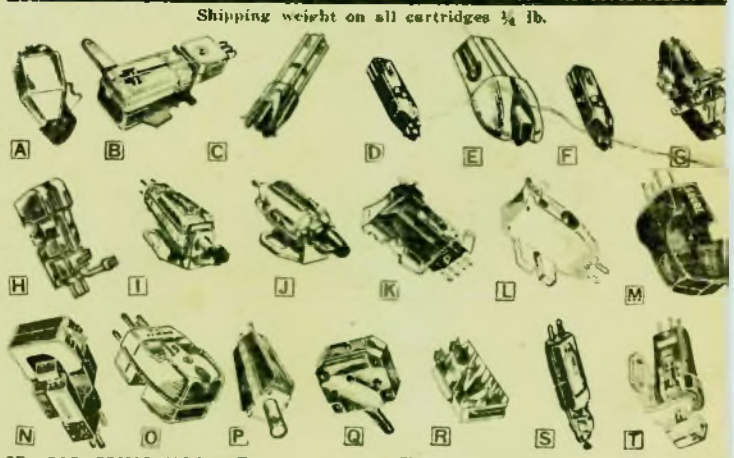


$42.50 in 363 Catalog

**$17.95** No. PC-102

Magnetic mono/stereo cartridge wi .7 mill diamond stylus. Response: 10 28,000 CPS. Channel separation: Mo than 30 DB. Tracking force ¾ gra Balanced high output 10 millivolts p channel ± ½ db. Mounting—standar ½" mounting centers. Shpg. wt ¼ l

Shipping weight on all cartridges ¼ lb.




**A—PICKERING U38 AT**
MAGNETIC CARTRIDGE with .7 Mil Diamond Stylus. Response ± 2 DB 20 to 20,000 CPS. Channel separation 35 DB. Tracking force 2-5 grams. Output 10 mv. per channel. Impedance 47,000 ohms.
No. PC-96, $46.50 in 363 Cat. **$16.88**

**A—PICKERING 380C**
MAGNETIC CARTRIDGE with .7 Mil Diamond Stylus. Response ± 2 DB 20 to 20,000 CPS. Channel separation 35 DB. Tracking force 2-5 grams. Output 10 mv. per channel. Impedance 47,000 ohms.
No. PC-68 **$11.76**

**B—Electro-Voice 27D Stereo**
Turnover ceramic. Response 20 to 20,000 cps. Plays monaural or stereo records (16, 33, 45, and 78 RPM). Diamond LP, sapphire 78 RPM styli Output 20 mv.
No. PC-73 **$11.57**

**C—Electro-Voice 56DS Monaural**
Plug-in type. Response 20 to 16,000 cps. Diamond 1 mil, sapphire .3 mil tip.
No. PC-32 **$5.85**

**D—ELECTRO-VOICE MONAURAL**
★ Exact Replacement for Astatic 81T
Monophonic exact replacement. Turnover plug-in type with sapphire styli (1 MIL LP & 3 Mil 78 RPM TIPS).
No. PC-78 **$2.37**
With Diamond LP Tip No. PC-79 $4.77

**E—Electro-Voice 76DS Monaural**
Exact replacement for Webcor phonographs. (Monaural) Plug-in 1 mil diamond & sapphire 3 mil tip. Pink case.
No. PC-34 **$5.85**

**F—ELECTRO-VOICE STEREO**
★ Replaces Astatic 13T
Dual sapphire tips plays all 4 speeds (78, 45, 33⅓, and 16 RPM). Response: 20-15,000 CPS. Output .5 volts.
No. XC-66 **$3.33**
With Diamond Tip No. PC-74 $6.57

**G—SONOTONE 3TS CERAMIC**
Response 20 to 20,000 CPS. Turnover type with standard ½" mounting centers. Dual sapphire styli. Output .5 volts.
No. PC-17, 3 for $11.00
Lots of 12, Ea. $3.00 **$3.98**

**G—SONOTONE 2T-S CERAMIC**
Turnover type with Dual Sapphire Styli. Response: ± 3DB 30-15,000 CPS. 1 volt output. Standard ½" mounting centers.
No. PC-93, 3 for $9.25 **$3.32**

**H—SONOTONE 8TA4-SD STEREO**
With .7 mil diamond, 3 mil sapphire stylus. Response ± 2.5 DB: 20 to 16,000 CPS. Compliance 3.0 x 10-6 cm/dyne. 20 DB channel separation. ½" mounting centers.
No. PC-92 **$7.64**

**I—Ronette 106 Stereo Cartridge**
Turnover type. Plays stereo or monaural records. Has standard ½" mounting centers. Output 1.5 volts. Response 50 to 11,000 cps. Plays all 4 speeds.
No. PC-70 **$2.99**

**J—BSR TC-8S Stereo Cartridge**
Turnover type. Mounts on ½" mounting centers. Response 40 to 12,000 cps. Plays all 4 speeds. Output .15 volts. Sapphire Styli.
No. PC-72, 3 for $6.00 **$2.0**

**K—OLSON Turnover STEREO**
UNIVERSAL MTG. Dual Sapphire Stylus. Response: 40 to 16,000 cps. Output: 1 volt, Separation 12 DB. Tracking force: 6-8 grams. Size: 1½ long x ⅜" wide. Made in England.
No. PC-110 **$1.89**

**L—OLSON Mono CRYSTAL**
1 mil. sapphire Stylus. Response 4 to 10,000 CPS. Output 1 volt. Tracking weight 6-8 grams. Std. ½" Mounting Centers. Made in England.
No. PC-109 **99**

**M—SHURE M3D STEREO**
Professional Stereo magnetic Cartridge with .0007" DIAMOND STYLUS. Separation: 20 DB at 1,000 cps. Response: 20-15,000 cps. Recommended load 47,000 ohms. Tracking force: 3-4 grams. Compliance: 4x10-6 centimeters per dyne ½" mounting centers.
No. PC-95, $45.00 in 363 Cat. **$15.88**

**N—SHURE M-7D STEREO**
Stereo magnetic cartridge with .0007" DIAMOND STYLUS. Response: 20 to 16,000 CPS. Recommended load impedance: 47,000 ohms. Tracking force: 3-6 grams. ½" mounting centers.
No. PC-56 **$11.76**
Replacement Diamond Stylus, N-131 $4.50

**O—EMPIRE 108 STEREO**
MAGNETIC CARTRIDGE, with Diamond Stylus. Response 15 to 30,000 CPS ± 1DB. Channel separation: more than 25 DB. Load impedance: 47,000 ohms. Tracking force: 1.5 to 5 grams. ½" mounting centers.
No. PC-76 **$9.88**

**P—VACO Monaural CARTRIGDE**
Four speed turnover Model TO-45. Response 50 to 9,000 cps. Output 1 volt. Sapphire styli.
No. PC-69 3 for $7.00
Lots of 12, Ea. $2.00 **$2.59**

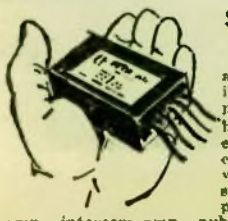
**Q—PHILCO CARTRIDGE**
Dual Sapphire Styli for Philco part numbers 426-0011 and 426-0016. Fits changer models: M-20, M-22, M-24, M-24A, M-25, M-26 and others.
No. PC-20 3 for $17.00
Lots of 12, Ea. $5.00 **$6.20**

**R—ZENITH COBRA CARTRIDGE**
Exact replacement for No. S-15780 Red & green. Monaural. Sapphire styli.
No. PC-71 **$2.06**

**S—Universal Phono CARTRIDGE**
Aluminum case for single needle type arms. 50-8,000 cps. 4-5 volt output. Weight 17 grams., needle force 1¾ oz. ½" mtg. ctr. Monaural.
No. XC-50 3 for $3.50
Lots of 12, Ea. $1.00 **$1.29**

**T—ASTATIC 76-TS STEREO**
This crystal turnover cartridge is equipped with .7 mil and 3 mil sapphire styli to play Stereo, LP and standard 78 rpm records with utmost clarity. Standard ½" mounting centers. Output 2 v. Response: 50 to 10,000 cps.
No. PC-106, 3 for $8 **$3**

MITY-AMP 2-WATT
## AUDIO AMPLIFIER



**$8.40** No. AM-218

A power packed amplifier so small it fits into the palm of your hand. Encapsulated in high grade epoxy making it waterproof and shock proof. Applications: phono amp., intercom amp., public address amp., signal tracer amp., and many, many more. Operates on 6 to 12 volts D.C. Delivers 2 watts of audio with ½ volt input. Hi or Lo impedance input. Frequency Response: 20-16,000 CPS. Size: 2" x 3½" x ⅞". Shipping weight 2 lbs.

## MONAURAL Phono Arm



No. RP-236 **$1.59** 3 for $4.50

★ TURNOVER ALL SPEED CARTRIDGE
Response 50 to 13,000 C.P.S. Lightweight tone arm, spring counter balanced for use in manual players, plays all 4 speeds. Output—.5 volts. Dual sapphire styli. Complete with mounting hardware, 8" long. Shipping weight ¼ lb.

**Deluxe STEREO PHONO ARM**
With 4-speed turnover cartridge. Dual sapphire styli. Shipping weight ¼ lb.
No. RP-220, 3 for $5.50 Ea. **$2**

## PHONO AMPLIFIER

MADE IN U. S. A.



No. AM-16 **$3.95** (Less Tubes) Two for Stereo $7.50

Easily attached to any phono. Equipped with tone and volume controls. Size: 4½" x 2⅝" x 3" Less output transformer. Shipping weight 3 lbs.

SHIELD TUBES FOR ABOVE
12AV6, 38c; 50C5, 63c; 35W4, 42c
OUTPUT TRANSFORMER
No. T-92 ea. 49c

## HEADPHONES



4,000 OHM IMPEDANCE. Spring steel headband, fully adjustable. Flexible cord 3½ ft. long with standard phone tips.
Shpg. wt. ½ lb.
4,000 Ohm with Leather Head Band No. PH-10 **$1.95**
3 for $5.50 Lots of 6, Ea. $1.75

8 Ohm Phones with ¼" Phone Plug
Shipping wt. ½ lb.
No. PH-27—Lots of 12, $2 Ea. **$2.86**

## HEADPHONES

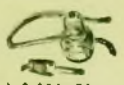
Olson



**$1.99** No. PH-71

New headphones 4,000 ohm impedance. Spring steel headband, fully adjustable, flexible cord over 3 feet long, useful for schools, hams, etc. Shipping wt. ½ lb.

## EARPHONES



⅜"x⅜" diam. Resp. 50 to 4,000 cycles. 3 ft. cord & plug.
★ 2,000 Ohms **$1.19**
No. PH-8, 3 for $3, 100 @ 75c ea. Ea.

## AUTOMATIC Changer SWITCH



**$5.50** No. SW-233

Automatically turns off Hi-Fi or stereo systems after last record has been played. Plug record changer and amplifier into the automatic changer switch, when last record has been played and changer turns off, entire system will turn off. Size 4½"x1¾" x2". Shipping weight ½ lbs.

## PHONO ARM

Olson

★ For Stereo or Monaural Use!



No. RP-237

2 HEADS INCLUDED **$9.95**

This new 12" phono arm is dynamically balanced, and will track at lowest pressure recommended by cartridge manufacturers. May be mounted on any turntable. Shipping weight 3 lbs.

## STYLUS MICROSCOPE



3¾" x ½". 40 power. Lots of 12, ea. 80c.
No. N-92, 3 for $3.00 Ea. **$1.19**

## PHONO LIGHT



Illuminates record changer when cabinet lid is raised. Chrome frame with opaque white lens. Size: 5¾" x 1⅝". For 115 volts AC. With bulb. Shipping weight ¼ lb.
3 for $3.00
No. RP-181, lots of 12, ea. 75c **$1.29**

## Remote EARPHONE ADAPTER

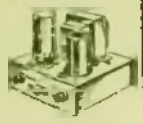


No. VC-252 **$3.99**

10 Controls volume of TV, Phono, etc. With 20 ft. cable and 2 earphones. Shipping weight ½ lb.

## PHONO PREAMP

Olson

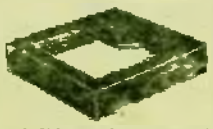


**$5.95** No. AM-220

A self powered pre-amplifier for low level magnetic phono cartridges, microphones, and tape heads. Uses dual triode 12AX7. Response: ±2 DB 30 to 20,000 CPS. Size: 3¾" x 3⅝" x 3⅛". For 110-125 volts A.C., 50-60 CPS. Supplied less tube. Shipping weight 4 lbs.
12AX7 Tube for above (1 required) $1.23

STEREO PREAMP Two preamps in one for stereo, less tubes. Size: 5⅜"x3⅛"x4⅛". Shipping weight 4 lbs.
No. AM-221 **$9.98**
12AX7 Tubes for above (2 req'd) Ea. $1.23

CHANGER



## BASES

★ Made in U.S.A.
YOUR CHOICE **$4.88**

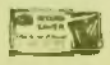
Solid wood construction with handsome darkwood finish. Pre-cut to match changer exactly. Overall size: 14¾" x 13¾" x 3⅝"
For Garrard Type "A" No. CA- 40
For Garrard Autoslim & AT-6 No. CA-151
For Monarch UA-14 No. CA-212
For VM 1200 No. CA- 65
Shipping Wt. 3 lbs.

## PHONO SLIDES



Ball bearing slides extend to 19". Capacity 50 lbs. Lots of 12 pr., ea. pr. $2.25. Shipping wt. 3 lbs.
No. X-642, 3 pr. for $4.50 pr. **$1.69**

## RECORD KLEENER CLOTH

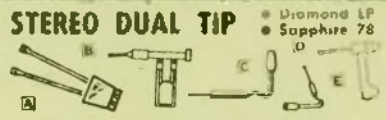


Silicon treated. Eliminates static charges, also lubricates. Shipping wt. ¼ lb. Lots of 12, ea. 36c.
No. RP-51, 3 for $1.00 Ea. **44c**

## DIAMOND NEEDLES

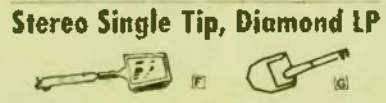
### STEREO DUAL TIP

• Diamond LP • Sapphire 78




- A N-126 for RCA 108-213A, 106-960A, 106-770A, 106771A $1.69
- B N-150 for Sonotone 9T $1.69
- C N-129 for Sonotone 8T $1.69
- D N-130 for Sonotone 8TA $1.69
- E N-151 for Astatic 17 $1.69

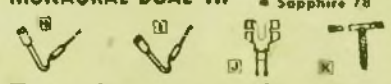
### Stereo Single Tip, Diamond LP




- F N-102 for Ronette BF-40, 105, 106 $1.69
- G N-149 for Euphonics E-1 $1.69

### MONAURAL DUAL TIP

• Diamond LP • Sapphire 78




- H N-71 for Sonotone 2TS $1.69
- I N-91 for Sonotone 3TS $1.69
- J N-95 for Shure Cartridge $1.69
- K N-77 for GE RPX $1.69

### Mono Single Tip, Diamond LP




- L N-70 for Ronette $1.69
- M N-78 for GE RPJO1D $1.69
- N N-145 for Astatic Q $1.69
- O N-147 for Astatic A $1.69

# 6 Transistor RADIO

★ With Battery, Earphone & Case



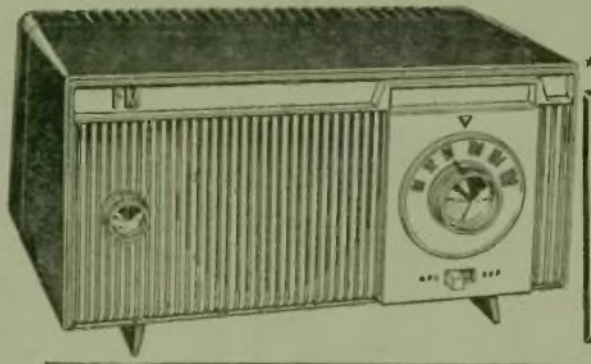
No. RA-544

**$8**

A handsome personal radio with 6 transistors and germanium diode in a powerful superheterodyne circuit—a total of 7 semiconductors. Features push-pull audio output, built-in PM speaker, personal earphone jack and carrying case. Tunes standard broadcast band. Size: 2⅝" W x 4½" H x 1¾" D. Styles may vary slightly. Shipping weight 2 lbs.

# FM TABLE RADIO

★ 5 Tubes Plus 2 Diodes ★ AFC with Defeat Switch



No. RA-606

ONLY

**$17.88**

Luxurious high fidelity FM reception is achieved by use of the latest engineering advancements. Employs 5 tubes, 2 diodes, 1 AFC silicon diode and 1 silicon rectifier. AFC with defeat switch makes tuning easy and eliminates drift. Handsome neutral tone cabinet with gold inlay knobs is accented by red pilot light. Complete with antenna and UL approved safety interlock type line cord. Don't pass up this fantastic FM radio value—at this low, low price you can have FM at your finger tips in every room of the house! Size: 9½" W. x 5" H. x 4½" D. For 110-125 volts AC 50 cps. Shipping weight 4 lbs.

# Olson FM-AM Table Radio



★ NON-DRIFT RECEPTION

★ SLIDE RULE TUNING

No. RA-402

**$21.99**

Tunes broadcast band 535 to 1606 KC and FM band 88 to 108 MC. Has built-in loopstick antenna for AM band which gives excellent static-free reception and wonderful sensitivity. A length of wire provides superb performance in outer areas. However for FM-DX reception an outside dipole should be used. (TV antenna is suitable). Oval 6x9 PM speaker gives full response sound, that surpasses that of much larger and more costly receivers. 6 tubes and 2 diodes and selenium rectifier. Has safety interlock cord plug. 3 controls: volume, tuning and band selector. Handsome two tone cabinet. For 110-125 volts AC or DC. 6" x 6½" x 11". Shipping weight 8 lbs.

# 9 TRANSISTOR RADIO

With Earphones Batteries & Case

★

Telescoping Antenna

No. RA-578

**13.81**




Complete with leather case, earphone, earphone case, telescoping antenna and batteries. Latest superheterodyne circuit with 9 transistors and one diode give superlative selectivity and sensitivity. Telescoping antenna can be attached to top of radio for really distant stations. Acoustically matched, powerful 2½ in. PM speaker delivers clear undistorted sound. Operates on 4 standard penlight cells (included). Size 5¼" W x 3½" H x 1½" D. Shipping weight 5 lbs.

Extra batteries for above (4 req'd.) No. BA-67 ..... 8 for 59c

# FM Monitoring Receiver

★ 4" PM SPEAKER



YOUR CHOICE **$50**

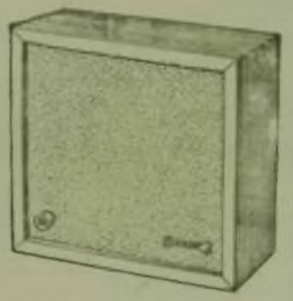
152-174 MC ..... No. RA-561

30-50 MC ..... No. RA-560

You will hear the news in the making. Features temperature compensated, superheterodyne circuit for no drift. Ratio detector circuit minimizes noise under "no signal" conditions. Size: 9½" x 6" x 5½". For 110-125 volts AC, 60 cps. Shipping weight 9 lbs.

**TUNE IN:** Police Calls
Mobile Telephone Calls
Fire Department Calls

# Sonora 8" SPEAKER & CABINET



- Oiled Walnut
- Volume Control
- Wire Included

No. S-539

**$11.98**

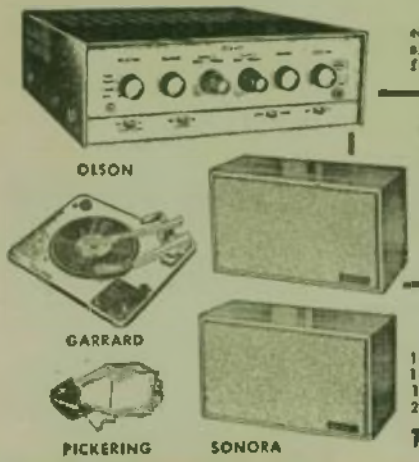
2 for $23.00

Extension speaker for stereo or hi-fi. Built-in volume control permits adjustment of balance or volume without changing controls on main unit. Full range freq. resp. 10 watts 8 ohm. Size: 11¾" x 11¾" x 4½". Shp. wt. 6 lbs.

# Money Saving STEREO SYSTEMS

## Olson ★ Garrard ★ Pickering ★ Sonora

### 30 Watt STEREO SYSTEM




Components are carefully selected to blend with each other. The result is a totally balanced stereo system that delivers true HiFidelity Stereo performance at a modest price.

**$138** No. AS-865 $8 MONTHLY
NO MONEY DOWN

SYSTEM INCLUDES:

| | |
|---|---|
| 1—AM-229 30 Watt Stereo Amp. (Pg. 6) | $69.98 |
| 1—RP-224 Garrard Autoslim (Pg. 9) | 39.50 |
| 1—PC-96 Pickering Stereo Cart. (Pg. 10) | 16.88 |
| 2—S-537 Sonora Spkr. Systems (Pg. 2) | 34.00 |

TOTAL INDIVIDUAL CATALOG COST $160.36

## Olson ★ Garrard ★ Pickering

### 20 Watt STEREO SYSTEM




Complete Stereo Music System. Enjoy your favorite stereo or hi-fidelity recordings or tune in on stereo FM broadcasts. Sensitive tuner section receives AM, FM and FM multiplex with the utmost in clarity and stability. Amplifier features separate bass and treble controls for maximum flexibility.

**$165** No. AS-852 $11 MONTHLY
NO MONEY DOWN

SYSTEM INCLUDES:

| | |
|---|---|
| 1—AM-230 AM-FM Tuner & Amp. (Pg. 7) | $99.93 |
| 1—RP-224 Garrard Autoslim (Pg. 9) | 39.50 |
| 1—PC-96 Pickering Stereo Cart. (Pg. 10) | 16.88 |
| 2—S-495 Olson 12" Speakers (Pg. 13) | 26.50 |

TOTAL INDIVIDUAL CATALOG COST $182.81

## Olson ★ Garrard ★ Pickering ★ Jensen

### 30 Watt STEREO SYSTEM




This component system is perfect for build-in installation. Tuner and amplifier have handsome enclosures of their own and may be mounted on open shelf or bookcase and still give built-in appearance.

**$198** No. AS-864 $13 MONTHLY
NO MONEY DOWN

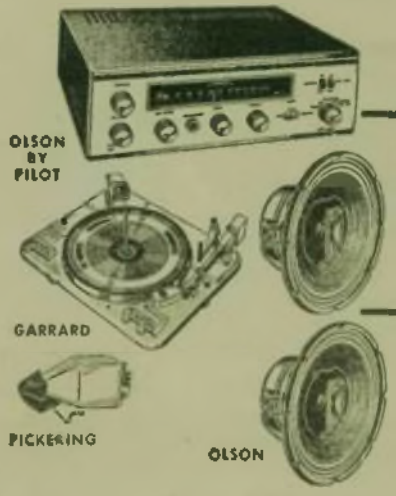
SYSTEM INCLUDES:

| | |
|---|---|
| 1—AM-229 30 Watt Stereo Amp. (Pg. 6) | $69.98 |
| 1—RA-580 FM-AM FM-MPX Tuner (Pg. 6) | 79.98 |
| 1—RP-224 Garrard Autoslim (Pg. 9) | 39.50 |
| 1—PC-96 Pickering Stereo Cart. (Pg. 10) | 16.88 |
| 2—S-551 Jensen 12" Speakers (Pg. 14) | 17.76 |

TOTAL INDIVIDUAL CATALOG COST $224.10

## Olson ★ Garrard ★ Pickering

### 30 Watt STEREO SYSTEM



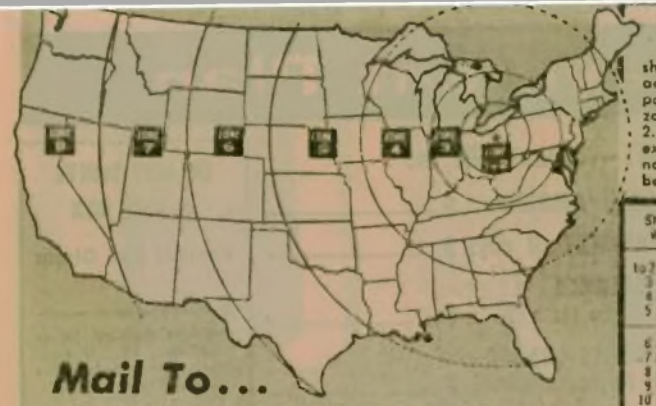

Whether your taste runs toward popular or classical music, you will thrill to the performance of this Deluxe stereo system. You will hear your favorite recordings and FM broadcasts as you have never heard them before.

**$286** No. AS-854 $15 MONTHLY
NO MONEY DOWN

SYSTEM INCLUDES:

| | |
|---|---|
| 1—RA-600 FM Tuner & Amp. (Pg. 7) | $149.99 |
| 1—RP-202 Garrard Type A changer (Pg. 9) | 79.50 |
| 1—PC-96 Pickering Stereo Cart. (Pg. 10) | 16.88 |
| 2—S-575 Olson 12" Speakers (Pg. 13) | 69.98 |

TOTAL INDIVIDUAL CATALOG COST $316.35



**Mail To...**

**OLSON ELECTRONICS, INC.**
**260 S. Forge St.**
**Akron, Ohio 44308**

**PARCEL POST RATE TABLE**

Postal Regulations limit Parcel Post shipments to 70 lbs. EXCEPTION: Those addressed for city delivery to a first class post office limit shipments to 20 lbs. to zones 3 to 8 and 40 lbs. to zones 1 and 2. All shipments will be via Parcel Post except those which postal regulations will not permit. In such cases, shipment will be via truck or express.

| Ship wt. | Local | Zone 1 & 2 | Zone 3 | Zone 4 | Zone 5 | Zone 6 | Zone 7 | Zone 8 |
|---|---|---|---|---|---|---|---|---|
| to 3 lbs | $.24 | $.33 | $.38 | $.39 | $.45 | $.51 | $.58 | $.64 |
| 3 lbs | .26 | .36 | .41 | .47 | .55 | .64 | .74 | .82 |
| 4 lbs | .28 | .43 | .47 | .55 | .65 | .77 | .90 | 1.02 |
| 5 lbs | .30 | .48 | .53 | .63 | .75 | .90 | 1.06 | 1.21 |
| 6 lbs | .32 | .52 | .59 | .70 | .85 | 1.02 | 1.22 | 1.40 |
| 7 lbs | .34 | .58 | .65 | .78 | .95 | 1.15 | 1.38 | 1.59 |
| 8 lbs | .36 | .63 | .71 | .86 | 1.05 | 1.27 | 1.54 | 1.77 |
| 9 lbs | .38 | .68 | .77 | .94 | 1.15 | 1.40 | 1.70 | 1.95 |
| 10 lbs | .40 | .73 | .83 | .98 | 1.25 | 1.52 | 1.86 | 2.14 |
| 11 lbs | .42 | .77 | .88 | 1.05 | 1.33 | 1.63 | 2.02 | 2.34 |
| 12 lbs | .44 | .81 | .93 | 1.13 | 1.43 | 1.76 | 2.18 | 2.52 |
| 13 lbs | .46 | .85 | 1.00 | 1.21 | 1.53 | 1.89 | 2.34 | 2.70 |
| 14 lbs | .48 | .89 | 1.07 | 1.29 | 1.65 | 2.03 | 2.50 | 2.88 |
| 15 lbs | .50 | .93 | 1.13 | 1.36 | 1.75 | 2.15 | 2.66 | 3.06 |
| 16 lbs | .52 | .97 | 1.18 | 1.40 | 1.85 | 2.27 | 2.81 | 3.24 |
| 17 lbs | .54 | 1.01 | 1.23 | 1.47 | 1.95 | 2.39 | 2.96 | 3.42 |
| 18 lbs | .56 | 1.05 | 1.28 | 1.54 | 2.05 | 2.51 | 3.11 | 3.60 |
| 19 lbs | .58 | 1.09 | 1.33 | 1.61 | 2.15 | 2.63 | 3.26 | 3.78 |
| 20 lbs | .60 | 1.13 | 1.38 | 1.68 | 2.25 | 2.75 | 3.41 | 3.96 |

**INSURANCE FEE**

| | |
|---|---|
| Up to $10.00 | .10 |
| $10.01 to $50.00 | .20 |
| $50.01 to $100.00 | .30 |
| $100.01 to $200.00 | .40 |

Send **adequate** amount by check or Money Order for merchandise, postage, etc.

**WE REFUND EVERY CENT NOT USED**

Olson

*"32 Years of Square Dealing"*

**IF A LETTER APPEARS IN THIS COLUMN, SEE INVOICE FOR "CHANGES IN FILLING YOUR ORDER"**

| DO NOT USE | QUANTITY | STOCK NO. | DESCRIPTION | SHIP. WT. | PRICE EACH | TOTAL | DO NOT USE |
|---|---|---|---|---|---|---|---|
| | | | | | | $ | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

**ADD 50¢ HANDLING CHARGE IF ORDER IS UNDER $5.00**

**★NOTICE★**

Save! No need to guess about postage. Pay by check. Make your check payable to "Olson Electronics." Leave the amount blank; we'll fill in the exact cost for goods and postage. Eliminates paying us small balances. Eliminates Refund Vouchers.

IF YOU HAVE MOVED PLEASE WRITE YOUR OLD ADDRESS HERE

6 Print Name & Address in Boxes Below ▼ Ship Via _____

COMPANY

FIRST INITIAL | MIDDLE INITIAL | LAST NAME

ADDRESS

TOWN OR POST OFFICE | STATE

| | | |
|---|---|---|
| 1 | TOTAL POUNDS | PRICE TOTAL |
| 2 | INSURANCE *Plus* POSTAGE | |
| 3 | ADD SALES TAX (Not applicable if shipment is interstate) | |
| 4 | **TOTAL AMOUNT** | |

5
- ☐ REMITTANCE ENCLOSED
- ☐ SEND C.O.D. $2.00 DEPOSIT ENCLOSED
- ☐ NEW EASY PAYMENT ACCOUNT
- ☐ "ADD-ON" TO MY PRESENT EASY PAY ACCOUNT

**1163 VWXYZ**

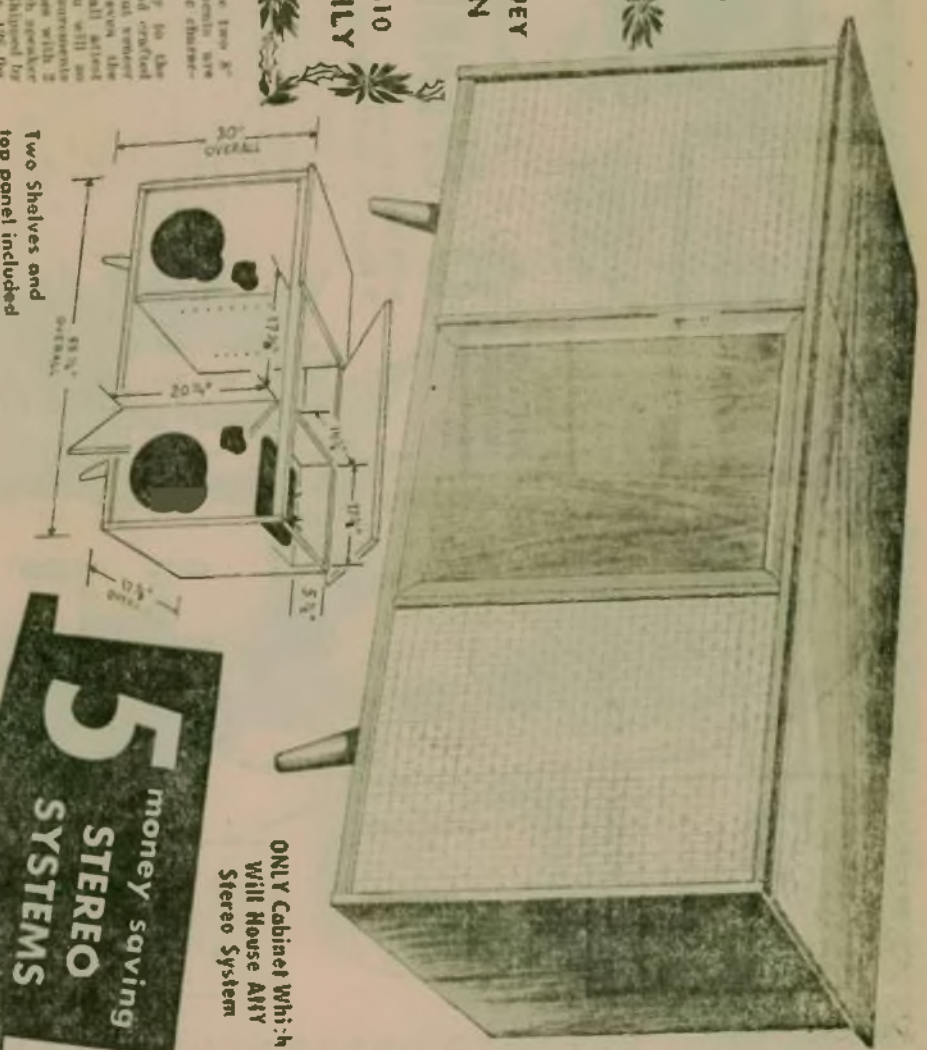
# Stereo-High Fidelity Console Cabinet

★ Oiled Walnut Finish
★ Fits Any Decor

No. CA-275

**$99**

NO MONEY DOWN
★
ONLY $10 MONTHLY




Two Shelves and top panel included

ONLY Cabinet Which Will House ANY Stereo System

**5 money saving STEREO SYSTEMS**

**STEREO SYSTEM I**

1—Stereo Console Cabinet (above) No. CA-275 $99.00
1—Perpetuum Ebner Changer (pg. 9) RP-250 18.00
2—Jensen 12" Speakers (pg. 14) No. S-551 17.76
1—Stereo Amplifier (pg. 6) No. AM-217 34.98

TOTAL REG. PRICE . . . $169.74

No. AS-835 SYSTEM PRICE **$149.49**

**STEREO SYSTEM II**

1—Stereo Console Cabinet (above) No. CA-275 $99.00
1—50 Watt Stereo Amp. (pg. 6) No. AM-240 99.98
2—12" Full Range Speakers (pg. 13) No. S-495 26.50
1—Garrard "Autoslim" Changer (pg. 9) No. RP-224 39.50
1—Pickering Stereo Cart. (pg. 10) No. PC-96 16.88

TOTAL REG. PRICE . . . $281.86

No. AS-849 SYSTEM PRICE **$242.99**

**STEREO SYSTEM III**

1-Stereo Console Cabinet (above) No. CA-275 $99.00
1-FM AM-MPX Tuner & 20 Watt Stereo Amp. (pg. 7) No. AM-230 99.93
2-Jensen 12" Speakers (pg. 14) No. S-551 17.76
1-Garrard "Autoslim" Changer (pg. 9) RP-224 39.50
1-Pickering Stereo Cart. (pg. 10) No. PC-96 16.88

TOTAL REG. PRICE . . . $273.07

No. AS-838 SYSTEM PRICE **$244.99**

**STEREO SYSTEM IV**

1—Stereo Console Cabinet (above) No. CA 275 $99.00
1—30 Watt Stereo Amplifier (pg. 6) No. AM-229 69.98
1—FM-AM-FM MPX Tuner (pg. 6) No. RA-580 79.98
2—12" Full-Range Speakers (pg. 13) No. S-495 26.50
1—Garrard "Autoslim" Changer (pg. 9) No. PR-224 39.50
1—Pickering Stereo Cart. (pg. 10) No. PC-96 16.88

TOTAL REG. PRICE . . . . $331.84

No. AS-868 SYSTEM PRICE **$288.99**

**STEREO SYSTEM V**

1-Stereo Console Cabinet (above) No. CA-275 $99.00
1-FM-MPX Tuner 30 Watt Stereo Amp (pg. 7) No. RA 600 149.99
2-12" 3-way Speakers (pg. 15) No. S-600 39.00
1-Garrard "Autoslim" Changer (pg. 9) RP-224 39.50
1-Pickering Stereo Cart (pg. 10) No. PC-96 16.88

TOTAL REG. PRICE . . . $314.37

No. AS-839 SYSTEM PRICE **$319.99**

NEW

Norelco-Olson

**"Slim-Line COMMANDO" SPEAKER & ENCLOSURE**

★ Ready to Play—No Finish Required

## Gift Suggestions for the MUSIC CONNOISSEUR

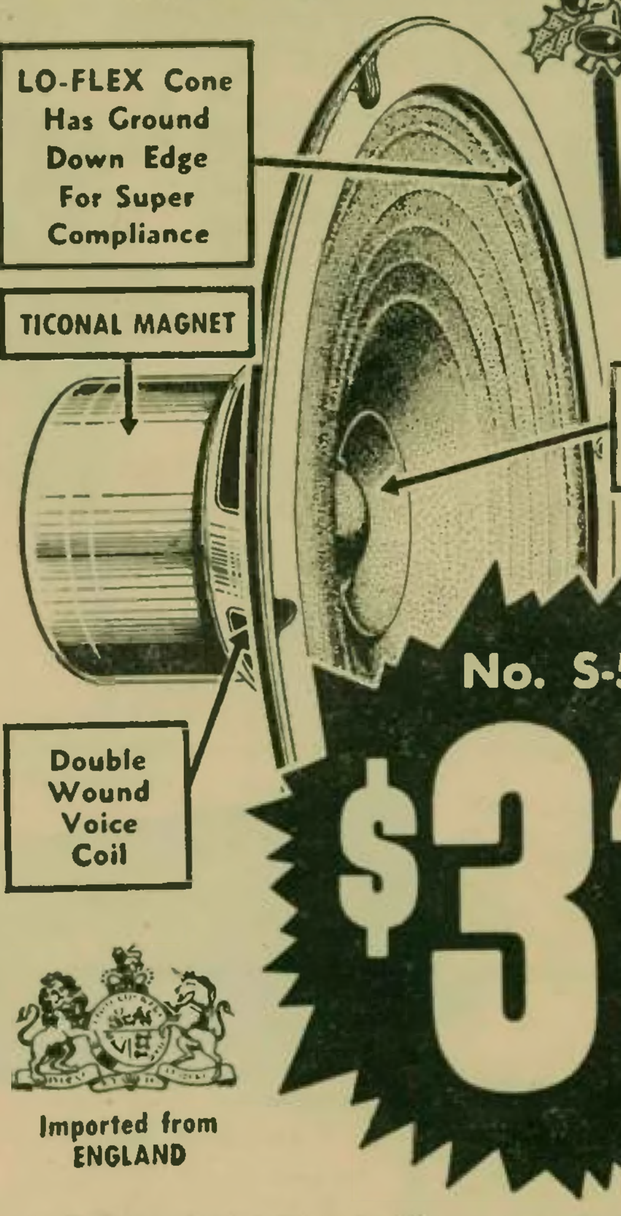


LO-FLEX Cone Has Ground Down Edge For Super Compliance

TICONAL MAGNET

HIGH FREQUENCY WHIZZER

Double Wound Voice Coil



Imported from ENGLAND

**No. S-517**

**$3.49**

**2 FOR $6.50**

ELAC

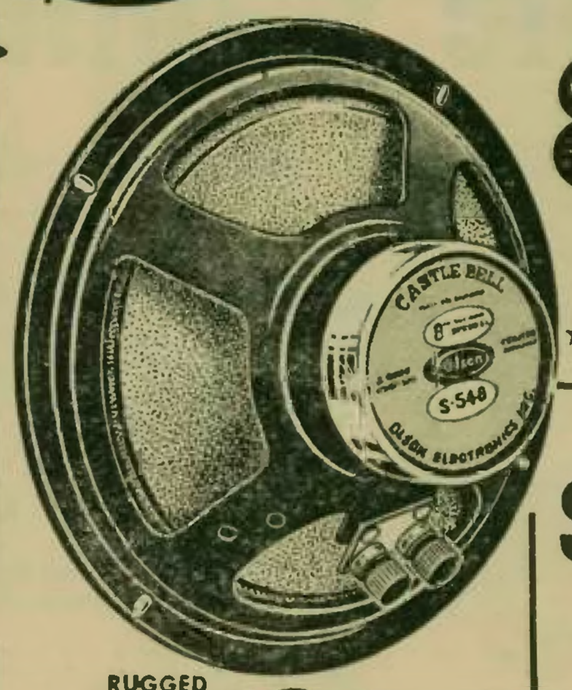
## 8" Full Range SPEAKER

★ 15 Watts Power
★ Response 40-15,000 CPS

This beautifully crafted loudspeaker has a richness of tone which belies its size. A one inch, 8 ohm double wound voice coil with special felt centering, excellent quality fibre cone, and concentric exponential high frequency whizzer. Heavy duty ticonal magnet. Priced at far less than its worth due to an OLSON mass purchase. Use for main system or as add-on speakers in den, bedroom, etc. Size: 8" diam. x 2¾" deep. Shipping weight 3 lbs.

Seneca Sound Serv., F. J. Allegyre, Attica, Ohio, wins choice of merchandise worth $5 from Olson's "Treasure Hunt." See back cover for instructions.

## Olson "Castle Bell" IMPORTED from ENGLAND




## 8" FULL RANGE SPEAKER

★ Resp.: 30-15,000 CPS

No. S-548

**$5.98**

2 for $11.50

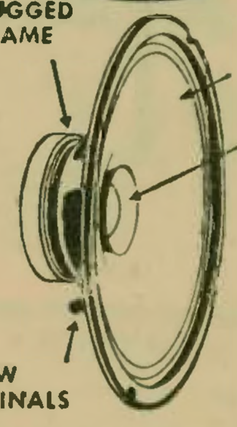
RUGGED FRAME

FLEXEDGE CONE

EXPONENTAL WHIZZER

HEAVY DUTY CERAMIC MAGNET

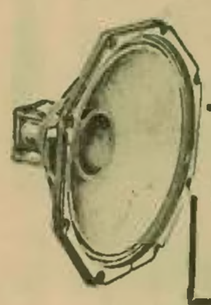
SCREW TERMINALS



Another terrific bargain brought to you by Olson's mass purchasing power. A full range, heavy duty 8" speaker featuring a rugged ceramic magnet and double wound voice coil. The flex-edge cone and exponential high frequency whizzer deliver smooth rich bass and crisp clean highs. Ideal for space saving stereo systems or extension speakers for stereo or hi-fi. Don't miss this TOP VALUE! Response 30 to 15,000 cps. Impedance 8 ohms. Shipping weight 4 lbs. Write for special large quantity prices.

## 8" Norelco Hi-Fi Speaker Model AD-3800

- 60-19,000 CPS
- Power Cap.: 8 W
- Ticonal Magnet



No. S-278

**$4.99**

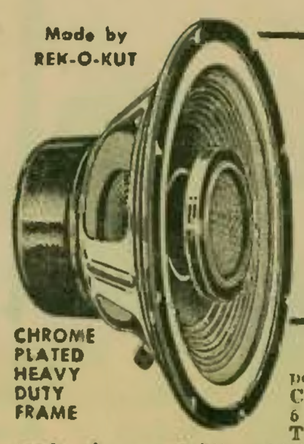
2 for $9.00

Precision made 8" speaker with coaxially mounted dispersion cone. Imported from Holland. Ideal for stereo and hi-fi extension speakers or PA and intercom installations. Size: 8" x 3⅜". Impedance: 8 ohms. Shpg. wt. 3 lbs.

24 Ga. Speaker Cable, 53 Ft., No. W-361, 99c
Crossover Capacitor Kit No. AS-552, $1.50

## Olson Deluxe 3-WAY SPEAKER

Made by REK-O-KUT



No. S-489

**29.98**

Stereo Pair $55

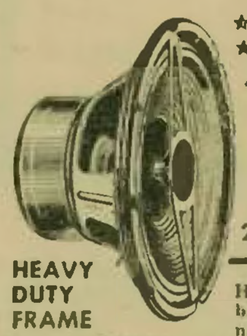
$7 Monthly

CHROME PLATED HEAVY DUTY FRAME

Cross-over points — 2000 C.P.S. and 6000 C.P.S. Tweeter extends clean, sparkling highs to 18,000 C.P.S. Paraflex Curvelinear 12" Woofer Cone. Fundamental Frequency 40 C.P.S. Very heavy magnet. Shpg. wt. 10 lbs.

## 12" "Golden Classic" COAXIAL

★ 12" Woofer
★ 3" Tweeter



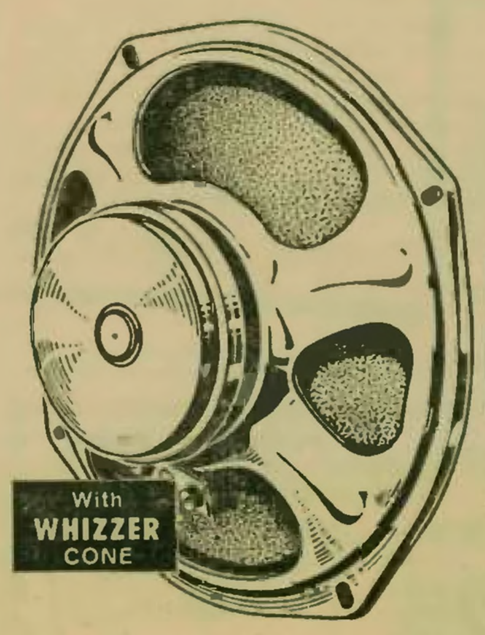
HEAVY DUTY FRAME

No. S-311

**$7.99**

2 for $15.50

Heavy frame, built-in cross-over network, frequency response from 35 to 15,000 cycles. Capacity full 12 watts. Voice coil 8 ohms. 12" WOOFER SECTION faithfully delivers all the true natural bass and middle register tone. 3" TWEETER SECTION faithfully reproduces all the clean and brilliant highs, features the latest parabolic cone. Shipping weight 8 lbs.



With WHIZZER CONE

## Genuine JENSEN 8" Full Range SPEAKER

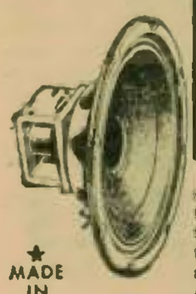
★ 8 Ohms ★ 12 Watts

**$6** No. S-562

2 for $11.50

Olson purchased the entire inventory of this Jensen Speaker from one of America's leading hi-fidelity console manufacturers all are BRAND NEW in factory packaging. Features 10 oz. SYNTOX-6 ceramic magnet and specially formed cone for exceptional transient response and maximum efficiency. Employs two cones which are always in phase and complete harmony. Produces clean, smooth, wide range response of 30-13,000 cps. Shipping wt. 4 lbs.

## "Sweet Sixteen" 5" SPEAKER



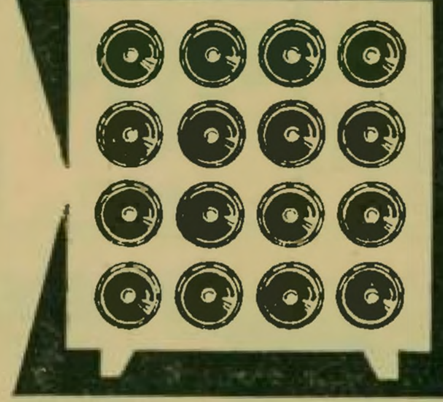
No. S-340

**$1.19**

3 for $3.50

The perfect 5" PM speaker for building the popular "sweet sixteen" system. (Instructions included.) Impedance ... ohms. 2 watts each. Shipping weight ½ lb. each.

★ MADE IN U.S.A.



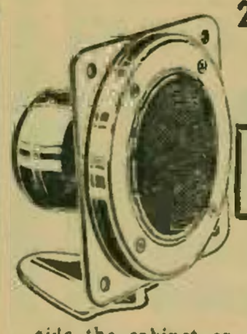
## "SWEET SIXTEEN" Five-Inch 16 Speakers

ALL 16 ONLY **$17**

Big speaker sound at small speaker price. Speakers are the S-340 at left. A best seller. Shpg. wt. 5½ lbs.

24 Ga. Speaker Cable, 53 ft., W-361 .... 99c

## 2¾" HARD CONE TWEETER



**$2.49** No. S-297

Ideal for "Sweet 16 plus 4". Finished in gleaming gold enamel, can be mounted inside the cabinet or on top. 15 watts. Response 1200 to 15,000 cps. 8 ohms. Size: 3x3x2". Shipping weight ¾ lb.

Crossover Capacitor Kit ... No. AS-552, $1.50

## CROSSOVER CAPACITOR KI



KIT OF

No. AS-552 **$1.50**

2 Kits for $2.95

This kit contains 5 popular values non-polarized electrolytic capacitors. Ide for crossovers in two or three speak systems. Kit includes one each of t following values: 4, 10, 25, 50, and 1 mfd., plus a circuit diagram of two a three speaker systems. Shpg. wt. ¾

## Olson ALNICO V SPEAKERS

★ MAY BE ASSORTED FOR QUANTITY PRICES

High quality PM speaker for replacements and original equipment applications.

### 12" Slim SPEAKER

**12" SLIM SPEAKER**

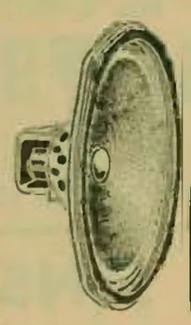
- Application: Limited space, 3½" deep.
- Voice Coil: 8 ohms.
- Magnet wt.: 2.35 oz.
- Power: 8 watts.
- Resp.: 40-10,000 CPS.

Shipping weight 4 lbs.



No. S-456 **$4.49**

### 6" x 9" PM SPEAKER

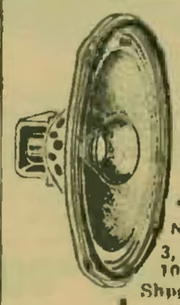


- Application: Auto radios, etc.
- Voice Coil: 8 ohms
- Magnet wt.: 1.47 oz.
- Power: 8 watts

Shipping wt. 3 lbs.

No. S-224 Each
3, @ $2.50 Ea.
100, @ $2.16 Ea. **$2.76**

### 6" x 9" HI-FI PM



- Aluminum Voice Coil
- Hi-Frequency Whizzer
- Application: Rear deck speaker, auto radios, etc.
- Voice Coil: 8 ohms
- Magnet wt.: 2.15 oz.
- Power: 8 watts

No. S-280 Each
3, @ $3.33 Ea
100, @ $2.73 Ea **$3.69**
Shpg. wt. 4 lbs.

### 6" PM SPEAKER



For general replacement. Voice coil 3.2 ohms. 1.47 oz. magnet. Rated 5 watts. Shpg. wt. 3 lbs.

LOTS OF 100, EA. $1.73

No. S-7, Lots of 3, Ea. $2.09 ... Ea. $2.29

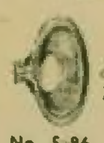
### 5" x 7" PM SPEAKER



For replacement auto radios, etc. Voice Coil: 8 ohms. 1.0 oz. magnet. Power: 6 watts. Shipping weight 3 lbs.

100, @ $1.99 Ea.
No. S-113, 3 @ $2.19 Ea., Ea. 2.49

### 8" PM SPEAKER

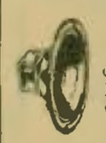


For general replacement. Voice coil 8 ohms. 2.15 oz magnet. Rated 7 watts. Shpg. wt. 3 lbs.

LOTS OF 100, EA. $2.32

No. S-86, Lots of 3, Ea. $3.29, ... Ea. $3.49

### 5" PM SPEAKER



For general replacement. Voice coil 3.2 ohms 1.0 oz magnet. Rated 4 watts. Shipping weight ¾ lb.

LOTS OF 100, EACH $1.47

No. S-336, 3 @ $1.67, ea., Ea. $1.79

### 4" PM SPEAKER



Ideal for replacement in radio, TV, or phono. Alnico 5 magnet. Shpg. wt. ½ lb.

3 @ 80c

No. S-568, 100 @ 70c, ea. 89c

### 4" SPEAKER



- 3.2 ohm Voice Coil. .65 oz. magnet. Ideal for replacement in radio or phono. Shpg. wt. ¾ lb.

No. S-564 (3 @ 90c) ea. 99c

### 4"x6" PM SPEAKER

★ COMPACT



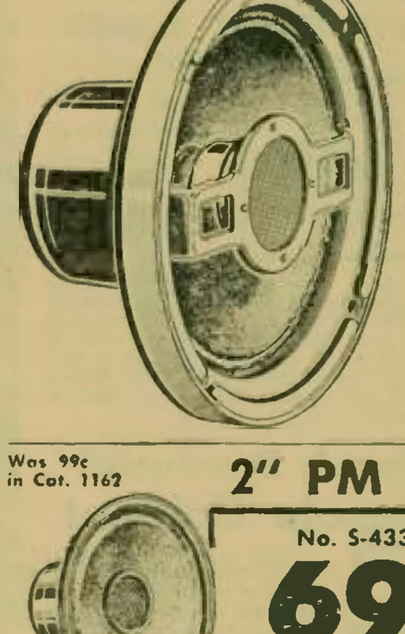
- Appl.: Extension or Replacement
- Ribbed Cone
- 3.2 Ohm

Shipping wt. 3 lbs.

3 for $3.00
No. S-579 EA. **$1.19**

## Olson 6½" Coaxial SPEAKER

- Response 50 to 16,000 CPS
- Ideal for Space Saving Stereo Systems



**$6.85**

2 for $12.75
No. S-496

Ideal for apartments or small rooms where space will not permit larger speakers. Features heavy duty magnet and 2" shielded tweeter with L-C crossover network. Impedance: 8 ohms. Response: 50 to 16,000 CPS. Power capacity: 7 watts. Shipping weight 4 lbs.

### 12" Slim SPEAKER

Was 99c in Cat. 1162

## 2" PM SPEAKER BARGAIN!



No. S-433

**69c**

3 @ 63c each
100 @ 59c each

- ★ Replacement Speaker
- ★ Miniature Microphone
- ★ Stereo Headphones
- ★ Experimental Use

A once-in-a-lifetime purchase make possible this unusually low price on this fine miniature speaker. Use anywhere sound reproduction is desired in a very limited space. Imp. 8 ohms, 0.5 oz. magn. 2" dia. x ¾" deep. Shipping weight ¾ lb. Write for special large quantity prices.

**2¼" PM SPEAKER** Use as concealed microphone or simply as a replacement speaker in transistor radios and intercoms. Use anywhere sound reproduction is desired in very limited space. Impedance 8 ohms, 0.5 oz. magn. 2¼" dia. x ¾" deep. Shpg wt. ¾ lb. Write for special large quantity prices.

No. S-532, 3 for $2.30 12 @ 70c ea. ... EA. 88c

## Stereo-High Fidelity

# Console Cabinet

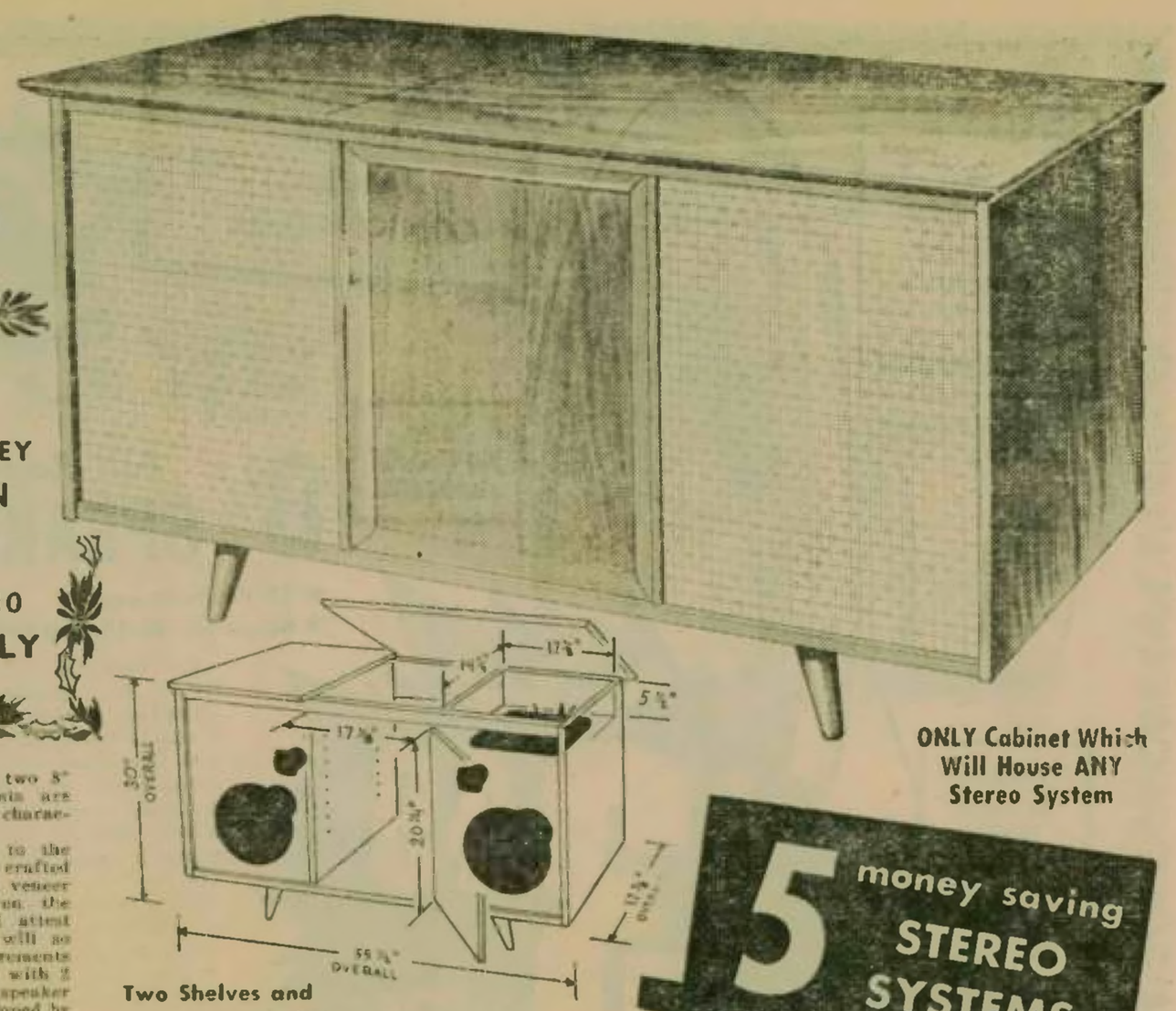
★ Oiled Walnut Finish
★ Fits Any Decor

No. CA-275

**$99** NO MONEY DOWN

★

ONLY $10 MONTHLY




Two Shelves and top panel included

ONLY Cabinet Which Will House ANY Stereo System

5 money saving STEREO SYSTEMS

The problem of housing ALL your stereo equipment (regardless of make or origin) in a single console cabinet has now been solved by OLSON! This includes YOUR stereo items!

The unique design of this cabinet centers around the tuner and amplifier compartment. Two pre-finished shelves, each fully adjustable, are provided for tuner and amplifier placement within this center compartment. Also, two panel boards are included—one for the center section (under hinged lid) if you wish to hang your equipment down with the controls horizontal facing up. (This board can be used to mount your tape deck instead if so desired). The other board is for mounting control panels when custom installing your equipment in the front center section. You may wish only to set your tuner and amplifier on the shelves and forget the "custom mounting"—this is fine since the shelves and compartment are completely pre-finished and will retain a built-in look. The remaining area below is for record or tape storage. The entire center compartment is easily accessible from the front with a hinged door.

The record changer mounting board is easily removed and can be cut to fit your particular changer. The area above changer board is 6" and the area below top of mounting board is 3". The changer compartment is designed to accept any changer.

The scientifically designed, fiberglass lined speaker compartments are constructed of Acoustic-Board and are vented to eliminate speaker loading. Each speaker compartment is pre-cut for a 3" round tweeter and a 12" speaker. Also included with each cabinet are two 8" speaker adapter boards. Speaker compartments are completely enclosed in back for better acoustic characteristics.

Last, and probably best of all (especially to the ladies) is the rich, yet soft subtle beauty hand crafted into each cabinet. The elegant hardwood walnut veneer finish, the contrasting case grille cloth, even the adjustable changer lid holding mechanism all attest to the excellent furniture craftsmanship you will so proudly own and enjoy. Complete cabinet measurements are shown in diagram at right. Cabinet comes with 2 shelves, top panel, front panel and 2 eight inch speaker adapter boards. Speaker cutg. studs installed. Shipped by truck or express from Batavia, N. Y. Shpg. wt. 126 lbs.

### STEREO SYSTEM I

| | |
|---|---|
| 1-Stereo Console Cabinet (above) No. CA-275 | $99.00 |
| 1-Perpetuum Ebner Changer (pg. 9) RP-250 | 18.00 |
| 2-Jensen 12" Speakers (pg. 14) No. S-551 | 17.76 |
| 1-Stereo Amplifier (pg. 6) No. AM-217 | 34.98 |
| TOTAL REG. PRICE . . . | $169.74 |

No. AS-835 SYSTEM PRICE **$149.49**

### STEREO SYSTEM II

| | |
|---|---|
| 1—Stereo Console Cabinet (above) No. CA-275 | $99.00 |
| 1—50 Watt Stereo Amp. (pg. 6) No. AM-240 | 99.98 |
| 2—12" Full-Range Speakers (pg. 13) No. S-495 | 26.50 |
| 1—Garrard "Autoslim" Changer (pg. 9) No. RP-224 | 39.50 |
| 1—Pickering Stereo Cart. (pg. 10) No. PC-96 | 16.88 |
| TOTAL REG. PRICE . . . . | $281.86 |

No. AS-869 SYSTEM PRICE **$242.99**

### STEREO SYSTEM III

| | |
|---|---|
| 1-Stereo Console Cabinet (above) No. CA-275 | $99.00 |
| 1-FM/AM-MPX Tuner & 20 Watt Stereo Amp. (pg. 7) No. AM-230 | 99.93 |
| 2-Jensen 12" Speakers (pg. 14) No. S-551 | 17.76 |
| 1-Garrard "Autoslim" Changer (pg. 9) RP-224 | 39.50 |
| 1-Pickering Stereo Cart. (pg. 10) No. PC-96 | 16.88 |
| TOTAL REG. PRICE . . . . | $273.07 |

No. AS-838 SYSTEM PRICE **$244.99**

### STEREO SYSTEM IV

| | |
|---|---|
| 1—Stereo Console Cabinet (above) No. CA-275 | $99.00 |
| 1—30 Watt Stereo Amplifier (pg. 6) No. AM-229 | 69.98 |
| 1—FM-AM-FM MPX Tuner (pg. 6) No. RA-580 | 79.98 |
| 2—12" Full-Range Speakers (pg. 13) No. S-495 | 26.50 |
| 1—Garrard "Autoslim" Changer (pg. 9) No. PR-224 | 39.50 |
| 1—Pickering Stereo Cart. (pg. 10) No. PC-96 | 16.88 |
| TOTAL REG. PRICE . . . . | $331.84 |

No. AS-868 SYSTEM PRICE **$288.99**

### STEREO SYSTEM V

| | |
|---|---|
| 1-Stereo Console Cabinet (above) No. CA-275 | $99.00 |
| 1-FM-MPX Tuner/30 Watt Stereo Amp. (pg. 7) No. RA-600 | 149.99 |
| 2-12" 3-way Speakers (pg. 15) No. S-600 | 39.00 |
| 1-Garrard "Autoslim" Changer (pg. 9) RP-224 | 39.50 |
| 1-Pickering Stereo Cart. (pg. 10) No. PC-96 | 16.88 |
| TOTAL REG. PRICE . . . | $344.37 |

No. AS-839 SYSTEM PRICE **$319.99**

## STEREO Console Cabinet



~~$59.95~~

IN CAT. 263

NOW ONLY

**$27**

MAHOGANY

No. CA-269

WILL ACCOMMODATE AN ENTIRE STEREO SYSTEM

Elegance, magnificently expressed, is yours when you own this strikingly beautiful console cabinet. Expertly finished in beautifully grained hardwood veneer for lasting beauty. This fine cabinet will accommodate an entire stereo system or you can use it as a center unit with extension speakers. Handsome styling with off-center lid, complements the furnishings of any room. Outside dimensions are: 40" wide x 29" high (including legs) x 15¾" deep. Changer compartment is 15" wide x 12½" deep x 6" high. Tuner-amplifier panel measures 8" x 12½". Speaker boards are pre-cut, for 10" speakers, with mounting studs installed. Shipping weight 54 lbs.

Edward A. Roel, 806 Brandy Rd., Aiken, S. Car., wins cache of merchandise worth $5 from Olson's "Treasure Hunt." See back cover for instructions.

## Stromberg-Carlson CONTEMPORARY MODERN

DESERT WALNUT



$7 MONTHLY

ORDER NO. 711 CABINET ONLY **$49** No Money Down

Cabinet, completely stereo equipped, originally sold in 1960 for $199.95

Cabinet is completely finished—ready to accept your Stereo or Hi-Fi equipment. Both the tuner-amplifier and phono mounting boards can be removed for your convenience and accessibility. Top, exposed area of tuner-amplifier compartment measures 7⅝" wide x 14½" deep x 2" high. Top, exposed area, of phono compartment measures 17⅝" wide x 14½" deep x 6" high. Speaker boards are pre-cut with mounting studs installed. Overall cabinet size: 38" wide by 16¼" deep by 5⅝" high. Shipping weight 61 lbs. **Cabinet shipped by truck or express from Batavia, New York.** Order now and save.

## Stromberg-Carlson French Provincial Console Cabinet



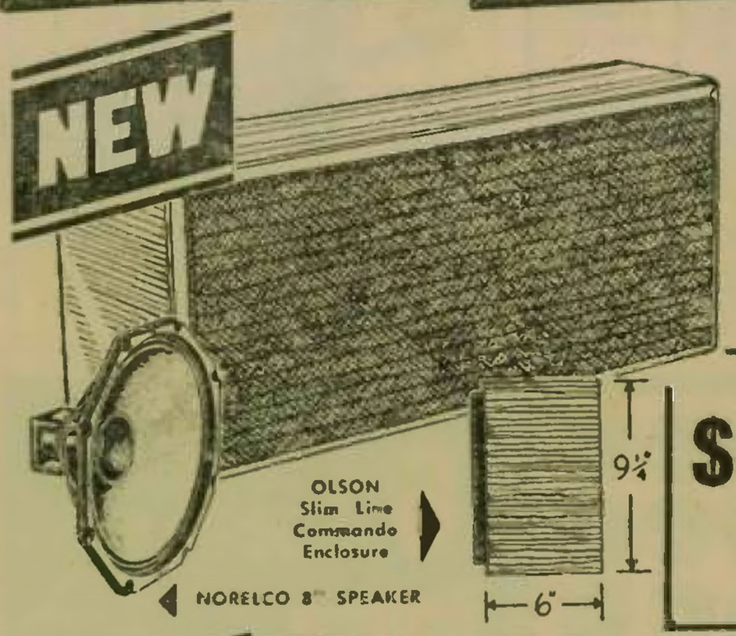
Order No. 713 Cabinet Only **$79** $8 Monthly No Money Down

Styled by Federico, Cherry Finish, solid hardwood veneer. Outside Dimension: 39" wide, 17" deep, 26" high. Top, exposed area, of tuner-amplifier compartment measures 7⅝" wide x 14½" deep x 2" high. Top, exposed area, of phono compartment measures 17⅝" wide x 14½" deep x 6" high. Speaker boards are pre-cut. Shipped by truck or express from Batavia, N. Y. Shipping weight 78 lbs.

Norelco-Olson

## "Slim-Line COMMANDO" SPEAKER & ENCLOSURE

★ Ready to Play—No Finish Required
★ Full ½" Acoustic Wood Construction
★ Response 45 to 19,000 CPS
★ Low Priced—Space Saving




No. S-580

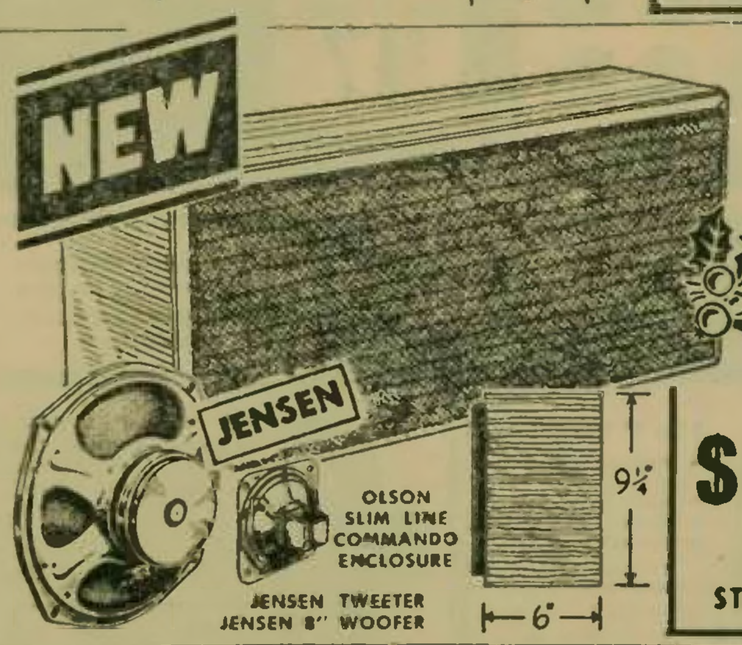
**$10.98**

2 for $21



Famous Norelco 8" speaker AD-8360 SS mounted and wired in a custom shelf size enclosure. Ready to connect and use. Size: 6" x 23⅝" x 9¼". Although no finish is required, cabinet may be painted, waxed, varnished, etc. Impedance 8 ohms, 6 watts. Shpg. weight 21 lbs.

## JENSEN SPEAKERS IN OLSON Slim-Line Commando Enclosure




*Perfect Family Gift*

No. S-581

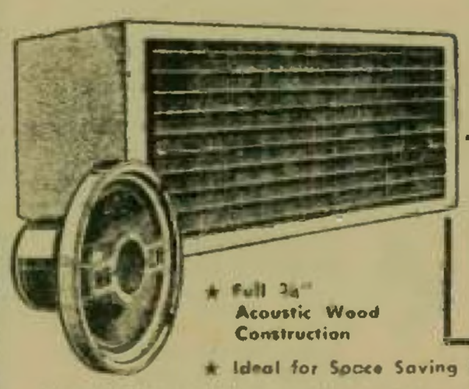
**$17.98**

STEREO PAIR $32

★ Response: 50-16,000 cps
★ Impedance: 8 ohms
★ Modern Rich Grille Cloth

The famous Commando enclosure now houses a Olson designed 2-way system featuring famous Jensen speakers. Superb listening enjoyment at a very low cost, is yours through the Jensen 8" Woofer and 3½" Cone Tweeter. Speakers are matched and mounted—ready to play. Enclosure is scientifically designed to achieve the maximum bass response. Although no finish is required, enclosure may be painted, waxed or varnished. Size: 8" x 23⅝" x 9¼". Shipping weight 22 lbs.

## OLSON COMPACT "COMMANDO"



FEATURING Olson 6½" COAX

No. S-534

**$12.99**

2 For $25

★ Full ¾" Acoustic Wood Construction

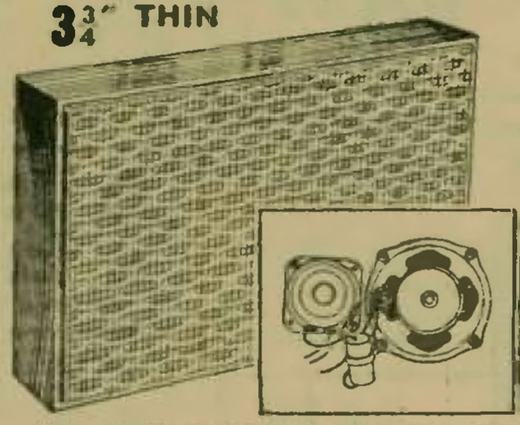
★ Ideal for Space Saving Stereo Systems

Completely assembled, ready to connect and enjoy. Although no finish is required, cabinet may be painted, waxed, varnished, etc. Ideal for apartments or small rooms where space will not permit larger speakers. Speaker features heavy duty magnet and 2" shielded tweaker with LC crossover network. Impedance: 8 ohms. Response: 50 to 16,000 CPS. Power capacity: 10 watts. Size: 8" x 8" x 7⅞". Shipping weight 15½ lbs.

SEE PAGE 12 for SPECS on 6½" COAX

## JENSEN SPEAKERS In Olson 2-Way Speaker System

3¾" THIN



JENSEN 8" Woofer, 3½" Tweeter w/crossover ★6 oz. Ceramic Magnet

No. S-477

**$13.75**

2 for $27

Two-way system, with full rich sound. Attractive mahogany grained fabric covered cabinet with case type grille. Impedance 8 ohms, with screw terminals. Size: 18" x 12" x 5¾". Shipping weight 7 lbs.

Gift Suggestions for the MUSIC CONNOISSEUR

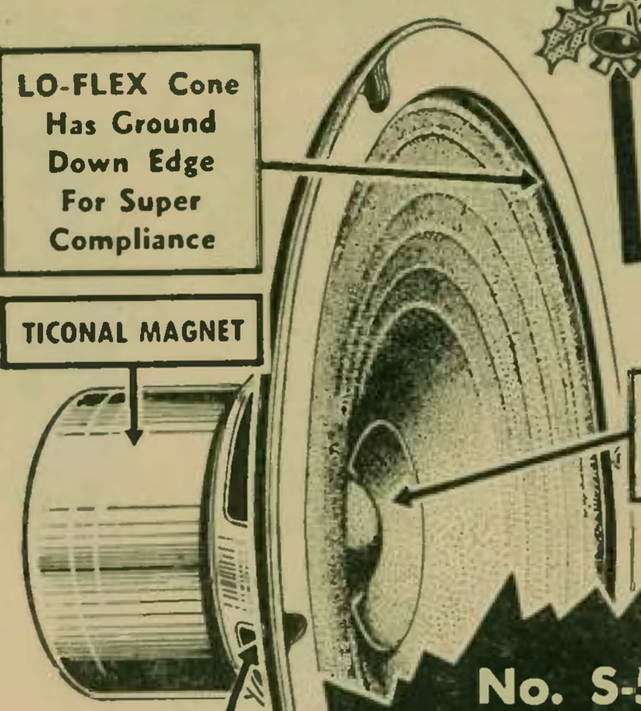


LO-FLEX Cone Has Ground Down Edge For Super Compliance

TICONAL MAGNET

HIGH FREQUENCY WHIZZER

Double Wound Voice Coil



Imported from ENGLAND

## No. S-517 — $3.49 — 2 FOR $6.50

ELAC

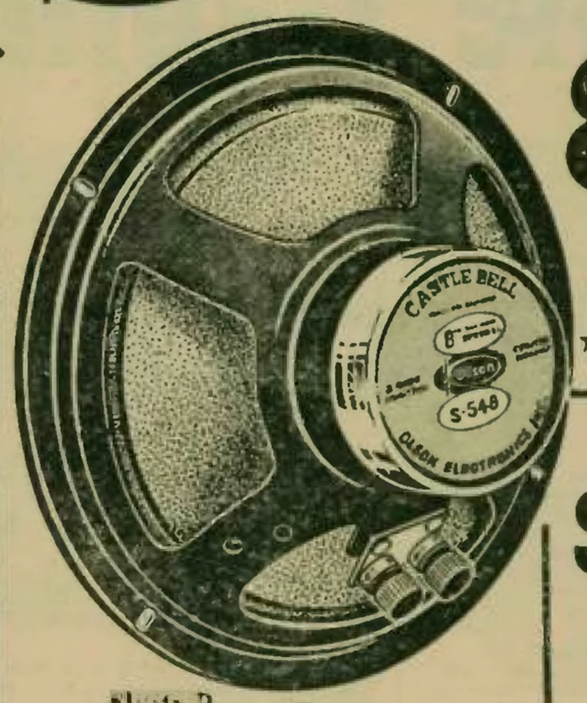
## 8" Full Range SPEAKER

★ 15 Watts Power
★ Response 40-15,000 CPS

This beautifully crafted loudspeaker has a richness of tone which belies its size. A one inch, 8 ohm double wound voice coil with special felt centering, excellent quality fibre cone, and concentric exponential high frequency whizzer. Heavy duty ticonal magnet. Priced at far less than its worth due to an OLSON mass purchase. Use for main system or as add-on speakers in den, bedroom, etc. Size: 8" diam. x 2⅝" deep. Shipping weight 2 lbs.

Seneca Sound Serv., F. J. Allayre, Attica, Ohio, wins choice of merchandise worth $5 from Olson's "Treasure Hunt." See back cover for instructions.

Olson "Castle Bell" IMPORTED from ENGLAND




## 8" FULL RANGE SPEAKER

★ Resp.: 30-15,000 CPS

No. S-548 — $5.98 — 2 for $11.50

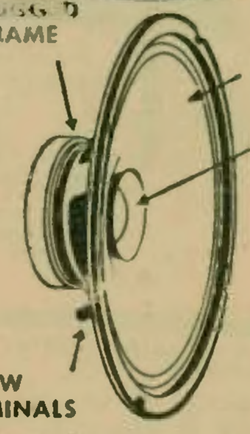
RUGGED FRAME

FLEXEDGE CONE

EXPONENTIAL WHIZZER

HEAVY DUTY CERAMIC MAGNET

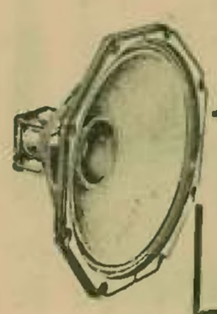
SCREW TERMINALS



Another terrific bargain brought to you by Olson's mass purchasing power. A full range, heavy duty 8" speaker featuring a rugged ceramic magnet and double wound voice coil. The flexedge cone and exponential high frequency whizzer deliver smooth rich bass and crisp clean highs. Ideal for space saving stereo systems or extension speakers for stereo or hi-fi. Don't miss this TOP VALUE! Response 30 to 15,000 cps. Impedance 8 ohms. Shipping weight 4 lbs. Write for special large quantity prices.

## 8" Norelco Hi-Fi Speaker Model AD-3800

- 60-19,000 CPS
- Power Cap.: 8 W
- Ticonal Magnet



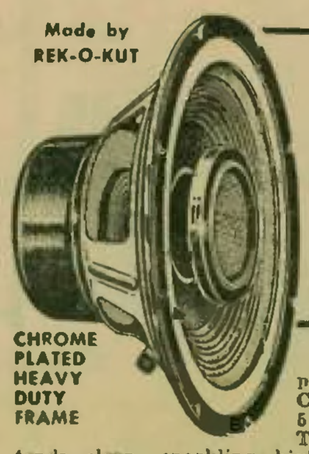
No. S-278 — $4.99 — 2 for $9.00

Precision made 8" speaker with coaxially mounted dispersion cone. Imported from Holland. Ideal for stereo and hi-fi extension speakers or PA and intercom installations. Size: 8" x 3⅜". Impedance: 8 ohms. Shpg. wt. 3 lbs.

24 Ga. Speaker Cable, 53 Ft., No. W-361, 99c
Crossover Capacitor Kit No. AS-552, $1.50

## Olson Deluxe 3-WAY SPEAKER

Made by REK-O-KUT



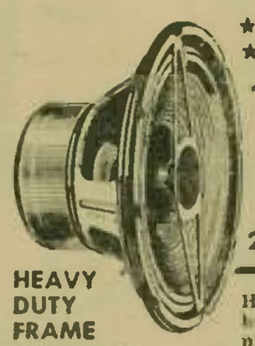
No. S-489 — 29.98 — Stereo Pair $55 — $7 Monthly

CHROME PLATED HEAVY DUTY FRAME

Cross-over points — 2000 C.P.S. and 5000 C.P.S. Tweeter extends clean, sparkling highs to 18,000 C.P.S. Paraflex Curvelinear 12" Woofer Cone. Fundamental Frequency 40 C.P.S. Very heavy magnet. Shpg. wt. 10 lbs.

## 12" "Golden Classic" COAXIAL

★ 12" Woofer
★ 3" Tweeter



No. S-311 — $7.99 — 2 for $15.50

HEAVY DUTY FRAME

Heavy frame, built-in crossover network, frequency response from 35 to 15,000 cycles. Capacity full 12 watts. Voice coil 8 ohms. 12" WOOFER SECTION faithfully delivers all the true natural bass and middle register tone. 3" TWEETER SECTION faithfully reproduces all the clean and brilliant highs, features the latest parabolic cone. Shipping weight 8 lbs.




## Genuine JENSEN 8" Full Range SPEAKER

★ 8 Ohms ★ 12 Watts

No. S-562 — $6 — 2 for $11.50

Olson purchased the entire inventory this Jensen Speaker from one of Americ leading hi-fidelity console manufacturers all are BRAND NEW in factory packing. Features 10 oz. SYNTOX-6 ceram magnet and specially formed cone exceptional transient response and ma mum efficiency. Employs two cones whi are always in phase and complete harmo Produces clean, smooth, wide range sponse of 30-15,000 cps. Shipping wt. 4

"Sweet Sixteen"

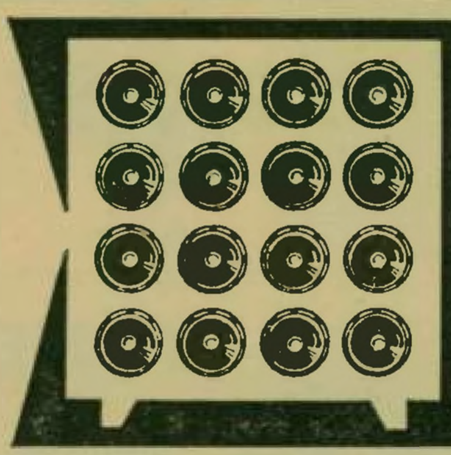
## 5" SPEAKER



No. S-340 — $1.19 — 3 for $3.50

★ MADE IN U.S.A.

The perfect 5" PM speaker for building the popular "sweet sixteen" system. (Instructions included.) Impedance 3.2 ohms. 2 watts each. Shipping weight ½ lb. each.



"SWEET SIXTEEN" Five - Inch

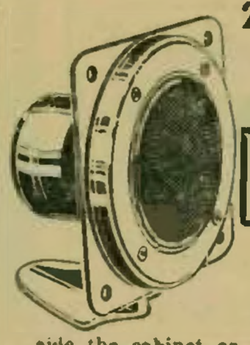
## 16 Speakers

ALL 16 ONLY $17

Big speaker sound at small speaker price. Speakers are the S-340 at left. A best seller. Shpg. wt. 5½ lbs.

24 Ga. Speaker Cable, 53 ft., W-361 — 99c

## 2¾" HARD CONE TWEETER

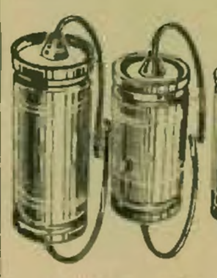


$2.49 No. S-297

Ideal for "Sweet 16 plus 4". Finished in gleaming gold enamel, can be mounted inside the cabinet or on top. 15 watts. Response 1200 to 15,000 cps. 8 ohms. Size: 3x3x2". Shipping weight ¾ lb.

Crossover Capacitor Kit — No. AS-552, $1.50

## CROSSOVER CAPACITOR KI



KIT OF

No. AS-552 — $1.50 — 2 Kits for $2.95

This kit contains 5 popular values non-polarized electrolytic capacitors. Id for crossovers in two or three speak systems. Kit includes one each of t following values: 4, 10, 25, 50, and 1 mfd., plus a circuit diagram of two a three speaker systems. Shpg. wt. ¾

## Olson ALNICO V SPEAKERS

★ MAY BE ASSORTED FOR QUANTITY PRICES

High quality PM speaker for replacements and original equipment applications.

### 12" Slim SPEAKER



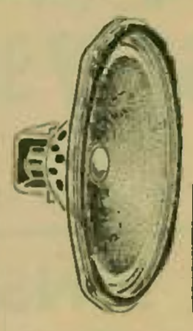
12" SLIM SPEAKER

- Application: Limited space, 3½" deep.
- Voice Coil: 8 ohms.
- Magnet wt.: 2.35 oz.
- Power: 8 watts.
- Resp.: 40-10,000 CPS.

Shipping weight 4 lbs.

No. S-456 — $4.49

### 6" x 9" PM SPEAKER

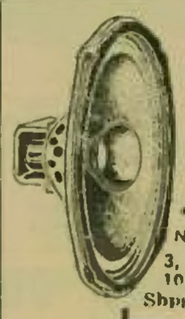


- Application: Auto radios, etc.
- Voice Coil: 8 ohms
- Magnet wt.: 1.47 oz.
- Power: 8 watts

Shipping wt. 3 lbs.

No. S-224 — Each 3, @ $2.50 Ea. — 100, @ $2.16 Ea. — $2.76

### 6" x 9" HI-FI PM



- Aluminum Voice Coil
- Hi-Frequency Whizzer
- Application: Rear deck speaker, auto radios, etc.
- Voice Coil: 8 ohms
- Magnet wt.: 2.15 oz.
- Power: 8 watts

No. S-280 — Each 3, @ $3.33 Ea — 100, @ $2.73 Ea — $3.69

Shpg. wt. 4 lbs.

### 6" PM SPEAKER



For general replacement. Voice coil 3.2 ohms. 1.47 oz. magnet. Rated 5 watts. Shpg. wt. 3 lbs.

LOTS OF 100, EA. $1.73

No. S-7, Lots of 3, Ea. $2.09 — Ea. $2.29

### 5" x 7" PM SPEAKER

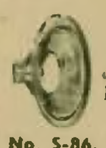


For replacement auto radios, etc. Voice Coil: 8 ohms. 1.0 oz. magnet. Power: 6 watts. Shipping weight 3 lbs.

100, @ $1.99 Ea

No. S-113, 3 @ $2.19 Ea., Ea. 2.49

### 8" PM SPEAKER



For general replacement. Voice coil 8 ohms. 2.15 oz. magnet. Rated 7 watts. Shpg. wt. 3 lbs.

LOTS OF 100, EA. $2.32

No. S-86, Lots of 3, Ea. $3.29, — Ea. $3.49

### 5" PM SPEAKER



For general replacement. Voice coil 3.2 ohms 1.0 oz. magnet. Rated 4 watts. Shipping weight ¾ lb.

LOTS OF 100, EACH $1.47

No. S-336, 3 @ $1.67, ea., Ea. $1.79

### 4" PM SPEAKER



Ideal for replacement in radio, TV, or phono. Alnico 5 magnet. Shpg. wt. ¼ lb.

3 @ 80c

No. S-568, 100 @ 70c, ea. 89c

### 4" SPEAKER



- 3.2 ohm Voice Coil .68 oz. magnet. Ideal for replacement in radio or phono. Shpg. wt. ¼ lb.

No. S-564 (3 @ 90c) ea. 99c

### 4"x6" PM SPEAKER



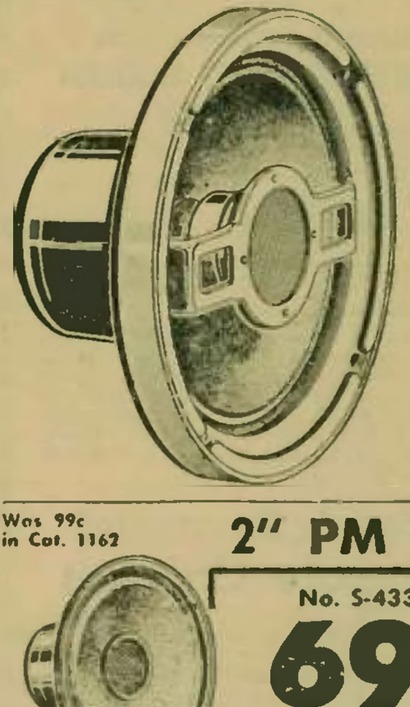
★ COMPACT

- Appl.: Extension or Replacement
- Ribbed Cone
- 3.2 Ohm

Shipping wt. 3 lbs.

3 for $3.00
No. S-579 EA. — $1.19

## 6½" Coaxial SPEAKE



- Response 50 to 16,000 CPS
- Ideal for Space Saving Stereo System

$6.85 — 2 for $12.75 — No. S-496

Ideal for apartments or small rooms whe space will not permit larger speakers. Featur heavy duty magnet and 2" shielded tweeter wi LC crossover network. Impedance: 8 ohms. R sponse: 50 to 16,000 CPS. Power capacity: watts. Shipping weight 4 lbs.

Was 99c in Cat. 1162

## 2" PM SPEAKER BARGAIN!



No. S-433 — 69c — 3 @ 63c each — 100 @ 59c each

★ Replacement Speaker
★ Miniature Microphone
★ Stereo Headpnones
★ Experimental Use

A once-in-a-lifetime purchase mak possible this unusually low price this fine miniature speaker. Use an where sound reproduction is desired a very limited space. Imp. 8 ohms. 0 oz. mag. 2" dia. x ⅞" deep. Shpg. weight ¼ lb. Write for special lar quantity prices.

2¼" PM SPEAKER Use as concealed microphone or simply as a replacement speak in transistor radios and intercoms. Use anywhere sound reproduction is desired in very limited space. Impedance 8 ohms, 0.5 oz. mag. 2¼" dia. x ⅞" deep. Shpg wt. ¼ Write for special large quantity prices.

No. S-532, 3 for $2.30 12 @ 70c ea. — EA. 88



WRH

"SHIELD CREST"

# SPEAKER SYSTEM

Made In DENMARK



No. S-566

**ALL 3 SPEAKERS (PLUS) CROSSOVER NETWORK**

**$22.88**

**2 SYSTEMS $44**

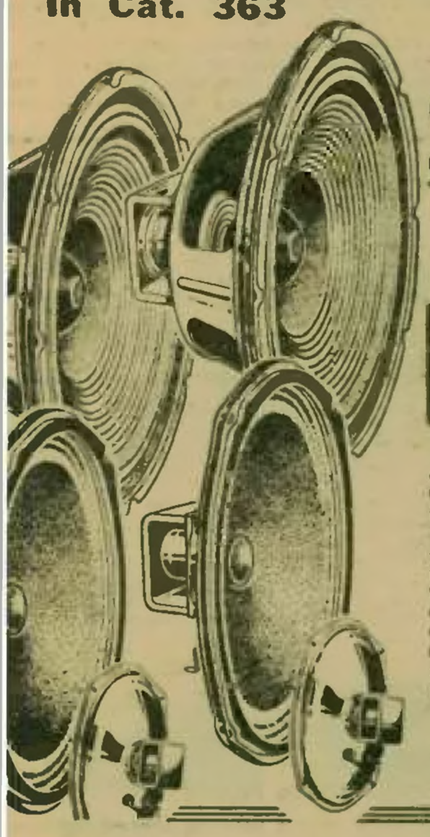
- Response 25 to 18,000 CPS; ± 4DB
- Power Handling Capacity 25 watts

Rarely are we able to offer a set of Danish speakers as fine as these. Now, you can get these matched sets in factory sealed cartons at less than our 1962 price. Made by the largest and best Danish speaker manufacturer. Consists of a 12" woofer, a 5" midrange and a 2" tweeter. Also included is a precision crossover network which matches these speakers exactly and gives electronic crossover frequencies of 750 cps and 4000 cps. Overall impedance 8 ohm matches any amplifier. Easy to hook up instructions supplied. Shipping weight 14 lbs.

## INDIVIDUAL UNITS AVAILABLE

| | |
|---|---|
| " TWEETER: Reso. 3,000—18,000 CPS; Power 5 Watts, No. S-345 | ea. $3.25 |
| " MID-RANGE Resp. 750—6,000 CPS, Power 5 Watts, No. S-346, | ea. $4.50 |
| " WOOFER Resp. 25-900 CPS; Power 20 Watts, No. S-347 | ea. $9.00 |
| ROSSOVER NETWORK No. T-257 | ea. $7.50 |
| IVEL CONTROLS (Optional, 2 Required) No. VC-204 | ea. $1.39 |

Was $30.00 In Cat. 363



## Custom STEREO SPEAKER SYSTEM

**2** 3-WAY SPEAKER SYSTEMS

- 2—12" Woofers
- 2—6x9 Midranges
- 2—3x5 Tweeters

**ALL 6 SPEAKERS**

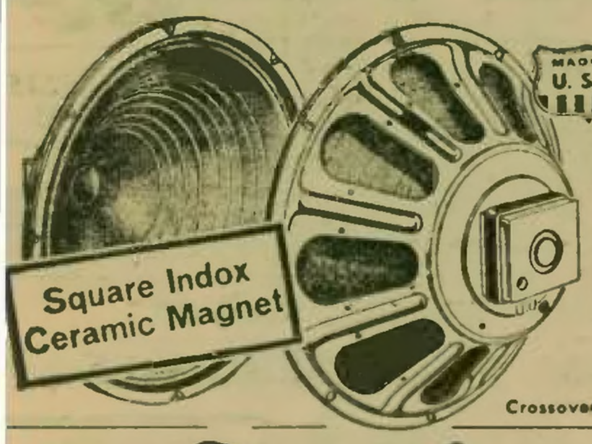
**$19.95** No. S-509

The 12" woofers contain phenolic voice coil forms for extreme low frequency. The 6" x 9" "Heart of the System" speakers provide the all important midrange while the 3" x 5" tweeters go up to a smooth and clean 18,000 cps. 8 ohm, 30 watt music power. System consists of two 12" woofers, two 6x9 super flex-edge midrange speakers, and two 3x5 totally enclosed tweeters, complete crossover networks, and all necessary wire, and hardware. Ideal for custom installations and built-in systems. Shipping weight 14 lbs.

Simpson Radio Serv., R. I. Vinita, Okla., wins choice of merchandise worth $5 from Olson's "Treasure Hunt." See back cover for instructions.

# 2 GIANT 15" Full Range SPEAKERS

STEREO MATCHED




- Resp.: 30-13,000 CPS
- Power Cap.: 25 Watts

No. S-526
TWO FOR **$15.95**
Single, No. S-530, $9.95

8 ohm. Size: 15" x 6⅝" deep. Shipping wt. 12 lbs. per pair.

Crossover Capacitor Kit No. AS-552, $1.50



## 2-WAY SPEAKER SYSTEM

No. S-530 Olson 15" Woofer (above)
No. S-547 Horn Tweeter (right)
No. T-294 Spkr. Crossover (pg. 14)

No. AS-833 COMPLETE **$13.00**
Stereo Pr. $25.50

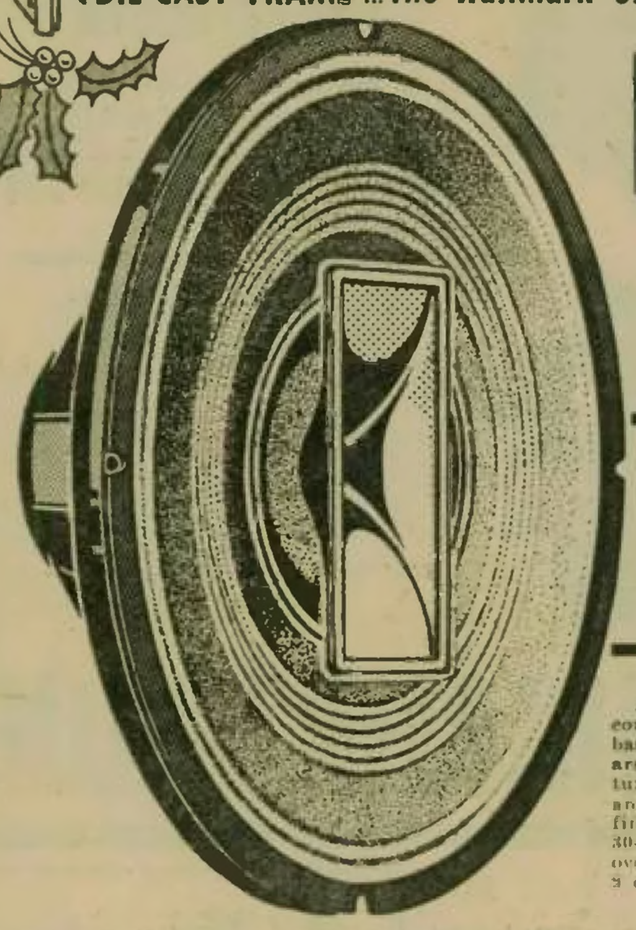
Delivers full rich tone impossible to achieve with smaller speaker systems. The heavy duty 15" woofer faithfully reproduces clean rich bass tones to 35 cps. Compression horn tweeter adds smooth, transient-free high frequencies to the limits of audibility. Shipping weight 11½ lbs.

# Olson *Slim-Line Design* SPEAKERS

BEST Gift BUY

Heavy Duty MAGNET | Ribbed Cone CONSTRUCTION

◀ DIE-CAST FRAME ... *the Hallmark of a Fine Loudspeaker!*



## 12" 3-way SPEAKER

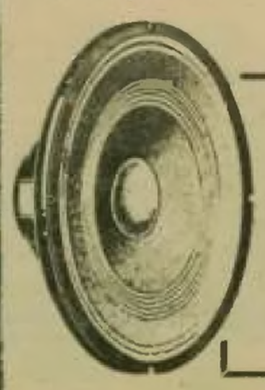
- ★ Built-in Crossover
- ★ Response 30-16,000 CPS
- ★ Impedance: 8 Ohms

**$19.98** No. S-600 Stereo Pair $39

All of the latest advances in speaker design have been incorporated in this revolutionary 3-way speaker. Phenomenal bass, full-bodied mid range and silky smooth upper octaves are reproduced with unusually pleasing musical balance. Features heavy-duty die cast frame plus ribbed cone construction and independent compression horn tweeter. Use two of these fine speakers for the ultimate in stereo reproduction. Response: 30-16,000 CPS. Mechanical crossover 1800 CPS, electrical crossover 5,000 CPS, power handling capacity: 20 watts, Impedance 8 ohms. Shipping weight 11 lbs.

## 12" WOOFER

- ★ Response: 30-3500 CPS
- ★ 8 Ohms



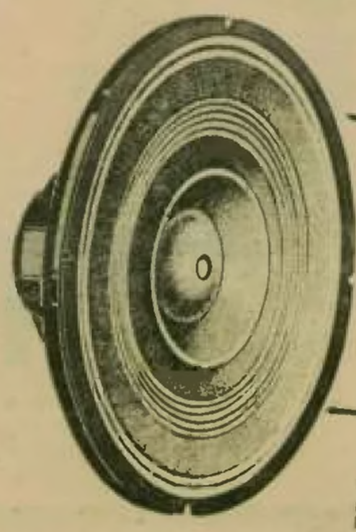
No. S-541 **$13.95** STEREO PAIR $26.50

This superb speaker delivers remarkable transient response along with rich full-bodied bass. This exceptional preformance is made possible by the newest advancements in high fidelity speaker design. Rugged heavy-duty die cast frame plus an accordian edge cone assures greatly improved bass response. Use to assemble new 2 and 3 way high-quality speaker systems at a budget price or modernize your old hi-fi or stereo. Response 30-3500 CPS, power handling capacity: 20 watts. Impedence 8 ohms. Shpg. wt. 10 lbs.

CROSSOVER CAPACITOR KIT
No. AS-552 ..... $1.50

## 12" Full Range LOUDSPEAKER

- ★ Resp. 30-16,000 CPS
- ★ Impedance: 8 Ohms



No. S-495 **$13.95** STEREO PAIR $26.50

A heavy duty die cast frame is the hallmark of fine speakers. All other popular-priced loudspeakers have frames of stamped sheet metal which bend easily and allow the speaker cone and delicate voice coil to shift position.

The heavy magnet and ribbed cone contribute to the excellent sound of this speaker. Features whizzer cone for extended high frequency response. Frequency response 30-16,000 CPS, power handling capacity: 20 watts, impedance 8 ohms, rugged slim-line design. Size 12" dia. x 3½" D. Shipping weight 11 lbs.

CROSSOVER CAPACITOR KIT, AS-552 ..... $1.50

**Olson SPEAKER SYSTEM**
S-541 Woofer (above)
S-599 Tweeter (below)
T-294 Crossover (pg. 12

No. AS-827 **$16.20** STEREO PAIR $32.00

**Olson SPEAKER SYSTEM**
S-541 Woofer (above)
S-533 Tweeter (below)

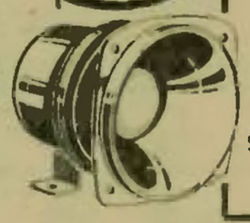
No. AS-758 **$16.98** STEREO PAIR $32.00

**Olson SPEAKER SYSTEM**
S-541 Woofer (above)
S-547 Tweeter (below)
T-294 Crossover (pg. 12

No. AS-828 **$19.05** Stereo Pair $37.00

## Deluxe HORN TWEETER

★ Response to 15,000 CPS



No. S-599 **$3.49** STEREO PAIR $6.00

A horn tweeter that produces silky smooth high frequencies and even dispersion. One of the finest horn tweeters available at any price. Entirely enclosed in metal case. Tweeter can be mounted to front of cabinet or on attached self-supporting stand. Requires 3" mounting hole. 8 ohm. Size: 4 x 3⅛". Shipping weight ¾ lb.

Crossover Capacitor Kit, No. AS-552 $1.50

## 4" Hard Cone TWEETER

★ Built-In Crossover



★ Die Cast Frame

No. S-533 **$5.95** Stereo Pair $10.00

Features excellent high frequency characteristics and is capable of handling frequencies as low as 2,000 CPS. The tweeter has a built-in 2,500 CPS crossover or it can be easily connected to your existing crossover network. Resp.: 2,000-16,000 CPS; Impedance: 8 ohms, power cap. 15 watts; Diameter: 4 in. Shipping weight 1½ lbs.

## Compression HORN TWEETER

- ★ 1,000 CPS to 18,000 CPS
- ★ Cast Aluminum Horn
- ★ 20 Watts



*Electronically Equivalent to:*
Electro-Voice MFT, Jensen ORP201, University 4401

No. S-547 **ONLY $7.99**

Use with any 8, 12 or 15" speaker. Add smooth, transient-free high frequencies to your speaker system at a real money saving price. Low frequency response eliminates the need for a mid-range speaker. 8 ohms. Size: 4" H x 10½" W x 11½" L. Shpg. wt. 6 lbs.

Crossover Capacitor Kit AS-552 $1.50

# Olsontone GRILLE CLOTH

★ Will Not Snag, Scuff or Fade
★ EASY TO INSTALL



**$1.39**
3 For $3.50
Write for Special Large Quantity Prices

## 24" x 36" GRILLE CLOTH

Mahogany No. CA-214
Blonde No. CA-213

Give those old enclosures a new look at a fraction of original cost. Pattern may vary from illustration. An OLSON BEST BUY! Shipping weight, 1¾ lbs.

**$1.99**
3 For $5.00
Write for Special Large Quantity Prices

## 36" x 40" GRILLE CLOTH

Mahogany No. CA-71
Blonde No. CA-75

Ideal for modernizing old enclosures or in new construction. Pattern may vary from illustration. Shipping weight 1¾ lb.


USE IN NEW CONSTRUCTION


USE IN REMODELING

## FANTASTIC VALUE

## 8" SPEAKER & BAFFLE

Olson

★ Level Control
★ Shelf-Wall Mtg.

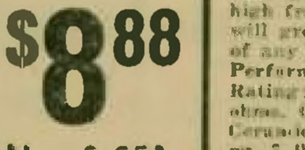


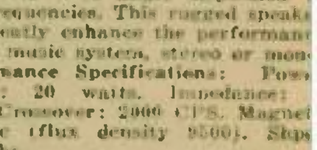

Satin Smooth hi-impact plastic baffle with level control and rugged 8" speaker wired and installed. Ideal for churches, schools, public buildings, or use around the house as an extension on radio, TV or phono. Attractively styled to match any decor. 4 watts 8 ohms. Response 50 to 9,000 CPS. Size: 10" x 9¾" x 5¾". Shipping weight 9 lbs.

No. S-409
**$8.91**
3 for $26

SPEAKER CABLE, 53 ft., 24 Ga., No. W-361 — 99c

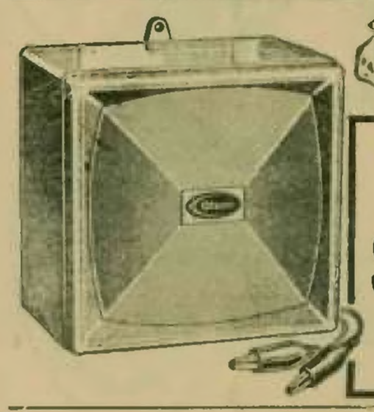

RESTAURANT


OFFICE


INDUSTRY

## EXTENSION SPEAKER

★ 20' Cable and Clips
★ Attractive Case



No. S-494
ONLY
**$2.98**

An attractively styled, easy to listen to extension speaker ready to connect to any radio, tape recorder, record player, or other sound source, just clip across present speaker leads. Can be placed on table or hang on wall, hanger included. Neutral color, 8 ohms. Plastic case. Size: 4½" x 4½" x 2¼". Shipping weight 3 lbs.

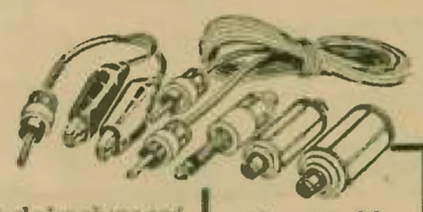
## REMOTE CONTROL SPEAKER

Similar to above but has volume controls for remote and main speaker, bargain priced. Size: 4½" x 4½" x 2½". With 20' wire and instructions. 8 ohms. Shipping weight 3 lbs.

No. S-549 **$4**

## Universal CABLE KIT

★ Makes Any Type of Audio Hook-up

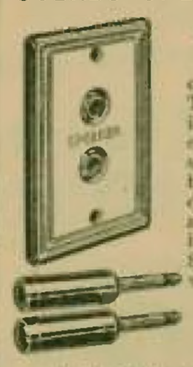


Includes phono and phone type plugs plus clips. Ideal for connecting tuner to amplifier or tape recorder to radio, TV or phono. Shipping weight ½ lb.

No. W-422
**$1.59**
PER KIT

## STEREO SPEAKER WALL JACK

★ 2 Phone Plugs Included

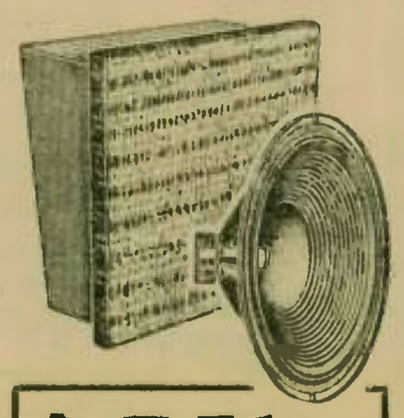


Two ¼" jacks mounted on a standard wall plate. Two ¼" phone plugs are included. The wall plate can be mounted on a standard electrical outlet box or mounted directly on the wall. All hardware and mounting brackets are included. Ivory finish. Size: 2¾" x 4½". Shp. wt. ¼ lb.

3 for $4.00 No. Pt-97 — **$1.49**

Oscar Magnusson, 14570 W. 52nd, Arvada, Colo., wins choice of merchandise worth $5 from Olson's "Treasure Hunt." See back cover for instructions.

## 8" Speaker WITH BAFFLE



**$6.51** No. CA-136
3 for $18
Lots of 12, Ea. $5.00

Response: 50 to 10,000 CPS. Voice coil 8 ohms. Rated 6 watts. Speaker mounted. Size: 10" x 10" x 3¾". Shipping weight 4 lbs.

Spkr. Cable, 53', 24 ga., No. W-361 99c

## JENSEN 12" Hi-Fi SPEAKER




Was $17.95 in 563 Cat.
ONLY
**$8.88**
No. S-551

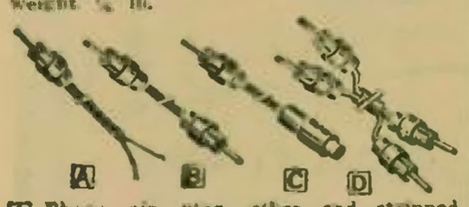
● Resp. 40-15,000 CPS ● 20 Watt

This excellent, full range speaker is made expressly for Olson by Jensen Mfg. Co. Integrated woofer and tweeter gives perfect balance of both high and low tones. Woofer cone radiates full rich bass while whizzer cone gives wide angle dispersion of high frequencies. This rugged speaker will greatly enhance the performance of any music system, stereo or mono. Performance Specifications: Power Rating: 20 watts. Impedance: 8 ohms. Crossover: 2000 CPS. Magnet Ceramic (flux density 9500). Shpg. wt. 7 lbs.

Crossover Capacitor Kit, No. AS-552 — $1.5

## AUDIO CABLES

For quick connection between phonos, amplifiers, tuners, etc. Shielded cable with grey plastic outer sheath. Shipping weight ¼ lb.




[A] Phono pin plug, other end stripped and tinned, 3-ft. cable.
No. W-325, 3 for $1.00 — 39c

[B] 2 phono pin plugs, one on each end. 5-ft. cable.
No. W-321, 3 for $1.79 — 65c

[C] Phono pin plug, other end phone pin jack, 5-ft. cable.
No. W-341, 3 for $1.79 — 65c

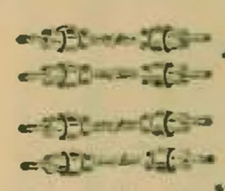
[D] Dual phono cable with pin plugs on each end. Color-coded for identification.

3-FT. CABLE
No. W-440, 3 for $3 — $1.17

6-FT. CABLE
No. W-441, 3 for $3.50 — $1.35

## 36" Audio Cables

★ KIT OF 4



No. W-450
**$1.79**

Color coded cables. RCA type plug on each end. Shipping weight ¾ lb.

## AUDIO CABLE KIT

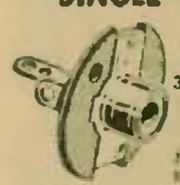


Consists of 3' audio lead with pin plug, other end tinned and stripped; 6' audio lead with pin plugs; 1 dual inline jack. Shipping weight: ¼ lb.

No. AS-481, 4 for $3.50 per kit — **99c**

## SINGLE PHONO JACKS

★ Kit of 15



No. AS-771
3 Kits for $2.50
PER KIT . . . **99c**

Standard RCA type phono jack for chassis or panel mounting. Shpg. wt. ¼ lb.

## 2 WAY CROSSOVER NETWORK

MADE IN U.S.A.



3,000 cps "LC" crossover, channels high frequencies to tweeter and low frequencies to woofer. Impedance 8 ohms. Size: 3¼" W x 1⅞" x 1¼". Shipping weight ¼ lb.

14 — 3 for $8.50; 12 @ $2.50; No. T-294 ea. — **2.97**

## Stereo/Mono Speaker Switch



No. SW-130
**$1.69**
3 for $5.00
12 @ $1.40 ea.

Control up to 3 pairs of stereo speakers or 1 to 6 monaural speakers. Remotes may be switched in or out of circuit without effecting amplifier load. Can be used with 4 or 8 ohm speakers. Gold panel 3⅜" x 2¼". With instructions. Shipping weight ¼ lb.

Olson

## 8 Ohm Monaural LEVEL CONTROL

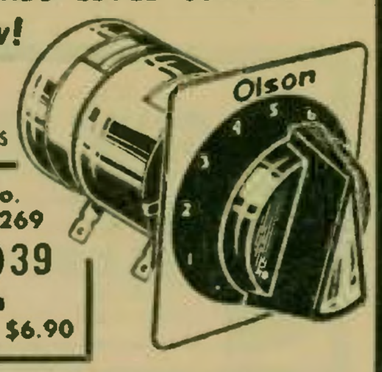


**$1.39** No. VC-204
3 for $4.00
12 @ $1.25 ea.

For use with any speaker to provide separate and independent control of speaker volume. 20 watts. Shipping weight ¾ lb.

## STEREO LEVEL CONTROL

New!
★
DUAL 8 OHM CONTROLS




No. VC-269
**$2.39**
3 for $6.90

Two speaker volume controls conveniently mounted on one panel, individual knobs. Each control is heavy duty wire wound type for lasting dependability. Can be mounted on the back of a speaker cabinet or through a panel on the wall. Complete with hook-up instructions. Shipping weight ½ lb.

## OLSON POWER CONTROL BOX



Controls power separately to any 3 appliances. 6 foot cord. Size: 4" x 2⅝" x 1⅝". 5 amps @ 125 volts AC-DC. Shpg. wt. ¾ lbs.

No. SW-141 3 for $7.00 Ea. — **$2.49**

## STEREO SPEAKER SWITCH

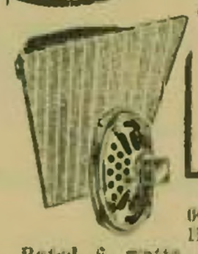


No. SW-234
**$1.99**

Dual 7 position switches permit the selection of all or 7 different combinations of any 3 pairs of speakers. Ivory knob with gold finish plates. Instructions included. Size 2¾" x 4½". Shipping weight ½ lb.

Olson

## Corner Baffle with 6" x 9" Speaker



No. S-419
**$5.96** 3 For $17.50

Response: 50 to 11,000 CPS. Size: 14¾" D x 16½" W x 5¾" D. Rated 6 watts. Voice coil 8 ohms. Speaker is mounted. Mahogany grained. Shipping weight 4 lbs.
Speaker Cable, 53', 24 ga., No. W-361 — 99c

Olson

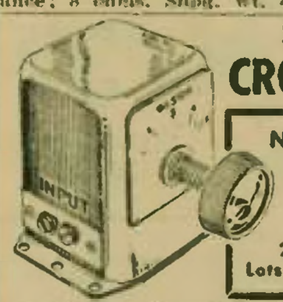
## Horn TWEETER



No. S-307
**$8.95**
2 for $17.50
Lot of 6, Ea. $8.00

Husky 20 watt driver unit coupled to horn provides uniform response from 2000 cps to above audibility. For use with any 8", 10", 12", or 15" speaker. Heavy die cast frame. Stand may be removed for internal mounting. Impedance: 8 ohms. Shpg. wt. 4 lbs.

## Speaker CROSSOVER




No. VC-222
**$5.97**
2 for $11.00
Lots of 6, Ea. $4.75

Crossover freq. 4000 CPS. Extra long shaft allows network to be mounted in wood panels up to ¾" thick. Features tweeter level control. Impedance 8 ohms. Size: 4⅜" W x 3" D x 2⅛" H. Shipping wt. ¾ lbs. Made in U. S. A.

## Ceiling-Wall SPEAKER

Olson

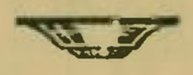
Mounts Flush Without Cutting Hole!

★ 6" Speaker Factory Mounted
★ The Perfect Extension Speaker
★ For rear Seat Speaker in Wagons
★ Ready to Mount and Connect



**$4.99** No. S-394
3 for $14.50
Lots of 12, Ea. $4.50

Thin Design



Old Design

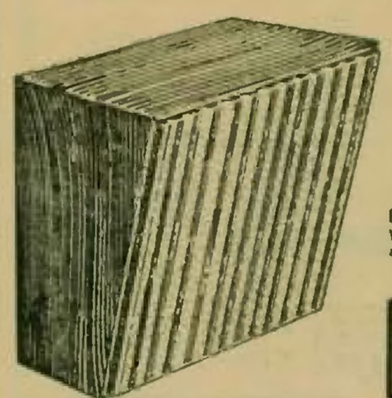


SPEAKER RESPONSE CURVE



Mounts on wall or ceiling. Perfect for built-in Hi-Fi systems adding extensions to your present system. For the Hi-Fi music enthusiasts who enjoy their music in the air. Specially designed to handle Background Music. Response: 60 to 15,000 CPS. Voice coil 8 ohms. Overall depth only 3". Finished in dull gold to blend with any surroundings.

24 Ga. Speaker Cable, 53 ft. No. W-361 — 99
Volume Control No. VC-204 — Only $1.3
Line Transformer No. T-110, 3 for $4.50 — Each $1.7



★ Scuff Resistant, Washable, Paintable, etc.
★ Pre-Drilled for Level Controls
★ For Paging, P. A., School Rooms, Offices, etc.

Olson

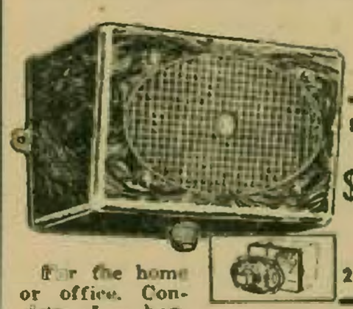
## Speaker BAFFLES

**8" BAFFLE** (Less Speaker)
★ 10½"x9¾"x6½"
Blond — No. CA-216
Walnut — No. CA-259
Mahogany — No. CA-218
Shipping wt. 5 lbs.
**$4.89** Lots of 6, Each $4.19

**12" BAFFLE** (Less Speaker)
★ 14"x13⅜"x9⅛"
Blond — No. CA-21
Walnut — No. CA-25
Mahogany — No. CA-21
Ship. wt 5 lbs.
**$5.69** Lots of 6, Each $4.99

ACCESSORIES:
8" PM Speaker No. S-86, Shipping Wt. 2 lbs — Ea. $3.4
12" RCA PM Speaker, S-442, Shpg. Wt. 5 lbs. — Ea. $5.9
Line Transformer No. T-110 — Ea. $1.7
Speaker Cable No. W-361 (53 ft.) — 99

## 6" x 9" EXTENSION SPEAKER



★ With Volume Control

No. S-408
**$4.70**
2 for $9.00

For the home or office. Consists of mahogany color molded baffle, 6x9 speaker, and speaker volume control, hardware and instructions. 8 ohm. Assembled. Size: 10¾" W x 4½" D x 8" H. Shipping weight 4 lbs.

Speaker Cable, 53' 24 ga., No. W-361 — 99c

Acoustical

## FIBERGLASS



No. CA-256
**$1.29**
12 @ $1.00 Each

Ideal for lining speaker cabinets, sound insulating motor compartments. Easy to cut, glue, or staple. 9 sq. ft. package.

ACOUSTIC FOAM—72" x 18" x ½"
Easily Cut to Any Size
No. CA-62, 3 for $6 — **$2.57**

22 Watt Illuminated

# MAGNIFIER LIGHT

★ Tube Included!
★ Turns In A Full Circle!
★ Distortionless Magnification!



MADE IN U. S. A.

**$22.99** No. EA-52 — 3 for $68.50

Large 5" diameter, four power magnification lens surrounded by a 22 watt circline fluorescent tube provides cool shadowless lighting. Can be raised or lowered; extends to 45". Mounts to desk, etc. For 110-125 volts A.C. Shpg. wt. 8 lbs.

## SAFETY GOGGLES



**$1.19** No. TL-412 — 3 for $3.30 — 12 for $12.00

Protect your eyes from serious injury with these adjustable goggles. Can be worn over regular glasses. Shipping weight ¼ lb.

## 10-PC. RATCHET SOCKET SET



Five popular sockets: ¼, ⅝, 11/32, ¾, 7/16". Two screwdriver blades plus phillips. Pistol grip handle. Shpg. wt. 3 lbs.

No. TL-413, 3 For $6.00 ..... Ea. **$2.29**

## Swingline STAPLE GUN



MADE IN U.S.A.

No. TL-398
**$3.88**
3 for $11.50
Lots of 12, Ea. $3.50

JAM PROOF

Simply place stapler against surface and squeeze. Special jam proof construction. Handle locks in place for easy carrying. Shipping weight 3 lbs.

Box of 1000 ¾" Staples — PER BOX **59c**
No. TL-399, 5 boxes $2.50

## HAND NIBBLING TOOL



★ Cut squares, circles or complex designs in metals or plastic.

No. TL-161
**$3.85**
3 for $11

Bites through 18 gauge steel or ⅛" aluminum, copper or plastic. Sharp angles and tight curves cut effortlessly. Edges remain smooth after cut. Shpg. wt. 1 lb.

EXTRA PUNCH
No. TL-162, 3 for $5.50 ..... **$1.87**

## POCKET HOIST



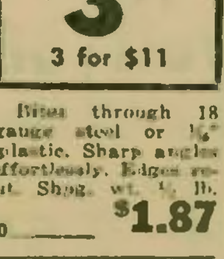
★ Lifts or Pulls up to 2000 lbs.
★ Lubricated for Life

**$6.95** No. TL-327 — 3 for $20

Miniature block and tackle with 7 to 1 ratio is small enough to fit in pocket but lifts or pulls up to 1 ton of weight. Perfect for hunters, boaters, airplane owners, motorists, etc. Comes with 100 ft. multi-strand Dupont nylon rope that tests at 1,000 lbs. per strand. Made of high grade aluminum with stainless steel axles. Weighs less than 1 lb. Rustproof. Shpg. wt. 2 lbs.

## METAL WORKSHOP

★ Punches, Shears, Forms, Rivets



Stock No. TL-170
**$9.55**

Punches holes in metals up to 16 gauge, to 1" from edge of stock. Three round punch sizes included — ⅛", 5/32" and ¼". Shears metals up to 1" width, 16 gauge thickness. Forms rod or bar stock up to 1" width. Bends and forms up to 90°. Bends or forms up to 16 gauge thick. Rivets with any type solid or hollow rivet. Shipping weight 6 lbs.

**SAVE! GET BOTH**
No. AS-328 **$24.00**
BOTH FOR ...
Shipping wt. 22 lbs.

## 18" FORMING BRAKE

★ Forms 16 Ga. Metals up to 90°



No. TL-169
**$14.95**

Forms and bends metals to make boxes, covers, trays, etc. 1" deep slots in brake bar permits corners to fold in. Handles up to 18" width stock. Provides flange edge to 1" height. Ruggedly constructed, accurate and adjustable. Shipping weight 13 lbs.

## 'ADJUST-A-LITE' KIT

ASSEMBLE IT YOURSELF AND SAVE!



**$9.95** No. EA-69

Incandescent lamp with shade. Swings full 360°. Extends to 36". Clamps to desk or horizontal surface. Less bulb. For 110-125 volts A.C. Shipping weight 5 pounds.

Same as above but completely assembled,
No. EA-53, 3 for $38.50 ..... Ea. $12.88

## Weller SOLDERING KITS



No. TL-434

WELLER
MODEL 8200PK
DUAL HEAT
100/140
WATTS
**$6.57**

Instant dual heat soldering gun with trigger switch and prefocused light. Comes with supply of solder, wire brush, and soldering aid. For 110-125 volts A.C. 50-60 CPS only. Shipping weight 4 lbs.

Tips for 8200PK, Pkg. of 2 — **35c**
No. TL-244



No. TL-183
**$10.99**
Lots of 3, ea. 9.71

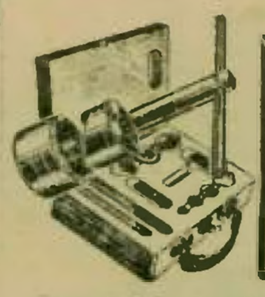
WELLER
MODEL D550PK
DUAL HEAT
240/325
WATTS

Instant heat trigger switch and dual prefocused lights. Includes solder, carrying case, and tips. For 110-125 volts A.C., 50-60 CPS only. Shipping wt. 6 lbs.

Energized Rosin Core Solder, 1-lb.
No. X-620, 3 for $3.50
Shipping Wt. 1½ lbs. ..... **$1.39**

## CHASSIS PUNCH SET

★ 11-Piece Set

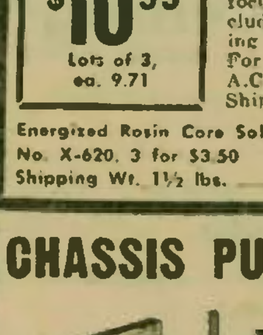


No. TL-246
**$6.95**
3 sets for $20.44

6 popular size chassis punches and deluxe reamer commonly used in most radio work. Makes mounting of jacks, switches, pilot lights and sockets easy. No extra tools necessary. Chassis size are: ½", ¾", 1", 1⅛" and 1⅜". Reamer cuts ⅛" to ⅜". Handsome wood box. Shpg. wt. 4 lbs.

## 36" Flexible Shaft

★ Fits ¼" or ½" Drill



No. TL-211
**$2.39**

Transfers power from stationary power tools for precision work. Capacity 1/32" to ⅛" size drill. Shipping weight 2 lbs.

Genuine Jacobs
**¼" DRILL CHUCK**
**$2.98** No. TL-326 — 3 for $8.00



Fits most ¼" electric drills. Polished finish. Complete with key. Shpg. wt. ¼ lb.

James E. Hawkins, Box 346, Pearisburg, Va., wins choice of merchandise worth $5 from Olson's "Treasure Hunt." See back cover for instructions.

7-PIECE
**DRIVER SET**
**$2.19** No. TL-174



Insulated, color size keyed shafts. In sizes: 1/16", ⅛", 5/32", 11/32", 3/16", 7/16", and ¼". Shipping weight ¼ lb.

## 7" Power Saw Accessories



**CARRYING CASE**
For 7" and 8½" Ram saws. Shpg. wt. 7 lbs.
No. CA-118 ..... $6.48
Shipped PP except to 1st Class Post Office

**EXTRA 7" BLADES**



Combination — No. TL-202
Shpg. wt. ½ lb. ..... $2.25



Flooring Cut Off — No. TL-203
Shpg. wt. ½ lb. ..... $2.25



Planer Blade — No. TL-204
Shpg. wt. ½ lb. ..... $5.00

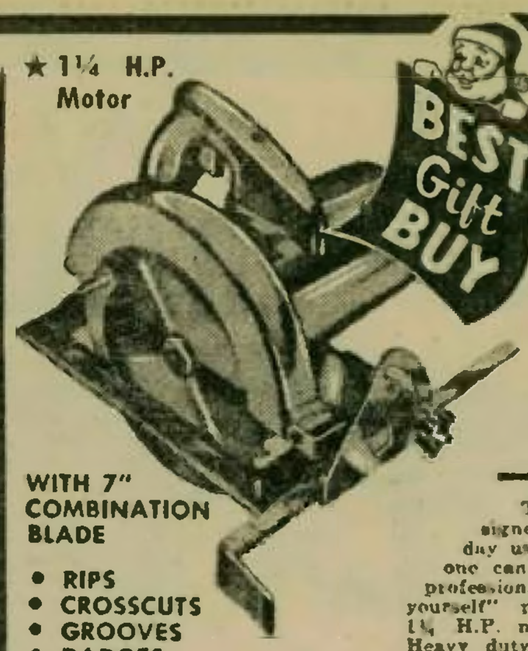
**SAVE** All 3 Blades — No. AS-406
Shpg. wt 2 lbs. ..... $7.93



**SAW TABLE**
Converts Ram 7" power saw to table saw. Includes miter gauge and rip fence. Angles between 45° and 90°. 9¾" high. 15" x 15" square. (225 sq. inches). Shpg. wt. 12 lbs.
No. TL-205, 3 for $25.00 ..... $8.75

SAVE—GET ALL 5 UNITS ABOVE
No. AS-426 (Ship. wt. 26¼ lbs.) ..... $21.00

★ 1¼ H.P. Motor



BEST Gift BUY

WITH 7" COMBINATION BLADE

- RIPS
- CROSSCUTS
- GROOVES
- DADOES
- RABBETS
- BEVELS
- ANGLES
- MITERS

RAM fury
**7" Power SAW**

No. TL-390
**$21.95**

The Fury power saw is designed for rugged every day all day use, but priced so low that anyone can own one. YOU can get that professional appearance on your "do it yourself" projects. Universal aircooled, 1¼ H.P. motor with 3 conductor cable. Heavy duty die cast aluminum housing, maximum depth of cut 2⅛" maximum depth of cut at 45 degrees 2¼". No-load speed 5000 rpm. Comes with combination blade, other blades available. Rips, crosscuts, grooves, dadoes, rabbets, bevels, angles, and miters. 110-125 volts AC/DC. Shipping weight 14 lbs.

## "JIFFY" JIG SAW

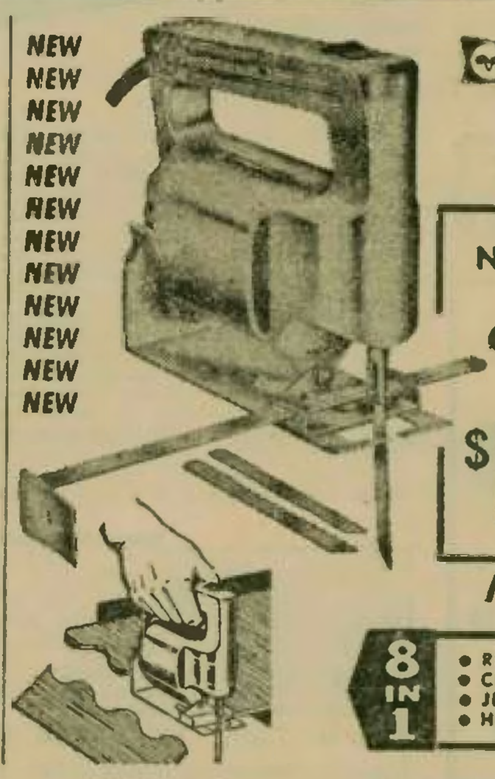
NEW! ★ FITS ANY ELECTRIC DRILL



No. TL-426
**$4.89**

This low price model has the same capacity and cutting speed as high priced jig saws. Does work of Jig, Keyhole, Coping, Rip, Crosscut, Band and Hacksaw. Cuts intricate patterns—however large—in plywood, plastics, metals—even cuts 2 x 4's! Automatic air-blower blows sawdust away from blade and cutting line. Extra large shoe-plate assures accurate and square cuts. Has self-lubricating bearings. Includes blade. For 110-125 volts AC, 60 cps. Shipping weight 5 lbs.

NEW NEW NEW NEW NEW NEW NEW NEW NEW NEW NEW NEW



RAM fury
**SABRE SAW**

★ ¼ H.P. Universal Motor
★ Mirror Finish

No. TL-433
ONLY
**$12.77**

Easily cuts 2 x 4's, plywood, plastic, composition board, aluminum, other metals and a host of materials. Operates on 115 volt, A.C. or DC. Features ½ H.P. universal motor. Operates at 3500 strokes per minute. Length of stroke is 1⅝". Has built-in cooling system, positive action slide switch, adjustable base, rip guide and mitre gauge. Bevel cuts from 0° to 45°. Comes with 3 assorted blades. Shipping weight 12 lbs.

MULTI-PURPOSE SAW

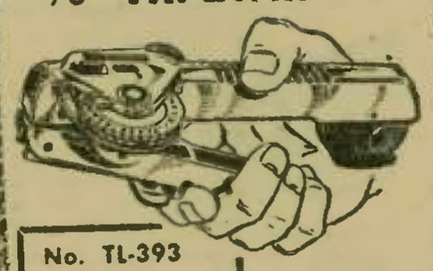
8 IN 1
- RIP SAW
- CROSSCUT SAW
- JIG SAW
- HACK SAW
- BAND SAW
- COPING SAW
- KEYHOLE SAW
- SCROLL SAW

## DYMO LABELMAKERS

INSTANT SELF-STICKING PLASTIC LABELS

EASY TO OPERATE CAN BE USED WITH ONE HAND

Model M-5
**⅜" TAPEWRITER**



No. TL-393
**$10.99**
Was $19.95 in 763 Cat.

★ Label Luggage, Sports Eqm'nt, Office Files, etc.

Make your own embossed name plates. Easy to operate, just dial letters and numerals. Crisp white letters against a colored background. Cut off label with built-in cutter, apply pressure sensitive label anywhere. Tape is supplied in a new quick change throw away cartridge. Shipping weight 3 lbs.

**EXTRA 10 FT. TAPE MAGAZINES**
5201-9 Black M/5, No. TL-395 ..... $1.25
5201-2 Red M/5, No. TL-405 ..... $1.25
5201-5 Green M/5, No. TL-406 ..... $1.25

SALE MODEL M-55
Heavy-Duty
**⅜" TAPEWRITER**



No. TL-422
**$17.97**
Reg. $29.95

★ CHROME PLATED
★ QUICK CHANGE EMBOSSING WHEEL

Rugged industrial version of ⅜" tapewriter. Chrome plated for lasting good looks. Featuring new pull-pin for easy change of embossing wheels. No tools required, just pull the pin and slip in new wheel. Has cutter lever that cuts tape and forms a pull tab to peel backing material from label tape. Shipping weight 5 lbs.

★ WITH 10 FT. ROLL OF TAPE
(For extra tape, see ⅜" size at left)

MODEL M-22
Industrial
**½" TAPEWRITER**



No. TL-400
**$33.99** $39.95 in Cat. 563

**New Heavy Duty Construction**

Features ½ inch wide tape and larger letters. Ideal for making permanent type labels for tools, gages, first aid equipment, communication equipment, etc. Shipping weight 3 lbs.

**ACCESSORIES:**
158-9 Black M-22 Tape Cartridge
No. TL-401 ..... $1.65
158-5 Green M22 Tape Cartridge
No. TL-403 ..... $1.65

## Symbol of SW Excellence Stewart-Warner RPM INDICATOR



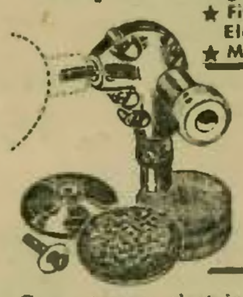
**99c** No. X-854 — $3.49 in Cat. 661 — 4 for $3.50

Easy to use- Simply place RPM Indicator on any running motor—slide needle to peak vibration point —read RPM's!

An accurate device for checking vibration or RPM's within a range of 1,500 to 15,000. Indispensable to those who operate or repair power lawnmowers, outboards, electric motors, etc. Shipping weight ¼ lb.

## 2-Speed Angle BUFFER

★ Fits Any Electric Drill
★ Made in U.S.A.

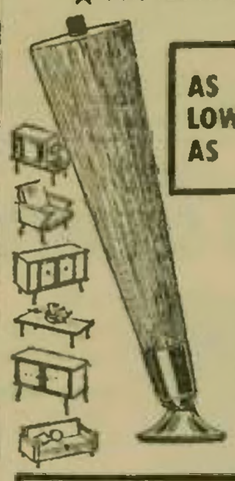


No. TL-344
**$4.95**
3 for $14.50
Lots of 12, EA. $4.50

Converts any electric drill into powerful right angle buffer and sander. 2 speed drive; buffs at ½ drill speed; sands at double drill speed. Includes 5" flexible molded rubber head. 5½" lambswool polisher and 3 sanding discs. Shipping weight 3 lbs.

## FURNITURE LEGS

★ Finish to Match Furniture
★ Self-leveling Swivel Glides

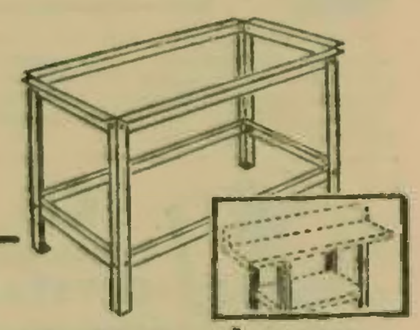


AS LOW AS **$1.79**

Tapered wood legs with brass ferrules and self-leveling swivel glides. Each kit contains 4 legs and 4 mounting plates. Legs mount straight up and down. Includes hardware. Shpg. wt. 5 lbs.

| Stock No. | Lngth. | PRICE PER SET OF 4 | Shpg. Wt. |
|---|---|---|---|
| TL-407 | 4" | $1.79 | 1½ lbs. |
| TL-408 | 6" | 2.09 | 1¾ lbs. |
| TL-409 | 12" | 2.39 | 2¼ lbs. |
| TL-410 | 14" | 2.79 | 2¾ lbs. |
| TL-411 | 17" | 3.21 | 3¼ lbs. |

## STEEL BENCH FRAME



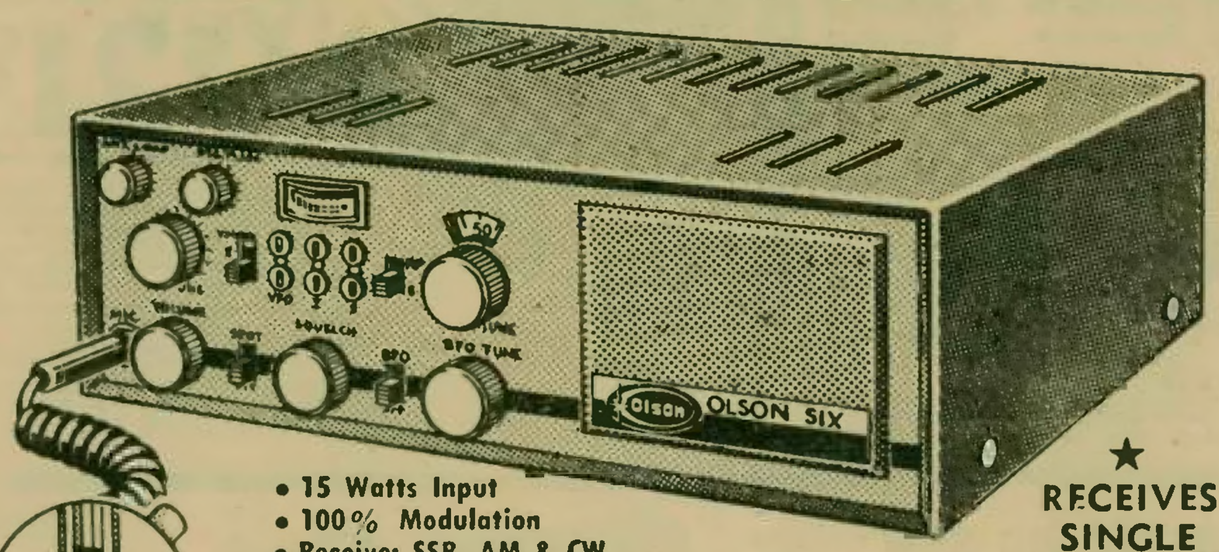
No. KB-98
**$5.50**
3 for $15

EASY TO ASSEMBLE

Sturdy all steel construction, pre-drilled ready for easy assembly. Just add top and shelf. Two or more frames may be combined. Size: 32½" x 17½" x 31" high. Grey finish. May be shipped parcel post to all cities. Shipping weight 17 lbs.

Olson

# Deluxe 6 Meter TRANSCEIVER




- 15 Watts Input
- 100% Modulation
- Receive: SSB, AM & CW
- Dual Conversion Superhet.

★ RECEIVES SINGLE SIDEBAND

MADE IN U.S.A.

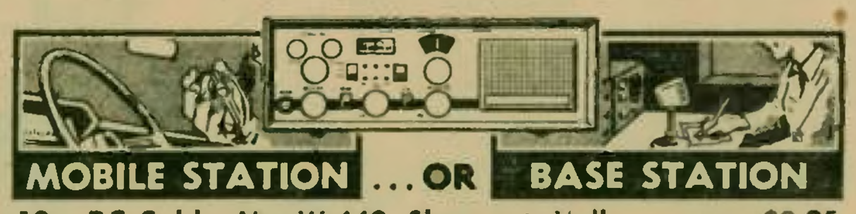
This deluxe 6-meter transceiver is designed and built in the U.S.A. by one of the leaders in communication equipment. Olson brings you the utmost in flexibility and highest quality at a real money-saving price. The superheterodyne receiver features dual-conversion with temperature compensated, crystal controlled local oscillator and ganged tuned second oscillator and mixer. Receiver tunes 49.9 to 52.2 MC with sensitivity of .5 μ for 6 db signal to noise ratio. Has tunable BFO for single-sideband reception. Image rejection is better than 24 db down. I.F. frequency is 12 MC for first I.F. and 595 KC for second I.F. Audio output 2.5 watts undistorted. Transmitter features 15 watts input with 100% modulation. RF power amplifier works straight through on 6 meters. High level modulation of both screen grid and plate. Transmitter will operate with 8 or 25 MC crystals for greater flexibility. Pi-network output tunes transmitter to match any antenna from 35 to 150 ohms. Microphone preamplifier provides increased average modulation. Spot switch provides a means for checking transmitter frequency. Three sockets are provided on front panel for crystals and/or VFO. Dual purpose meter works as a receiver S-meter and transmitter tuning meter. Dual power supply, 117 volts AC (power cord included) and 12-volt DC. Complete with a Turner 350C push-to-talk mike with coiled cord. Size: 4½" h x 12½" w x 7" d. Shipping weight 22 lbs.

No. RA-570

**$139.98**

NO MONEY DOWN

$8 MONTHLY



MOBILE STATION ... OR BASE STATION

12v. DC Cable, No. W-449. Shpg. wt. ¼ lb. $2.95

Mobile Mounting Bracket No. HW-46. Shpg. wt. ¼ lb. $2.95

# 9 TRANSISTOR Citizens Band WALKIE-TALKIE

★ Crystal Controlled

NO LICENSE REQUIRED




No. RA-446

**$29.99**

Matched Pair

**$59.50**

$7 MONTHLY

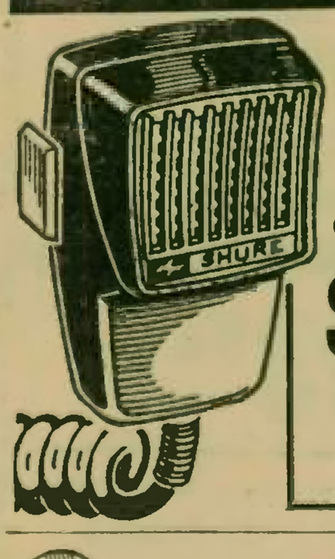
COMPLETE With BATTERIES, EARPHONE and CASE

For use on popular 27 MC citizen's ba Receiver is specially designed superhete dyne circuit for reliable two-way co munications. Operating range 1 mile up under ideal conditions. Built-in speal Push-to-talk switch and volume on- switch all conveniently located for fing tip control. Operates on 8 self-contai penlite cells available anywhere. Ja provide for earphone. Built-in telesco antenna. Styles may vary slightly. Si 7½" x 2⅞" x 1½". Shipping weight 4

BATTERIES (8 req'd) No. BA-67, 8 for

SHURE

## Communications MICROPHONE




No. M-175

OLSON PRICE

**$5.98** ★

★ Made in U.S.A.

For CB or amateur use in both mobile or base stations. "Shaped" voice response pattern gives maximum intelligibility. Response: 200-4000 cps, free from undesirable peaks. Omnidirectional polar pattern. With push-to-talk switch, shatter-proof case and kinkproof 5-ft. stretch cord. Features high output ceramic element for 100% modulation of your transmitter. Output level -55.5 db. Includes mounting bracket. Shipping weight 2 lbs.

TURNER

## Communications MIKE

Model 350C

★ Made in U.S.A.



No. M-165

**$5.98**

With push-to-talk switch. Includes mounting clip and heavy duty coiled cord. Features a high impact polystyrene case. Ceramic element. Response 80-7,000 cps. Output level—54 db. High impedance. Shipping weight 2 lbs.

TURNER

Model 254X - COMMUNICATIONS

## DESK MIKE

★ High Output Crystal Element



$14.10 No. M-167

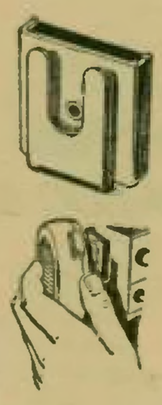
Ideal for CB or amateur use. Touch to talk and locking on-off switch lever. One piece die cast case. Chrome trim. Response 80-7,000 CPS; output level is —50 db. Includes 7 ft. of shielded 3 conductor cable. Wired for relay operation. Size: 7⅞" H.x5½" D. Shpg. wt. 3 lbs.

Christian Film Serv., 1302 E. 4th St., Charlotte 4, N. Car., wins choice of merchandise worth $5 from Olson's "Treasure Hunt." See back cover for instructions.

## Magnetic MIKE HOLDER

★ Clips on Back of Mike

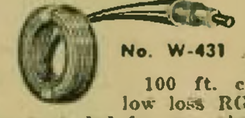
★ Attach to Metal Surface



**99c** No X-924

Powerful ceramic magnet attaches to back of any handmike with standard hanger button. You can then hang mike up on any metal surface such as car dash or transceiver case. No holes to drill in mike or car dash. Simply clip to back of mike and it's ready to use. Size: 1¾" x 1¾" x ⅞". Shpg. wt. ½ lb.

## RG8-U COAX CABLE



No. W-431 $10.99

100 ft. coil of high quality low loss RG8-U coax cable recommended for use where antenna lead exceeds 50 ft. Perfect for Citizens Band applications. Shipping weight 12 lbs.

## Coiled Comm. MIKE CORD



Communication replacement cord. 1 wire shielded. 1 pair for control circuits. Shipping weight 1 lb.

No. W-424 Ea. $1.59

## Generator NOISE FILTER



Adjustable for 3 to 30 MCS. Ideal for C. B. Mounts on top of generator. Complete with instructions. Size 2½" L. x 2¾" H. x 1¾" Dia. Shpg. weight ½ lb.

No. RA-532, 3 for $6.98 $2.49



## Antenna Cable Kit

Kit to connect antenna to C. B. transceiver. 20' RG58U cable, 2-PL-259 plugs, 2-UG-176 reducers.

No. W-387 $2.29

Plug, No. X-852, 2 for $1.00 Ea. 59c

Reducer, No. X-853, 2 for 30c Ea. 16c

20 FT. ANTENNA CABLE, completely assembled. PL-259 connector on each end. Shipping weight 2 lbs. No. W-458 $2.49



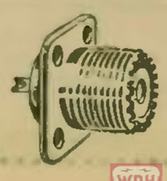
## UG-175 ADAPTOR

No. PL-95

2 for 30c Ea. 16c

Adaptor enables PL-259 connector to be used with RG-59U coax cable. Shipping weight ¼ lb.

## R.F. COAXIAL JACK



No. PL-96 Ea. 60c

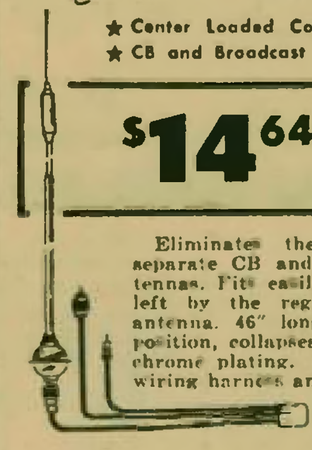
Chassis mounting receptical for PL-259 coax plug. Use for quick positive antenna connection. Shipping wt. ½ lb.

## CB MOBILE ANTENNA

MODEL M-103

★ Center Loaded Cowl Mount

★ CB and Broadcast



$14.64 No. AA-105

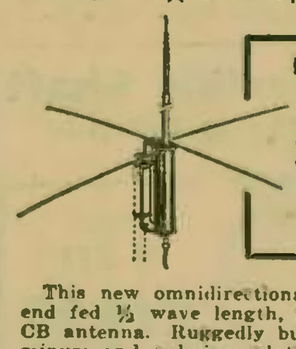
Eliminates the necessity of separate CB and broadcast antennas. Fits easily into the hole left by the regular broadcast antenna. 46" long in operating position, collapses to 31". Heavy chrome plating. Complete with wiring harness and all necessary plugs and hardware. Shipping weight 4 lbs.

## CB Base ANTENNA

Magnum 27

MODEL M-81

★ 6 DB Operating Gain



No. AA-90

**$24.87**

This new omnidirectional base antenna, end fed ½ wave length, shunted 27 M.C. CB antenna. Ruggedly built of rigid aluminum and cadmium plated steel. Hi-"Q" phasing transformer for proper resonance over entire citizens band. Shipping wt. 9 lbs. Shipped parcel post, except shipped railway express to 1st class post offices.

## LOW-COST WHIP ANTENNA

★ Top or Side Mounting

★ Swivel Joint

102" Spring Mounted W

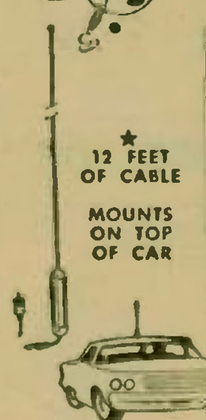


$5.99 No. AA-91

May be cowl, tru or fender mounted. terrific bargain for 27 M.C. mobile rig. durable first line tenna and mount at bargain price. Shi ping wt. 7 lbs. Shipp railway express onl

## CB Mobile ANTENNA

MODEL M-67



No. AA-101

**$13.45**

★ 12 FEET OF CABLE

MOUNTS ON TOP OF CAR

Omnidirection base loaded with stainless steel wh Mounts on top car. 12' of ca and PL-259 c nector includ Shipping weig 5 lbs.

John Struchynski, Box 55[illegible], Belfield, Dak., wins choice of merchandise worth from Olson's "Treasure Hunt." See b cover for instructions.

## CB TRANSMIT CRYSTALS




No. CB-1

**$1.99**

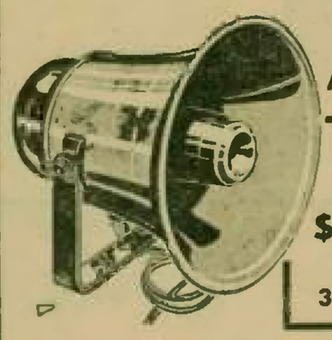
3 FOR $5.55

12 FOR $21.50

SPECIFY YOUR CHOICE OF CHANNELS 1 THRU 22

Popular 3rd overtone type crystals. Standard case with ½" mounting centers. These hermetically sealed crystals fit all Olson Transceivers as well as, General Radio, Globe CB 100, CB 100A, De Wald TR 910, Heath CB, United Scientific Labs R800-TR910-TR1000 and many others. Shipping weight ¼ lb.

## OLSON 5 WATT TRUMPET SPEAKER



★ Adjust to Any Angle

No. S-453

**$6.95**

3 for $20



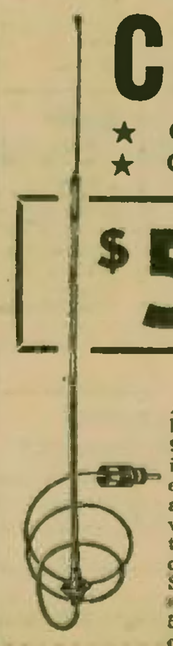
Connect to the external speaker jack of your CB for improved high level sound. Cuts through background noise. 8 ohms. Response: 400-8,000 CPS. Size: 5¼" dia. x 5" deep. Shipping weight 4 lbs.

Cable for Above Speaker, See Page 25

## CB NEW TRONICS CB Phantom ANTENNA

★ Cowl Mount

★ Center Loaded

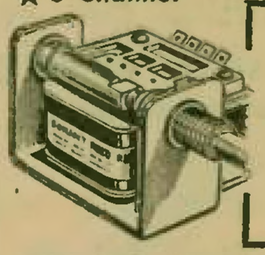


$5.97 No. AA-106

First and only Fibre Glass Antenna sheathed in copper braid. Bending of more than 90° will not crack or break it. Has all the electrical efficiency of an all metal antenna. Mounts on any convenient location on car or truck. Only 48" high. Works on all channels with low SWR. Complete with universal automotive mount and 5 ft. lead with PL-259 type connector. Shpg. wt. 3 lbs.

## WURLITZER Resonant REED RELAY

★ 6 Channel



No. RE-83

**$9.95**

The most reliable relay of its ty Ideal for CB selective calling syste remote control of models and garage do openers. The vibra-fork relay is used generate the frequency as well as dete it. Duration of contact closed-time 5% 20%. Response time approx. 75 mill. se onds. Contact rating: 100 ma. @ 48 DC, 15 ma. @ 100 V. DC or 1 ma. @ 1 V. DC. Reed frequencies: 208.8, 31 349.0 and 389.0 cps. Shipping weight 1

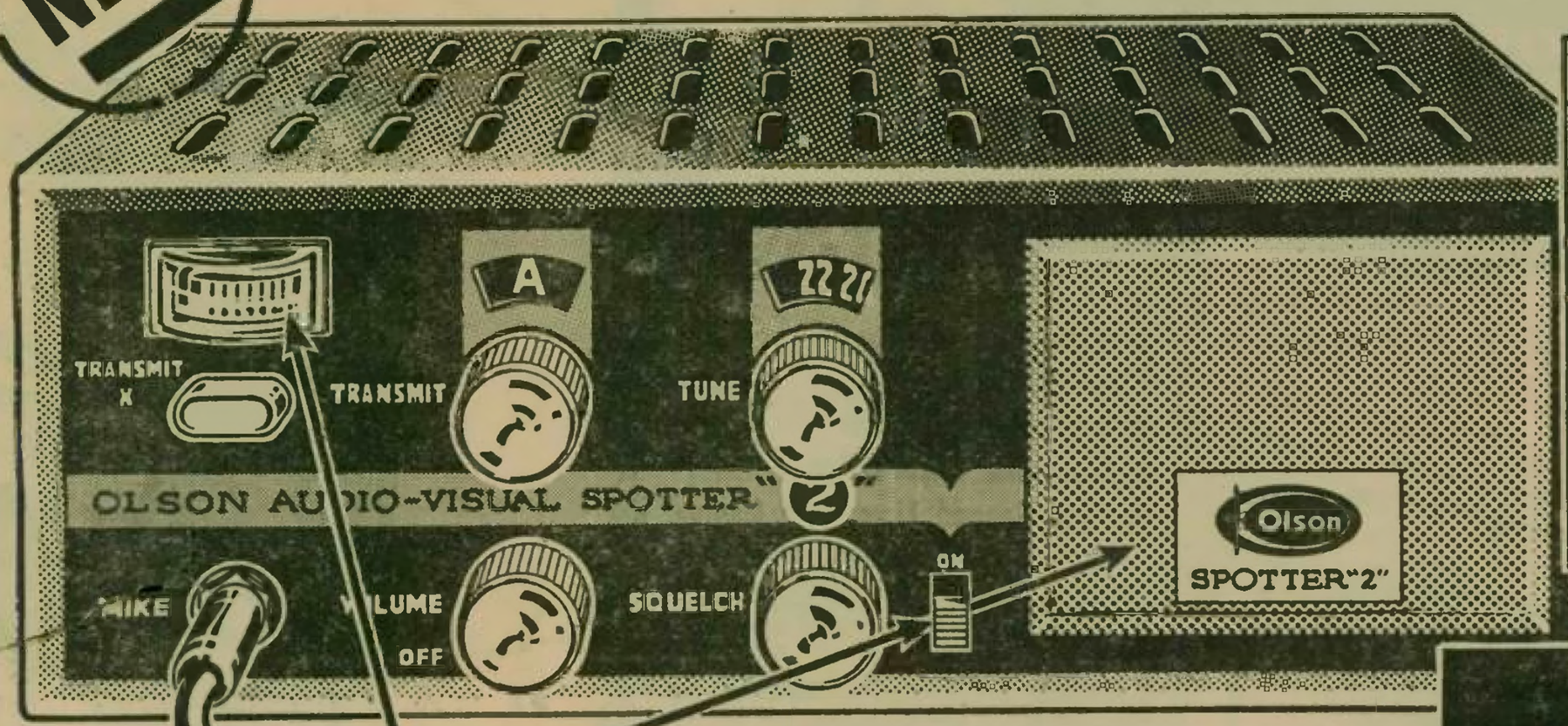


Olson Electronics AKRON, OHIO

# Give A CB TRANSCEIVER This Year!

## Introducing the Fabulous NEW Audio-Visual
# "SPOTTER 2" CB Transceiver

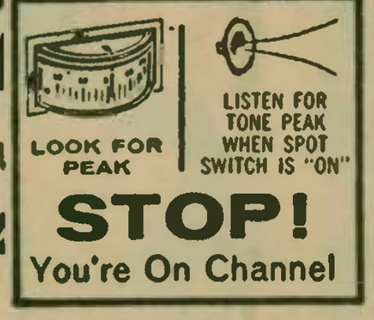
NEW




| | |
|---|---|
| NEW | INCREASED OUTPUT |
| NEW | INCREASED SENSITIVITY |
| NEW | INCREASED SELECTIVITY |
| NEW | INCREASED MODULATION |
| NEW | TVI FILTER |
| NEW | HEAVY DUTY POWER SUPPLY |
| NEW | IMPROVED VENTILATION |
| NEW | GREY & BLACK FINISH - ALUMINUM KNOBS |

MADE IN U.S.A.






Olson brings you the fabulous NEW "Spotter 2" at no increase in price! Even though the original Spotter met with fantastic success, Olson was not satisfied. Even the best has some room for improvement. Our new "Spotter 2" has been remodeled and restyled to bring you the very latest in circuit design along with styling to rival units selling for several times Olson's low price. OLSON brings you the convenience of variable tuning receiver with the stability of crystal control, utilizing our new audio visual spotter. By using the spotter switch, the receiver can be tuned to the exact frequency of the crystal controlled transmitter. The exact receive channel tuning point is indicated on the "S" meter, as well as an audible tone signal.

Ideal for mobile rigs, where the meter might not be easily viewed. The unit comes equipped with a Turner 350C mike ready to plug in for clear undistorted voice pickup. Full five watts input, with 100% modulation, 3 watts or more output. Built-in power supply provides operation on 110-125 Volts, 6 and 12 Volts DC Selectivity 5 kc. Auxiliary speaker terminal provides for internal and/or external speakers. NINE TUBES and FOUR DIODES offer performance equal to 19 tubes. Variable squelch with positive action. "S" Meter denotes received signal strength and relative modulation indication. Uses standard 3rd overtone type crystal, FL-259 type antenna connector. 110 Volt AC cable included. Unit attractively housed in low silhouette grey and black cabinet 4½" H x 12½" W x 7" D. Shipping weight 14 lbs.

No. RA-530
**$7** NO MONEY DOWN
MONTHLY
OLSON PRICE $119.95

### ACCESSORIES:

| | |
|---|---|
| 6 or 12 Volt DC Cable, No. W-430 | $2.95 |
| Mobile Mounting Bracket, No. HW-46 | $2.95 |
| TRANSMIT CRYSTAL No. CB-1, 3 for $5.55 | ea. $1.99 |

### Check These Features:

- PERFECT 22 CHANNEL TUNING
- Tuneable Receiver with XTAL Spotter
- Dual Conversion Superhet
- 12 Channel XTAL Controlled Transmit
- Built-In "S" Meter-Modulation Indicator
- 19 Tube Performance
- Dual Series Gated Noise Limiter
- .3 of 1 Microvolt for 6 DB Signal To Noise
- With Channel 9 Transmit XTAL
- Front Panel, XTAL MTG For Transmit
- Adjustable Squelch Control
- 110 V AC, 6 and 12 V DC Power Supply Built-In
- Receive Local Oscillator XTAL Controlled
- Illuminated Dial

### Complete CB MOBILE STATION

*HERE'S WHAT YOU GET:*

| | |
|---|---|
| 1—"Spotter 2" Transceiver, RA-530 | $119.95 |
| 1—Phantom Antenna, No. AA-106 | 5.97 |
| 1—Mobile Mounting Bracket, No. HW-46 | 2.95 |
| 1—6 & 12V DC Power Cable, No. W-430 | 2.95 |
| Total Regular Catalog Price | $131.82 |

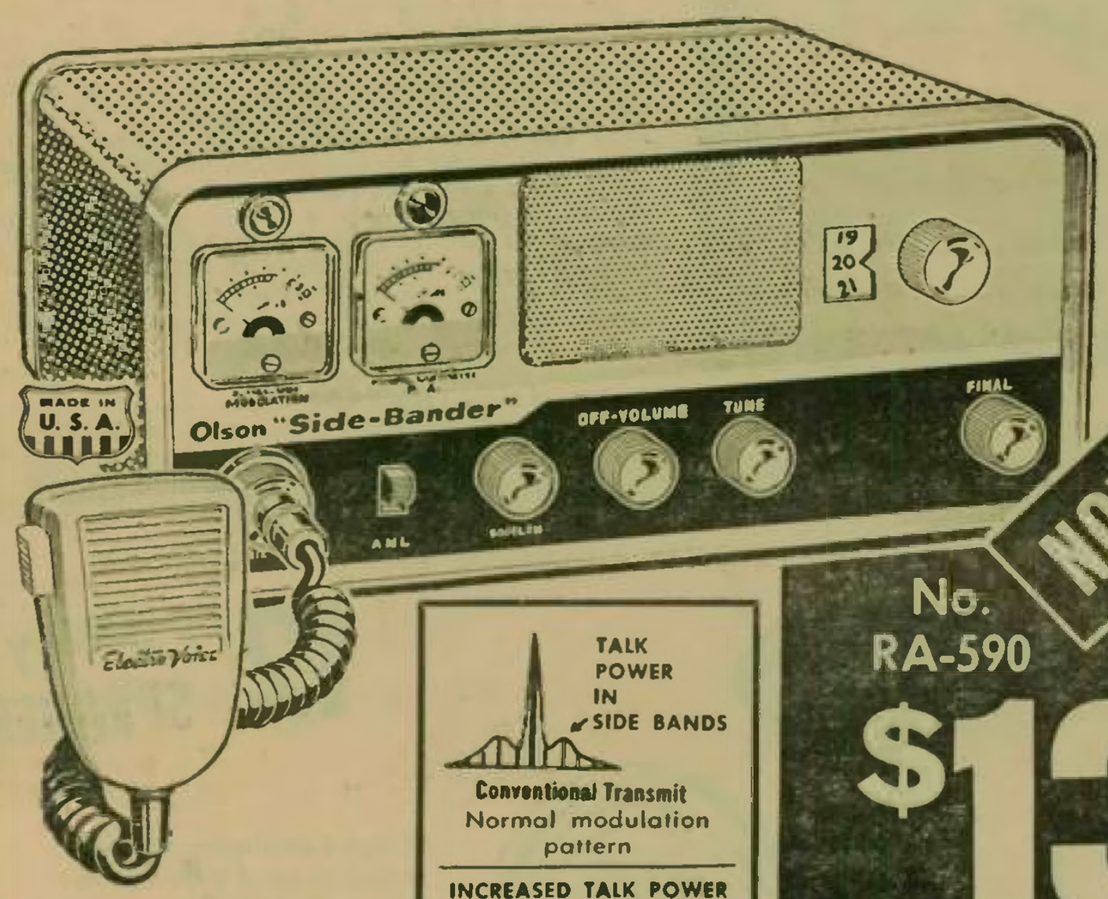
YOU PAY ONLY **$121** AS-826

### Complete CB BASE STATION

*HERE'S WHAT YOU GET:*

| | |
|---|---|
| 1—"Spotter 2" Transceiver, RA-530 | $119.95 |
| 1—A.S. M81 Base Antenna, No. AA-90 | 24.87 |
| 1—100-Ft. RG8-U Coax Cable, No. W-431 | 10.99 |
| 2—Connector Plugs, No. X-852 — 2 for | 1.00 |
| Total Regular Catalog Price | $156.81 |

YOU PAY ONLY **$144** AS-807




Olson

## "Side-Bander"
# CB TRANSCEIVER

**Double Side-Band Power Gives Up To 4 Times More Range**

NOTICE

- Built-In Crystal Filter
- 10 Watt P.E.P.
- Dual Panel Meters
- 2-Tube Push-Pull Modulation
- Dual-Conversion Superhet Receiver

Here is new power, new performance never before available in any CB Transceiver. New Double Sideband Transmitter gives up to 4 times the normal operation range of most units. Even under the most difficult broadcast conditions the Olson "Side-Bander" delivers maximum power within FCC Regulations. Receiver has ½ microvolt sensitivity for 10 DB signal-to-noise ratio, and excellent selectivity, image and IF rejection figures. Space age technology has brought about an advanced new concept in frequency control. A frequency synthesizer provides full crystal-controlled transmitter and receiver operations on all 23 CB channels—no extra crystals to buy! Delta tuning circuit brings in off-frequency stations. Transmitter section has 10 watt P.E.P. modulation capability and pi-network output to match 50-75 ohms. Two tube push-pull modulation provides 100% modulation at all times. Dual panel meters provide a constant check on transceiver operation. Meters read strength of receiving and transmitting signal plus voltage and current to final tube. Red light comes on during transmit. A few of the other outstanding features are: adjustable squelch control, automatic noise limiter and crystal filter. Size: 5½" x 11½" x 9¾". With universal power supply, push-to-talk ceramic mike with coil cord and all transmit and receive crystals for 23 channel operation. 110-125 Volts AC, 60 CPS and 12 Volts DC. Shipping weight 15 lbs.

ALL CRYSTALS INCLUDED FOR 23 CHANNELS




No. RA-590
**$13** MONTHLY
NO MONEY DOWN
OLSON PRICE $214.95

### ACCESSORIES:

**Mobile Mounting Bracket**
No. HW-46
**$2.95**

***Deluxe Mobile* Mounting Bracket**
No. HW-49
**$9.95**

**12 Volt DC POWER CABLE**
No. W-460
**$3.98**

### Complete CB Base Station

*HERE'S WHAT YOU GET:*

| | |
|---|---|
| 1—"Side-Bander" Transceiver, RA-590 | $214.95 |
| 1—A.S. M-81 Base Antenna, No. AA-90 | 24.87 |
| 1—100 Ft. RG8-U Coax Cable, W-431 | 10.99 |
| 2—Connector Plugs, No. X-852, 2 for | 1.00 |
| Total Regular Catalog Price | $251.81 |

YOU PAY ONLY **$224** AS-830

### Complete CB Mobile Station

*HERE'S WHAT YOU GET:*

| | |
|---|---|
| 1—"Side-Bander" Transceiver, RA-590 | $214.95 |
| 1—Phantom Antenna, No. AA-106 | 5.97 |
| 1—Mobile Mount Bracket, No. HW-46 | 2.95 |
| 1—12 Volt DC Power Cable, No. W-460 | 3.98 |
| Total Regular Catalog Price | $227.85 |

YOU PAY ONLY **$206** AS-829

# A Timely GIFT!

## FOR CHRISTMAS GIVING

AUTOMATIC

# CLOCKS



MADE IN U. S. A.

## Genuine TYMETER

- ★ Factory Boxed—Ready for Gift Wrapping!
- ★ 3 Handsome Models
- ★ Automatic Time Teller
- ★ "Split-Second Time At a Glance"

The Tymeter is a fully automatic, self-starting clock with 4 revolving wheels that tell time directly in numbers. Dials tell you hour, ten minute, minute and second. No chance for error. Your choice of style to match any decor. Perfect for radio amateur ham shack, office, desk, kitchen, etc. U.L. approved motor and cord. For 110-125 volts AC, 60 cps. Shipping weight 5 lbs.




Mfr. 1963 List Price... ~~$10.95~~

**$4.99** No. EA-73

PLUS 50c F.E.T.

### THE "TOPPER"



TYMETER Automatic CLOCK

**$5.99**

PLUS 60c F.E.T.

Handsome Deluxe Model! Self-starting, fully automatic. Dials tell hour, ten minute, minute and second. For 110-125 volts AC, 60 cps. Shpg. wt. 5 lbs.

Walnut ..... No. EA-72
Ebony ..... No. EA-76
Ivory ..... No. EA-77

### THE "STARLET"



TYMETER Automatic CLOCK

**$7.99**

PLUS 80c F.E.T.

Beautiful Super Deluxe Model! Automatic and self-starting. Dials tell hour, ten minute, minute and second. For 110-125 volts AC, 60 cps. Shipping weight 5 lbs.

Walnut ..... No. EA-71
Ebony ..... No. EA-74

---

NO LICENSE REQUIRED

# Transistoriz[illegible] 2-WAY WALKIE-TALK[illegible]

A FINE FAMILY GIFT




EASY TO BUILD KIT FORM

No. RA-583

**$9.7[illegible]**

2 FOR $18.4[illegible]

Anyone can build and operate this fully transist[illegible] Space Age transceiver that transmits with the same [illegible] as America's "Explorer" Satellites! All you do is [illegible] to transmit—release to listen, and you can commun[illegible] under ideal conditions, with family or friends up [illegible] mile away. For hunting, fishing, hiking, or aroun[illegible] house—it's great for the family! In the office, aroun[illegible] plant and on the job, for police, firemen, search part[illegible] there's nothing like it to keep everyone instantl[illegible] formed! 27 MC CITIZEN'S BAND SPACEPHONE [illegible] QUIRES NO LICENSE—NO EXAMINATION— NO [illegible] LIMIT! High impact, shock resistant case. Uses sta[illegible] 9-volt transistor battery available everywhere. (less [illegible] tery). Shipping weight 1½ lbs.

Battery (1 req'd.) No. BA-89 ..... [illegible]

---

Olson — Designed & Built For Olson by A Leading U.S.A. Manufacturer

## 8" 2-Way SPEAKER



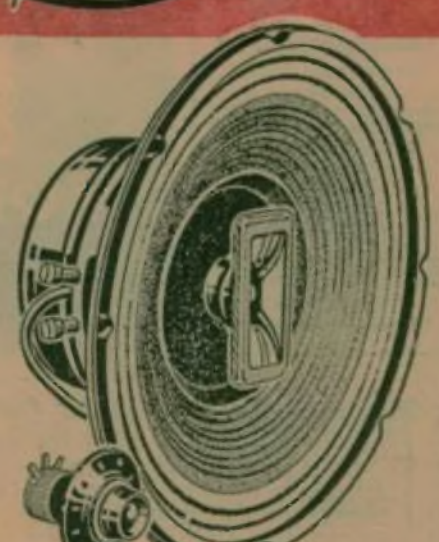
- ★ High-Compliance Woofer
- ★ High-Efficiency Tweeter
- ★ Crossover With Level Control

**$16.98** No. S-577

In the 8" Olson 2-way speaker a genuine, high-compliance woofer reproduces only the base tones . . . and it does it so faithfully that you might think it is a much larger speaker. The cloth annulus allows complete freedom of movement so that woofer cone can follow intricate low frequency wave forms without distortion. Electrical crossover then channels the remainder of the sound to the tweeter where it is properly reproduced by the highly efficient tweeter. Thus complete musical balance and harmony is achieved in this Olson 2-way speaker system. Overall frequency response is 40 to 15,000 cps. Power capacity 10 watts. Impedance: 8 ohms. Magnet: (woofer) ceramic, 6 oz. (tweeter) Alnico, .5 oz. Built-in level control permits adjustment of tweeter to suit your taste. Has binding post connections for quick, no-solder hook-up. Shipping weight 6 lbs.

Olson — Designed & Built For Olson by A Leading U.S.A. Manufacturer

## 12" 3-Way SPEAKER



- ★ High-Compliance Woofer
- ★ Horn Loaded Supertweeter
- ★ Ceramic Magnet

**$29.98** No. S-573

Olson has combined, in a single comp[illegible] speaker, the most desired features of the fin[illegible] three-way systems. 3-in-1 concentric desi[illegible] incorporates a compression horn tweeter o[illegible] a midrange defuser and a high complian[illegible] woofer. Each element faithfully reproduces [illegible] own portion of the audio spectrum. Phenomen[illegible] base response, full bodied mid-range and sil[illegible] smooth upper octaves are reproduced with [illegible] usually pleasing musical balance. Handles [illegible] watts of program material with peaks to [illegible] watts. Frequency response 35 to 18,000 c[illegible] Mechanical crossover at 3,000 cps, electric crossover 3,000 cps. Level control on tweet[illegible] adjusts to suit your taste. Impedance 8 ohm[illegible] Magnet weight (woofer) 15 oz. (tweeter) [illegible] oz. Shipping weight 16 lbs.

NORDMENDE

# 9 Transistor FM-AM-SW Dual-Purpose RADIO

IMPORTED FROM WEST GERMANY



- For Portable or In-Car Use!
- FM-AM and Short Wave Bands
- Complete with Auto Mounting Bracket and Batteries
- Built-in Telescoping Antenna
- Edge Lighted Dial

**$89.68** No. RA-609

$9 MONTHLY
NO MONEY DOWN

A superior quality radio designed for both "Custom" auto radio and portable use. Extra powerful superheterodyne chassis employs 9 transistors for superb static-free FM and long range AM reception. Short wave band keeps you up to the minute on what's happening all over the world. Super sensitive circuitry provides amazing clarity even from far distant stations. A.F.C. assures drift-free listening. Rugged 4" FM speaker delivers finest tonal quality. Built-in telescoping antenna extends to 29½". Has input for auto antenna also. Long-life operation from just 6 standard "C" cells (included). Handsome high impact gray plastic cabinet with slide rule dial and smooth-operating push-button controls. Mounting bracket fits any car. Radio easily stows in and out of bracket for portable or auto use. Shipping weight 4 lbs. Size: 10" W. x 6" H. x 2" D.

Extra Batteries; (5 req'd.) No. BA-41, Ea. 13c



A Smart Portable Radio



Easily Installed in Your Auto

# Delmonico 4½" Portable TV SET

★ ALL TRANSISTOR

★ MINIATURIZED

- Attached Battery Compartment
- Rechargeable Batteries Included
- Operates On Battery or Electric



Model 4T-20U

**$11** MONTHLY
NO MONEY DOWN
**$169.95**
No. RA-603

COMPLETE WITH CASE, RECHARGER & EARPHONE

All transistor 4½" Battery Portable TV with convenient carrying handle. New low-power consumption circuitry. Instant on picture and sound. Built-in 13 section telescopic antenna circuitry. New keyed AGC noise inverter and AFC circuitry for better picture stability. 25 transistors and 25 diodes. Operates from 115 volts AC by use of charger unit (included). Rechargeable alkaline batteries will operate set for up to 3 hours on a single charge. Batteries fit into compartment on bottom of set. No extra battery packs to carry. Battery charger contains advance design circuitry to prevent overcharging. Set has 2½" full fidelity speaker plus earphone jack for private listening. Only 7½ pounds including batteries. Size 4" w. x 5" h. x 8" d. Includes sturdy, convenient, leather carrying case. Shipping weight 9 lbs.

# Koss Stereo HEADPHONES

BEST QUALITY ON THE MARKET



'Double Slide' Comfort Adjustment

No. PH-30
$24.95
Lots of 3, Ea. $21

Includes FREE T-2 Headphone JACK

Response 30 to 15,000 CPS. Provides complete separation of both channels. May be used with any monaural or stereophonic hi-fi equipment. Impedance 4 ohms. Equipped with eight foot cord and stereo plug. 32pg. wt. 4 lbs.

Stereo Headphone
## EXTENSION CORD



No. W-447
$2.29
3 for $6

20 FEET

Listen to your favorite stereo music through Koss, Olson or other stereo headphones wherever it is convenient. Flexible three conductor cable is covered with grey vinyl jacket and is terminated with ¼" 3 circuit plug on one end and a 1 circuit jack on the other end. Shipping weight 1 lb.

# SALE!

DYMO
## LABELMAKER

Model M-4

- Self-sticking plastic labels
- Easy to operate
- Anyone can use it



No. TL-414
$6.64
Was $9.95 in 763 Cat.

WITH 6 FT. OF TAPE

Just dial the letters or numbers, they come in white or colored self-sticking vinyl, ready to apply on radios, brief cases, books, etc. So easy to operate, anyone can use it. Embossing wheel has 44 characters: A-Z, 0-9, plus ¢ & ¢, +, —. Includes 6 ft. roll of tape. Size 6½" x 4". Shipping weight 3 lb.

## Tape Cartridges .....ea. 75c

| | | | |
|---|---|---|---|
| Yellow | TL-416 | Lilac | TL-428 |
| Black | TL-417 | Lime | TL-429 |
| Red | TL-418 | Azure | TL-430 |
| Clear | TL-419 | Pink | TL-431 |
| Blue | TL-420 | Cinnamon | TL-432 |
| Gold | TL-421 | | |

# TENNA-PLUG TV ANTENNA

★ With Tenna Tuner



No. AA-109
$1.19

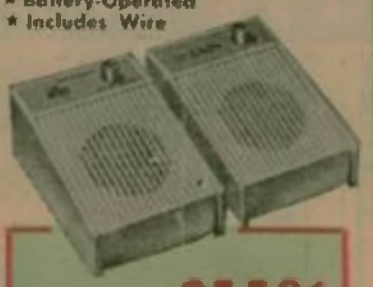
The Tenna-Plug uses the electrical wiring in your house to form a complete TV antenna. Features a fine tuner to bring in even weak stations. Ideal for TV, FM, FM-Mpx, and short-Wave. Just plug Tenna-Plug into any electrical outlet, turn on the TV and slide the Tenna-Tuner along the lead-in wire until picture and sound are clearest. Complete instructions included. Shipping weight 2 lbs.

Juneau Electronics, 253 S. Franklin, Juneau, Alaska, wins choice of needle and/or worth $5 from Olson's "Treasure Hunt". See back cover for instructions.

A GIFT FOR THE HOME

3 Transistor
# INTERCOM

- Battery-Operated
- Includes Wire



No. AM-241
$11.81

A handy, compact intercom system that can be used anywhere. Operates on one standard, self-contained battery (included). Ideal for baby-sitting, sick room monitoring, work shop to kitchen, etc. Take it with you wherever you need it. Volume control on master controls volume for both units. Intercom can call master even when master is turned off, saves battery life. Handsomely-designed case may be hung on a wall or placed on a desk or table. Complete with battery and 50 feet of 3 conductor wire. Additional wire may be used up to 100 feet. Size: 3¾" x 4-6/8" x 1-6/8". Shipping weight 3 lbs.

# 8" OXFORD SPEAKER

PLUS
100 Precision RESISTORS



ALL FOR $3

No. AS-863

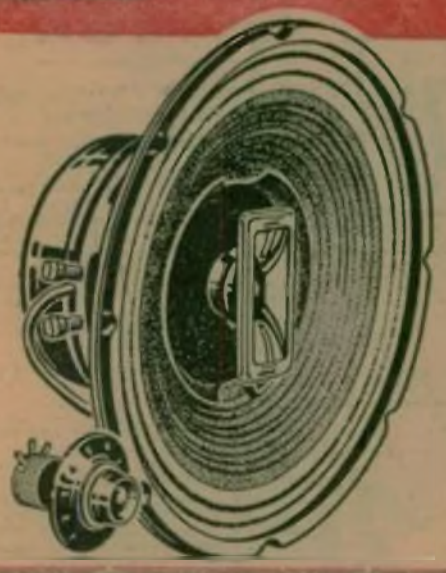
- Speaker Impedance 8 ohms
- Speaker Power Cap. 10 Watts
- Selected Assortment of Resistors
- Resistor Wattages ½ to 2 Watts

Here's a real "top-value" for the experimentor or hobbyist. You get a genuine 8" Oxford speaker suitable for replacement in radio, TV, phono, as extension speaker for your stereo. Precision resistors are ideal for all kinds of experimental circuits as multipliers, voltage dividers, etc. Resistance values marked on each resistor. Resistors range from very small ½ watt sizes to larger 2 watt size. An unusual combination at a usual Olson low price. 32pg. wt. 4 lbs.

Olson

Designed & Built For Olson by A Leading U.S.A. Manufacturer

# 12" 3-Way SPEAKER



- High-Compliance Woofer
- 1¾ lb. Ceramic Magnet
- Horn Loaded Supertweeter

**$39.98** No. S-575

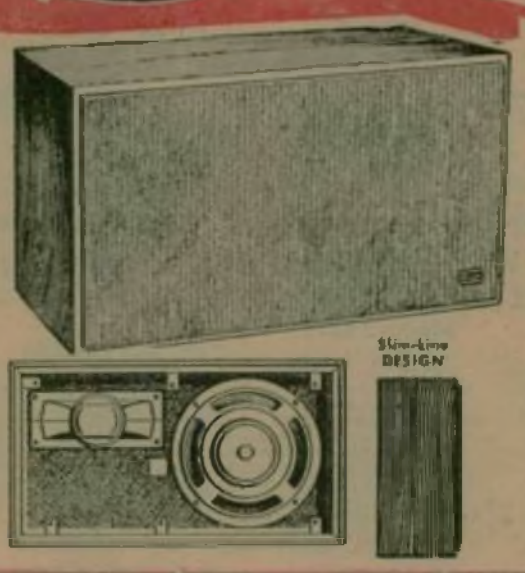
STEREO PAIR $49.98

Manufactured by a world leader in quality loud speakers. This expertly designed speaker will prove its quality the moment you turn on your music system. Every full rich bass or crisp clear high every note is flawlessly brought to life. All frequencies below 1000 cps are reproduced by the powerful 12" woofer. With its cloth suspension and large 1¾ lb. magnet this is one of the finest woofers available at any price. Sounds above 2,000 cps are reproduced by an elliptical midrange element, at 7,000 cps the "supertweeter" takes effect and the result is an unbelievable balance from one end of the audio spectrum to the other. Response 28-19,000 cps. Power capacity 30 watts with 50 watt peaks. Impedance 8 ohms. Magnet weight: (woofer) 1¾ lb. (tweeter) 0.64 oz. Level control adjusts tweeter to suit your taste. Shipping weight 13 lbs.

Olson

Designed & Built For Olson by A Leading U.S.A. Manufacturer

# 2 WAY Speaker SYSTEM



Slim-Line DESIGN

- Genuine Walnut Veneer
- 8" High Compliance WOOFER
- HORN TWEETER

**$37.88** No. S-570
2 FOR $70

In Olson's new two-way speaker system, full-range reproduction is achieved by expert blending of two high quality speakers: a high-compliance, long-travel 8" genuine woofer and a special horn loaded compression driver tweeter. This new system comes to you in a full size but masterfully slender cabinet that combines big speaker performance with elegant appearance. The wood is genuine walnut veneer in oil finish. A new custom-woven grille fabric provides a distinguished decorator touch. Size: 14" x 18" x 6¼". Response: from smooth low frequencies thru 18,000 cps. Impedance: 8 ohms. Shipping weight 22 lbs.



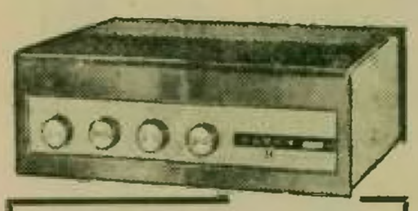
# FANON-MASCO P.A. AMPLIFIERS

**ATTENTION: Churches, Businessmen—Play Christmas Carols & Melodies Outside This Year! Order Now and Save!**





## FANON-MASCO 20 Watt Medium Power P.A. AMPLIFIER



No. AM-206 — $59.95 — $7 MONTHLY

MODEL 3320. POWER OUTPUT (Rated): 20 watts at less than 5% distortion. PEAK POWER OUTPUT (Music Wave-Form Rating): 25 watts. FREQUENCY RESPONSE: 70 to 20,000 cps, 3 db down. INPUTS: 2 microphone-2 phono (fader control). GAIN: 123 db microphone; 88 db-phono. INPUT SENSITIVITY: Microphone 3 millivolts, phono 0.32 v. HUM and NOISE: Fundamental—78 db. Microphone—57 db, Phono —72 db. OUTPUT IMPEDANCE: 4, 8, and 16 ohm, 70 volt line. INPUT IMPEDANCE: High impedance 0.5 meg. POWER CONSUMPTION: 70 watts at 110-125 volts AC, 60 cps. Employs 5 tubes plus 1 silicon rectifier. DIMENSIONS: 13½" W, 10¼" D, 5¼" H. Shipping weight 17 lbs.

## FANON-MASCO 35 Watt Medium High Power P.A. AMPLIFIER

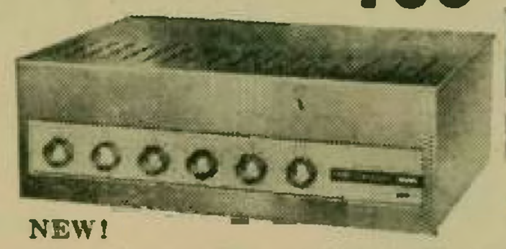


NEW!

$74.95 — No. AM-200 — $8.00 MONTHLY

MODEL FMA-35. POWER OUTPUT (Rated): 35 watts at less than 5% distortion. PEAK POWER OUTPUT (Music Wave-Form Rating): 50 watts. FREQUENCY RESPONSE: 50 to 15,000 cps, 3 db down. INPUTS: 2 microphone, 2 phono (fader control). 1 microphone input convertible for phono magnetic cartridge. GAIN: 125 db microphone, 90 db phono. INPUT SENSITIVITY: Microphone 5 millivolts (magnetic low impedance 0.5 millivolts), phono 0.5 volts. HUM and NOISE: Fundamental—80 db, microphone—65 db, phono—70db. OUTPUT IMPEDANCE: 4, 8, 16 ohms, 70 volt line. INPUT IMPEDANCE: High impedance 0.5 megohms. POWER CONSUMPTION: 115 watts at 110-125 volts AC, 60 cps. Employs 6 tubes plus 1 silicon rectifier. DIMENSIONS: 18" W, 10¼" D, 6⅝" H. Shpg. wt. 24 lbs.

## FANON-MASCO 100 Watt High Power P.A. AMPLIFIER



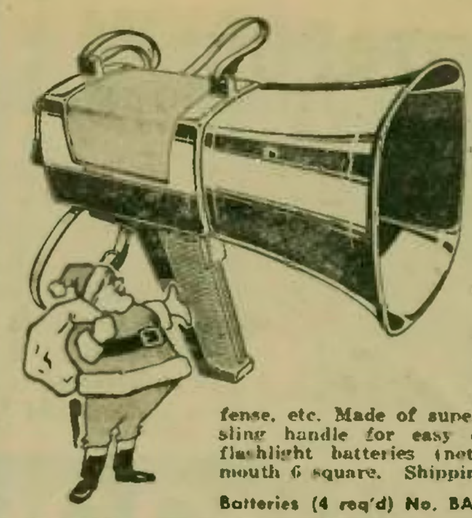
NEW!

$113.95 — No. AM-239 — $7 MONTHLY

Model FMA-100. POWER OUTPUT: 100 watts at less than 5% RMS distortion. PEAK POWER OUTPUT: 150 watts (music wave-form rating). INPUTS: 3 high impedance microphone inputs. One mike input is convertable to magnetic phone cartridge, 1 phono input and 1 radio input on fader control. INPUT SENSITIVITY: Microphone—4 millivolts, Phono-radio—0.5 volts, Phono magnetic 4 millivolts. GAIN: Microphone 130 db. Phono-Radio 90 db. HUM and NOISE: Fundamental 80 db. below rated output. INPUT IMPEDANCE: Microphone high impedance 0.5 meg. Phono-Radio 1 meg. OUTPUTS: 4, 8, 16 ohms. 25 volt line, 70 volt line. POWER CONSUMPTION: 280 watts at 110-120 volts A.C. 60 cps. Employs 9 tubes plus 1 silicon rectifier. DIMENSIONS: 18" x 6⅝" x 10¾". Shipping weight 50 lbs.

## POWER MEGAPHONE

★ Transistor Power Circuit



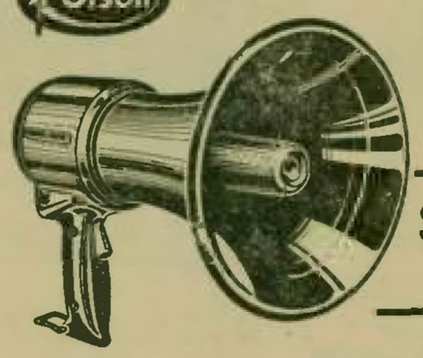
$6.85 — No. S-540

Pull the trigger and talk—no warm up required. Send your voice over long distance (Average range 100 yards). Ideal for playground, spectator sports, boating, civil defense, etc. Made of super high-impact plastic. Has attached sling handle for easy carrying. Operates on 4 standard flashlight batteries (not included). Size: 12" long, horn mouth 6 square. Shipping weight 5 lbs.

Batteries (4 req'd) No. BA-53 ..... Ea. 13c

## SELF-POWERED MEGAPHONE

Olson



★ Range Over 600 Ft.
★ Trigger Switch
★ Battery Operated

$29.88 — No. S-426 — 3 for $87

No warm-up required—use instantly—trigger switch built into handle. Press to talk, one hand operation. Operates on 4 standard flashlight cells (not included) has power selector switch for high and low output. All metal construction in grey enamel finish. Size: 13½" long. Horn mouth 8¼" diameter. Shipping weight 9 lbs.

Batteries (4 req'd) No. BA-53 ..... Ea. 13c

## Olson Paging & Talk Back SPEAKER



★ Weather Proof
★ Decorator Styled

No. S-565 — $12.98 — 2 for $25

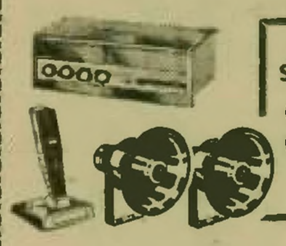
★ Play Your Christmas Carols Outside This Year

Styled to blend tastefully with today's most modern furnishings. Ideal for any location where appearance is a critical factor, such as churches, conference halls, restaurants and similar surroundings. This speaker is equipped with a driver type reproducer unit for high efficiency, directivity and intelligibility. Response: 300 to 10,000 cps. Spun is provided under the base of the speaker to house a line matching transformer if one is used. The base is designed to facilitate mounting to the standard 4" utility box or electrical lamp offset crossbar. Power rating 15 watt. Impedance, 8 ohms. Size: 6¾" diameter x 15" long. Shipping weight 5 lbs.

# "DO-IT-YOURSELF P.A." Schools, Churchs, Clubs

### Fanon Masco, Electro Voice — 20 Watt P. A. System

★ Indoor and Outdoor Use



No. AS-726 — Save $23.77 — $101 — $7 Monthly

**HERE'S WHAT YOU GET:**

| | |
|---|---|
| 1—AM-206 20 Watt Amp. (above) | $59.95 |
| 2—S-175 Electro-Voice Speakers (above) | 42.92 |
| 1—M-138 Electro-Voice Mike (Pg. 15) | 15.58 |
| 2—T-110 Line Transformers | 3.42 |
| 1—W-318 100 Ft. Speaker Cable | 2.59 |
| 1—X-317 Microphone Connector | .31 |
| ★ TOTAL REGULAR CATALOG PRICE | $124.77 |

### Fanon-Masco, Electro-Voice, Olson — 20 Watt P. A. System

SAVE $23.27



No. AS-777 — $94 — $10 MONTHLY

**HERE'S WHAT YOU GET:**

| | |
|---|---|
| 1—AM-206 20 Watt Amp. (above) | $59.95 |
| 4—S-409 8" Speaker, Baffle (Pg. 12) | 32.00 |
| 1—M-138 Electro-Voice Mike (Pg. 15) | 15.58 |
| 4—T-110 Line Transformers | 6.84 |
| 1—W-318 100 Ft. Speaker Cable | 2.59 |
| 1—X-317 Microphone Connector | .31 |
| ★ TOTAL REGULAR CATALOG PRICE | $117.27 |

### Fanon Masco, Electro-Voice — 35 Watt P. A. System

SAVE $49.15



No. AS-823 — $158 — $10 MONTHLY

**HERE'S WHAT YOU GET:**

| | |
|---|---|
| 1—AM-200 35 Watt Amp. (above) | $74.95 |
| 3—S-175 Electro-Voice Speakers (above) | 64.38 |
| 1—M-140 Electro-Voice Mike (Pg. 15) | 49.98 |
| 1—M-94 Floor Mike Stand (Pg. 15) | 7.91 |
| 3—T-110 Line Transformers | 5.13 |
| 1—W-317 250 ft. Speaker Cable | 4.49 |
| 1—X-317 Microphone Connector | .31 |
| ★ TOTAL REGULAR CATALOG PRICE | $207.15 |

### Fanon-Masco, Electro-Voice, Olson — 35 Watt P. A. System

SAVE $37.48



No. AS-824 — $139 — $8 MONTHLY

**HERE'S WHAT YOU GET:**

| | |
|---|---|
| 1—AM-200 35 Watt Amp. (above) | $74.95 |
| 4—S-409 8" Speaker, Baffle (Pg. 12) | 32.00 |
| 1—M-140 Electro-Voice Mike (Pg. 15) | 49.98 |
| 1—M-94 Floor Mike Stand (Pg. 15) | 7.91 |
| 4—T-110 Line Transformers | 6.84 |
| 1—W-317 250 Ft. Speaker Cable | 4.49 |
| 1—X-317 Microphone Connector | .31 |
| ★ TOTAL REGULAR CATALOG PRICE | $176.48 |

### Fanon-Masco, Electro-Voice, Racon — 100 Watt P.A. System

SAVE $53.08



No. AS-858 — $256 — $15 MONTHLY

**HERE'S WHAT YOU GET:**

| | |
|---|---|
| 1—AM-239 100 Watt Amp. (above) | $113.95 |
| 4—S-486 Racon Horns (right) | 65.80 |
| 4—S-487 Racon Drivers (right) | 59.80 |
| 1—M-140 Electro-Voice Mike (Pg. 15) | 49.98 |
| 4—T-110 Line Transformers | 6.84 |
| 1—M-94 Floor Mike Stand (Pg. 15) | 7.91 |
| 1—W-317 250 ft. Speaker Cable | 4.49 |
| 1—X-317 Microphone Connector | .31 |
| ★ TOTAL REGULAR CATALOG PRICE | $309.08 |

### Fanon-Masco, Electro-Voice, Olson — 100 Watt P.A. System

SAVE $48.32



No. AS-859 — $206 — $13 MONTHLY

**HERE'S WHAT YOU GET:**

| | |
|---|---|
| 1—AM-239 100 Watt amp. (above) | $113.95 |
| 8—S-409 8" Speaker, Baffle (Pg. 12) | 64.00 |
| 1—M-140 Electro-Voice Mike (Pg. 15) | 49.98 |
| 8—T-110 Line Transformers | 13.68 |
| 1—M-94 Floor Mike Stand (Pg. 15) | 7.91 |
| 1—W-317 250 Ft. Speaker Cable | 4.49 |
| 1—X-317 Microphone Connector | .31 |
| ★ TOTAL REGULAR CATALOG PRICE | $254.32 |

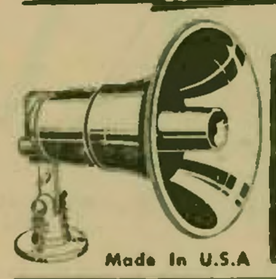
## 70 VOLT LINE TRANSFORMER FOR ABOVE AMPLIFIERS

Primary: 2½ to 10 watts. Secondary: 5.2 & 8 ohms. 2" x 1½" Mtg. Ctrs. 2¾". Use one line transformer with each speaker. Shipping weight ½ lb. Made in U.S.A.

$1.71 — No. T-110 — 3 for $4.50 — Lots of 12, Ea. $1.25

## RACON 25 Watt P.A. & Paging Speaker

★ Weather-Proof Terminal Block



Made In U.S.A

No. S-482 — $15.95 — 2 for $30 — Compare at $34.50

Complete with driver, universal mounting brackets, unibody construction, Fideliflare design and built-in terminal blocks with transparent covers. Speaker mechanism fully enclosed in all-cast housing. High power for P.A. Superb speech efficiency 25 watt continuous: 50 watt peak Response 250-13,000 CPS. Voice Coil impedance; 8 ohm. Length 9½" diameter 16". Shipping weight 7 lbs

## RACON SPEECH & MUSIC



No. S-486 — $16.45 — 2 for $32.00

● 3½ ft. Reentrant air column

True wide range reproduction of speech and music. Overall length 15", diameter 21". Supplied less driver. Shpg. wt. 12 lbs.

30 Watt Driver ● Model DA-30

For above speaker. Resp. 75-7500 CPS 16 ohms. Shipping weight 7 lbs.

No. S-487, 2 for $29.00 ..... Ea. $14.9

## HI-FI MUSIC P. A. SPEAKERS

RACON

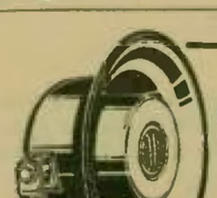


No. S-488 — $19.95 — 2 for $39

★ 95-8000 CPS ★ 15 Watts Power

Low cost, but high in efficiency and realism. Single wide range speaker with 120° dispersion. Combination of horn and housing produces excellent sound. 8 ohms impedance. Size: 8⅛" overall length, diameter 16". Shipping weight 13 lbs.

RACON

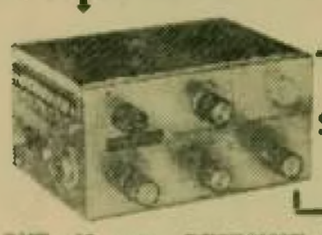


No. S-484 — $37.75 — 2 for $74

★ 60-11,000 CPS ★ 30 Watts Power
★ Fully weather-proof

In this excellent music coaxial reproducer, with 120 degrees dispersion, an 8" woofer handles lows down to 60 C.P.S. Separate cone tweeter gives clean, smooth high frequencies. 8 ohms impedance. Size: Length 12¾", diameter 21½". Shipping weight 21 lbs.

## FANON-MASCO 27 Watt Transistorized MOBILE P. A. AMPLIFIER Model 3527



No. AM-208 — $62.95 — $7 MONTHLY

Latest transistorized circuit design employs 2-2N408 and 3-2N669 transistors. Compact size (8½" W, 3⅛" H, 4¾" D) for auto dash or glove compartment mounting. Also ideal for boats, camps, etc. Handsome black and satin chrome finish. Operates on 12 volts DC. POWER OUTPUT: 27 watts. RESPONSE: 150 cycles to 10 KC. INPUTS: 1 microphone, 1 Xtal phono, 1 radio. GAIN: 120 db microphone, phono 70 db. HUM and NOISE: 70 db—below full output. OUTPUT IMPEDANCE: 4, 8, 16 ohms. INPUT IMPEDANCE: Microphone 2,000 ohms (aux.), 50 K. ohms, radio 2.2 —16 ohms. CONTROLS Microphone, radio or phono, tone control, power on-off switch, radio—aux. selector switch. With battery cable and clamps. Shipping weight 7 lbs.

MICROPHONE CONNECTOR, NO X-309 ..... EA. $2.49

## FANON-MASCO 4-Speed PHONO

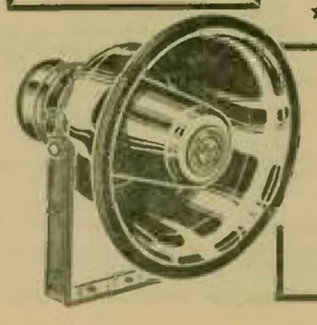


No. RP-242 — $34.50

Designed for use with mobile amp at left. Easily mounted with two thumb screws. Heavy duty motor plays all four speeds: 16, 33⅓, 45 and 78 RPM. Ceramic cartridge with dual sapphire styli. Size: 12" x 9" x 4½". For 12 volts D.C. Shipping weight 11 lbs.

## Electro-Voice Model 844 — 33 WATT PAGING SPEAKER

★ 90° Dispersion ★ Made In U.S.A.



No. S-175 — $21.46

Complete horn and driver unit for general purpose paging and talk-back. Weatherproof construction. Response 250-13,500 cps. Complete with tropicalized hermetically sealed driver unit and mounting bracket. Size: 9⅞" dia. x 8⅝" deep. 8 ohm impedance. Shipping weight 9 lbs.

# BOGEN PORTAPODIUM Portable P.A. SYSTEM

★ Mfr. 1962 Net Price $249.95
★ Built-In FM Tuner




No. RA-559
**$121**

The most versatile and useful PA system available. Ideal for lecture, training courses, demonstrations, etc. Features built-in super-sensitive FM tuner and finger tip control of volume and tone. Has vibration-free, heavy duty speaker. The microphone fits into an adjustable stand or can be lifted out of the holder for moving about. The whole system packs into one compact portable carrying case. 110-125 volts A.C. Size: 10½" x 17¾" x 16½". Shipping weight 40 lbs.

# Olson Crystal MICROPHONE




• Crafted in ENGLAND by Unhurried Hands

3-WAY MIKE


Sit On Desk

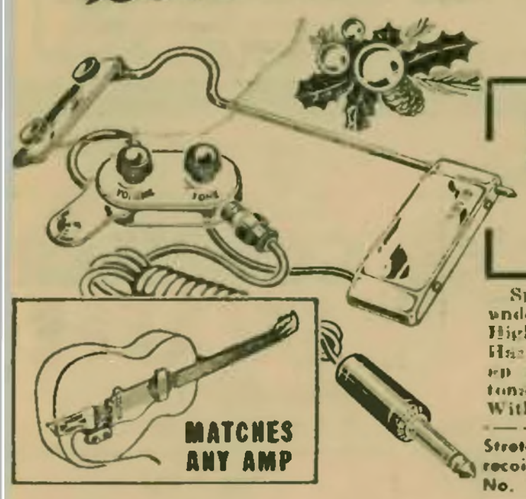

Hang On Wall


Hold In Hand

No. M-163
**$2.99** ★

This high-output microphone is as handsomely styled as it is functional. Case is made of two-tone, hi-impact plastic. Three way stand folds around the microphone body permitting it to fit neatly into the palm of your hand. Equipped with an eight foot shielded cable which is finished in neutral grey. Ideal for tape recorder, PA, CB, or Amateur applications. Output—50db. Resp 40—6,000 cps. Use two for stereo. Shpg. wt. ¾ lb.

# GUITAR MIKE




**$6.95** No. M-161

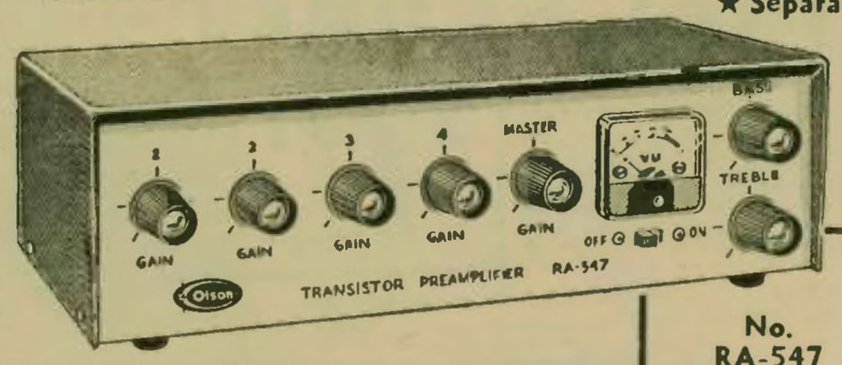
Specially designed for guitars. Mounts under strings without tools or attachments. High impedance. Matches any amplifier. Has tone and volume controls. Unit slides up and down easily to create different tonal effects. Fits round hole opening. With 8 ft. plug-in cable. Shpg. wt. 3 lbs.

Stretch microphone cable. Extends to 16 ft., recoils to 4 ft.
No. W-467 ..... $4.49

MIKE CABLE, 22 ft., No. W-362 ..... 99c
¼" Phone Plugs, No. AS-477, Kit of 2 ..... 99c

# Olson 4-Channel PREAMP MIXER

★ Separate Bass & Treble Controls
★ 7 Transistor Circuit
★ High Gain, Low Noise
★ Built-In VU Meter
★ 65 db. Gain ★




No. RA-547
**$34.98**

A highly versatile, extremely well designed mixer-preamplifier for use in public address system, tape recording and similar applications. Not to be confused with low priced mixers, Olson RA-547 is a mixer and preamplifier. Featuring 65 db. gain and extremely low noise level. The unit may be used for several combinations of high level and microphone mixing, since each channel can be individually switched for either use. The excellent signal to noise ratio of this unit makes it ideal for remote professional recording. Size: 3¾" H x 11⅞" W x 5⅛" D. Operates on six pen-light batteries (Included). All metal case. Shipping weight 5 lbs.

BATTERIES (6 required) No. BA-67 ..... 8 for 59c

## STEREO MONO Preamp Mixer

Same excellent features as above with added advantage of 2 channel stereo mixing separate outputs for each channel. This unit can also be used for mono application with just a flip of a switch. Features 9 transistors for high gain and low noise. Shipping weight 6 lbs.

No. RA-548 ..... **$39.98**
BATTERIES (6 req'd.) No. BA-67 ..... 8 for 59c

Richard M. Wilson II, B Btry. Sch. Supt. Comd. Fort Bliss, Tex., wins choice of merchandise worth $5 from Olsen's "Treasure Hunt." See back cover for instructions.

Olson New! HI-LO Dual Impedance
## DYNAMIC MICROPHONE

★ 25 FOOT CABLE INCLUDED



No. M-164
**$12.98** 3 for $37

For recording and P.A. applications requiring long mike cables. Cable can be extended to 100 ft. or more with no signal loss. An impedance matching transformer (not included) is required for matching into hi-impedance inputs when mike is wired for low impedance operation. Microphone has cardiod pick-up pattern. Standard ⅝"-27-thread. Response: 50-10,000 CPS. Output—55 db. Impedance: 50Ω ohms and 600 ohms. 5⅝" x 2½". Shpg. wt. 3 lbs.

Olson TRANSISTORIZED MIKE MIXER



No. RA-345
**$4.85**
2 FOR $9.50

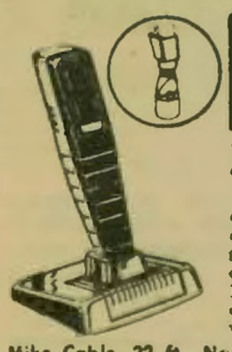
★ 4 CHANNELS

Controls one to four signals from high impedance sources. Allows user to increase the volume of any channel while fading or holding the other channels. All four inputs have standard ¼" phone jacks. Output terminates in RCA type phono jack. Operates on single 9 volt battery (less battery). Size 6" W x 2¼" H x 3½" D. Shipping weight 3 lbs.

BATTERY (1 reqd.) No. BA-89, Ea. 21c

# Electro-Voice MICROPHONES

## Electro-Voice Model 729SR
Cardioid CERAMIC MIKE



No. M-138
**$15.58**

With push-to-talk on-off switch.

Response 60-8000 cps. High impedance. Two tone gray finish. 10' cable. 8¼" high x 1½" wide x 1⅝" deep. Shipping weight 3 lbs.

Mike Cable, 22 ft., No. W-362 ..... 99c
Microphone Connector, No. X-317 ..... Ea. 31c

## Electro-Voice Model 664
Cardioid DYNAMIC MIKE



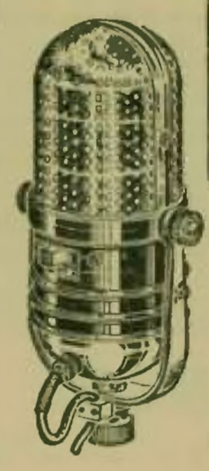
No. M-140
**$49.98**

Response from 40-15,000 cps. Can be used with high or low impedance inputs. Low wind noise pickup means better outdoor sound. Output—55 db. Chrome finish. 18" cable. 7¼" long x 1⅞" diameter. Shipping weight 5 lbs.

¼" Phone Plugs, No. AS-477, Kit of 2 99c
Mike Cable, 22 ft., No. W-362 ..... 99c
Microphone Connector, No. X-317, Ea. 31c

Olson CRYSTAL MIKE

★ With Series Parallel Switch
★ Broadcast Type



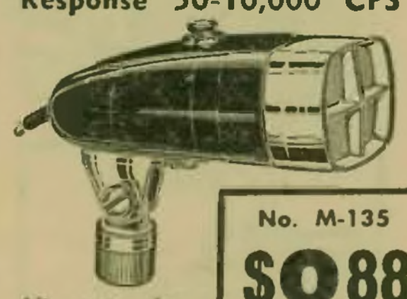
No. M-102
**$5.87**
3 for $17.50

High independance crystal mike for music, voice, recording, P.A. etc. Equalize by a flip of the switch that is built into front of mike. Response 40 to 8,000 cps. Output—60 DB Double crystal cartridges give non-directional response when vertical to shielded cable. Shipping weight 3 lbs.

MIKE CABLE, 22 ft., No. W-362 ..... 99c
¼" Phone Plugs, No. AS-477, Kit of 2 ..... 99c

Olson DYNAMIC MIKE

Response 50-10,000 CPS



No. M-135
**$8.88**
3 for $25.50

All new dynamic mike. Use with tape recorder and P.A. system. Impedance 50,000 ohms. 6 foot shielded lead. Two-tone finish; black and cream. Size: 4¾" long, 1¾" square at mouth tapering to ⅞" square. Shipping weight ¾ lbs.

¼" Phone Plugs, No AS-477, Kit of 2 ..... 99c

Olson Crystal Mike

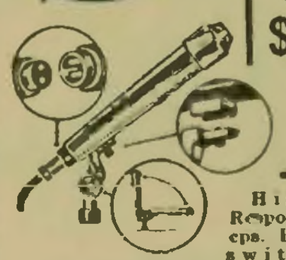


No. M-105
**$3.66**
3 for $10.50

High impedance; response 100 to 8,000 cps. Ideal for PA or communications use. Output —55 DB. Finished in an attractive baked green enamel with chrome-plated front. Overall size: 2½" dia. x 4¼" long. Standard ⅝"-27 thread for mike stand with 5 ft. shielded cable. Shpg. wt. 2 lbs.

MIKE CABLE 22 ft., No. W-362 ..... 99c
¼" Phone Plugs, No. AS-477, Kit of 2 ..... 99c

Olson DYNAMIC MIKE



No. M-109
**$10.88**
3 for $31.50

High impedance. Response 50-11,000 cps. Built-in ON-OFF switch. Broadcast quality high output. Use with any standard ⅝"-27 thread floor or desk stand. Non-directional in vertical position or has cardioid pattern when tilted toward speaker. Grey hammertone with polished chrome fittings. Over-all size: 8x1¼" diameter. With 3 ft. mike cable. Shipping wt. 3 lbs.

Microphone Connector, X-317, ..... Ea. 31c

Olson LAPEL MIKE



★ Works On Any Amplifier
★ With 5 Ft. of Cable
★ Completely Portable



No. M-93
**$1.93**
3 for $5.50

High impedance crystal. 1⅝" diameter. Output level —50 DB. Response: 50-5,000 cps 5 ft. shielded cable. Shipping weight ¼ lb.

Olson NEW! SLIM Crystal MIKE

• Includes mike stand



No. M-145
**$3.88**
3 for $11.50

With built-in On-Off switch for tape recording, P.A., etc. Satin chrome finish. All directional, high impedance. Uniform response 50 to 8500 cps. Output level —57 DB. With desk stand, lavalier cord and 6 ft. shielded cable. Shipping wt. 2 lbs.

MIKE CABLE, 22 ft., No. W-362 ..... 99c
¼" Phone Plugs, No. AS-477, Kit of 2 ..... 99c

Olson Crystal MIKE On-Off Switch



**$2.95** No. M-153
3 for $8.50

High impedance crystal microphone suitable for voice recording. P. A. and amateur communications. Response: 50 to 7500 CPS. Output: —50 DB. Push to talk switch located conveniently at top has spring. Contrasting grey grille. With 5 ft. shielded cable. Shipping weight ½ lb.

MIKE CABLE, 22 ft., No. W-362 ..... 99c
¼" Phone Plugs, No. AS-477, Kit of 2 ..... 99c

Olson Contact MIKE



No. M-130
**$1.49** ea.
3 for $4.00

High impedance crystal contact mike with flexible 55" shielded lead. Can be connected to guitars, pianos, etc. For recordings or P.A. Also use as a detective mike. Shipping weight ¼ lb.

MIKE CABLE, 22 ft. No. W-362 ..... 99c
¼" Phone Plugs, No. AS-477, Kit of 2 ..... 99c

FLOOR Mike Stand



**$7.91** No. M-94
3 for $23.00

Chrome finish. 61 inches extended. 52 inches collapsed. Cast iron base in grey wrinkle finish ⅝"x27 thread. Shpg. wt. 9 lbs.

DESK STAND



**$1.97** No. M-95
3 for $5.00

6" high, standard thread. Shpg. wt. 2 lbs.

Olson MIKE Cartridges

★ Crystal Type



Response 60 to 7,000 CPS. Output -55 db. Size: 2" dia. x½". Shpg. wt. ¼ lb.

No. M-99, 3 for $5.00 ..... Ea. **1.99**

As above but 1½" dia. x 1⅓" thick. Shipping weight ½ lb.
No. M-134 3 for $3.00 Ea. **1.19**

MICROPHONE CONNECTOR

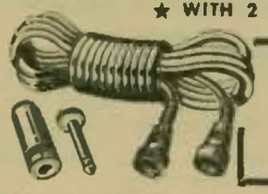


No. X-317
**31¢**
4 for $1.00

Standard ⅝-27 thread
Shipping weight ½ lb.

Olson 25' MICROPHONE Extension CABLE KIT

★ WITH 2 ADAPTOR PLUGS



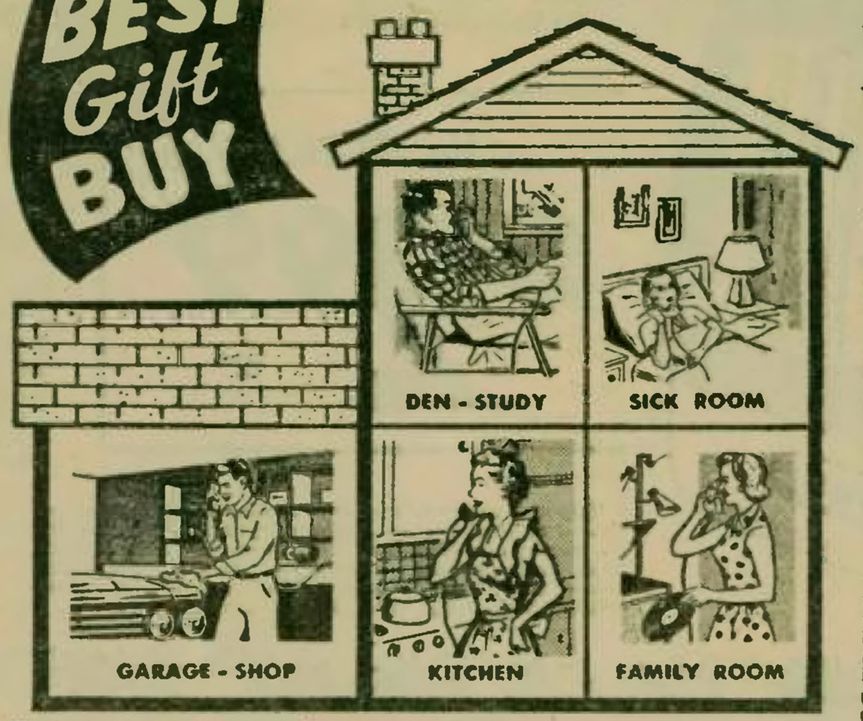
No. W-457
**$4.31**

Twenty-five feet of heavy duty shielded microphone cable with standard Amphenol type connectors on each end. Adaptor plugs convert Amphenol type plug to ¼" phone plug or ¼" phone jack. Extra flexible cable with rugged vinyl jacket is designed for heavy duty, everyday use. This universal extension cable makes any PA system more flexible. Shpg. wt. 3 lbs.

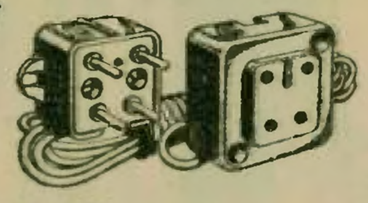
Olson Electronics
AKRON, OHIO
21

# SALE! 25 Ft. Telephone EXTENSION CORD

BEST Gift BUY




★ WILL FIT ALL PHONES LISTED ON THIS PAGE
★ MOVE YOUR INTERCOM PHONE TO ANY ROOM



**$2.85** No. W-442

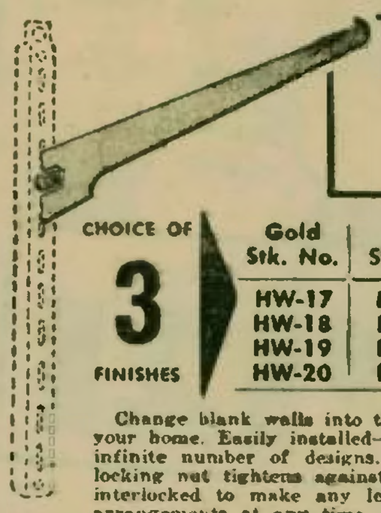
$3.98 IN CAT. 363

New extension cord for your telephone intercom. 25 feet of flexible cord and standard 4 pin plug and socket. Cord is completely assembled and ready to plug-in. Shpg. wt. 3½ lbs. Write for special large quantity prices.

PHONE PLUG, No. PL-82 Ea. $1.25
PHONE JACK, No. PL-81 Ea. $1.40

# Custom SHELF ACCESSORIES

## 6 TO 12" BRACKETS



AS LOW AS **23¢** EA.

Shpg. wt. ¼ lb. ea.

CHOICE OF 3 FINISHES

| Gold Stk. No. | Silver Stk. No. | Black Stk. No. | Shelf Widths | EACH |
|---|---|---|---|---|
| HW-17 | HW-21 | HW-25 | 6" | .23 |
| HW-18 | HW-22 | HW-26 | 8" | .26 |
| HW-19 | HW-23 | HW-27 | 10" | .33 |
| HW-20 | HW-24 | HW-28 | 12" | .36 |

Change blank walls into the most functional and attractive areas in your home. Easily installed—adjust shelf height in seconds—create an infinite number of designs. Brackets are adjustable at 1" intervals, locking nut tightens against strip. Strip standards, 12" long, can be interlocked to make any length standard. Change and enlarge wall arrangements at any time. Slim standards are barely visible. Shelves have an airy, floating look.





**12" STRIP WALL STANDARDS**

Interlock To Any Length

Gold, No. HW-29
Silver, No. HW-30
Black, No. HW-31

**18¢** EACH

Shpg. wt. ¼ lb. ea.

## Sound Powered PHONES

★ No Batteries Required



No. PH-53
**$5.95**
2 for $10.50




Provides instant 2-way communication up to 25 miles. No batteries required — only two wires to connect! Complete with coil cord attached that extends to 6 feet. As many as 12 phones can be connected. Shipping weight 3 lbs.

**Wire for connecting phones (indoor, outdoor or underground use).**

No. W-398, Per 100' coil ..... $3.00

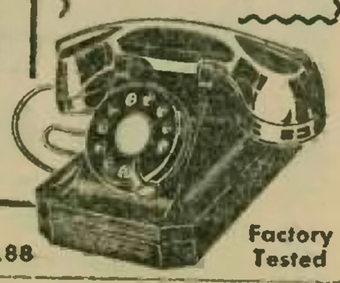
## DIAL PHONE

Western Electric ..... No. PH-61
Automatic Electric ..... No. PH-62

Can be used to make complete private systems. Includes handset, dial, bell, induction coil, etc., ready to connect. Used but factory tested. General appearance may vary slightly from catalog illustration. Available in 2 types. Shipping wt. 8 lbs.

**$7.91**
2 for $15.00

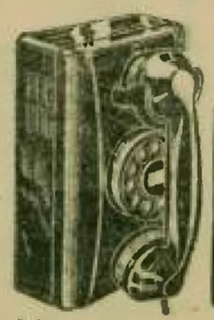
MAKE YOUR OWN PRIVATE INTERCOM



Factory Tested

CRADLE PHONE With Dial (as removed from Service) No. PH-31 ..... ONLY $5.88

## WALL TELEPHONE



★ Wall Type, with Dial & Bells

No. PH-49
**$8.95**

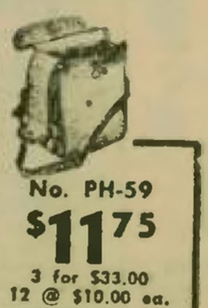
Self contained wall telephones. Includes bells, induction coil, capacitor, dial and handset. Ready to connect as extension for private systems. (General appearance may vary slightly from catalog illustration.) Used. Shipping weight 8 lbs.

Phone Wire, No. W-398, Per 100' Coil, $3.00
Phone Plug, No. PL-82 ..... Ea. $1.25

## PORTABLE TELEPHONE

Signal Corps EE-8





No. PH-59
**$11.75**
3 for $33.00
12 @ $10.00 ea.

Telephone is contained in metal housing which fits into a heavy carrying case. Consists of handset, ringer, generator, induction coil and condenser. Operates on 2 standard flashlight cells. Connect as many together as desired. Used, but in good condition. Shipping weight 14 lbs.

Batteries (2 req'd) No. BA-53 ..... Ea. 13¢

## Tung-Sol "dynaquad" TOUCH-CONTROL SWITCH

TRANSISTORIZED

MADE IN U.S.A.



No. X-914
**$10.98**

Build A Magic Lamp

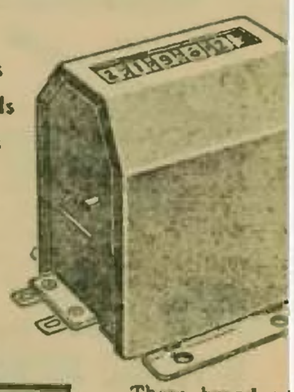
The switch is operated by touching metal touch points with the hand. Touch points are connected, by antenna wires, to switch. Absolutely no shock hazard. This PNPN germanium alloy transistor acts as an electronic switch that remains off until turned on and stays on until turned off. It has two modes of operation: single pole double-throw, or single pole single-throw. Works directly from 105-125 V. AC and can handle up to 100 watts. Self-contained in plastic case, 3" x 1½" x 1½". Useful for home lighting, appliances, burglar alarms, sorting, counting, control, advertising displays, sick room alarms, key-hole lights, etc. Shipping weight ¾ lbs.

## 5 DIGIT Electro-Magnetic COUNTER

Turnstiles
Industrials
Drive-In's

★ MADE IN U.S.A.

★ FOR 110-125 Volts A.C.



No. X-896
**ONLY $3.49**
10 for $30

These brand n counters are id for many counti operations, such assembly line cou ing or door ope ings or machi operations, et Counts 400 puls per minute. I 110-125 volts A 60 cps. Size: 2 2½" x 2". Shippi weight 1 lb.

B. J. Duncan, 1594 Eastman Rd., Kingsport, Tenn., wins choice of merchandi worth $5 from Olson's "Treasure Hunt. See back cover for instructions.

## Telephone Operators HEADSET

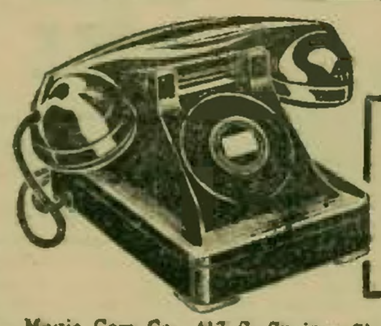
★ IDEAL FOR CB



No. PH-51
**$19.99**

Consists of boom type mike and earpiece. Reconditioned, with cord and plug. Ideal for citizens band, stage crews, telephones, etc. Frees hands. Shipping weight 2 lbs.

## CRADLE PHONE



No. PH-76
**$1.99** (LESS DIAL)

MADE IN U.S.A.

★ Extension to Private System ★ Remote Telephone Intercom

Magic Gem Co., 417 S. Spring, Sioux Falls, S. Dak., wins choice of merchandise worth $5 from Olson's "Treasure Hunt." See back cover for instructions.

Same condition as when removed from service; slightly shopworn, tested but not reconditioned. Less bells and induction coil. General appearance may vary slightly from catalog illustration. Approximate shipping weight 6 lbs.

ACCESSORIES:

PHONE PLUG No. PL-82 ..... Ea. $1.25
PHONE JACK No. PL-81 ..... Ea. $1.40

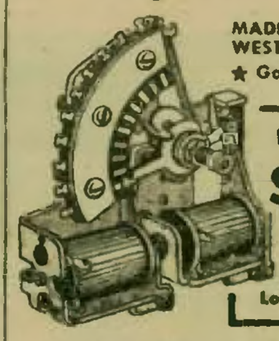
## GENERAL ELECTRIC RELAYS



No. AS-579
4 FOR **99¢**

Attention: Experimenters, servicemen, students! Hundreds of applications can be found for these first quality, brand name relays. Each kit contains 4 assorted relays, all are made by General Electric, DPDT, DPST, etc., switch contacts. New in original factory cartons. Coils are rated 6 or 12 volts DC. Size: 1½" x 2" x 2". Shipping weight 3 lbs. Write for special large quantity prices.

## 10 Step & Reset RELAY

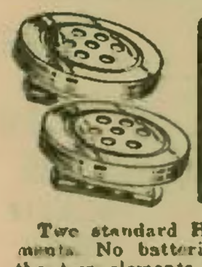


MADE IN U.S.A. WESTERN ELECTRIC
★ Gold Plated Contact

No. SW-209
**$6.95**
3 for $19.50
Lots of 6, Ea. $6.00

Single pole, 10 position switch contact Operates on 6 or 12 volts. D.C. voltag impulses move selector bar one step at time up to 10. Separate reset coil release selector bar to starting position. Size: 3½ x 4" x 1½". Excellent for experimenter technicians, students, etc. Used but teste and in good condition. Shpg. wt. 2 lbs.

## Kit of 2 Sound Powered PHONE ELEMENTS

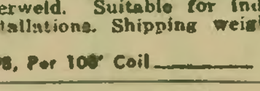


No. AS-569
**99¢**
2 Kits for $1.75

Two standard HA-1 dynamic phone elements. No batteries needed. Just connect the two elements in series. Each element can be used as a receiver or transmitter or both. Four elements make two complete phones. Will operate over hundreds of feet of two conductor cable. Shpg. wt. ½ lb.

Phone Wire, No. W-398, Per 100' coil ..... $3.00

## TELEPHONE WIRE



2 conductor twisted No. 20 gauge stranded copperweld. Suitable for indoor, outdoor installations. Shipping weight 3½ lb.

No. W-398, Per 100' Coil ..... $3.00

## COILED HANDSET CORD



No. W-395
**99c**
4 for $3.50

22

8 conductors. Works with W. E., A. E., North, St. Carl., Kellor, and Leich. Expands from 1 to 6 feet. Shipping weight ½ lb.




### A PHONE PLUG

Shpg. wt. ⅛ lb.

No. PL-82 ..... Each $1.25

### B PHONE JACK

Shpg. wt. ¼ lb.

No. PL-81 ..... Each $1.40

100 ft. 3-cond. wire, No. W-10S ..... $1.50

### C Telephone WALL JACK

For 2, 3, or 4 wire systems. Fits standard wall conduit boxes. Takes PL-82 plug. Shipping weight ½ lb.

No. AS-558 ..... Each $2.61

### D PHONE LEVER SWITCH

Single pole, double throw switch. Size: 1⅝"x1¼"x4". Shipping weight ½ lb.

No. SW-189, 3 for $1.50
Lots of 12, Ea. 44c Ea. 66c




### E SIGNALING BUZZER

Makes any phone (above) into a private intercom. Use with switch (right). For 6-8 volts A.C. Size: ⅞"x2"x1½". Shipping weight ¼ lb.

No. EA-64, 3 for $8.50 Ea. $2.93

### F Push-To-Signal SWITCH

Size: 1⅛"x1¾"x1½"

For use in making phone intercom system. Consists of S.P.S.T. momentary action switch with neutral color case, and space for identification number or name. Shipping weight ¼ lb.

No. SW-199 ..... Ea. $1.19

### G Transformer for use with buzzer

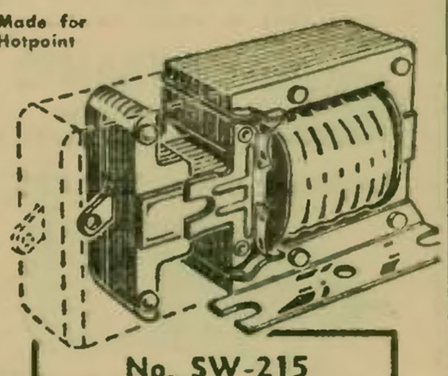
110V. primary, 6.3V. secondary U.L. App.

No. T-329 3 for $5.50 Ea. $1.99

## 115-VOLT A.C. SOLENOID

★ Provides 5 to 10 lbs. pull or lift

Made for Hotpoint



No. SW-215
**$1.49** 3 for $4
Lots of 12, Ea. $1.25

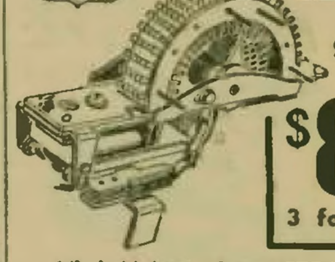
Will intermittently lift of pull weights. Just the thing for operating animated displays, hobby devices, and makes an excellent actuator for a remote power switch. Size only 2½" x 1¾" x 2½". One inch armature travel is more than sufficient for any use. Shipping weight 2¼ lbs.

## 5 Level 22 STEP RELAY

Made by WESTERN ELECTRIC

MADE IN U.S.A.

★ GOLD PLATED CONTACTS
★ 6-12 Volt D.C. Relay



No. SW-221
**$8.45**
3 for $24.00

All bridging wipers SPDT interrupt switch. Used but tested, and in go condition. Size: 7½" x 5" x 2". Shippi weight 4 lbs.

## DPDT RELAY

★ 6 Volts D.C.



No. SW-194
KIT OF 3 **$1**

DPDT contacts. Threaded flanges for ea mounting. Ideal f electric trains and mo ing displays. Size: 1¾ x 1¾" x 1". Shippi weight ¼ lb.

PRI

# Precision Radiation Instruments
# GEIGER COUNTER
## and Radiation Detector!

NEW

Original FACTORY CARTONS


SCHOOLS


C. D. UNITS


LABORATORIES


HOSPITALS

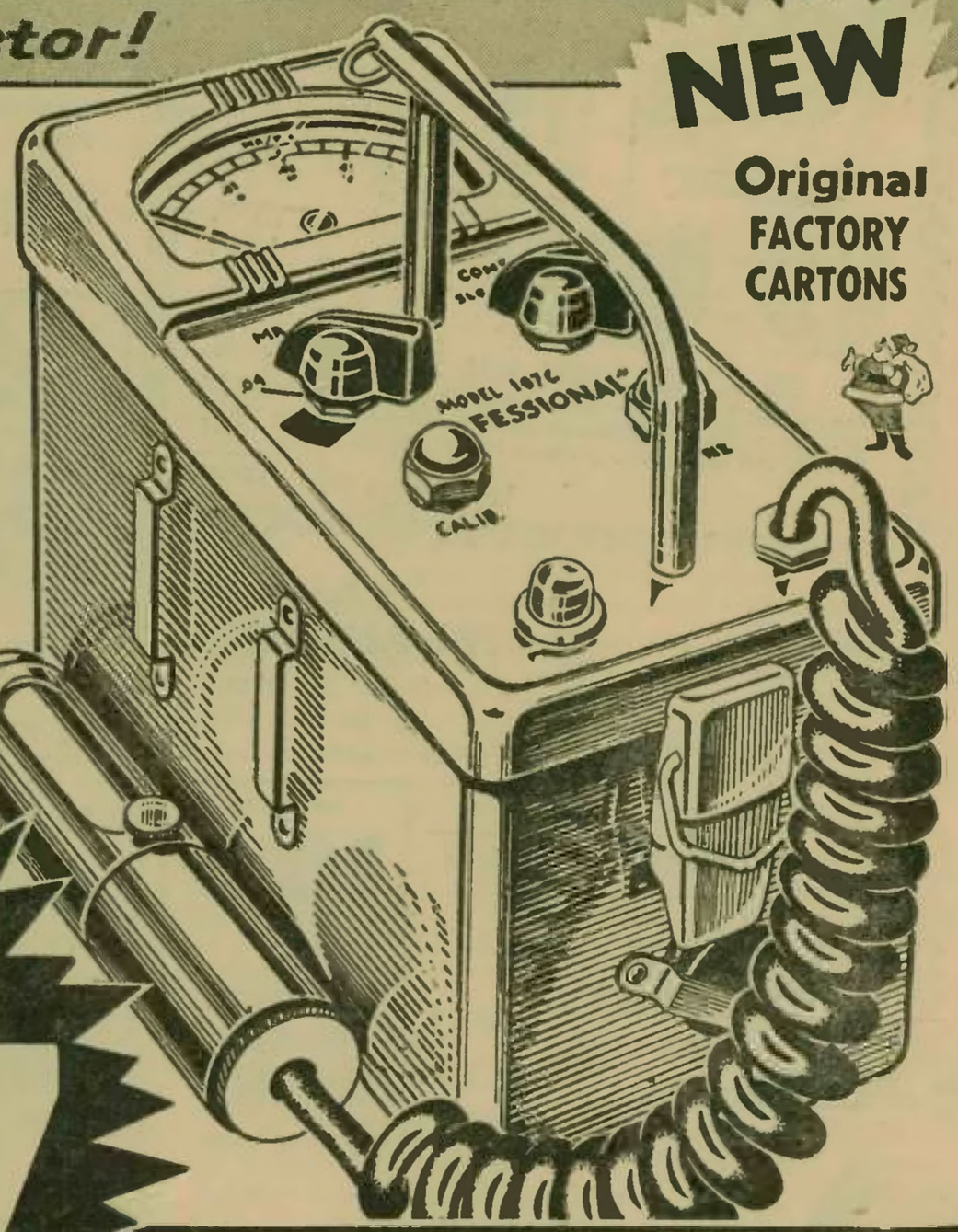

INDUSTRY


HOBBYISTS


"ROCK HOUNDS"

## HOW IT WORKS . . .

This highly sensitive device will detect the presence of radio active material from a few feet to dozens of feet away. It is equipped with a Geiger Mueller tube, which is filled with a gas and mounted in a directional probe. This "Professional" geiger counter has three means of indicating radio activity: a neon flasher, earphone and a meter.




## The Model 107C "Professional"

The model 107C "Professional" instrument is for the person who wants the best Geiger Counter made . . . many Civil Defense organizations use the 107C for the low level area surveys required in Civil Defense work . . . Hospitals, Industry and Laboratories use to detect the presence of radio activity in the air, in liquids, solids and minerals. Exclusive Percent Meter enables the prospector to determine the percentage of uranium in the ore right in the field. The instrument has four ranges of sensitivity: .4, .2, 2.0 and 20 milliroentgens per hour full scale. Two time constants are provided. The extra fast time constant makes it easier to assay ore in the field. Features a Dynatron circuit which utilizes the latest type of low current subminiature tubes. Tube complement: one 1B85, four 6007, two NE-2 and one NE-51. The sensitive Geiger Mueller tube is enclosed in a sturdy metal probe housing with sliding door and three foot shielded cable. The cable is coiled to stretch or retract as you move the probe. Probe clips to side of case when not in use. A calibrated control is provided on the top panel and a calibrated radio active sample is supplied, making it possible to calibrate the instrument in the field with no additional equipment. The entire instrument is completely heavy chrome plated, waterproof and tropicalized. A handsome saddle grain leather carrying case with shoulder strap plus assay container, headphone, ore sample bag and instructions is included. (less batteries) Size 3⅝" x 4⅝" x 7⅞". Shipping weight 11 lbs.

MFGR'S 1955 LIST PRICE ~~$149.50~~

**$27**

**No. ME-120**




COMPLETE SET OF BATTERIES for model 107C Geiger Counter. Contains: 2—1½ volt, Neda No. 813, —45 volt, Neda No. 206, —45 volt Burgess 4½ XX 3

No. AS-831 **$4.15**

Vincel Kennedy, 24 Arkansas St., Veronia, Oreg., has choice of merchandise worth $5 from Olson's "Treasure Hunt." See back cover for instructions.

PRI

# Precision Radiation Instruments
# SCINTILLATOR

## 60 TIMES The Sensitivity Of A Geiger Counter!

★ Completely Self Contained
★ Steadier Meter Reading

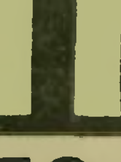
## The Model 117B "Special"

The Model 117B was designed especially for the prospector who wants the advantage of a scintillation counter at a moderate price. It has sixty times the sensitivity of a Geiger counter. It is an ideal instrumet for field prospecting because of its ruggedness, compactness and light weight. The detecting element used in the 117B is a 1" diameter x ½" thick Thallium activated Sodium Iodide crystal hermetically sealed and optically coupled to an RCA 6199 photomultiplier tube. The tube and crystal assembly is enclosed within the instrument case and is magnetically shielded. Operating ranges of the Model 117B are .025, .05, .25, .5, 2.5 and 5 milliroentgens per hour. It has an accuracy of 95 per cent on all ranges except the 5 MR/HR range. The counting rate of the 117B is in excess of 65,000 counts per minute in a one milliroentgen field. The Model 117B uses the newest type of circuit and is very stable in operation. The instrument has only two controls: the range switch and the time constant switch. It is just as simple to operate as a geiger counter and can be used by untrained persons. The entire instrument is waterproofed and tropicalized. The photo tube and crystal are shock mounted. This instrument is complete with saddle grain leather carrying case with shoulder strap plus a calibrated ore sample. Shipping weight 11 lbs.

MFGR'S 1955 LIST PRICE ~~$299.50~~

**$75**

**No. ME-121**



Complete Set of Batteries for Model 117B Scintillator. Contains: 2 - 45 volt Burgess No. XX-30, 1 - 22½ volt, Neda No. 215, 4 - 1½ volt, Neda No. 813.

No. AS-846 **$6.38**

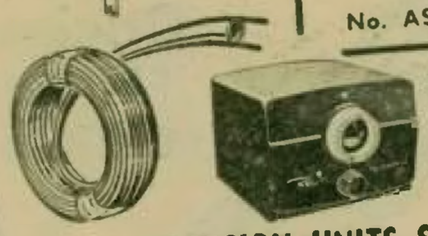
# UHF Conversion SYSTEM



★ Regency UHF Converter
★ UHF Corner Reflector Antenna
★ 100 ft. Oval UHF Wire

COMPLETE
$19.99
No. AS-825

All channel UHF converter connects to any TV set to give you all channel reception. High gain Corner Reflector antenna pulls in UHF stations up to 50 miles away. Conversion package features ultra low-loss oval lead-in for best possible performance. Converter operates on 110 to 125 v. A.C. Easy to connect, mounts on existing mast. Shipping weight 14 lbs.

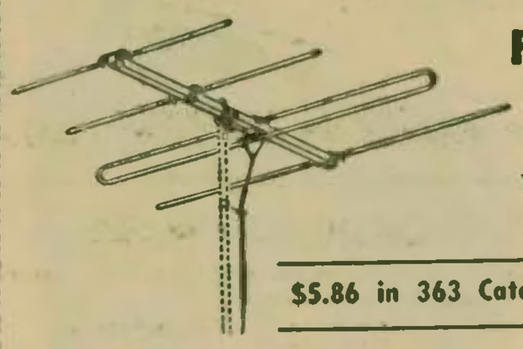


**CONVERSION UNITS SOLD SEPARATELY:**

| | |
|---|---|
| Regency UHF Converter (below) No. RA-344 | $17.97 |
| UHF Corner Reflector Antenna (above), No. AA-98 | 4.56 |
| 100 Ft. UHF Oval Wire (below), No. W-461 | 2.41 |
| Total Catalog Price | $24.94 |

4 Element Fringe

# FM ANTENNA



*RANGE: TO 60 MILES*

★ Ideal for Multiplex
★ All Aluminum construction

$5.86 in 363 Catalog

No. AA-84
$3.99

- Preassambled snap-out elements
- For long-distance FM reception
- Sensitive Yagi design. Shipping Weight 4 lbs.

# TV-FM ATTIC ANTENNA



*RANGE TO 50 MILES*

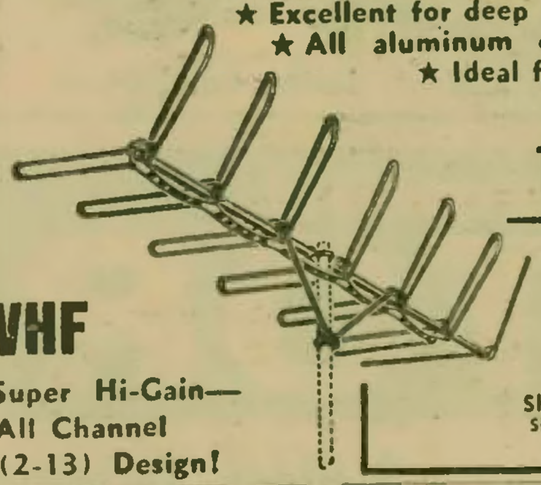
★ High Gain ★ All Channel (VHF)
★ Factory Pre-assembled

No. AA-36
$4.88

All-channel (VHF) yagi-type antenna. If desired, antenna may be installed outside. Kit includes: antenna, antenna mast, 50-ft. lead-in wire and hardware. Shipping weight 5 lbs.

# 7 Element Fringe TV-FM Antenna

★ Preassembled snap-out elements
★ Excellent for deep fringe areas
★ All aluminum construction
★ Ideal for color TV



Range: To
**150 MILES**

**VHF**
Super Hi-Gain—
All Channel
(2-13) Design!

No. AA-88
$17.50
Lots of 3, Each $17
Shipping Weight 10 lbs
Shipped Railway Express For More Careful Handling

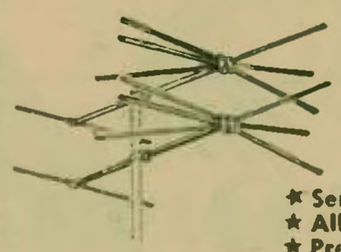


$41.15 No. AS-800

7 Element Antenna
No. AA-88 (Above)
Alliance T-20 Rotor
No. AU-12 (above-right)

# 16 Element CONICAL TV-FM ANTENNA

RANGE: TO 75 MILES



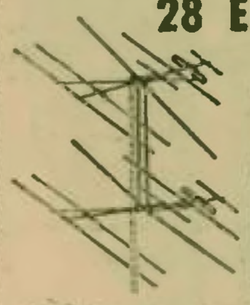
$5.20 No. AA-86
Lots of 3, Each $4.95

★ Semi-fringe all channel (2-13) VHF antenna
★ All aluminum construction
★ Preassembled snap-out elements

Shipping Weight 6 lbs.

# 28 Element ARRAY TV-FM ANTENNA

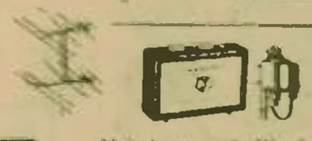
RANGE: TO 75 MILES



No. AA-28
$11.83
Lots of 3, $11.50

★ All channel UHF-VHF Color
★ All aluminum construction
★ Preassembled snap-out elements
★ Hi-gain Conical Yagi Design
★ Stacked array

Shipping Weight 10 lbs
Shipped Railway Express For More Careful Handling



$35.78 No. AS-802

28 Element Antenna
No. AA-28 (above)
Alliance T-20 Rotor
No. AU-12 (above, right)

Nehrings, 110 W. 5th Ave., Olympia, Wash., wins choice of merchandise worth $5 from Olson's "Treasure Hunt." See back cover for instructions.



Olson

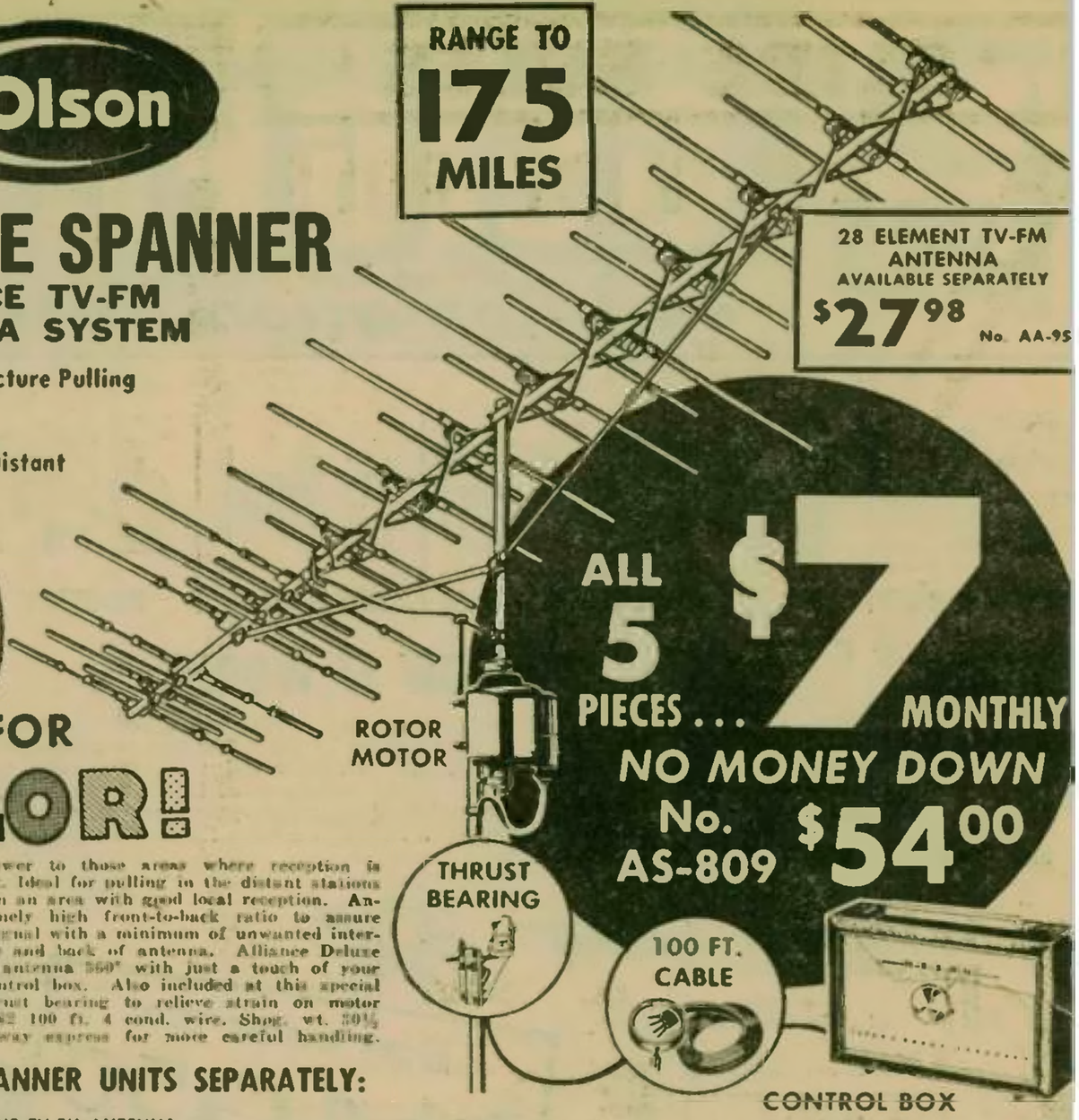
# RANGE SPANNER

## 5-PIECE TV-FM ANTENNA SYSTEM

★Maximum Picture Pulling Power

★Beam-In on Distant Stations

RANGE TO 175 MILES



28 ELEMENT TV-FM ANTENNA AVAILABLE SEPARATELY
$27.98 No. AA-95

ALL 5 PIECES . . . $7 MONTHLY
NO MONEY DOWN
No. AS-809 $54.00

THRUST BEARING

100 FT. CABLE

CONTROL BOX



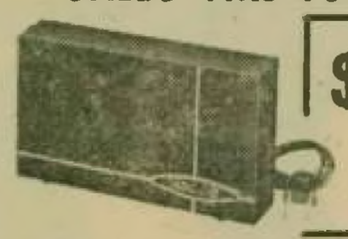
**IDEAL FOR COLOR!**

Here's the answer to those areas where reception is really hard to get. Ideal for pulling in the distant stations even if you live in an area with good local reception. Antenna has extremely high front-to-back ratio to assure clean high gain signal with a minimum of unwanted interference from side and back of antenna. Alliance Deluxe T-20 rotor turns antenna 360° with just a touch of your finger on the control box. Also included at this special price: AU-13 thrust bearing to relieve strain on motor bearings and W-62 100 ft. 4 cond. wire. Shpg. wt. 30½ lbs. Shipped railway express for more careful handling.

**RANGE SPANNER UNITS SEPARATELY:**

| | | |
|---|---|---|
| 28 ELEMENT IN-LINE TV-FM ANTENNA | No. AA-95 | $27 |
| ALLIANCE T-20 TENNA-ROTOR COMPLETE WITH MOTOR & CONTROL BOX | No. AU-12 | $25 |
| ROTOR THRUST BEARING | No. AU-13 | $2 |
| 100 FT. 4 CONDUCTOR CABLE | No. W-62 | $2 |

# GALLO FMS-101 Indoor Antenna System



$14.95
No. AA-107

Mfgr's. March 1963
Net Price $29.95

The Gallo FMS-101 will give you a high-quality, high-gain signal over the entire FM broadcast band. Just sit back and enjoy better music at its best, even from stations you could never listen to before!

The antenna system is compact, handsomely styled, fits into any room decor . . . attaches to your radio or tuner with just a screwdriver. It has an omni-directional antenna, coupled to an all-transistorized pre-amplifier, all completely enclosed in its sturdy case. Nothing to go wrong, nothing to need replacement ever. Shipping weight 3 lbs.

# GALLO TWIN TV ANTENNA



No. AA-108 $9.95

★ Non-Directional
★ TV and FM

A completely engineered system, the remarkable GALLO TWIN ANTENNA was developed to deliver highest quality, intense signals in congested metropolitan areas . . . matchless reception, even in so-called "fringe" areas as well. It's ideal for color reception . . . perfect for black and white. The TWIN is actually two separate antennas directly coupled to a common feed line. Shipping weight 2 lbs.



MADE IN U.S.A.

PREAMP

POWER SUPPLY

BOTH UNITS FOR
$21.97
No. AA-96

Olson Transistorized
**TV-FM Booster**

USE WITH ANY OF THE ANTENNAS AT LEFT

★ Properly Installed Will Last a Lifetime
★ Couples 2 Sets to Antenna without signal loss

Preamplifier mounts directly on antenna boom for greatest efficiency. For brightest, clearest picture possible. Separate AC operated power supply mounts near set, and includes built in phasing switch. Same 300 ohm lead that brings signal in carries operating current to preamp. No extra wiring, no batteries on roof to worry about. Shpg. wt. 2 lbs.

# INDOOR TV-FM ANTENNA

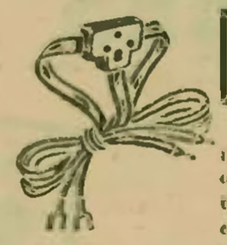


No. AA-25 $1.91
3 for $5

★ With 12-position switch

Covers VHF and UHF as well as FM Stereo. Has 12 position phasing switch built into base. Complete with 300 ohm lead-in for any set. Shpg. wt. 2 lbs.

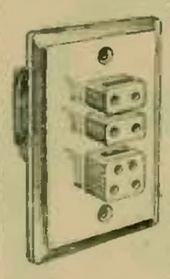
# FM Dipole ANTENNA



No. AA-71 89c

Flexible folded dipole antenna for FM or TV. Can be attached to back of cabinet, 300 ohm. Shpg. weight ¼ lb.

# WALL PLATE/COUPLER



★ 2 TV Sets & Rotor
★ TV & FM plus Rotor

No. AA-99 $2.19
3 for $6.00

Antenna wall jack combined with a highly efficient two-set coupler. You can connect two TV sets or a TV set and an FM radio to one antenna. Shipping weight ½ lb.

# TV-FM Wall Plate

★ Eliminates Unsightly Wires

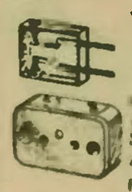


99c No. AA-51
7 for $6
12 @ 65c ea.

Allows you to put an outlet for 300 ohm flat TV lead-in wherever you wish. Comes with polarized plug, mounting hardware and complete instructions. Shipping weight ¼ lb.

# TV-FM Plug & Socket

★Kit of 3 Pairs



For TV or FM lead-in. No soldering. Plug size: ¾" x 1½". Socket: 1¾" x 1" x 1½". Shpg. wt. ¼ lb.

4 Kits for $3.50
No. PL-59 99c

# TV-FM Plug & Socket

★Kit of 3 pairs



For TV, FM lead-in or speaker wire. No soldering. Plug: 1⅝" x ¾", socket: 1" x ⅞". Shpg. wt. ¼ lb.

4 Kits for $3.50
No. PL-60 99c

Regency
# UHF CONVERTER

★ Easy To Connect

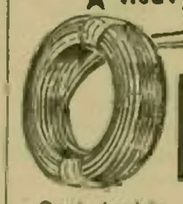


No. RA-344
$17.97 3 for $50

Just put converter between antenna and TV set. Automatically disconnects antenna from converter and sends VHF signal through when not in use. Uses 6AF4-A oscillator tube and low-noise mixer diode. Handsome cabinet in dark mahogany. Size: 5⅝" x 2⅝" x 4". For 110-125 volts A.C. Shipping weight 5 lbs.

# Oval UHF Lead-in Wire

★ Heavy Gauge Insulation



★ 100 Ft.
★ Low Los

$2.41 No. W-461

Oval lead-in wire is designed for extremely low loss, particularly at the higher frequencies. This makes it ideal for UHF or unusually long lead-in lines. The fine wire, made by one of the nation's largest wire manufacturers, features heavy gauge insulation for long efficient service. Shipping weight 5 lbs.

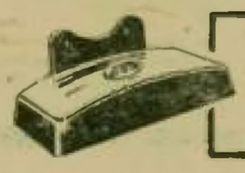
B-T LABS
*Deluxe*
# UHF-VHF Two-Set COUPLE



$3 No. AA-100

Enables operation of two TV sets or FM radios from single antenna without loss of signal strength. For standard 300 ohm line. With hardware and instructions. Size 2" x 2½" x 1¾". Shipping weight ¼ lb.

# TV-FM ANTENNA SPLITTER

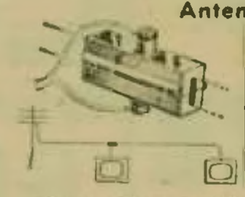


No. AA-30
$1.69
3 for $4.50

Balun coil type—operates 3 TV's from one antenna. Uses Balun Coils for maximum efficiency in the distribution and transfer of TV signals from a single antenna to 3 sets. Can also be used with a combination of TV and FM sets. Use with AA-51 and AA-69. 4" x 2¼" x 1½". Shipping weight ½ lb.

# TV-FM MASTER ANTENNA SYSTE

Connect Any Number of Sets to One Antenna



$1.15 No. AA-69
3 for $3.09
Lots of 12, Ea. $1.00

Operate two or more TV sets or multiple systems. Operates 20 or more sets from one antenna without amplification. Provides clear reception on all channels with no interference between sets. Shipping weight ¼ lb.

# TV-FM LEAD-IN

TWIN LINE



Made of pure polyethylene, conductors are all stranded copper. Available in two grades:

**22 Gauge Copper, 40 Mil Insulation**

3 for $3
100' COIL
No. W-73 $1.19

250' SPOOL
No. W-312 $2.3
3 for $6

Shpg. wt. 3 lbs. Shpg. wt. 6 lbs.

**20 Gauge Copper, 100 Mil Insulation**

100' COIL
No. W-311 $1.98
3 for $5

250' SPOOL
No. W-313 $3.3
3 for $9

Shpg. wt. 3 lbs. Shpg. wt. 6 lbs.

Nehrings, 110 W. 5th Ave., Olympia, Wash., wins choice of merchandise worth $5 from Olson's "Treasure Hunt." See back cover for instructions.

# ★ SLIDE RULES ★

## 10" SLIDE RULE




With Vinyl Case

No. TL- 425
$4.44

• Engraved Scales

A full sized, highly accurate slide rule with engraved scales at a bargain price. Features quality construction throughout, from warp-free bamboo base to white plastic cover. Each number and calibration mark is permanently etched into the surface of the ruler. Has A, B, C', C, D and K scales on the front and S, L and T scales on the back. Complete with instructions. Shipping weight ¾ lb.

## 5" SLIDE RULE



NEW NEW NEW NEW NEW

No. TL-424
$2.29

★ Vinyl Case
★ Engraved Scales

All plastic slide rule with engraved scales. Each number and marker is etched right into the surface so it will not rub off and become hard to read. Has A, B, C1, C, D, K, S, L and T scales. Also has a 5-inch ruler on one edge and 0-13 centimeter scale on the other edge. Over all size 5⅞" x 1½", just right to fit your pocket. Shipping weight ¼ lb.

Salyers Radio Serv., E. E. Salyers, 61½ Depot Rd., Paintsville, Ky., wins choice of merchandise worth $5 from Olson's "Treasure Hunt." See back cover for instructions.

## 10" LOG-LOG DUPLITRIG SLIDE RULE

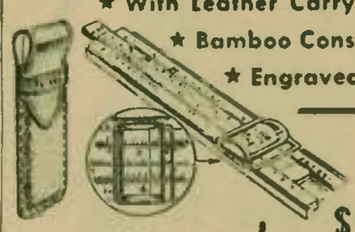


★ Warp-Free Construction
★ Complete with Leather Case

$10.45 No. TL-373

Laminated, nonhygroscopic bamboo. Scales are engraved on white plastic. Scales are L, LL1, DF, CF, CIF, C, D, LL1, LL2, LL0, LL00, A, B, K, C1, C, D, S, ST and T. A valuable tool for high school and college students, technicians and engineers. With illustrated instruction manual, including sample problems. Shpg wt. ¾ lb.

## 4" SLIDE RULE



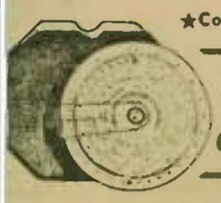
★ With Leather Carrying Case
★ Bamboo Construction
★ Engraved Scales

No. TL-366
$3.19
3 for $9.00

2X CURSOR gives readings equivalent accuracy of an 8" slide rule.

Has A, B, C1, C, D, S, L and T scales. Also 0 to 4" measuring scale divided into 32nds of an inch plus 0 to 10 millimeter scale. Size overall: 4⅝". Shpg. wt. ¼ lb.

## CIRCULAR SLIDE RULE

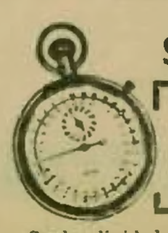


★Comparable to 10" Rule

No. TL-397 ONLY $2

Has as many subdivisions as a 10" rule. Conversion tables for volume, weight, length, velocity, and energy. Only 3⅛" in diameter. Complete with carrying case. Shipping weight ¼ lb.

## Jeweled Swiss Stop (n' Go) Watch



$8.99 No. X-531

Scale divided in 1/10 seconds up to 30 seconds on outer dial. Inner dial registers up to 15 minutes. Side and crown push buttons for starting and stopping action, plus continuing action, from point where stopped: 1¾" dial. Shipping weight ½ lb.

## Sumit ADDING MACHINE

Adds, Subtracts, Multiplies, to 999,999.99




No. X-861
$18.95

SUMIT ideal as an auxiliary adding machine. "Scoop Control" the new system of control fingering that permits fast, accurate calculating. Dimensions—7" x 5" x 6". Durable metal housing. Shipping weight 5 lbs.

## 11-PIECE DRAFTING SET



★ Quality Instrument
Made in W. Germany

$2.49 No. X-472
3 for $7.25
Lots of 12, Ea. $2.20

8 compasses—1 divider, 1 pencil, 1 pen, all 3½". Combination divider, pen and pencil compass 4½". Side screw adjustment. Accessories. All brass nickelplated in felt lined snap case. Shpg. wt. ½ lb.

DELUXE DRAFTING SET
No X-553 ★ Center Screw Adjustment
Shipping weight ¾ lb.
3 @ $4.70 ea., 12 @ $4.30 ea. EA $4.98

## ZIP-CORD



★ 18 Gauge
★ U. L. Approved

100 FOOT
No. W-318 Shipping Wt. 4 lbs. $2.59

250 FOOT
No. W-317 Shipping Wt. 7 lbs. $4.49

No. 18 stranded pure copper wire, brown vinyl insulated. For 117 v.

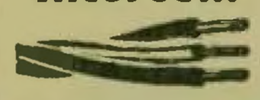
## AC LINE CORDS.....99c



Kit of 4
No. W-446

Kit of four 6 ft. AC line cords with standard plug. Ideal for replacing these old worn out electric cords. Shpg. wt. ¼ lb.

## Intercom CABLE



All copper insulated and color coded.

| Stock No. | Conductors | 100 ft. | 300 ft. |
|---|---|---|---|
| W-103 | 2 | .89 | $2.50 |
| W-105 | 3 | $1.50 | $3.50 |
| W-354 | 11 | $7.00 | $20.00 |

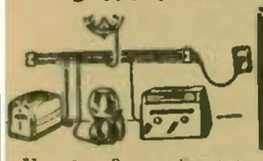
## TV INTERLOCK CORDS



No. W-61
3 FOR
99c

Kit of 3 standard TV interlock cords 6' long. Shpg. wt. ¼ lb.

## 8-IN-1 TAP-A-LINE



No. W-278
$1.47

Up to 8 appliances can be handled. Ivory color 12" long. Six foot cable. ½ lb.

## Stranded Hook-Up Wire 100' Coils



18 Gauge
1½ lbs.
No. W-452 79c

16 Gauge
1½ lbs.
No. W-453 89c

## Holding FORCEPS

(Bent Tip)




$2.49 No. TL-358
3 for $7

★ Provides a third hand

Outreaches, outholds needle nose pliers. Approximately 6" long, stainless steel finish. Snap-locks to hold parts while soldering. Used. Shpg. wt. ¼ lb.

Straight Tip Forcep
No. TL-364
3 for $7.00 $2.49

# 500 FT. HOOK-UP WIRE

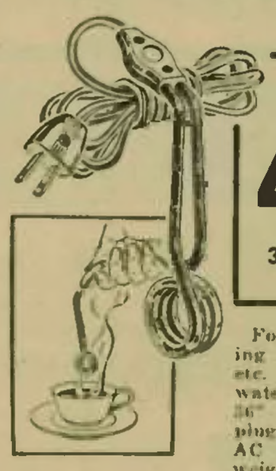
★ Rubber, Cotton or Vinyl Insulation
★ Solid and Stranded Types
★ Five 100 Ft. Coils

$1.99 ★ No. AS-135



You get 5—100 ft. coils of insulated hook-up wire, both solid and stranded types. Each roll is well insulated with rubber, cotton or vinyl insulation. Ideal for kit building and repair work. Color code the circuits in your next kit by using a different color wire in each circuit. This will make future repairs and circuit tracing much easier. You will always have enough hook-up wire when you need it when you take advantage of this Olson bargain now. Shpg. weight 1½ lbs.

## Immersion HEATER

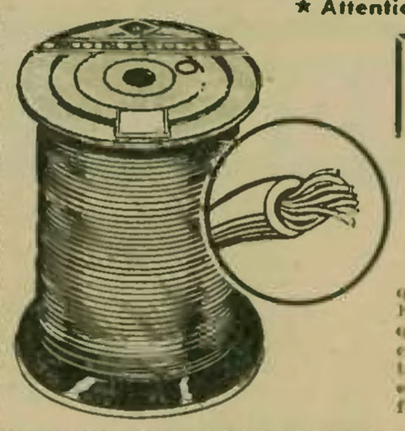


No. X-761
49c
3 for $1.20

For shaving, heating baby's bottle, etc. Gives boiling water in 3 minutes. 36" line cord with plug. For 110 volts AC only. Shipping weight ½ lb.

## INSULATED HOOK-UP WIRE

★ Attention Manufacturers and Industrial Users.

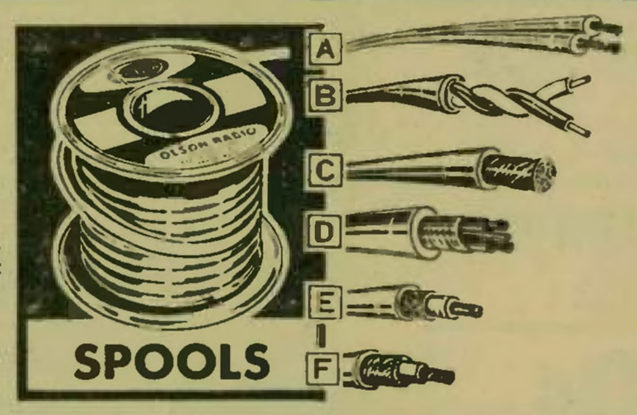


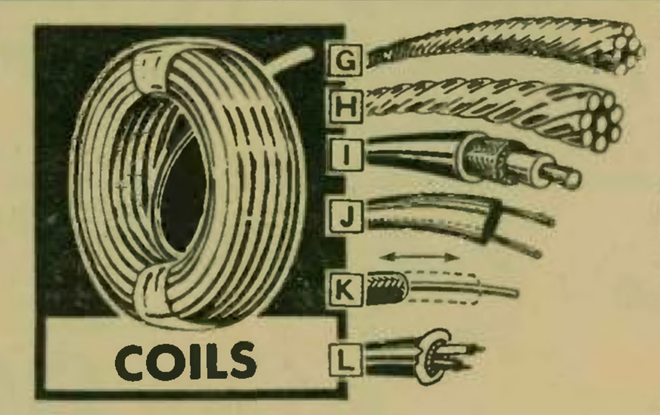
No. W-465 - Green
No. W-466 - Orange
$10 per 3500' reel
(Less than .003c per foot)

- 3500 Ft.
- 22 Gauge
- 300 Volt Insulation
- PVC Insulation

Here's an opportunity to stock up on top quality hook-up wire and save money too. Each roll contains 3500 ft. of the finest quality PVC insulated wire. Your choice of color. Insulation withstands 80°C. temperature. Stranded conductor wire is tinned for easy soldering. Insulation strips easily. Ideal for production lines. Shipping weight—12 lbs.

# Olson WIRE VALUES




### A SPEAKER CABLE—53 FT.

- 2 Conductor
- Plastic Insulated
- No. 24 Stranded
- Shipping wt. ½ lb.

No. W-361 99c

### A Speaker Cable—200 Ft.

- No. 24, Stranded
- Shpg. wt. 3 lbs.

No. W-399 $2.95

### A Speaker Cable—100 Ft.

- No. 21, Polarized
- Heavy Duty
- Shipping wt. 3 lbs.

No. W-400 $1.95

### E MIKE CABLE—22 FT.

- 15" Diameter
- Gray Plastic Jacket
- Braided Sheild
- Shpg. wt. ½ lb.

No. W-362 99c

### E MIKE CABLE—72 FT.

- 15" Diameter
- Lapel Mike Type
- Shpg. wt. 3 lbs.

No. W-401 $2.95

### E MIKE CABLE—60 FT.

- Heavy Duty
- .20" Diameter
- Shpg. wt. 4 bs.

No. W-402 $2.95

### I COAXIAL CABLE—20 FT.

- Vinyl Insulation
- Shipping wt. ½ b.

RG-59/U No. W-383
RG-58/U No. W-384
99c

### I COAXIAL CABLE—55 FT.

RG-59/U No. W-414
- Shipping wt. 3 lbs.

$2.95

### I COAXIAL CABLE—55 Ft.

RG-58/U No. W-415
- Shipping Wt. 3 lbs.

$2.95

### B INTERCOM CABLE

No. 20 Stranded

3 COND. 28 FT. With Jacket No. W-366

2 COND 60 FT. Less Jacket No. W-363

99c Shpg. wt. ½ lb.

### F AUDIO CABLE—23 FT.

Wrap shield, stranded center with grey plastic sheath
Shipping wt. ½ lb.

No. W-368 99c

75 Ft., No. W-403, Shpg. wt. 3 lbs. $2.95

### J DELUXE TWIN LEAD

100 FEET

Heavy duty 300 ohm lead-in for finest TV and FM reception. Shipping weight 3 lbs.

No. W-412 $2.95

### C HOOK-UP WIRE

No. 20 Stranded

- 75 Ft. Spool
- Vinyl Insulation
- Tinned Copper
- Shpg. wt. ½ lb.

No. W-375 99c

### G Antenna Wire—50 Ft.

Stranded copper

Ideal for making citizens band and short wave antenna. Shpg. wt. ¾ lb.

No. W-378 99c

### K PUSH BACK WIRE

Genuine Lenz—100 Ft.

Solid tinned No. 22 gauge wire, with waxed push-back cotton insulation. Shipping weight ½ lb.

No. W-419 3 for $2.00 69c

### D 2 Cond. Shielded 80 Ft.

2-No. 22 ga stranded conductors

With aluminum foil shield. Plastic jacket. Shpg. wt. 3 lbs.

No. W-404 $2.95

### H GUY WIRE—100 FT.

Galvanized-Rust Resistant

- Heavy-Duty
- Stranded Steel
- Shpg wt. 4 lbs.

No. W-380 99c

### L 14/2 ROMEX CABLE

50 Foot Coil

- Standard Electric Cable
- 14 Gauge
- 2 Conductor
- Shpg. wt. 6 lbs.

No. W-445, 3 for $5 $1.80

# Sensational KIT VALUES

## 100 PIECE CAPACITOR KIT

★ TUBULAR TYPE

★ Values: .001 mfd to .5 mfd
★ Voltages: 100 to 1000 volts



No. C-175

**ALL 100 PIECES . . . $1.99**

Kit of 100 of the finest quality tubular capacitors. This is a must for every service man's or experimentor's service bench and tool box. Values range from .001 mfd to .5 mfd at voltages from 100 to 1000 volts. Condensers cost you less than 2c each, which is a very small fraction of their cost when purchased separately. Order several kits at this money saving price. Shipping weight 4 lbs.

## 100 PIECE RESISTOR KIT

★ 85 ½, 1 and 2 Watt Carbon Resistors
★ 15 Wire Wound Resistors up to 10 Watts



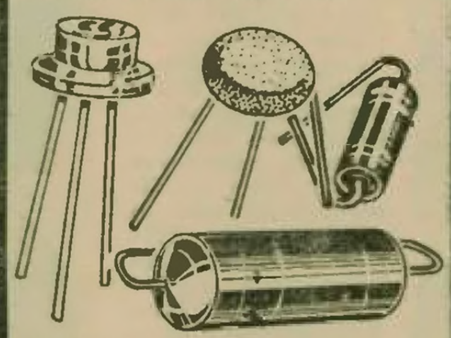
No. R-70

**ALL 100 PIECES . . . $1.99**

100 top quality resistors. All are clearly marked with value. Standard color codes used throughout. Your cost is less than 2c each. Values have been carefully selected to fit most of your replacement needs. You get 85 ½, 1 and 2 watt carbon resistors plus 15 wire wound resistors up to 10 watts in size. Shipping weight 3 lbs.

## 315 PIECE Parts Assortment

★ 15 PNP Transistors
★ 100 Ceramic Condensers at 600 V.
★ 100 Carbon and Wire Wound Resistor
★ 100 Tubular Capacitors



No. AS-845

**ALL 315 PIECES . . . $5**

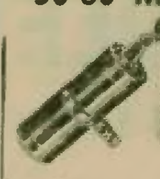
Three hundred and fifteen carefully selected components to fill most replacement and experimental needs. You get 85—½, 1 and 2 watt carbon resistors plus 15 wire wound types ranging up to 10 watts. Also included are 100 disc and tubular ceramic condensers and 100 standard tubular condensers, and 15 popular PNP transistors. Shipping weight 4 lbs.

# ELECTROLYTIC BARGAINS!

A new high in value, a new low in cost as Olson offers these two most popular electrolytic tubulars at rock bottom prices. Full insulation protects against heat and humidity. Shipping weight ¼ lb. each.

**50-30 MFD @ 150 WVDC** — 33c — No. C-149 — 7 for $2 — 50 for $12.50

**40-40-20 MFD @ 150 WVDC** — 75c — No. C-803 — 3 for $2



### Capacitors Size Approx. 2¼" x 7/8" Dia.



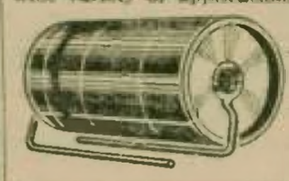
| STOCK NO. | MFD | WVDC | PRICE EACH | QUANTITY PRICE | QUANTITY PRICE |
|---|---|---|---|---|---|
| C-143 | 50-30 | 150 | 35c | 7 FOR $2 | 50 FOR $1 |
| C-147 | 70-30 | 150 | 35c | 7 FOR $2 | 50 FOR $1 |
| C-146 | 80-50 | 150 | 52c | 4 FOR $2 | 50 FOR $2 |
| C-145 | 50-30-20 | 150 | 49c | 5 FOR $2 | 50 FOR $1 |
| C-144 | 80-40-20 | 150 | 59c | 6 FOR $3 | 50 FOR $2 |
| C-148 | 100-50 | 150 | 69c | 3 FOR $2 | 50 FOR $3 |
| *C-150 | 50-30 | 150 | 69c | 2 FOR $1 | 50 FOR $2 |

*Aluminum Can

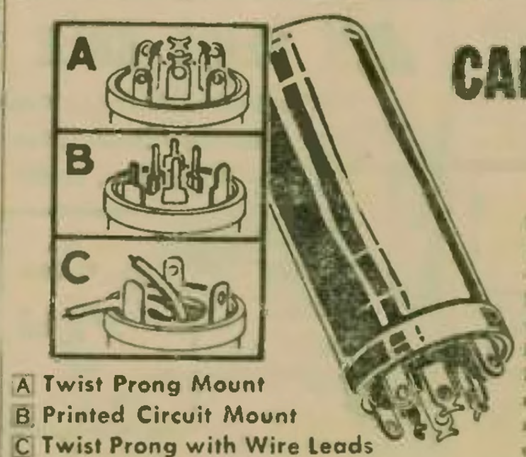
L. Chancey, 75 Linden St., Brattleboro, Vt., wins choice of merchandise worth $5 from Olson's "Treasure Hunt." See back cover for instructions

# TUBULAR ELECTROLYTICS ★ Made in U. S. A.

These factory fresh capacitors are all available at low Olson prices. Ideally suited for a wide variety of applications where dependable service is required.



| Stock No. | Capacity MFD | WVDC | Size Length | Size Width | EA. | Lots of 100 Each |
|---|---|---|---|---|---|---|
| C-138 | 20 | 150 | 1¾" | ¾" | 40c | 3 FOR $1 |
| C-137 | 16 | 450 | 1¾" | ¾" | 50c | 5 FOR $2 |




A Twist Prong Mount
B Printed Circuit Mount
C Twist Prong with Wire Leads

## Electrolytic CAN CAPACITORS

★ MADE IN U.S.A.
★ BRAND NEW!

Never before has Olson offered a Bargain like this on Metal Electrolytics. Both twist prong and printed circuit types are available. All are popular capacities at standard working voltages. All fresh brand new stock from leading American manufacturers. Buy in standard package quantities and save real money. Ideal for service men and experimenters. Limited quantities on some numbers. Shpg. wt. ¼ lb.

| Stock No. | Type | Capacity | Working Volts D.C. | Size | 5 OF A NUMBER |
|---|---|---|---|---|---|
| C-906 | B | 450/100/50 | 16 | 1"x2" | $1 |

| Stock No. | Type | Capacity | Working Volts D.C. | Size | 4 OF A NUMBER |
|---|---|---|---|---|---|
| C-903 | A | 500/150 | 16 | 1"x2" | $1 |
| C-164 | A | 40 | 250 | 2⅛"x1" | |

| Stock No. | Type | Capacity | Working Volts D.C. | Size | 2 OF A NUMBER |
|---|---|---|---|---|---|
| C-984 | A | 5/100/200 | 500/300/15 | 1⅜"x4" | $1 |
| C-918 | A | 40/40 | 150 | 1"x2" | |

# Olson RESISTOR KITS — MADE IN U.S.A.

★ ★ ★ Five new, carefully selected, resistor kits to save you time and money. Values selected for kits are the results of years of experience in supplying your needs. Ideal for service technician, student, experimental lab, and anywhere electronic components are used. Manufactured for Olson by a famous U. S. manufacturer. ★ ★ ★

## 30 Most Needed ½-W Carbon RESISTORS



KIT OF 30 — $1.69 — No. R-62 — 6 @ 1.49 ea. — Shpg. wt. ½ lb.

| OHMS | OHMS | OHMS | OHMS | OHMS |
|---|---|---|---|---|
| 10 | 150 | 2.2 K | 33 K | 330 K |
| 15 | 220 | 4.7 K | 47 K | 470 K |
| 22 | 330 | 6.8 K | 68 K | 1 meg |
| 33 | 470 | 10 K | 100 K | 1.5 meg |
| 47 | 1 K | 15 K | 150 K | 2.2 meg |
| 100 | 1.5 K | 22 K | 220 K | 10 meg |

## 20 Most Common 1 W. CARBON RESISTORS

KIT OF 20 — $1.69 — No. R-63 — 6 @ 1.49 ea. — Shpg. wt. ½ lb.

| OHMS | OHMS | OHMS | OHMS | OHMS |
|---|---|---|---|---|
| 10 | 47 | 470 | 10 K | 150 K |
| 15 | 100 | 1 K | 15 K | 330 K |
| 22 | 150 | 1.5 K | 47 K | 470 K |
| 33 | 330 | 4.7 K | 100 K | 1 M |

## COMBINATION KIT

★ 30-½ Watt/20-1 Watt — $2.98 — No. R-64 — 6 @ $2.79 ea.

See No. R-62 and No. R-63 for values all in one handy kit at a savings. Shpg. wt. 3¼ lb.

## 18 10 Watt Wire Wound RESISTORS

KIT OF 18 — $1.98 — No. R-65 — 6 @ $1.89 ea. — Shpg. wt. 1 lb.

| OHMS | OHMS | OHMS | OHMS |
|---|---|---|---|
| 5 | | 1500 | 5000 |
| 10 | 200 | 2000 | 7500 |
| 25 | 400 | 2500 | 10000 |
| 50 | 500 | 3000 | 15000 |
| 100 | 1000 | 4000 | |

## 10-Watt Wire Wound Resistors

Kit of 27 Most Popular Values PER KIT — $2.50 — No. AS-357 — Shpg. wt. 2 lbs.

★ KIT OF 100

## Ceramic CAPACITORS

• Tabular and Disc
• 600 Volts or More

99c — No. K-90

Truly an Olson "Best Buy". This jumbo kit contains 100 ceramic condensers, both tubular and disc types. All rated at 600 volts or more. All top quality made by leading manufacturers. Every serviceman, experimenter and hobbiest needs one or more of these kits. Keep it handy on your work bench so you will always have the right value and size capacity at your finger tips when you need it. Take advantage of this terrific deal now while our assortments are complete. Shipping Weight ¼ lb.

## 600 WV DC CONDENSERS



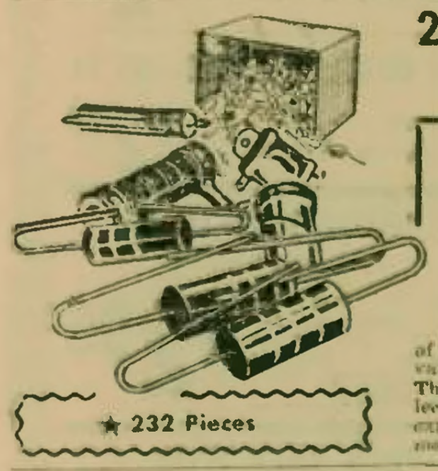
KIT OF 100 — $5.69 — No AS-268

| Q'ty | MFD |
|---|---|
| 10 | .001 |
| 10 | .002 |
| 10 | .005 |
| 20 | .01 |
| 20 | .02 |
| 20 | .05 |
| 10 | 1 |

Shpg. wt. 2 lbs.

## 232 Pc. RESISTOR KIT

★ Carbon and Wire Wound



★ 232 Pieces

$3.99 — No. AS-84 — 3 Kits $11.50

Olson recently purchased a large quantity of top quality insulated resistors in ½, 1 and 2 watt sizes plus 5 to 25 watt wire wound resistors. This generous assortment consists of 200-½, 1 and 2 watt resistors in assorted values plus 22-5 to 25 watt wire-wound resistors. The values of these resistors were carefully selected to satisfy most of your replacement and experimental needs. Stock up now while assortments are complete. Shipping weight 4 lbs.

## 600 VOLT TUBULARS

Molded for greater protection. Factory fresh, capacity and working voltage clearly marked. Long, flexible, tinned leads firmly imbedded. Shpg. wt. ¼ lb.

| Stock No. | MFD | SIZE | YOUR PRICE |
|---|---|---|---|
| C-304 | .001 | ¼ x ¾ | 12 for $1.00 |
| C-305 | .002 | ¼ x ¾ | 12 for $1.00 |
| C-306 | .005 | ¼ x ¾ | 12 for $1.00 |
| C-307 | .01 | ¼ x 1 | 11 for $1.00 |
| C-309 | .05 | ½ x 1¼ | 10 for $1.00 |
| C-310 | .1 | ⅝ x 1⅜ | 7 for $1.00 |

## ATR VIBRATORS



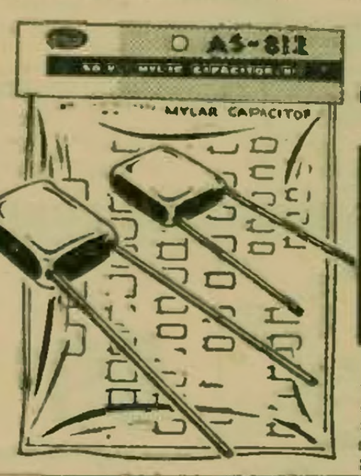
Lots of 3 Ea. 96c 10 for $8.99 EACH...

$1.29 ★ May Be Assorted For Quantity Price

Popular non-synchronous hash type in 6 and 12 volt. Size: 1⅝" x 2⅛".

Choose from these

| 6-VOLT, 4-PIN No. VB-60 | 12-VOLT, 3-PIN No VB-61 | 12-VOLT, 4-PIN No. VB-62 |
|---|---|---|
| Replaces Mallory 294, 859, 901 M, Radiart 5300, 5301, Vokar NP-42-V, many others. Shpg. wt. ¼ lb. | Replaces ATR 1345, C-D 6330, Delco 8350, 1220-186, Mallory 6874, Radiart 6350. Shpg. wt. ¼ lb. | Replaces ATR 1340 and Mallory 6859, also many others for new 12 V car radios. Shpg. wt. ¼ lb. |




## 50-Pc Mylar CAPACITOR KIT

No. AS-812 — $3.50

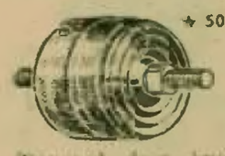
★ 600 Volts

| Qty. | Mfd. | Qty. | Mfd. |
|---|---|---|---|
| 5 | .1 | 10 | .05 |
| 5 | .005 | 10 | .01 |
| 5 | .002 | 10 | .01 |
| 5 | .001 | | |

Kit of 50 carefully selected mylar capacitors to fill most of your replacement and construction needs. Mylar insulation withstands heat and moisture. All are rated at 600 volts. Ultra compact size makes replacement, even in small spaces, easy. Shipping weight ½ lb.

## TV High Voltage CAPACITOR

★ 500 MMFD. X 20K Volt — Kit of 3 — 99c — No. C-173



Standard door knob type filter condenser for high voltage circuits such as those found in most television sets. Terminal studs extend ¾" from each end. Overall size: 2" dia. studs x 1". Shpg. wt. 1 lb.




## TUBULAR CAPACITORS

★ .05 mfd. X 400 Volt
★ .1 mfd. X 400 Volt

KIT OF 24 (12 of each Value) — 99c — No. AS-840



Highest quality tubular capacitors for replacement or new construction. Sealed in wax with extra vinyl jacket to protect against heat and moisture. Leads are firmly embedded in each end. Sizes: .1 mfd. .15 .15" x ¾", .05 mfd. 1" x ⅜". Shipping weight 1 lb.

| | |
|---|---|
| .05 mfd. X 400 Volt (Kit of 24 No. C-171 | 99c |
| .1 mfd. X 400 Volt (Kit of 24 No. C-172 | 99c |

## GLO-BAR DROPPING RESISTOR



$2.99 — No. R-40 — 3 for $8.00

Reduces 12 volts from battery to 6 volts D. C. at 10 amps. Changes resistance with load. Shipping weight ¼ lb.

## Olson MINIATURE CAPACITORS

### MYLAR BYPASS

★ Packaged 10 of a type per kit
Shipping weight ¼ lb.

PER KIT — $1.29



(⅜" x ¼"), single ended for easier repair work on transistor circuits. Shpg. wt. ¼ lb.

| No. | MFD | WVDC |
|---|---|---|
| C-971 | .001 | 100 |
| C-972 | .005 | 100 |
| C-973 | .01 | 100 |
| C-974 | .02 | 100 |
| C-975 | .04 | 100 |
| C-976 | .05 | 100 |
| C-977 | .1 | 100 |

### ELECTROLYTICS

★ STOCK UP NOW!



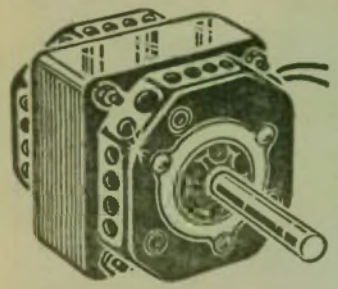
Poly plastic jacket protection. Designed for reliability, and ease of installation. Size approximately ½ dia. x ¾" long. Shpg. wt. ¼ lb.

| Stock No. | MFD | WV-UC | YOUR PRICE |
|---|---|---|---|
| C-966 | 5 | 10 | 5 FOR 99c |
| C-967 | 10 | 10 | 5 FOR 99c |
| C-968 | 30 | 10 | 5 FOR 99c |
| C-969 | 50 | 10 | 5 FOR 99c |
| C-970 | 100 | 10 | 5 FOR 99c |

# *Sensational* SURPLUS BARGAINS

## General Industries 4 Pole MOTOR

★ 117 Volt AC.
★ Quiet-Smooth Running



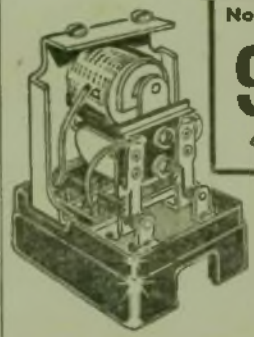
No. MO-109
**$3.49**

Shaded pole induction type motor. Has plenty of power for all sorts of devices . . . quiet fans, tape recorder mechanisms, record turntables, displays, etc. ¼" dia. shaft. Oilite bearings, 1750 RPM. For 110 to 120 volts A.C. 60 cps. Size: 3⅝" x 3⅝" x 2¾". Shipping weight 3½ lbs.

★ OILITE BEARINGS

## Potter & Brumfield DPDT RELAY

★ 6-12 V. DC Coil
★ 10 Amp. Contacts



No. SW-282
**99¢**
6 FOR $5

Rugged power switching relay operates on 6 or 12 volts DC. Has 10 AMP. D.P.D.T. contacts. Mounted in metal container to seal out dust and dirt. Relay contacts and coil connections are brought out to screws at rear of relay for easy connection.

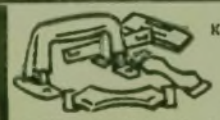


ENTIRE RELAY IS MOUNTED IN STURDY METAL CONTAINER



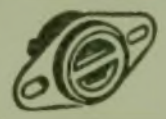
KIT OF 4 **$1**
No. R-72

IRC 4.7 PLUG-IN RESISTORS. Shipping weight ¼ lb.



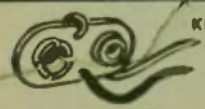
KIT OF 5 **$1**
No. AS-856

5 PIECE HANDLE KIT plastic and leather. Shipping weight ½ lb.



KIT OF 5 **$1**
No. AS-857

AC CHASSIS SOCKETS, requires 1⅛" mtg. hole. Shipping weight ½ lb.



KIT OF 4 **$1**
No. BA-98

BATTERY SNAPS, fits popular 9 V. transistor batteries such as Burgess 2U6, and many others. Shipping weight ¼ lb.



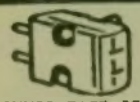
No. ME-123 **$3.98**

GIANT 4½" FULL-VIEW METER, 0-1 MA. Made in U.S.A. Has 0-100 scale plus BAD — ? — GOOD scale. Shipping weight 1 lb.



No. RP-268 **Kit of 3 . . . $1**

VM CHANGER ARMS. Replacement arms for popular VM changer. Less cartridge. Shipping weight ¼ lb.



No. RP-264 **$2.99**

SHURE TAPE RECORDER HEAD. Model No. TR-16. High impedance, ½ track, record and playback head. Shipping weight ¼ lb.



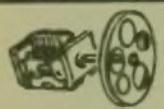
**$3.99** No. RP-266

SHURE TAPE RECORDER HEAD. Model No. TR-5Y. Upper track, record playback and erase head. High impedance. Shipping weight ¼ lb.



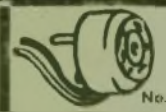
**$2.99** No. RP-265

SHURE TAPE RECORDER HEAD. Model No. 1502. Full track, record playback and erase heads. High impedance. Shipping weight ¼ lb.



KIT OF 2 **$1**
No. C-177

SUPERHET VARIABLE CONDENSER. Ball-bearing rotor and built-in trimmer. Size: 1½ x 1⅛ x 1¼ plus shaft. Shipping weight ½ lb.



No. X-937 **99¢**

SOLENOID. For 117 volts AC. Armature travel ⅛". Armature rotates counter clockwise ¼" as it pulls in. Shipping weight 2 lbs.

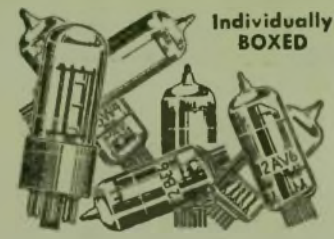


No. RP-238 **$5**

COLUMBIA RECORD ALBUM. Five 12" LP Stereo Records. 58 popular songs from Broadway Hits. Shipping weight 4 lbs.

# TUBE BARGAINS

## ★ Famous Brands



Individually BOXED

| TUBE TYPE | ORDER STOCK NO. | PRICE EACH |
|---|---|---|
| 0A2 | Z-312 | $ .75 |
| 1AG5 | Z-317 | 1.00 |
| 1L6 | Z-293 | 2.00 |
| 1K3 | Z-308 | .69 |
| 1U4 | Z-291 | 1.00 |
| 1U5 | Z-314 | .59 |
| 2AF4 | Z-288 | 1.25 |
| 3AL5 | Z-326 | .39 |
| 3BC5 | Z-278 | .59 |
| 2CB6 | Z-304 | .49 |
| 3DT6 | Z-313 | .49 |
| 3V4 | Z-296 | .79 |
| 4BC5 | Z-309 | .79 |
| 4DT6 | Z-294 | .79 |
| 5AN8 | Z-319 | .79 |
| 5AV8 | Z-300 | 1.25 |
| 5AT8 | Z-286 | .79 |
| 5EA8 | Z-299 | 1.00 |
| 5U8 | Z-292 | .79 |
| 5Y3 | Z-307 | .39 |
| 6AH6 | Z-279 | 1.00 |
| 6AN8 | Z-311 | .79 |
| 6AU5 | Z-276 | 1.50 |
| 6AU6 | Z-287 | .59 |
| 6BQ5 | Z-283 | .49 |
| 6CL8 | Z-281 | .89 |
| 6CM7 | Z-320 | .69 |
| 6SF5 | Z-327 | 1.25 |
| 6SL7 | Z-324 | .79 |
| 7F7 | Z-290 | 2.75 |
| 8AW8 | Z-280 | 1.20 |
| 8CM7 | Z-277 | 1.00 |
| 10DE7 | Z-305 | 1.20 |
| 12AU6 | Z-301 | .44 |
| 12AU7 | Z-306 | .69 |
| 12AX7 | Z-303 | .59 |
| 12BE6 | Z-323 | .33 |
| 12BF6 | Z-310 | .79 |
| 12SK7 | Z-322 | 1.25 |
| 17AX4 | Z-282 | .59 |
| 17DQ6 | Z-295 | 1.00 |
| 19T8 | Z-285 | 1.00 |
| 25C06 | Z-297 | 1.25 |
| 25DN6 | Z-316 | 1.50 |
| 25Z6 | Z-321 | 1.00 |
| 35C5 | Z-284 | .39 |
| 35W4 | Z-259 | .42 |
| 50L6 | Z-302 | .59 |
| 117Z3 | Z-315 | 1.60 |
| 7189 | Z-298 | 1.00 |
| EF 86 | Z-318 | 1.00 |
| EM-84 | Z-325 | 1.00 |

# TECHNICAL BOOKS

RCA TUBE MANUAL. Latest edition. 480 pages. 880 receving tubes plus 200 picture tubes.
No. B-275 — $1

HWS MAGNETIC RECORDING FOR THE HOBBYIST. How to record from phonographs, copying old records, how to record broadcasts and many more.
No. B-287 — $2.50

HWS 101 USES FOR OSCILLOSCOPE. By Robert G. Middleton. Covers the many possible uses of the oscilloscope. 180 pages. Size 5½"x11".
No. B-277 — $2.50

HWS 101 USES FOR VOM-VTVM. By Robert G. Middleton. Over 150 illustrations. 116 pgs.
No. B-278 — $2.00

HWS 101 MORE WAYS TO USE YOUR VOM-VTVM. TEM-8. By Robert G. Middleton. This is a sequel to book TEM-2 (above) and stresses the proper interpretation of observed wave forms. Illustrated. 160 pages.
No. B-279 — $2.50

HWS TUBE SUBSTITUTION HANDBOOK. TUB-6. 96 pages of substitutions for American, industrial European receiving, picture tubes.
No. B-271 — $1.50

HWS TRANSISTOR SUBSTITUTION HANDBOOK VOL. SSH-4. 6500 Direct Substitutions. 668 U. S. Substitutions for Japanese Transistors. 530 Semiconductor Diode Substitutes.
No. B-273 — $1.50

HWS HOW TO READ SCHEMATIC DIAGRAMS. Contains all types of schematic symbols and diagrams including tubes, transistors, capacitors, resistors, microphones, etc. 96 pages.
No. B-280 — $1.50

HWS TV SERVICING GUIDE BY SYMPTOMS. Explains trouble shooting techniques based on analysis of symptoms. 132 pages. 8½" x 11".
No. B-281 — $2.00

HWS ABC'S OF TRANSISTORS. TRA-1. By George B. Mann. Construction, basic circuits, temperature considerations, training and servicing procedures. Illustrated, 96 pages.
No. B-282 — $1.25

HWS UNDERSTANDING CAPACITORS AND THEIR USES. CAP-1. A 96 page book that makes it easy to understand capacitors.
No. B-274 — $1.95

HWS CITIZENS BAND RADIO HANDBOOK. By D. E. Hicks. For the service technician who installs and maintains CB gear, as well as for anyone who uses CB equip. 160 pages.
No. B-283 — $2.95

SP RADIO SERVICING COURSE. A practical radio training course for home study. The course covers basic electricity, including ohms law, coils, transformers, etc.
No. B-285 — $2.50

SP TELEVISION SERVICING COURSE. A complete home study course covering the basic essentials of TV servicing.
No. B-284 — $3.00

IR PHOTO & SOLAR CELL HANDBOOK. 112 pages of charts, data, and projects.
No. B-272 — $2.00

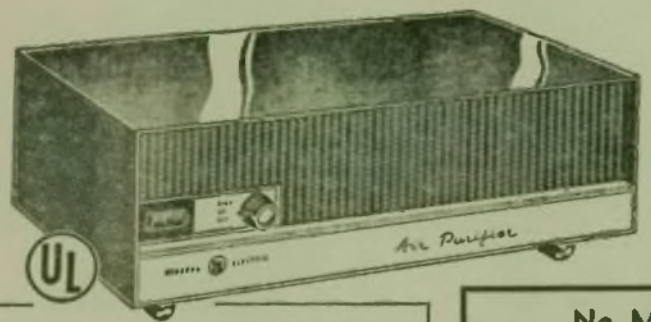
GERNSBACK 112 LEARN ELECTRONICS BY BUILDING. A complete electronic course in easy learn-by-doing form. From basic components to complete circuits.
No. B-286 — $3.85

GE TRANSISTOR MANUAL. New 6th edition includes theory and specifications.
No. B-276 — $2.00

# Gifts for the Home!

## Portable AIR PURIFIER

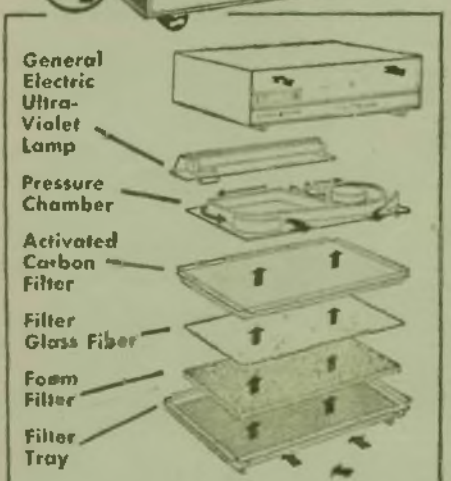
**Removes Smoke, Odors, and Air-Borne Particles**




★ HEAVY DUTY FOAM FILTER

★ ACTIVATED CHARCOAL

★ 18" ULTRA VIOLET LAMP




Air enters at the bottom, passes through the three filters, is exposed to the ultra violet rays, and is blown into your room clean and fresh.

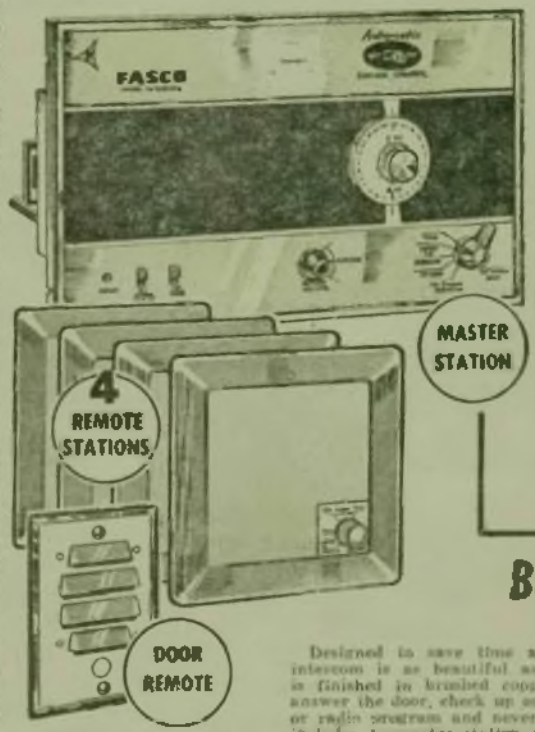
**No. MO-111**

**$19.99**

Wonderfully effective, [illegible] air purifier helps remove pollen, dust, smoke, and odors from the air makes life more comfortable for allergy sufferers. A heavy-duty, washable foam filter removes most dust and dirt from the air passing through then a superfine fiber glass filter, removes smoke and other airborne particles down to approximately 1/1,000,000th of an inch. At least 90% of all household odors are actually removed from the air. After passing through this super-efficient filter system, the air is exposed to the rays of a General Electric 18-inch ultra-violet lamp. A quiet, but powerful 5-inch blower pulls 44 cubic feet of air every minute. Shipping weight 24 lbs.

## FASCO FM-AM RADIO INTERCOM SYSTEM

Model 8406




**ALL STATIONS CAN INITIATE A CALL**

- ★ Phono Jack
- ★ 5 Remote Stations
- ★ Hardware & Wire Included

**No. AS-832**

**COMPLETE SYSTEM**

**$99.99**

**$10 MONTHLY**

Lots of 3, ea. $91.85

## BUILD INTO WALL

Designed to save time and energy. This custom crafted radio-intercom is as beautiful as it is functional. Master station panel is finished in brushed copper to blend with any decor. You can answer the door, check up on the baby, listen to your favorite records or radio program and never leave your work area. Complete system includes 1 master station with FM-AM radio and phono jack, 4 indoor remote stations with selector switches and one door remote station plus all hardware, wire and complete instructions. Master can call all remotes or play radio or phono through remotes. Remotes can call master or other remotes and can also answer door remote. Each remote is equipped with a hi-lo volume and selector switch. Radio features vernier tuning dial for easy tuning. All wiring is color coded and requires no soldering. Exclusive "Automatic Station Control" eliminates the complicated switching arrangements found on most radio intercoms. Remote stations may be operated as private or non-private units depending upon the setting of the selector switch. Size: Master, 15⅝"x10½"x4". Indoor remotes: 3"x8"x1½". Outdoor remote 6"x4"x1½". For 110-125 v. AC, 60 cps. Shipping weight 26 lbs.

# Semi-Conductor & Quality Parts BARGAINS

## TRANSISTORS

*Made By A Leading U.S.A. Manufacturer!*

BRAND NEW!



BAG OF 10 NO. TR-21 — YOUR CHOICE $1 — BAG OF 15 NO. TR-22



**PNP** High Frequency **AUDIO**

*SAVE $2* **$8**

*10 BAGS (100 Transistors)*

Brand new, first quality transistors with full length leads. Ideal for experimental and replacements needs in high frequency audio circuits. Replaces many popular numbers without circuit changes. These transistors are made by one of the leading U. S. manufacturers. Shipping wt. 2 lbs.

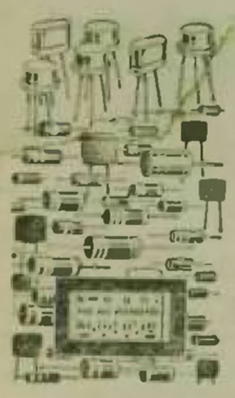
**PNP** General Purpose **AUDIO**

*SAVE $2* **$8**

*10 BAGS (150 Transistors)*

These first quality audio transistors will work in most audio circuits as replacements or use them for 90% of experimental audio applications. Replaces many popular numbers without circuit changes. All are brand new with full length wire leads. Shipping weight 2 lbs.

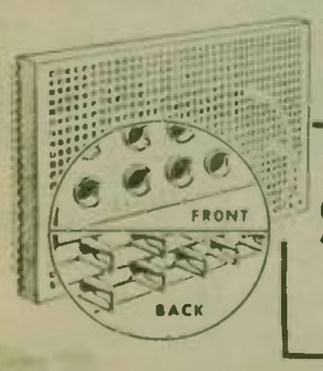
Here's a real "TOP VALUE" for the experimenter or serviceman. Each printed circuit board is made in U.S.A. and loaded with highest quality, standard brand, precision parts! Includes: PNP and/or NPN transistors, 5% resistors, glass diodes, ceramic capacitors, etc. Standard brand names included are: Sprague, General Transistor, Sylvania, General Electric, Pyramid, and others.



**6 TRANSISTORS** (PLUS) **50 PARTS** — No. X-911 ALL FOR $1.50

**12 TRANSISTORS** (PLUS) **60 PARTS** — No. X-912 ALL FOR $2.50

**20 TRANSISTORS** (PLUS) **80 PARTS** — No. X-913 ALL FOR $6




## PATCH BOARD

No. PL-88

**$1.69**

3 for $4.50

700 jacks to a board. Jacks take standard pin plugs. Heavy 3/16" board. Jacks are on 1/2" centers. Set up experimental circuits instantly. An excellent item for the experimenter, engineer, student, etc. for multiple connection. Single conductor patching of test circuits. Patch board is 10 1/4" x 8". Shpg. wt. 4 lbs.

**Semi-Conductor** ASSORTMENT

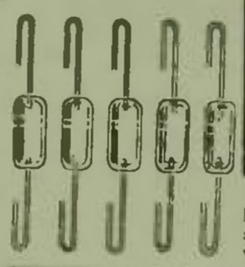
★ Diagrams Included

IOR INTERNATIONAL RECTIFIER

SILICON CAPSULE

# 88c TRANSISTOR - DIODE BARGAINS!

## GERMANIUM DIODES



No. DI-18 — *10 FOR* **88c**

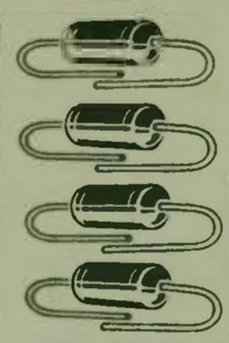
Replaces 1N34, IN34A, 1N60 and IN51. Shp. wt. 1/4 lb.

## SILICON DIODES



No. DI-19 — *6 FOR* **88c**

Replaces general purpose types IN34, IN34A, IN51, IN456, IN625, IN482, etc. Forward current 100 MA. Reverse current 25 UA. Shipping weight 1/4 lb.



**500 MA Silicon DIODES**

★ RMS 280 Volts
★ PIV; 400 Volts
Shpg. wt. 1/4 lb.

No. RE-76 — *4 FOR* **88c**

## TOP HAT Silicon Diode

★ 500 MA
★ RMS 280 Volts
★ PIV; 400 VOLTS
Shpg. wt. 1/4 lb.



No. RE-73 — *3 FOR* **88c**

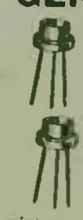
## SYLVANIA 2N233 NPN RF AMPLIFIER TRANSISTORS



No. X-802 — 2 FOR **88c**

Similar to General Transistor GT-229, G. E. 2N170 and Sylvania 2N229. Shipping weight 1/4 lb.

## GENERAL PURPOSE



No. TR-16 — *4 FOR* **88c**

Pkg. of 4 PNP junction transistors similar in characteristics to GE 2N-107. A high quality transistor at a low price suitable for experimenters and hobbyists. Shipping weight 1/4 lb.

## POWER TRANSISTORS



**69c**

3 for $2.00
Lots of 100, Each 59c
Shpg wt. 1/4 lb.

**No. TR-13 Low Wattage Type**

A general replacement for low wattage types such as —2N176, 2N178, 2N179, 2N256, 2N266, 2N257, TS170.

**No. TR-14 Med. Wattage Type**

A general replacement for medium and low wattage types such as—2N155, 2N156, 2N235, 2N250, 2N301, 2N301A, 2N307, 2N325, 2N350, 2N350A, 2N351, 2N351A, 2N376, 2N376A, 2N554, 2N555, CTP 1104, CTP1105, CTP1109, CTP1117, CTP1137.

**No. TR-15 High Wattage Type**

A general replacement for high, medium and low wattage types such as—2N176B, 2N176G, 2N214, 2N214A, 2N235, 2N235A, N235B, 2N236, 2N236A, 2N236B, 2N242, 2N285, 2N285A, 2N307A, 2N552, 2N553, 2N299, 2N400, 2N401, 2N669.

Motorola **Power Transistor MOUNTING KIT**

No. X-773 ..... 4 for 99c



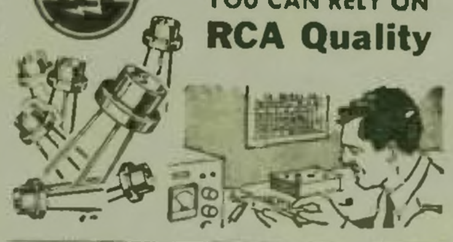
**PNP Audio TRANSISTOR**

No. TR-12 — **$1.99** — 3 for $5

2N173, 2N174, 2N277, 2N278, 2N441, 2N442. Shpg. wt. 1/4 lb.

## TRANSISTORS

YOU CAN RELY ON **RCA Quality**



| Stock No. | RCA No. | Description | Net Each |
|---|---|---|---|
| X-745 | 2N412 | Mixer-oscillator | 89c |
| X-748 | 2N408 | Audio Output | 66c |
| X-746 | 2N410 | I. F. Amplifier | 86c |

**INDUSTRO TRANSISTORS**

| Stock No. | RCA No. | Description | Net Each |
|---|---|---|---|
| X-857 | 2N633 | Audio Output | 88c |
| X-858 | 2N482 | I. F. Amplifier | 88c |
| X-859 | 2N485 | Mixer-oscillator | 88c |

## TRANSISTORS



★ MATCHED SET OF 6
Plus one diode

No. TR-20 — PER SET . . . **$1.99** — 3 Sets, $5.50

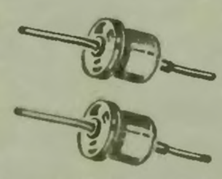
Consists of: 1—mixer, 2—IF's, 1—driver and 2 output PNP transistors. Plus diode. Shipping weight 1/4 lb.

## ZENER DIODES

These zener diodes are suitable for applications such as voltage references, voltage regulated power supplies, transistor bias, voltage switches for non-sensitive relays, transient absorbers for meters and other circuits, and other applications where the operating current range is always greater than the test current listed.

**1 WATT**

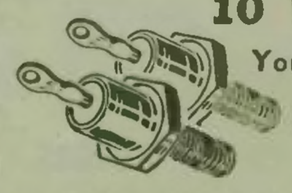
Your Choice **$1.19** PAIR



| Stk. No. | Nom. Voltage | Test Current M.A. |
|---|---|---|
| RE-85 | 4.7 volt | 40 M.A. |
| RE-86 | 4.7 volt | 30 M.A. |
| RE-87 | 10 volt | 20 M.A. |
| RE-88 | 15 volt | 13 M.A. |
| RE-89 | 22 volt | 9 M.A. |
| RE-90 | 30 volt | 5 M.A. |

**10 WATT**

Your Choice **$1.39** PAIR



| Stk. No. | Nom. Voltage | Test Current M.A. |
|---|---|---|
| RE-91 | 4.7 volt | 400 M.A. |
| RE-92 | 6.8 volt | 300 M.A. |
| RE-93 | 10 volt | 200 M.A. |
| RE-94 | 15 volt | 140 M.A. |
| RE-95 | 22 volt | 90 M.A. |
| RE-96 | 30 volt | 60 M.A. |

## Olson PERF-BOARD

COMPLETE—Fast and Simple To Use—Solderless Breadboard

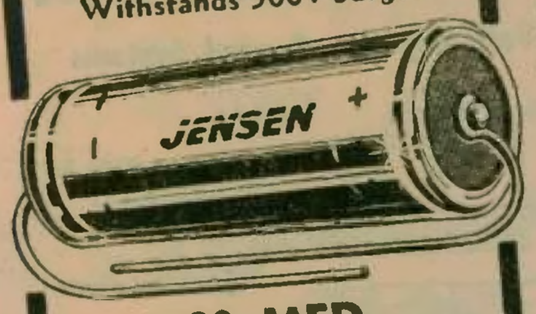
# JENSEN CAPACITORS

Made In Denmark



Made in Denmark by Jensen's industrial craftsmen who are proud to produce precision capacitors to exacting specifications. Every bit of insulation is the finest. Every processing standard is painstakingly maintained. Sealed in tubular aluminum cases and insulated overall with colored transparent plastic jacket. Equipped with long tinned leads. Average shipping weight each 1/4 lb.

**450 VOLT**
Withstands 500V Surges



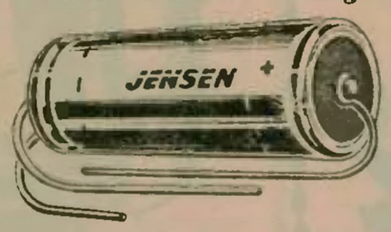

**20 MFD**
1 3/4" long x 7/8" dia.
6 for $3
No. C-152 ..... EA. **52c**

**40 MFD**
2 3/8" long x 1" dia.
5 for $3
No. C-153 ..... EA. **79c**

**80 MFD**
2 1/2" long x 1 1/4" dia.
4 for $3
No. C-154 ..... EA. **99c**

**200 VOLT** Withstands 225V Surges
200 MFD, 2 3/4" long x 1" dia.,
No. C-155, 4 for $3 ..... EA. **99c**

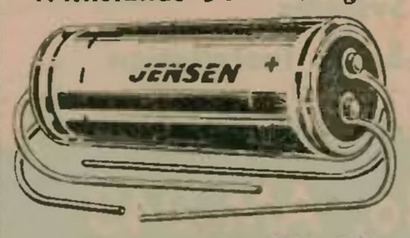
**DUAL 450 VOLT**
Withstands 500V Surges




**20-20 MFD**
2 3/8" long x 1" dia.
No. C-156
3 for $2
EACH ..... **79c**

**40-40 MFD**
2 3/4" long x 1 1/4" dia.
No. C-157
4 for $3
EACH ..... **99c**

**TRIPLE 450 VOLT**
Withstands 500V Surges

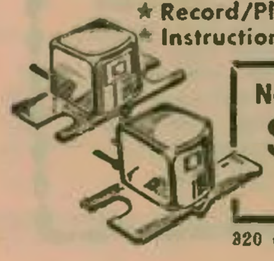



**20-20-20 MFD**
2 3/8" long x 1 1/4" dia.
No. C-158
4 for $3
EACH ..... **99c**

**40-40-40 MFD**
3" long x 1 1/4" dia.
No. C-159
3 for $4
EACH ..... **$1.39**

## TAPE RECORDER HEADS

★ Record/Play & Erase
★ Instructions & Hardware

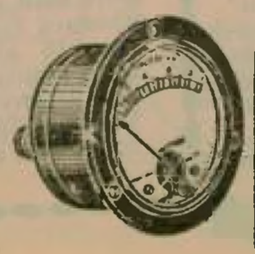


No. TA-111 — **$4.45**

A two-piece set consisting of one record/playback and erase head. Ideal replacement in most battery operated and many AC operated recorders. Specifications: Record/Play; 1/2 track, DC Res. 600 ohms, Impedance 3600 ohms, Bias Current 0.2 ma. Erase; 320 ohms. Erase current 4 ma. Shpg. wt. 1/4 lb.

## WESTON 0-1 MA. METER

★ 2 1/2" Dia. Model 506



No. ME-122 — **$3.98**

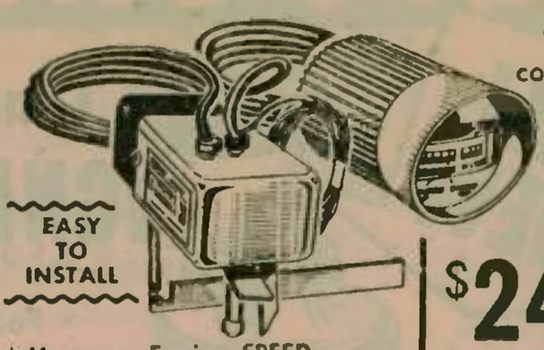
Genuine Weston Meter. Model Number 506. Scale 0 to 1 ma. Internal resistance 26 ohms. By adding appropriate resistors you can make any range meter you need. Mounts in 2" round hole. Shipping weight 1 lb.

Electronic

## Miles Per Gallon Computer

*Calculates Relative MILES PER GALLON!*

★ NO GAS LINE CONNECTION



EASY TO INSTALL

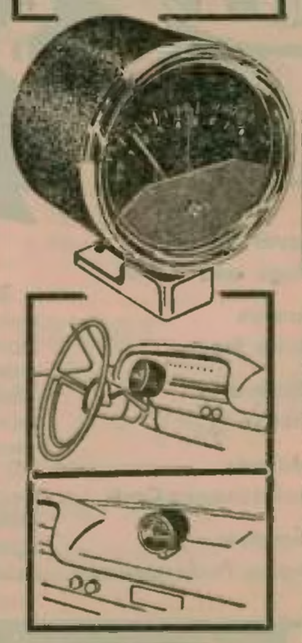
No. X-933 — **$24.50**

★ Measures Engine SPEED

An all-electronic instrument engineered to be a guide to fuel economy. Measures relative miles per gallon at all speeds. Gives constant visual indication of optimum operating efficiency. Guides you to the economy of smooth acceleration, proper cruising speed, the best gas for your car. Easy-to-read, illuminated indicator mounts above dash. Simple installation, only three wires to connect. Complete with cable and instructions. For 12 volt negative ground systems. Shipping weight 3 lbs.

ACROTACH

Transistorized **TACHOMETER**



★ Illuminated Dial
★ Universal Mounting
★ Adjustable Set-Pointer

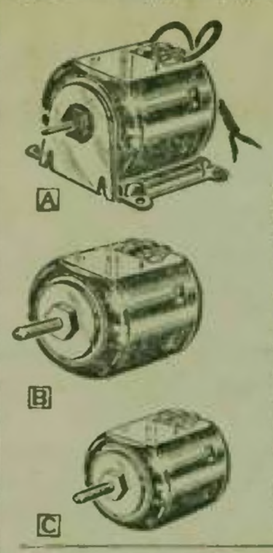
No. X-941 — **$19.95**

This precision-built tachometer indicates engine speed instantly and accurately. Jewel bearing D'Arsonval meter and modern, zener regulated transistor circuit provide reliable, trouble-free performance. Die-cast housing is finished in non-reflecting black, offset with a gleaming chrome bezel. Adjustable reference pointer can be set for correct shifting speed or maximum safe RPM. Works with regular and dual-point ignition systems, magneto and transistor ignition systems. Does not affect ignition system performance. Complete with all hardware and instructions. For 12 volt, negative ground systems. Shipping weight 3 lbs.

# Miniature HOBBY MOTORS

★ Oilite Type Bearings
★ Reversible

These high torque, miniature motors are perfect for all kinds of hobby applications. Because of their high efficiency and small size they are ideal for racing cars, boats and many other working models. All have permanently lubricated bearings. Threaded mounting hole on bottom of case makes mounting to any surface easy. Shipping weight ¼ lb. Write for special large quantity prices.



A 3 to 4 volts DC. Current (no load) .190 amp. Torque 9.92 gr./cm @ 8100 RPM. With 1½"x1¼" mounting stand. ⅛" dia. shaft. MO-106, 3 for $2.00 ____ Ea. **79c**

B 3 to 4 volts DC. Current (no load) .190 amp. Torque 9.92 gr./cm @ 8100 RPM. ⅛" dia. shaft. MO-105, 5 for $3.00 ____ Ea. **69c**

C 1.5 to 3 volts DC Current (no load) .210 amp. Torque 6.41 gr./cm @ 5900 RPM. ⅛" dia. shaft. MO-104, 3 for $1.25 ____ Ea. **49c**



Heavy Duty
# BLOWERS

★ TORRINGTON FANS
★ HIGH SPEED MOTORS

Ideal for ventilating or cooling all types of electronic equipment such as ham gear or commercial broadcast equipment. Write for special large quantity prices.

## HEAVY DUTY BLOWER

★60 Cubic Ft. Per Min.

For use where continuous circulation of air with minimum noise is required. Two pole, Shaded-pole motor for cool, efficient, continuous duty. Size: 6½" x 6". 110-125 v. AC 60 cps. Shipping weight 5 lbs.

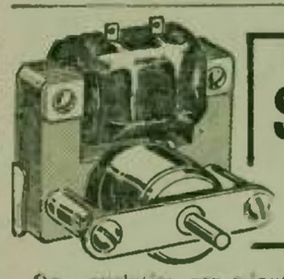
NO. MO-79 ____ **$7.95**

## DUAL BLOWER

★ 120 Cubic Ft. Per Min.

A versatile blower unit for use where quiet circulation of a large volume of air is required. Features cool running, two pole motor. Size: 10⅝" x 6¼". Flange mounting. 110-125 v. AC 60 cps. Shpg. wt. 9 lbs.

NO. MO-78 ____ **$10.95**



No. MO-108
**$1.19**
3 for $3

# TELECHRON 1 RPM Timing MOTOR

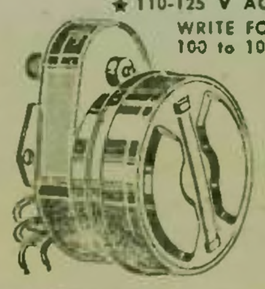
★ MADE IN U.S.A.

One revolution per minute, ideal for displays and timing devices. This rugged motor is built for continuous use. Features heavy duty gear box and motor frame plus fully insulated coil for long efficient life. Bearings require little or no lubrication. Power connections are conveniently located on the side of the coil. Overall Size: 2¼" x 2⅝" x 2½". The gear box has a ¼" diameter shaft extending ⅝". For 110-125 v. AC 60 c.p.s. Shipping weight 2 lbs. Write for special large quantity prices.

## TIMING MOTORS

★ 110-125 V AC.

WRITE FOR SPECIAL 100 to 1000 PRICES!



MADE IN U.S.A.

1/37.5 RPM MOTOR, No. MO-72 — 2 for $1.00 ____ Ea. **59c**

1/20 RPM MOTOR, No. MO-88 — 2 for $1.00 ____ Ea. **59c**

1/60 RPM MOTOR, No. MO-71, — 3 for $1.00 ____ Ea. **39c**

5 RPM MOTOR, No. MO-74 — 3 for $2.00 ____ Ea. **69c**

## KIT of 7 MOTORS

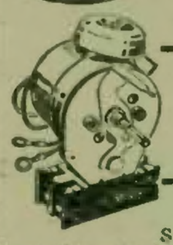
Kit contains 7 assorted motors of various speeds and voltages. A rare opportunity to stock up for your every experimental need. Shpg. wt. 4 lbs.

**$2** No. AS-767

## 5 Hr. TIMER

With Bell

★ Heavy Duty Switch

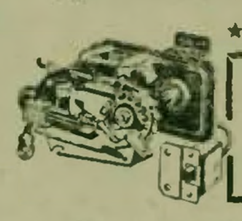


No. SW-281
**$1.99**
3 for $5.00

Heavy duty D.P.S.T. Switch is turned on by rotating shaft fully clockwise. At the end of the time cycle (5 hr.), the switch turns off and a bell begins to ring. Switch may also be operated manually. Rated at 30 amps. @ 230 volts. Motor operates on 110-125 volts A.C. 60 C.P.S. Size: 4⅛" x 2⅝" x 2⅝". Shipping wt. 2 lbs. Write for Special Large Quantity Price.

## Switching Motor

★ 13 RPM Gear Mechanism
★ 117 Volts AC



No. MO-107
**$1.99**

Rugged self starting motor with attached gear train. Stepping mechanism on end of gear box shaft rotates at 13 RPM. This stepper operates a leaf type switch opening a set of normally closed contacts at the rate of 13 times per revolution. Once each RPM a second set of normally closed contacts opens. For 110-125 v. AC 60 cps. Shipping weight 3 lbs.



A B C D E F

## A VENTILATION MOTOR

Motor is ruggedly constructed of laminated steel and features oilite type bearings. Universal mounting bracket. 3" blade. Shpg. wt. 2 lbs. 110-125 volts. A.C. 60 cps.

No. MO-83 ____ ea. **$2.49**

## B BODINE 1/25 HP

High speed 3300 RPM motor for intermittent use in home or shop. ¼" shaft has geared face and extends ⅝" from motor housing. Easily gear-coupled to any application. Operates on 110-125 volts A.C. or D.C. Size: 4" x 2¼" Shipping weight 4 lbs.

No. MO-64, 3 for $5.50 Ea. **$1.98**

## C FASCO 4-POLE MOTOR

4-coil, 4-pole self-starting induction type. ¼" shaft extends 1¼" from front of motor and ⅝" from back of motor. 1550 RPM. For 110-125 volts AC, 60 cps. Size: 2⅛" x 3½" plus shaft. Shipping weight 5 lbs.

No. MO-110, 3 for $9.00 ____ ea. **$3.50**

## D 24 RPM MOTOR

High torque 24 RPM motor features permanently lubricated bearings in rugged cast housing. Gear reduction ratio 137-1. Operates on 110-125 volts AC. Motor size 4⅛" x 3½". Shaft size ⅛" long x ⅜" dia. Shipping weight 5 lbs.

NO. MO-81 3 for $10 ea. **$3.50**

## E 3-6 V. MINIATURE MOTOR

Operates on 3 to 6 volts D.C. Current drain only .200 amperes. 9 gr/cm torque @ 4500 RPM. Self aligning oilite bearings. Shaft: 7/64" long by .079 dia. Overall size: 1⅝" x ¾" With mounting bracket. Shpg. wt. ¼ lb.

No. MO-65, 3 for $2.50
12 @ 75c Ea. ____ Ea. **89c**

## F Telechron TIMER MOTOR

Synchronous motor with multiple gear train. Front panel shaft sets timer for up to one hour. Buzzer sounds at end of time cycle. Size: 2¾" x 2½" x 3⅛" including 1¼" shaft. 110-125 v. AC 60 cps. Shipping weight ¾ lbs.

No. SW-254 ____ **99c**



# TIMER EXTENSION CORD



No. SW-178
**$5.11**
Lots of 3, ea. $4.50

★ Automatically Turns Lights Off

Heavy duty extension cord with mechanical timer. Time cycle 0-4 hours. Extension cord has three outlets. Ideal for turning off fans, motors, radios, lights, etc. Use to turn off Christmas lights and decorations automatically.

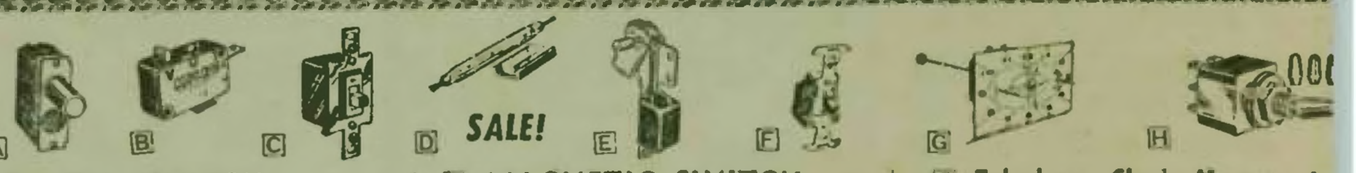
# TIME SWITCH



No. X-706
**$7.99**

★ Turns Appliances ON-OFF

Makes any radio a clock radio. Turns on and off coffee makers, lights, fans, etc., for as little as 15 minutes or as long as 23½ hours. Manual control for manual switching. Capacity 15 amps: 1650 watts. For 117 volts. AC only. Size: 5" W x 4" H x 2¼" D. Shpg. wt. 2¼ lbs. Made in U.S.A.



A B C D SALE! E F G H

## A MICRO SWITCH

Heavy duty Microswitch normally closed. 10 amp. 125 V AC, 5 amp. 250 V AC. Screw type terminals. Rugged heavy duty metal supported switch. Made in U.S.A. Shipping weight ¼ lb.

No. SW-208, 3 @ 25c Ea.
100 @ 20c Ea. ____ Ea. **29c**

## B MICRO SWITCH

Made in U.S.A. Normally closed micro switch miniature size 1" x ⅝" with solder terminals. Brand new individually packed. 10 amp at 125 Volts AC or 250 Volts AC. Shipping weight ¼ lb.

No. SW-205, 3 @ 33c Ea.
100 @ 25c Ea. ____ Ea **39c**

## C ELECTRONIC LIGHT DIMMER

Easily installed in place of any standard switch without wiring changes. 200 watt capacity for incandescent lamps only. Fused silicon diode rectifier control unit. With mounting hardware. 3 positions: bright, dim and off. Replaces existing switch. Made in U.S.A. Shipping weight ¼ lb.

No. SW 169 ____ **$1.97**

## D MAGNETIC SWITCH

For burglar alarms, position indicators. Contact rating: 15 watts resistive up to 1 amp up to 250 volts DC. Use with relay for heavier load. Shipping wt. ¼ lb. Write for special large quantity prices.

**SALE!** No. SW-229 $1.79 In 363 Cat. ____ **67c**

## E TRIGGER SWITCH

★ With Push-button Lock

Heavy duty. Used as original equipment in power tools made by Ram, Pet, Black & Decker, McGraw Edison, Porter, Cable & others. Switch rating is 10 amp at 125 v. or ½ HP at 125 volts. Size: 3⅝" x 1⅞". Shipping weight ½ lb.

No. SW-251, 3 for $2 ____ Ea. **80c**

## F DELAY SWITCH

Made in U.S.A.

Lights remain on for about 60 seconds, then turn off automatically. Easily installed like any regular switch. Ideal for use when you go to the car, etc. Shipping weight ¼ lb.

No. SW-179, 3 for $6 ____ Ea **$2.19**

## G Telechron Clock Movement

Made in U.S.A. Turns on TV set radios, phones and or other appliance at any pre-set time within a 12 hour period. Has sweep second hand. A 6 minute slumber switch, manual on-off switch. For 117 volts A.C. Size: 6¾" x 4" x 3". Less knobs. Shipping wt. 3 lbs.

No. X-879
3 for $11.50 ____ Ea. **$3.99**

## H SPDT Miniature Toggle Switch

1.5 amps. 125 V. Size: 1⅜" x ½" x ⅜" Shipping weight ¼ lb.

No. SW-211, 4 for $3.50 ____ Ea. **99c**

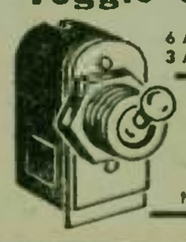
## H DPDT Miniature Toggle Switch

Same as above but DPDT.

No. SW-212, 3 for $3.75 ____ Ea. $1.3

Chet Radio & T.V., Howard C. Cocord, 419 Main St., W. Newbury, Mass. wins choice of merchandise worth 1 from Olson's "Treasure Hunt." See back cover for instructions.

## SPST Toggle Switch

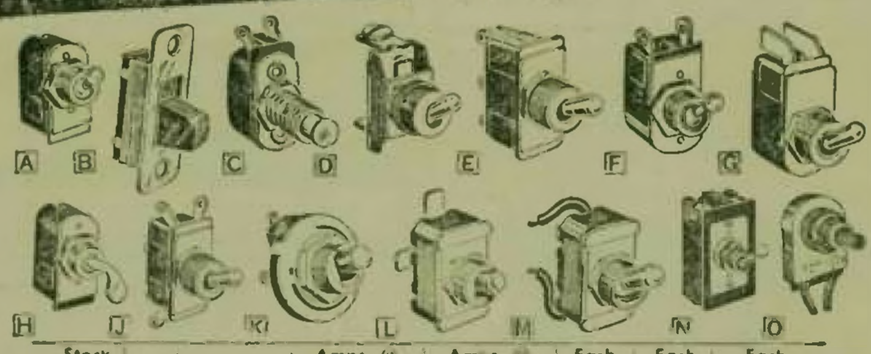


6 Amps @ 125 V.
3 Amps @ 250 V.
6 FOR **$1**
No. SW-256

# Carling SWITCHES

★ Heavy Duty AC and AC-DC.
★ U.L. Approved ★ Made in U.S.A.

A special purchase by Olson Electronics makes possible this variety of high quality switches at real money-savings prices. Heavy duty construction for dependable trouble free service made to the rigid specifications of this U.S.A. manufacturer. U.L. approved. Shipping weight 3 oz.



A B C D E F G H J K L M N O

| Stock No. | Fig. | Action | Amps. @ 125V. | Amps @ 250V. | Each 1-9 | Each 10-99 | Each 100-499 |
|---|---|---|---|---|---|---|---|
| SW-248 | B | SPST | | | .15 | .09 | .08 |
| SW-267 | B | SPDT | 4 | | .29 | .25 | .20 |
| SW-239 | B | SPST | 6 | 3 | .49 | .40 | .35 |
| SW-263 | B | DPDT† | 3 | 1 | .39 | .35 | .30 |
| SW-261 | C | SPDT‡ | 1 | | .39 | .35 | .30 |
| SW-264 | C | SPDT‡ | 1 | | .39 | .35 | .30 |
| SW-237 | C | SPST‡ | 1 | | .29 | .25 | .20 |
| SW-265 | C | DPST‡ | 1 | | .29 | .25 | .20 |
| SW-236 | D | SPST | 3 | | .29 | .25 | .20 |
| SW-244 | E | DPDT | 3 | 1 | .69 | .60 | .50 |
| SW-276 | E | SPDT | 3 | 1 | .49 | .40 | .35 |
| SW-247 | F | SPST | 6 | 3 | .39 | .35 | .30 |
| SW-242 | G | SPST | 6 | 3 | .39 | .30 | .25 |
| SW-243 | H | SPST‡ | 6 | 3 | .59 | .50 | .40 |
| SW-279 | J | SPDT | 6 | 3 | .69 | .60 | .50 |
| SW-270 | J | DPST | 6 | 3 | .69 | .60 | .50 |
| SW-241 | K | DPDT | 6 | | .79 | .59 | .50 |
| SW-245 | K | SPDT | 15 | 7½ | .48 | .40 | .35 |
| SW-277 | K | SPST | 3 | | .39 | .35 | .30 |
| SW-274 | K | SPDT | 15 | 7½ | .48 | .40 | .35 |
| SW-246 | L | SPST | 15 | 10 | .48 | .40 | .35 |
| SW-272 | M | SPDT‡* | 15 | 10 | .79 | .59 | .50 |
| SW-275 | M | SPDT* | 3 | | .59 | .50 | .40 |
| SW-278 | M | SPDT | 25 | 10 | .69 | .60 | .50 |
| SW-273 | M | DPDT* | 6 | 3 | .69 | .60 | .50 |
| SW-268 | M | DPDT‡ | 15 | 6 | .79 | .70 | .65 |
| SW-235 | M | SPST† | 15 | 10 | .48 | .36 | .30 |
| SW-259 | N | DPST | 12 | 6 | .39 | .35 | .30 |
| SW-257 | O | SPST | 3 | 1 | .29 | 25 | .20 |

‡ Indicates momentary action * Indicates wire leads †† momentary one way
* Indicates center-off ** Indicates one terminal to mounting lug

# Automatic NIGHT LIGHT Switches

★ Turns Lights On and Off Automatically at Dusk and Dawn
★ Keeps Prowlers Away at Night When Occupants are Away

# PHOTO-EYE



No. SW-203
**$3.66**
3 for $10.50

Turns lights, signs, appliances and displays on and off at dusk and dawn automatically. Keeps prowlers away from your home when you are away by turning lights on at night. Size: 3½" x 2⅝" x 1½". For 117 volts A.C. Cap. 300 watts. Shipping weight ½ lb.

Fisher-Pierce
# NIGHT LIGHTER

Made In U. S. A.



No. X-638
**$11.08**

Turns on lights or signs at dusk and off at dawn. Just plug Nightlighter into 115 volt AC socket and plug appliance into Nightlighter adaptor cord. Max. load 300 watts. Shipping weight 4 lbs

GE—Telechron—International Register
## Automatic TIME SWITCH



★ 25 AMP. CONTACTS
No. SW-249
**$1.99**

On-Time is adjustable in intervals of 15 minutes up to 5½ hours. Size of basic timer mechanism is 4½" x 3¼". Size and style of face plate may vary from illustration. Switch contacts are rated at 25 amps at 230 volts. Motor is for 110-125 volts AC 60 cps. Less knobs. Shipping weight 2¼ lbs.

Veeder—Root
## Deluxe TIMER SWITCH



No. SW-253
**$2.99**

This deluxe timer switch can be used for hundreds of timing applications. Timer will turn-on at any pre-set time and remain on for durations up to 6 hours. On-Time is adjustable in 15 minute intervals. Clock face is finished in handsome brushed brass. Use to turn on and off any electronic equipment automatically. Size: 3½" x 3½" x 3". (less Knobs). Contact rating 25 amps. at 230 v AC. Motor 110 to 125 volts AC 60 cps. Shipping weight 3 lbs.

## Read-Out COUNTER



★ 24 V. DC Solenoid
★ Large Numerals

X-918
**$1.50**
Lots of 4, Ea. $1.25

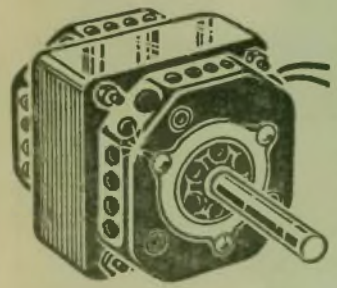
Ideal for industrial counting operations, score boards, assembly line counting, etc. Ruggedly built for continuous operation in computers. Large numbers 0 thru 9 are painted on a drum which is rotated by a solenoid. Each number is ¾" high so that it can easily be read at a glance. Size: 3⅝" x 1⅞" x 1½". Shpg. wt. 2 lbs.

# *Sensational* SURPLUS BARGAINS

General Industries

## 4 Pole MOTOR

★ 117 Volt AC.
★ Quiet-Smooth Running



No. MO-109
**$3.49**

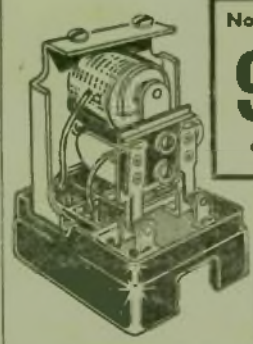
Shaded pole induction type motor. Has plenty of power for all sorts of devices . . . quiet fans, tape recorder mechanisms, record turntables, displays, etc. ⅝" dia. shaft. Oilite bearings, 1750 RPM. For 110 to 120 volts A.C. 60 cps. Size: 2⅝" x 2⅝" x 2¾". Shipping weight 5½ lbs.

★ OILITE BEARINGS

Potter & Brumfield

## DPDT RELAY

★ 6-12 V. DC Coil
★ 10 Amp. Contacts



No. SW-282
**99¢**
6 FOR $5

Rugged power switching relay operates on 6 or 12 volts DC. Has 10 AMP. D.P.D.T. contacts. Mounted in metal container to seal out dust and dirt. Relay contacts and coil connections are brought out to screws at rear of relay for easy connection.



ENTIRE RELAY IS MOUNTED IN STURDY METAL CONTAINER



KIT OF 4 **$1**
No. R-72

IRC 4.7 PLUG-IN RESISTORS. Shipping weight ¼ lb.



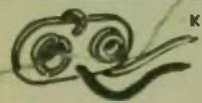
KIT OF 5 **$1**
No. AS-856

5 PIECE HANDLE KIT plastic and leather. Shipping weight ½ lb.



KIT OF 5 **$1**
No. AS-857

AC CHASSIS SOCKETS, requires 1⅛" mtg. hole. Shipping weight ½ lb.



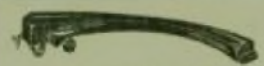
KIT OF 4 **$1**
No. BA-98

BATTERY SNAPS, fits popular 9 V. transistor batteries such as Burgess 2U6, and many others. Shipping weight ¼ lb.



No. ME-123 **$3.98**

GIANT 4½" FULL-VIEW METER, 0-1 MA. Made in U.S.A. Has 0-100 scale plus BAD — ? — GOOD scale. Shipping weight 1 lb.



No. RP-268 Kit of 3 . . . **$1**

VM CHANGER ARMS. Replacement arms for popular VM changer. Less cartridge. Shipping weight ¼ lb.



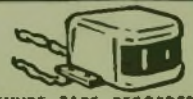
No. RP-264 **$2.99**

SHURE TAPE RECORDER HEAD. Model No. TR-15. High impedance, ½ track, record and playback head. Shipping weight ½ lb.



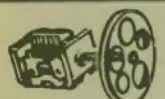
**$3.99** No. RP-266

SHURE TAPE RECORDER HEAD. Model No. TR-5Y Upper track, record playback and erase head. High impedance. Shipping weight ¼ lb.



**$2.99** No. RP-265

SHURE TAPE RECORDER HEAD. Model No. 1502. Full track, record playback and erase heads. High impedance. Shipping weight ½ lb.



KIT OF 2 **$1**
No. C-177

SUPERHET VARIABLE CONDENSER. Ball-bearing rotor and built-in trimmer. Size: 1½ x 1⅛ x 1¼ plus shaft. Shipping weight ¼ lb.



No. X-937 **99¢**

SOLENOID. For 117 volts AC. Armature travel ⅛". Armature rotates counter clockwise ¼" as it pulls in. Shipping weight 2 lbs.

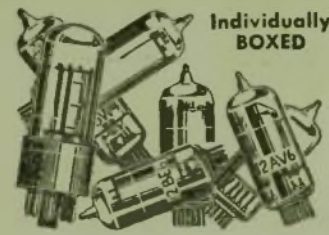


No. RP-238 **$5**

COLUMBIA RECORD ALBUM. Five 12" LP Stereo Records. 58 popular songs from Broadway Hits. Shipping weight 4 lbs.

# TUBE BARGAINS

★ *Famous Brands*



Individually BOXED

| TUBE TYPE | ORDER STOCK NO. | PRICE EACH |
|---|---|---|
| 0A2 | Z-312 | $ .75 |
| 1AG5 | Z-317 | 1.00 |
| 1L6 | Z-293 | 2.00 |
| 1K3 | Z-308 | .69 |
| 1U4 | Z-291 | 1.00 |
| 1U5 | Z-314 | .59 |
| 2AF4 | Z-286 | 1.25 |
| 3A15 | Z-326 | .39 |
| 3DC5 | Z-278 | .59 |
| 3CB6 | Z-304 | .49 |
| 3DT6 | Z-313 | .49 |
| 3V4 | Z-296 | .79 |
| 4DC5 | Z-309 | .79 |
| 4DT6 | Z-294 | .79 |
| 5AN8 | Z-319 | .79 |
| 5AV8 | Z-300 | 1.25 |
| 5AT8 | Z-286 | .79 |
| 5EA8 | Z-299 | 1.00 |
| 5U8 | Z-292 | .79 |
| 5Y3 | Z-307 | .39 |
| 6AH6 | Z-279 | 1.00 |
| 6AN8 | Z-311 | .79 |
| 6AU5 | Z-276 | 1.50 |
| 6AU6 | Z-287 | .59 |
| 6BQ5 | Z-283 | .49 |
| 6CL8 | Z-281 | .89 |
| 6CM7 | Z-320 | .69 |
| 6SF5 | Z-327 | 1.25 |
| 6SL7 | Z-324 | .79 |
| 7F7 | Z-290 | 2.75 |
| 8AW8 | Z-280 | 1.20 |
| 8CM7 | Z-277 | 1.00 |
| 10DE7 | Z-305 | 1.20 |
| 12AU6 | Z-301 | .44 |
| 12AU7 | Z-306 | .69 |
| 12AX7 | Z-303 | .59 |
| 12BE6 | Z-323 | .33 |
| 12BF6 | Z-310 | .79 |
| 12SK7 | Z-322 | 1.25 |
| 17AX4 | Z-282 | .59 |
| 17DQ6 | Z-295 | 1.00 |
| 19T8 | Z-285 | 1.00 |
| 25CD6 | Z-297 | 1.25 |
| 25DN6 | Z-316 | 1.50 |
| 25Z6 | Z-321 | 1.00 |
| 35C5 | Z-284 | .39 |
| 35W4 | Z-259 | .42 |
| 50L6 | Z-302 | .59 |
| 117Z3 | Z-315 | 1.60 |
| 7189 | Z-298 | 1.00 |
| EF-86 | Z-318 | 1.00 |
| EM-84 | Z-325 | 1.00 |

# TECHNICAL BOOKS

**RCA TUBE MANUAL.** Latest edition. 480 pages. 880 receving tubes plus 200 picture tubes.
No. B-275 — $1

**HWS MAGNETIC RECORDING FOR THE HOBBYIST.** How to record from phonographs, copying old records, how to record broadcasts and many more.
No. B-287 — $2.50

**HWS 101 USES FOR OSCILLOSCOPE.** By Robert G. Middleton. Covers the many possible uses of the osc lloscope 180 pages. Size 5½"x11"
No. B-277 — $2.50

**HWS 101 USES FOR VOM-VTVM.** By Robert G. Middleton. Over 150 illustrations. 116 pgs.
No. B-278 — $2.00

**HWS 101 MORE WAYS TO USE YOUR VOM-VTVM. TEM-8.** By Robert G. Middleton. This is a sequel to book TEM-2 (above) and stresses the proper interpretation of observed wave forms. Illustrated. 160 pages.
No. B-279 — $2.50

**HWS TUBE SUBSTITUTION HANDBOOK. TUB-6** 96 pages of substitutions for American, industrial European receiving, picture tubes.
No. B-271 — $1.50

**HWS TRANSISTOR SUBSTITUTION HANDBOOK VOL. SSH-4.** 6500 Direct Substitutions. 668 U. S. Substitutions for Japanese Transistors. 530 Semiconductor Diode Substitutes.
No. B-273 — $1.50

**HWS HOW TO READ SCHEMATIC DIAGRAMS.** Contains all types of schematic symbols and diagrams including tubes, transistors, capacitors, resistors, microphones, etc. 96 pages.
No. B-280 — $1.50

**HWS TV SERVICING GUIDE BY SYMPTOMS.** Explains trouble shooting techniques based on analysis of symptoms. 132 pages. 8½" x 11".
No. B-281 — $2.00

**HWS ABC'S OF TRANSISTORS. TRA-1.** By George B. Mann. Construction, basic circuits, temperature considerations, training and servicing procedures. Illustrated, 96 pages.
No. B-282 — $1.25

**HWS UNDERSTANDING CAPACITORS AND THEIR USES. CAP-1.** A 96 page book that makes it easy to understand capacitors.
No. B-274 — $1.95

**HWS CITIZENS BAND RADIO HANDBOOK.** By D. E. Nicks. For the service technician who installs and maintains CB gear, as well as for anyone who uses CB equip. 160 pages.
No. B-283 — $2.95

**SP RADIO SERVICING COURSE.** A practical radio training course for home study. The course covers basic electricity, including ohms law, coils, transformers, etc.
No. B-285 — $2.50

**SP TELEVISION SERVICING COURSE.** A complete home study course covering the basic essentials of TV servicing.
No. B-284 — $3.00

**IR PHOTO & SOLAR CELL HANDBOOK.** 112 pages of charts, data, and projects.
No. B-272 — $2.00

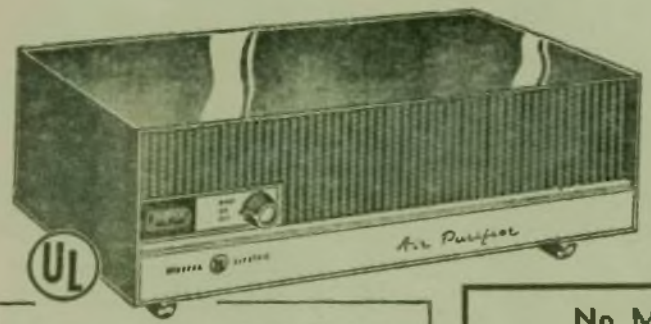
**GERNSBACK 112 LEARN ELECTRONICS BY BUILDING.** A complete electronic course in easy learn-by-doing form. From basic components to complete circuits.
No. B-286 — $3.85

**GE TRANSISTOR MANUAL.** New 6th edition includes theory and specifications.
No. B-276 — $2.00

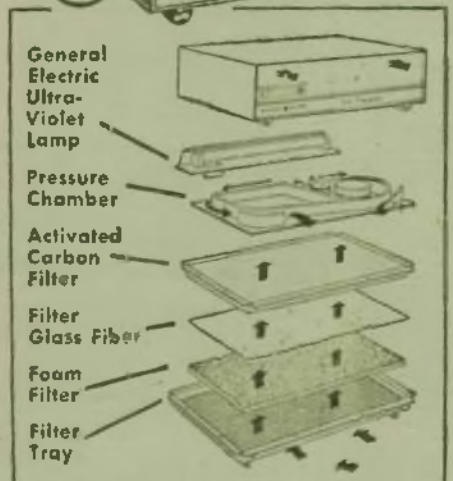
# Gifts for the Home!

## Portable AIR PURIFIER

**Removes Smoke, Odors, and Air-Borne Particles**




- ★ HEAVY DUTY FOAM FILTER
- ★ ACTIVATED CHARCOAL
- ★ 18" ULTRA VIOLET LAMP




Air enters at the bottom, passes through the three filters, is exposed to the ultra violet rays, and is blown into your room clean and fresh.

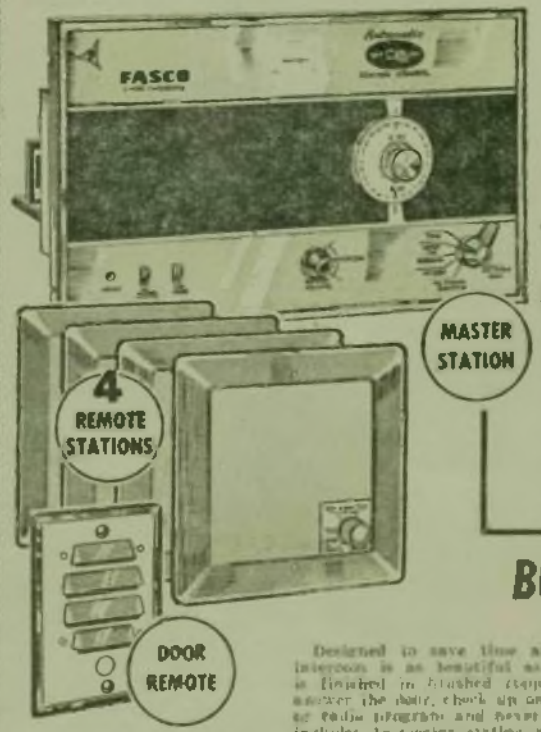
**No. MO-111**

**$19.99**

Wonderfully effective, stream-lined air purifier helps remove pollen, dust, smoke, and odors from the air; makes life more comfortable for allergy sufferers. A heavy-duty, washable foam filter removes most dust and dirt from the air passing through than a superfine fiber glass filter, removes smoke and other airborne particles down to approximately 1/1,000,000th of an inch. At least 90% of all household odors are actually removed from the air. After passing through this super-efficient filter system, the air is exposed to the rays of a General Electric 18-inch ultra-violet lamp. A quiet, but powerful 5-inch blower pulls 44 cubic feet of air every minute. Shipping weight 24 lbs.

## FASCO FM-AM RADIO INTERCOM SYSTEM

Model 8406




**ALL STATIONS CAN INITIATE A CALL**

- ★ Phono Jack
- ★ 5 Remote Stations
- ★ Hardware & Wire Included

**No. AS-832**

**COMPLETE SYSTEM**

**$99.99**

**$10 MONTHLY**

Lots of 3, ea. $91.85

## BUILD INTO WALL

Designed to save time and energy. This custom crafted radio-intercom is as beautiful as it is functional. Master station panel is finished in brushed copper to blend with any decor. You can answer the door, check up on the baby, listen to your favorite records or radio program and never leave your work area. Complete system includes 1—master station with FM-AM radio and phono jack, 4—indoor remote stations with selector switches and one door remote station plus all hardware, wire and complete instructions. Master can call all remotes or play radio or phono through remotes. Remotes can call master or other remotes and can also answer door remote. Each remote is equipped with a hi-lo volume and selector switch. Radio features vernier tuning dial for easy tuning. All wiring is color coded and requires no soldering. Exclusive "Automatic Station Control" eliminates the complicated switching arrangements found on most radio intercoms. Remote stations may be operated as private or non-private units depending upon the setting of the selector switch. Size: Master, 15⅝"x10¼"x4". Indoor remotes: 8"x8"x1½". Outdoor remote 6"x4"x1½". For 110-125 v. AC, 60 cps. Shipping weight 26 lbs.

# JENSEN CAPACITORS

## Made In Denmark

Made in Denmark by Jensen's colonies of craftsmen who are proud to produce precision capacitors to exacting specifications. Every bit of insulation is the finest. Every processing standard is painstakingly maintained. Sealed in tubular aluminum cases and insulated overall with colored transparent plastic jacket. Equipped with long tinned leads. Average shipping weight each ½ lb.

### 450 VOLT
Withstands 500V Surges



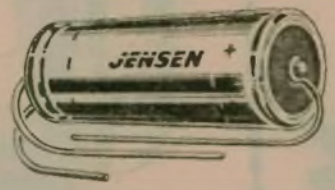

**20 MFD**
1¾" long x ⅞" dia.
6 for $3
No. C-152 EA. **52¢**

**40 MFD**
2⅜" long x 1" dia.
5 for $3
No. C-153 EA. **79¢**

**80 MFD**
2½" long x 1¼" dia.
4 for $3
No. C-154 EA. **99¢**

**200 VOLT** Withstands 225V Surges
200 MFD, 2⅜" long x 1" dia., **99¢**
No. C-155, 4 for $3 EA.

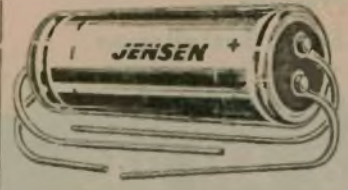
### DUAL
### 450 VOLT
Withstands 500V Surges




**20-20 MFD**
2⅜" long x 1" dia.
No. C-156
3 for $2
EACH **79¢**

**40-40 MFD**
2¾" long x 1¼" dia.
No. C-157
4 for $3
EACH **99¢**

### TRIPLE
### 450 VOLT
Withstands 500V Surges

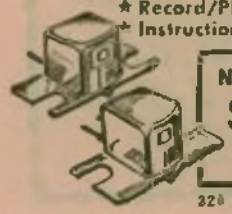



**20-20-20 MFD**
2⅜" long x 1¼" dia.
No. C-158
4 for $3
EACH **99¢**

**40-40-40 MFD**
3" long x 1⅜" dia.
No. C-159
3 for $4
EACH **$1.39**

## TAPE RECORDER HEADS

★ Record/Play & Erase
★ Instructions & Hardware



No. TA-111
**$4.45**

A two-piece set consisting of one record/playback and erase head. Ideal replacement element for battery operated and many AC operated recorders. Specifications: Record/Play: ½ track, DC Res. 600 ohms, Impedance 3500 ohms. Bias Current 0.2 ma. Erase: 220 ohms. Erase current 4 ma. Shpg. wt. ¾ lb.

## WESTON 0-1 MA. METER

★ 2½" Dia. Model 506

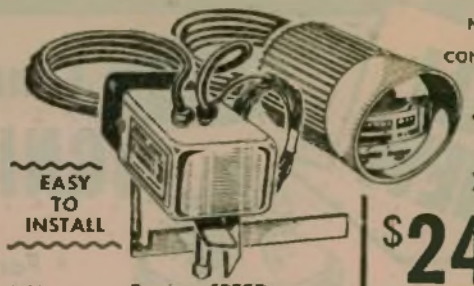


No. ME-122
**$3.98**

Genuine Weston Meter. Model Number 506. Scale 0 to 1 ma. Internal resistance 50 ohms. By adding appropriate resistors you can make any range you like you need. Mounts in ½" round hole. Shipping weight 1 lb.

## Electronic
## Miles Per Gallon Computer

*Calculates Relative MILES PER GALLON!*



★ NO GAS LINE CONNECTION

EASY TO INSTALL

No. X-933
**$24.50**

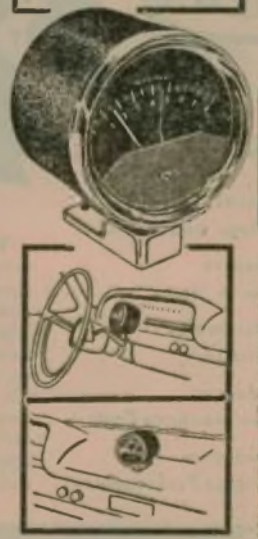
★ Measures Engine SPEED

An all-electronic instrument engineered to be a guide to fuel economy. Measures relative miles per gallon at all speeds. Gives constant visual indication of optimum operating efficiency. Guides you to the economy of smooth acceleration, proper cruising speed, the best gas for your car. Easy-to-read, illuminated indicator mounts above dash. Simple installation, only three wires to connect. Complete with cable and instructions. For 12 volt negative ground systems. Shipping weight 3 lbs.

**ACROTACH**

## Transistorized TACHOMETER

★ Illuminated Dial
★ Universal Mounting
★ Adjustable Set-Pointer



No. X-941
**$19.95**

This precision-built tachometer indicates engine speed instantly and accurately. Jewel bearing D'Arsonval meter and modern, zener regulated transistor circuit provide reliable, troublefree performance. Die-cast housing is finished in non-reflecting black, offset with a gleaming chrome bezel. Adjustable reference pointer can be set for correct shifting speed or maximum safe RPM. Works with regular and distributor ignition systems, magneto and transistor ignition systems. Does not affect ignition system performance. Complete with all hardware and instructions. For 12 volt, negative ground systems. Shipping weight 1 lbs.

# Here's A Gift For AUTO OWNERS!



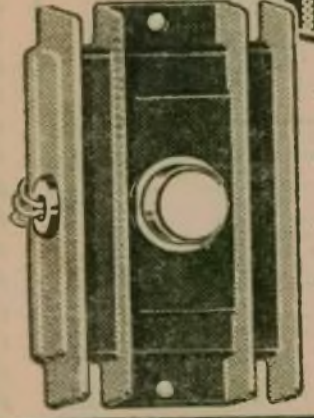
ALL NEW

## Olson Transistor IGNITION SYSTEM

★ For All 6 and 12 Volt Negative Ground Systems

★ New—Easier Installation





No. AM-243

$17.99

★ Saves Gas, Plugs and Points

★ Insures Quick Starts

★ Eliminates Misfire

★ Reduces Maintenance Costs

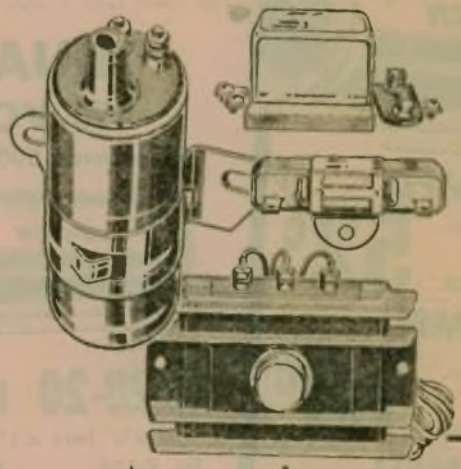
★ Improves Engine Performance

For quick, easy installation on 6 volt or 12 volt negative gound cars which have a ceramic ignition ballast resistor mounted in the engine compart. This system is also recommended for boats, farm and industrial equipment. This advanced type ignition system will save you money in gas and tune-up costs, and most of all, it will give your engine that "just-tuned" performance every day. Features single transistor and heavy duty coil for most efficient operation. Neoprene coated wires resist oils, acids, heat and weather. Shipping weight 5 lbs.



## Olson Deluxe Transistor IGNITION SYSTEM

★ For All 12 Volt Negative Ground Systems



★ Heavy Duty Primary Relay

★ Easy Installation

★ High Voltage 15 Amp Transistor 400: 1 Ratio Coil

★ Molded Ceramic Resistor

★ All New Deluxe Model!

No. AM-244

$24.98

This deluxe transistor ignition system is recommended for use on all 12 volt negative ground systems. The heavy duty primary relay eliminates by-passing or rewiring of present ignitionn switch circuit. This makes installation particularly easy on cars which have the ignition resistance wire built into the wiring harness. Only two wires need to be changed from original wiring. Features a single high voltage 15 ampere transistor for more reliable operation. Heavy duty 400:1 ratio coil has extremely low primary resistance which reduces coil temperature. Universal mounting bracket can be used with any car. Neoprene covered wires resist oils, acids, heat and weather. Shipping weigh 6 lbs.

# Semi-Conductor & Quality Parts BARGAINS

## TRANSISTORS

BRAND NEW!

*Made By A Leading U.S.A. Manufacturer!*



BAG OF 10 NO. TR-21 — YOUR CHOICE $1 — BAG OF 15 NO. TR-22



**PNP High Frequency AUDIO**

SAVE $2 — $8

*10 BAGS (100 Transistors)*

Brand new, first quality transistors with full length leads. Ideal for experimental and replacements needs in high frequency audio circuits. Replaces many popular numbers without circuit changes. These transistors are made by one of the leading U. S. manufacturers. Shipping wt. 2 lbs.

**PNP General Purpose AUDIO**

SAVE $2 — $8

*10 BAGS (150 Transistors)*

These first quality audio transistors will work in most audio circuits as replacements or use them for 90% of experimental audio applications. Replaces many popular numbers without circuit changes. All are brand new with full length wire leads. Shipping weight 2 lbs.

---

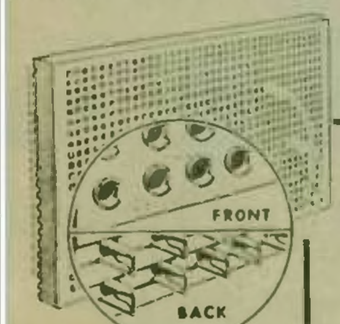
Here's a real "TOP VALUE" for the experimenter or serviceman. Each printed circuit board is made in U.S.A. and loaded with highest quality, standard brand, precision parts! Includes: PNP and/or NPN transistors, 5% resistors, glass diodes, ceramic capacitors, etc. Standard brand names included are: Sprague, General Transistor, Sylvania, General Electric, Pyramid, and others.



**6 TRANSISTORS (PLUS) 50 PARTS** — No. X-911 ALL FOR $1.50

**12 TRANSISTORS (PLUS) 60 PARTS** — No. X-912 ALL FOR $2.50

**20 TRANSISTORS (PLUS) 80 PARTS** — No. X-913 ALL FOR $6




## PATCH BOARD

No. PL-88 — $1.69 — 3 for $4.50

700 jacks to a board. Jacks take standard pin plugs. Heavy 3/16" board. Jacks are on 1/4" centers. Set up experimental circuits instantly. An excellent item for the experimenter, engineer, student, etc. for multiple connection. Single conductor patching of test circuits. Patch board is 10 1/4" x 8". Shpg. wt. 4 lbs.

---

## Semi-Conductor ASSORTMENT

★ Diagrams Included



$2.98 No. RE-82

Here's an Olson "Top-Value" for experimenters and hobbyists. Kit contains 11 semi-conductor devices including 1 controlled rectifier, 1 transistor, 8 diodes, and 1 silicon solar cell. Diagrams are included to make the following: Audio oscillator, transistor preamplifier, photo cell light meter, photo electric relay, power supplies, automatic tachometer, and many others. Shipping weight 1/2 lb.

## Modular TUBE STACK



No. RA-454 — Ea. 19c — 6 for $1 — Stack Less Tubes

May contain diodes, capacitors, etc. Units may vary. Used. Shipping weight 1/2 lb.

Miller Radio & TV, 412 W. Lincoln Ave., Fergus Falls, Minn., wins choice of merchandise worth $5 from Olson's "Treasure Hunt." See back cover for instructions.

## FERRITE BAR ANTENNA COILS

★ KIT OF 3



Replaces most antenna coils in transistor radios. Size: 2 1/4" x 1/2", 2 3/4" x 5/8", and 3 1/4" x 3/8". Shpg. wt. 3/4 lb.

No. 1-82 — 79c

## FERRI-TENNA



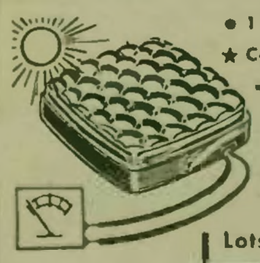
71c — No. L-73 — 2 for $1 — Lots of 100 Ea. 35c

Use with any 360-410 MMF variable condenser. Coil tapped for properly matching transistor instructions Shipping weight 1/4 lb.

---

XOR INTERNATIONAL RECTIFIER

## SILICON CAPSULE



● 1 V @ 10 to 16 MA

★ Color Coded Leads

No. RE-51 — $3.99 — 3 for $10 — Lots of 12, ea. $3

Each capsule contains 5 cells already connected in series and ready to deliver .5 to 1 volts @ 10 to 16 MA depending on brilliance of sun. Size: 1 1/8" x 1 1/8". Shipping wt. 1/2 lb.

## SELENIUM CELLS



● 5 Volts @ 1-2 M.A.

● 5" Colord Coded Leads

No. RE-50 — 69c — 3 for $2 — 12 for $6.95 — Lots of 100, Ea. 59c

Gives up to .5 volts to 2 MA. in average sunlight. Size: 1 1/8" x 3/8". Shipping weight 1/4 lb.

## SOLAR CELL KIT



8 assorted selenium photo cells. Output from 1/2 to 1/2 volts. Current output from 250 micro-amps to 5 MA. Made by International Rectifier. Shpg. wt. 1/4 lb.

No. RE-77 — KIT OF 8, $1.98

## 365 MMFD Variable CAPACITOR



3/4" square, with short shaft and 1 3/4" dia. transparent engraved dial. Shipping weight 1/4 lb.

No. C-861, 3 for $2 — 81c

## Miniature Volume Control With Switch

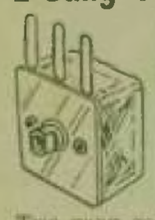


For transistor circuits. Complete with switch and knob. Shipping weight 1/4 lb.

5,000 Ohm, VC-258, 4 for $3.50, ea. 99c

10,000 Ohm, VC-259, 4 for $3.50, ea. 99c

## 2-Gang Variable Condenser



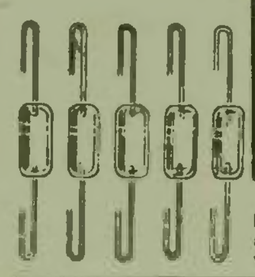
No. C-995 — $1.49 — 3 for $4.00

Two gang variable condenser for superbet transistor radios. Use for replacement or new construction. Can be used in printed circuit board or standard wiring. Size: 15/16" x 1 3/16" x 1/2" long. Shipping weight 1/4 lb.

---

# 88c TRANSISTOR - DIODE BARGAINS!

## GERMANIUM DIODES



No. DI-18 — 10 FOR 88c

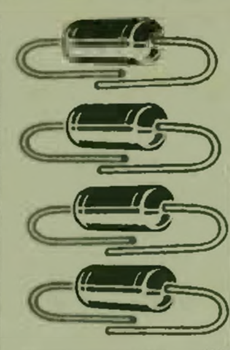
Replaces 1N34, 1N34A, 1N60 and 1N51. Shp. wt. 1/4 lb.

## SILICON DIODES



No. DI-19 — 6 FOR 88c

Replaces general purpose types 1N34, 1N34A, 1N51, 1N456, 1N625, 1N482, etc. Forward current 100 MA. Reverse current 25 UA. Shipping weight 1/4 lb.



## 500 MA Silicon DIODES

★ RMS 280 Volts

★ PIV; 400 Volts

Shpg. wt. 1/4 lb.

No. RE-76 — 4 FOR 88c

## TOP HAT Silicon Diode

★ 500 MA

★ RMS 280 Volts

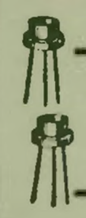
★ PIV; 400 VOLTS

Shpg. wt. 1/4 lb.



No. RE-73 — 3 FOR 88c

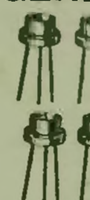
## SYLVANIA 2N233 NPN RF AMPLIFIER TRANSISTORS



No. X-802 — 2 FOR 88c

Similar to General Transistor GT-229, G. E. 2N170 and Sylvania 2N229. Shipping weight 1/4 lb.

## GENERAL PURPOSE



No. TR-16 — 4 FOR 88c

Pkg. of 4 PNP junction transistors similar in characteristics to GE 2N-107. A high quality transistor at a low price suitable for experimenters and hobbyists. Shipping weight 1/4 lb.

---

## POWER TRANSISTORS



69c — 3 for $2.00 — Lots of 100, Each 59c — Shpg. wt. 1/4 lb.

**No. TR-13 Low Wattage Type**

A general replacement for low wattage types such as —2N176, 2N178, 2N179, 2N256, 2N257, TS176.

**No. TR-14 Med. Wattage Type**

A general replacement for medium and low wattage types such as—2N155, 2N156, 2N250, 2N250, 2N301, 2N301A, 2N307, 2N328, 2N350, 2N350A, 2N351, 2N351A, 2N376, 2N376A, 2N554, 2N555, CTP 1104, CTP1108, CTP1109, CTP1117, CTP1137.

**No. TR-15 High Wattage Type**

A general replacement for high, medium and low wattage types such as—2N176R, 2N176G, 2N234, 2N234A, 2N235, 2N235A, N235B, 2N236, 2N236A, 2N236R, 2N242, 2N285, 2N285A, 2N307A, 2N352, 2N353, 2N398, 2N400, 2N401, 2N668.

Motorola

**Power Transistor MOUNTING KIT**

No. X-773 — 4 for 99c



## PNP Audio TRANSISTOR

No. TR-12 — $1.99 — 3 for $5

2N172, 2N174, 2N277, 2N278, 2N441, 2N442. Shpg. wt. 1/4 lb.

## TRANSISTORS

YOU CAN RELY ON **RCA Quality**



| Stock No. | RCA No. | Description | Net Each |
|---|---|---|---|
| X-745 | 2N412 | Mixer-oscillator | 89c |
| X-748 | 2N408 | Audio Output | 66c |
| X-746 | 2N410 | I. F. Amplifier | 84c |

**INDUSTRO TRANSISTORS**

| Stock No. | RCA No. | Description | Net Each |
|---|---|---|---|
| X-857 | 2N633 | Audio Output | 88c |
| X-858 | 2N482 | I. F. Amplifier | 88c |
| X-859 | 2N485 | Mixer-oscillator | 88c |

## TRANSISTORS

★ MATCHED SET OF 6 Plus one diode

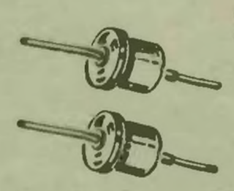


No. TR-20 — PER SET . . . $1.99 — 3 Sets, $5.50

Consists of: 1—mixer, 2—IF's, 1—driver and 2 output PNP transistors. Plus diode. Shipping weight 1/4 lb.

## ZENER DIODES

These zener diodes are suitable for applications such as voltage references, voltage regulated power supplies, transistor bias, voltage switches for non-sensitive relays, transient absorbers for meters and other circuits, and other applications where the operating current range is always greater than the test current listed.



**1 WATT** Your Choice $1.19 PAIR

| Stk. No. | Nom. Voltage | Test Current M.A. |
|---|---|---|
| RE-85 | 4.7 volt | 40 M.A. |
| RE-86 | 4.7 volt | 30 M.A. |
| RE-87 | 10 volt | 20 M.A. |
| RE-88 | 15 volt | 13 M.A. |
| RE-89 | 22 volt | 9 M.A. |
| RE-90 | 30 volt | 5 M.A. |

**10 WATT** Your Choice $1.39 PAIR



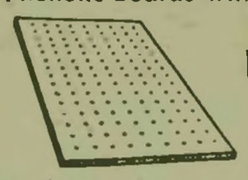
| Stk. No. | Nom. Voltage | Test Current M.A. |
|---|---|---|
| RE-91 | 4.7 volt | 400 M.A. |
| RE-92 | 6.8 volt | 300 M.A. |
| RE-93 | 10 volt | 200 M.A. |
| RE-94 | 15 volt | 140 M.A. |
| RE-95 | 22 volt | 90 M.A. |
| RE-96 | 30 volt | 60 M.A. |

---

# Olson PERF-BOARD

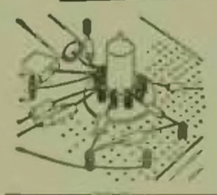
COMPLETE—Fast and Simple To Use—Solderless Breadboard Circuit Components

BUILD, DESIGN, CONSTRUCT RAPIDLY—Experimental or Permanent Electronics Circuits. Accepts OLSON Miniature Components (at right) for rapid set-up. May be easily cut with saw, to size you desire. Phenolic Boards with 3/32" holes punched on .265 centers, 1/16" thick. Shipping weight 1/2 lb.



## UNCLAD PERF-BOARD

★ For Experimental & Design

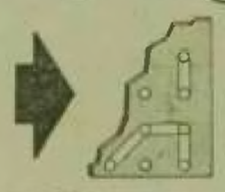


| No. | Size | (Punched) Ea. | 3 for | Olson's Low Price Lots of 100 Ea. |
|---|---|---|---|---|
| K-116 | 3 3/16" x 6 7/8" | .43 | 1.20 | .35 |
| K-118 | 6 7/8" x 9 3/16" | 1.00 | 2.85 | .90 |

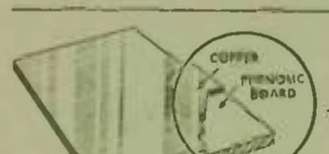



## Copper Clad Perf-Board

★ For Design of Printed Circuits



| No. | Size | (Punched) Ea. | 3 for | Olson's Low Price Lots of 100 Ea. |
|---|---|---|---|---|
| K-120 | 3 3/16" x 6 7/8" | .53 | 1.50 | .48 |
| K-122 | 6 7/8" x 9 3/16" | 1.50 | 4.00 | 1.20 |




## Copper Clad Board

★ For Making Your Own Printed Circuits



| No. | Size | (Unpunched) Ea. | 3 for | Olson's Low Price Lots of 100 Ea. |
|---|---|---|---|---|
| K-124 | 3 3/16" x 6 7/8" | .43 | 1.20 | .38 |
| K-126 | 6 7/8" x 9 13/16" | 1.35 | 4.00 | .90 |

## Etchant Solution

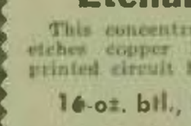
This concentrate, mixed with water, etches copper laminated surfaces on printed circuit boards.

16-oz. btl., No. X-919 — $1.25

## TAPE RESIST

Use to protect areas of printed circuit board from etchant. 3/4" x 320".

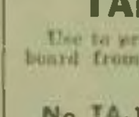
No. TA-16 — 75c



## 7-Pin Tube Socket

Binding posts premounted. With mounting hardware.

No. HW-41 — 99c



## Transistor Socket

Binding posts premounted. With mounting hardware.

No. HW-45 — 99c

## ALLIGATOR CLIPS With Jacks

★ KIT OF 10



Color coded 5 red—5 black. 1 1/4" long. Shpg. wt. 1/4 lb.

No. HW-32 — 99c

## SPADE LUGS With Jacks

★ KIT OF 10



Color coded 5 red—5 black. 15/16" long. Shpg. wt. 1/4 lb.

No. HW-33 — 99c

## BINDING POSTS With Jacks

★ KIT OF 10



Color coded 5 red—5 black. 3/4" long. Shpg. wt. 1/4 lb.

No. HW-34 — 99c

## BANANA PLUGS

★ KIT OF 10



Color coded 5 red—5 black. 15/16" long. Shpg. wt. 1/4 lb.

No. HW-35 — 99c

## SPRING TYPE Banana Plugs

★ KIT OF 10



For quick and easy connections. 1 1/2" long. Shipping weight 1/4 lb.

No. HW-36 — 99c

## Volume Control Holder

★ KIT OF 10



Right angle bracket with 2 mounting holes. 1 1/4" H x 1" W. Shpg. wt. 1/4 lb.

No. HW-37 — 99c

## Banana Plug CORD SETS

★ Kit of 10 Sets



15" wire with plug on each end. 10 different colors. Shipping weight 1/2 lb.

No. HW-42 — $1.49

Banana Plug Cord Sets No. HW-38 — Same as above but with 6" wire — $1.49

## OCTAL SOCKET



Binding posts premounted. With mounting hardware. Shipping weight 1/4 lb.

No. HW-40 — $1.19

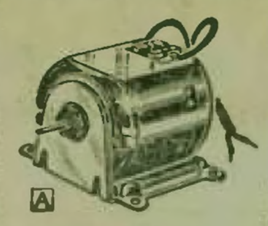
## 9-Pin Tube Socket



Binding posts premounted. With mounting hardware. Shpg. wt. 1/4 lb.

No. HW-39 — $1.29

# Miniature HOBBY MOTORS



★ Oilite Type Bearings

★ Reversible

These high torque, miniature motors are perfect for all kinds of hobby applications. Because of their high efficiency and small size they are ideal for racing cars, boats and many other working models. All have permanently lubricated bearings. Threaded mounting hole on bottom of case makes mounting to any surface easy. Shipping weight ¼ lb. Write for special large quantity prices.



A 3 to 4 volts DC. Current (no load) .190 amp. Torque 9.92 gr./cm @ 8100 RPM. With 1½"x1¼" mounting stand. ⅛" dia. shaft. MO-106, 3 for $2.00 ____ Ea. **79c**



B 3 to 4 volts DC. Current (no load) .190 amp. Torque 9.92 gr./cm @ 8100 RPM. ⅛" dia. shaft. MO-105, 5 for $3.00 ____ Ea. **69c**



C 1.5 to 3 volts DC Current (no load) .210 amp. Torque 6.41 gr /cm @ 5900 RPM. ⅛" dia. shaft. MO-104, 3 for $1.25 ____ Ea. **49c**



MADE IN U.S.A.

## Heavy Duty BLOWERS

★ TORRINGTON FANS

★ HIGH SPEED MOTORS

Ideal for ventilating or cooling all types of electronic equipment such as ham gear or commercial broadcast equipment. Write for special large quantity prices.

### HEAVY DUTY BLOWER

★60 Cubic Ft. Per Min.

For use where continuous circulation of air with minimum noise is required. Two pole, Shaded-pole motor for cool, efficient, continuous duty. Size: 6½" x 6". 110-125 v. AC 60 cps. Shipping weight 5 lbs.

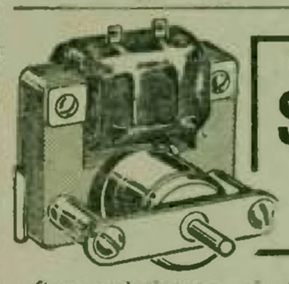
NO. MO-79 ____ **$7.95**

### DUAL BLOWER

★ 120 Cubic Ft. Per Min.

A versatile blower unit for use where quiet circulation of a large volume of air is required. Features cool running, two pole motor. Size: 10⅝" x 6¼". Flange mounting. 110-125 v. AC 60 cps. Shpg. wt. 9 lbs.

NO. MO-78 ____ **$10.95**



No. MO-108 **$1.19** 3 for $3

## TELECHRON 1 RPM Timing MOTOR

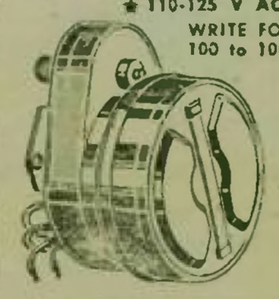
★ MADE IN U.S.A.

One revolution per minute, ideal for displays and timing devices. This rugged motor is built for continuous use. Features heavy duty gear box and motor frame plus fully insulated coil for long efficient life. Bearings require little or no lubrication. Power connections are conveniently located on the side of the coil. Overall Size: 2¼" x 2⅜" x 2½". The gear box has a ⅛" diameter shaft extending ⅜". For 110-125 v. AC 60 c.p.s. Shipping weight 2 lbs. Write for special large quantity prices.

## TIMING MOTORS

★ 110-125 V AC.

WRITE FOR SPECIAL 100 to 1000 PRICES!



UL MADE IN U.S.A.

1/37.5 RPM MOTOR, No. MO-72 2 for $1.00 ____ Ea. **59c**

1/20 RPM MOTOR, No. MO-88 2 for $1.00 ____ Ea. **59c**

1/60 RPM MOTOR, No. MO-71, 3 for $1.00 ____ Ea. **39c**

5 RPM MOTOR, No. MO-74, 3 for $2.00 ____ Ea. **69c**

## KIT of 7 MOTORS

Kit contains 7 assorted motors of various speeds and voltages. A rare opportunity to stock up for your every experimental need. Shpg. wt. 4 lbs.

$2 No. AS-767

LUX

## 5 Hr. TIMER

With Bell

★ Heavy Duty Switch



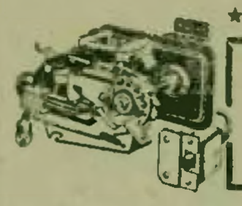
No. SW-281 **$1.99** 3 for $5.00

Heavy duty D.P.S.T. Switch is turned on by rotating shaft fully clockwise. At the end of the time cycle (5 hr.), the switch turns off and a bell begins to ring. Switch may also be operated manually. Rated at 30 amps. @ 250 volts. Motor operates on 110-125 volts A.C. 60 C.P.S. Size: 4½" x 2⅝" x 2⅝". Shipping wt. 2 lbs. Write for Special Large Quantity Price.

## Switching Motor

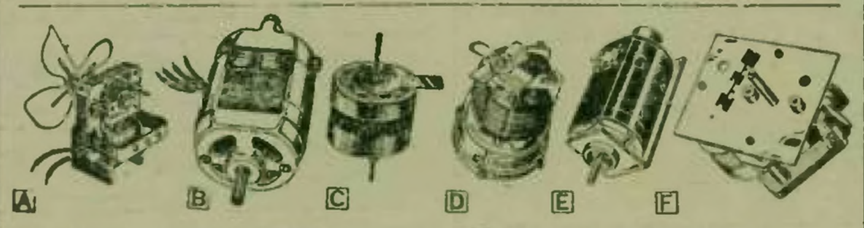
★ 13 RPM Gear Mechanism

★ 117 Volts AC



No. MO-107 **$1.99**

Rugged self starting motor with attached gear train. Stepping mechanism on end of gear box shaft rotates at 13 RPM. This stepper operates a leaf type switch opening a set of normally closed contacts at the rate of 13 times per revolution. Once each RPM a second set of normally closed contacts opens. For 110-125 v. AC 60 cps. Shipping weight 3 lbs.



A B C D E F

### A VENTILATION MOTOR

Motor is ruggedly constructed of laminated steel and features oilite type bearings. Universal mounting bracket. 3" blade. Shpg. wt. 2 lbs. 110-125 volts. A.C. 60 cps.

No. MO-83 ____ ea. **$2.49**

### B BODINE 1/25 HP

High speed 3300 RPM motor for intermittent use in home or shop. ¼" shaft has geared face and extends ¾" from motor housing. Easily gear-coupled to any application. Operates on 110-125 volts A.C. or D.C. Size: 4" x 2¼" Shipping weight 4 lbs.

No. MO-64, 3 for $5.50 Ea. **$1.98**

### C FASCO 4-POLE MOTOR

4-coil, 4-pole self-starting induction type. ½" shaft extends 1¼" from front of motor and ⅜" from back of motor. 1550 RPM. For 110-125 volts AC. 60 cps. Size: 2⅛" x 3½" plus shaft. Shipping weight 6 lbs.

No. MO-110, 3 for $9.00 ____ ea. **$3.50**

### D 24 RPM MOTOR

High torque 24 RPM motor features permanently lubricated bearings in rugged cast housing. Gear reduction ratio 137-1. Operates on 110-125 volts AC. Motor size 4¼" x 3¼". Shaft size ¾" long x ⅜" dia. Shipping weight 5 lbs.

NO. MO-81 3 for $10 ea. **$3.50**

### E 3-6 V. MINIATURE MOTOR

Operates on 3 to 6 volts D.C. Current drain only .200 amperes. 9 gr/cm torque @4500 RPM. Self aligning oilite bearings. Shaft: ⅛" long by .079 dia. Overall size: 1⅜" x ¾" With mounting bracket. Shpg. wt. ¼ lb.

No. MO-65, 3 for $2.50
12 @ 75c Ea. ____ Ea. **89c**

### F Telechron TIMER MOTOR

Synchronous motor with multiple gear train. Front panel shaft sets timer for up to one hour. Buzzer sounds at end of time cycle. Size: 2⅞" x 2½" x 3⅛" including 1½" shaft. 110-125 v. AC 60 cps. Shipping weight ¾ lbs.

No. SW-254 ____ **99c**



# TIMER EXTENSION CORD



No. SW-178 **$5.11** Lots of 3, ea. $4.50

★ Automatically Turns Lights Off

Heavy duty extension cord with mechanical timer. Time cycle 0-4 hours. Extension cord has three outlets. Ideal for turning off fans, motors, radios, lights, etc. Use to turn off Christmas lights and decorations automatically.

# TIME SWITCH



No. X-706 **$7.99**

★ Turns Appliances ON-OFF

Makes any radio a clock radio. Turns on and off coffee makers, lights, fans, etc., for as little as 15 minutes or as long as 23½ hours. Manual control for manual switching. Capacity 15 amps: 1650 watts. For 117 volts. AC only. Size: 5" W x 4" H x 2¼" D. Shpg. wt. 2½ lbs. Made in U.S.A.



A B C D SALE! E F G H

### A MICRO SWITCH

Heavy duty Microswitch normally closed. 10 amp. 125 V AC. 5 amp. 250 V AC. Screw type terminals. Rugged heavy duty metal supported switch. Made in U.S.A. Shipping weight ¼ lb.

No. SW-208, 3 @ 25c Ea.
100 @ 20c Ea. ____ Ea. **29c**

### B MICRO SWITCH

Made in U.S.A. Normally closed micro switch miniature size 1" x ⅝" with solder terminals. Brand new individually packed. 10 amp at 125 Volts AC or 250 Volts AC. Shipping weight ¼ lb.

No. SW-205, 3 @ 33c Ea.
100 @ 25c Ea. ____ Ea. **39c**

### C ELECTRONIC LIGHT DIMMER

Easily installed in place of any standard switch without wiring changes. 300 watt capacity for incandescent lamps only. Fused silicon diode rectifier control unit. With mounting hardware. 3 positions: bright, dim and off. Replaces existing switch. Made in U.S.A. Shipping weight ¼ lb.

No. SW-169 ____ **$1.97**

### D MAGNETIC SWITCH

For burglar alarms, position indicators. Contact rating: 15 watts resistive up to 1 amp up to 250 volts DC. Use with relay for heavier load. Shipping wt. ¼ lb. Write for special large quantity prices.

**SALE!** No. SW-229 $1.79 In 363 Cat. ____ **67c**

### E TRIGGER SWITCH

★ With Push-button Lock

Heavy duty. Used as original equipment in power tools made by Ram, Pet, Black & Decker, McGraw Edison, Porter, Cable & others. Switch rating is 10 amp at 125 v. or ½ HP at 125 volts. Size: 3⅛" x 1⅞". Shipping weight ¼ lb.

No. SW-251, 3 for $2 ____ Ea. **80c**

### F DELAY SWITCH

Made in U.S.A.

Lights remain on for about 60 seconds, then turn off automatically. Easily installed like any regular switch. Ideal for use when you go to the car, etc. Shipping weight ¼ lb.

No. SW-179, 3 for $6 ____ Ea. **$2.19**

### G Telechron Clock Movement

Made in U.S.A. Turns on TV set radios, phones and or other appliance at any pre-set time within a 12 hou period. Has sweep second hand. A 6 minute slumber switch, manual on-o switch. For 117 volts A.C. Size: 6¾" 4" x 2" Less knobs. Shipping wt. 3 lb

No. X-879
3 for $11.50 ____ Ea. **$3.9**

### H SPDT Miniature Toggle Switc

1.5 amps. 125 V. Size: 1¼" x ½" x ½ Shipping weight ¼ lb.

No. SW-211, 4 for $3.50 ____ Ea. **99**

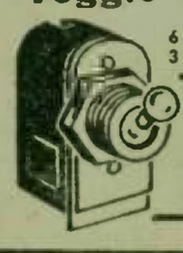
### H DPDT Miniature Toggle Switc

Same as above but DPDT.

No. SW-212, 3 for $3.75 ____ Ea. $1.

Chet Radio & T.V., Howard C. Co cord, 419 Main St., W. Newbury, Mas wins choice of merchandise worth from Olson's "Treasure Hunt." See ba cover for instructions.

## SPST Toggle Switch



6 Amps @ 125 V.
3 Amps @ 250 V.

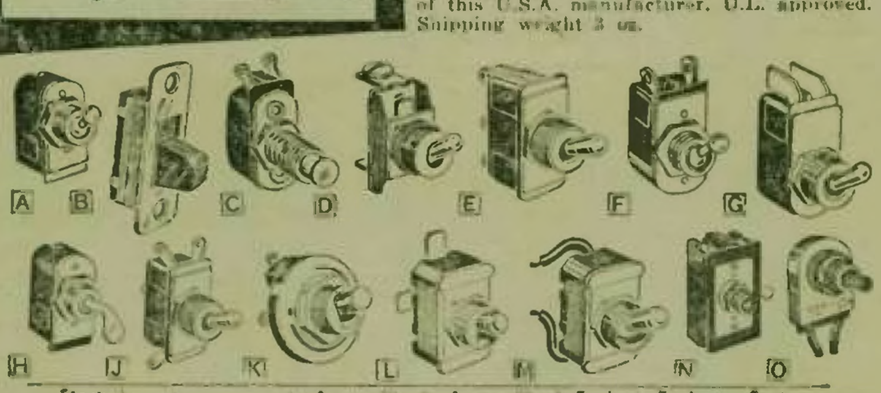
6 FOR **$1** No. SW-256

## Carling SWITCHES

★ Heavy Duty AC and AC DC

★ U L Approved ★ Made in U.S.A

A special purchase by Olson Electronics makes possible this variety of high quality switches at real money-savings prices. Heavy duty construction for dependable trouble free service made to the rigid specifications of this U.S.A. manufacturer. U.L. approved. Shipping weight 3 oz.



A B C D E F G H J K L M N O

| Stock No. | Fig. | Action | Amps. @ 125V. | Amps. @ 250V. | Each 1-9 | Each 10-99 | Each 100-499 |
|---|---|---|---|---|---|---|---|
| SW-248 | B | SPST | | | .15 | .09 | .08 |
| SW-267 | B | SPDT | 4 | | .29 | .25 | .20 |
| SW-239 | B | SPST | 6 | 3 | .49 | .40 | .35 |
| SW-263 | B | DPDT† | 3 | 1 | .39 | .35 | .30 |
| SW-261 | C | SPDT‡ | 1 | | .39 | .35 | .30 |
| SW-264 | C | SPDT†‡ | 1 | | .39 | .35 | .30 |
| SW-237 | C | SPST‡ | 1 | | .29 | .25 | .20 |
| SW-265 | C | DPST‡ | 1 | | .29 | .25 | .20 |
| SW-236 | D | SPST | 3 | | .29 | .25 | .20 |
| SW-244 | E | DPDT | 3 | 1 | .69 | .60 | .50 |
| SW-276 | E | SPDT | 3 | 1 | .49 | .40 | .35 |
| SW-247 | F | SPST | 6 | 3 | .39 | .35 | .30 |
| SW-242 | G | SPST | 6 | 3 | .39 | .30 | .25 |
| SW-243 | H | SPST† | 6 | 3 | .59 | .50 | .40 |
| SW-279 | J | SPDT | 6 | 3 | .69 | .60 | .50 |
| SW-270 | J | DPDT | 6 | 3 | .69 | .60 | .50 |
| SW-241 | K | DPDT | 6 | | .79 | .59 | .50 |
| SW-245 | K | SPDT | 15 | 7½ | .48 | .40 | .35 |
| SW-277 | K | SPST | 3 | | .39 | .35 | .30 |
| SW-274 | K | SPDT | 15 | 7½ | .48 | .40 | .35 |
| SW-246 | L | SPST | 15 | 10 | .48 | .40 | .35 |
| SW-272 | M | SPDT * | 15 | 10 | .79 | .59 | .50 |
| SW-275 | M | SPDT* | 3 | | .59 | .50 | .40 |
| SW-278 | M | SPDT | 25 | 10 | .69 | .60 | .50 |
| SW-273 | M | DPDT* | 6 | 3 | .69 | .60 | .50 |
| SW-268 | M | DPDT‡ | 15 | 6 | .79 | .70 | .65 |
| SW-235 | M | SPST* | 15 | 10 | .48 | .36 | .30 |
| SW-259 | N | DPST | 12 | 6 | .39 | .35 | .30 |
| SW-257 | O | SPST | 3 | 1 | .29 | .25 | .20 |

‡ Indicates momentary action * Indicates wire leads †† momentary one way
* Indicates center-off ** Indicates one terminal to mounting lug

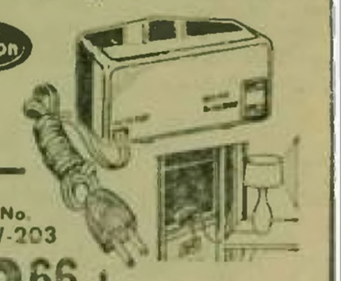
## Automatic NIGHT LIGHT Switches

★ Turns Lights On and Off Automatically at Dusk and Dawn

★ Keeps Prowlers Away at Night When Occupants are Away

## PHOTO-EYE

Olson



No. SW-203 **$3.66** 3 for $10.50

Turns lights, signs, appliances and displays on and off at dusk and dawn automatically. Keeps prowlers away from your home when you are away by turning lights on at night. Size: 3½" x 2⅝" x 1½". For 117 volts A.C. Cap. 300 watts. Shipping weight ½ lb.

Fisher-Pierce

## NIGHT LIGHTER

Made In U. S. A.



No. X-638 **$11.08**

Turns on lights or signs at dusk and off at dawn. Just plug Nightlighter into 115 volt AC socket and plug appliance into Nightlighter adaptor cord. Max. load 300 watts. Shipping weight 4 lbs.

GE—Telechron—International Register

## Automatic TIME SWITCH



★ 25 AMP. CONTACTS

No. SW-249 **$1.99**

On-Time is adjustable in intervals of 15 minutes up to 5½ hours. Size of basic timer mechanism is 4½" x 3¼". Size and style of face plate may vary from illustration. Switch contacts are rated at 25 amps at 230 volts. Motor is for 110-125 volts AC 60 cps. Less knobs. Shipping weight 2¼ lbs.

Veeder—Root

## Deluxe TIMER SWITCH



No. SW-253 **$2.99**

This deluxe timer switch can be used for hundreds of timing applications. Timer will turn-on at any pre-set time and remain on for durations up to 6 hours. On-Time is adjustable in 15 minute intervals. Clock face is finished in handsome brushed brass. Use to turn on and off any electronic equipment automatically. Size: 9½" x 3½" x 3". (less Knobs). Contact rating 25 amps. at 230 v AC. Motor 110 to 125 volts AC 60 cps. Shipping weight 3 lbs.

## Read-Out COUNTER

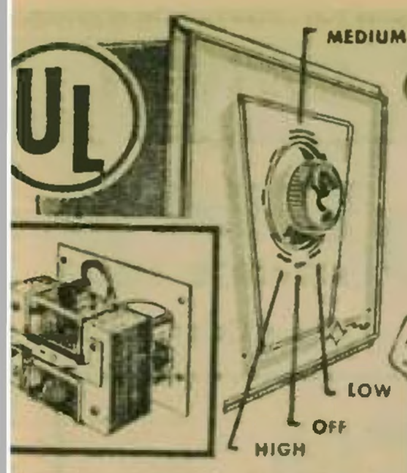


★ 24 V. DC Solenoid

★ Large Numerals

X-918 **$1.50** Lots of 4, Ea. $1.25

Ideal for industrial counting operations, score boards, assembly line counting, etc. Ruggedly built for continuous operation in computers. Large numbers 0 thru 9 are painted on a drum which is rotated by a solenoid. Each number is ¾" high so that it can easily be read at a glance. Size: 3¾" x 1⅞" x 1½". Shpg. wt. 2 lbs.




PROGRESS WEBSTER

## Variable TRANSFORMER

**500 WATT POWER CAPACITY**

★ Front Panel & Knob Included
★ Newl Factory Sealed Carton



**$4.99** No. T-353

Was $9.99 In Cat. 363

Mfr's 1962 List, $29.95

A heavy duty variable transformer designed to give variable control of light intensity, e to create beautiful and unusual lighting effects. Can be used with incandescent or ornescent lights with dimmer ballast. Included are knob and front panel with two color erts to match any decor. This rugedly built transformer also has many applications the service man's or experimenter's bench. Use for any application where an adjustable voltage is desired. Voltage range from 42 volts to 125 volts. Power capacity 500 watts. ased transformer housing size: 6⅝" x 7½" x 5½". Front panel size: 7¾" x 5" for 0-125 volt AC 60 CPS. Shipping weight 17 lbs.

### 700 WATT CAPACITY VARIABLE TRANSFORMER

★ WITH 4-POSITION SWITCH

**$6.99**

Similar to 500 watt model but with increased power capacity to 700 tts. Also has four position switch, off, on, variable, and 35V fixed. ipping weight 17 lbs.

. T-352 Was $12.99 in 263 (Mfr's 1962 List $39.95)

## ILICON RECTIFIERS

### 500 MA

No. RE-30 Ea. 47c 10 for $4.25

PIV: 200 volts
RMS: 140 volts
Size: ⅜"x⅜"
Shpg. wt. ¼ lb.

### 500 MA (MINIATURE)

★ 24 Karat Gold Plated

No. RE-70 KIT OF 4 PER KIT 99c 4 Kits $3.50

PIV: 100 volts
RMS: 70 volts
Size: ¼"x⅜"
Shpg. wt. ¼ lb.

### 750 MA

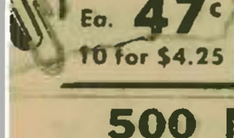
No. RE-29 Ea. 57c @ 51c

PIV: 400 volts
RMS: 280 volts
Size: ⅜"x⅜"
Shpg. wt. ¼ lb.

### 50 MA

SPECIFICATIONS: Mfgrs. Type SD-500-90. RMS A.C. Input 280 Volts. Peak Inverse Voltage: 400 Volts. Output, D. C. 500 mA @ 100° C; Current 750 MA @ 50° C. Shpg. wt. ¼ lb.

### 2 AMPERE



No. RE-66 Ea. 99c 4 for $3.50

800 PIV

" Hex-Stud Mount. Shpg. wt. ¼ lb.

### 15 AMPERE



No. RE-65 EA. $2.79 3 for $8.00

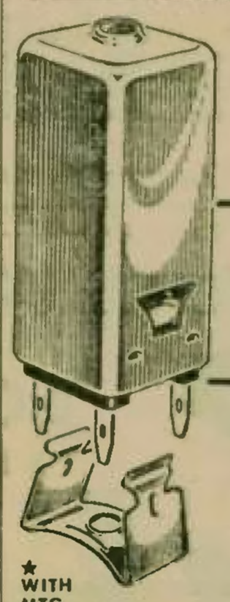
400 PIV
" Hex Stud Mount
Shpg. wt. ¼ lb.

### 50 AMPERE



No. RE-71 EA. $3.50 3 for $9.75

50 PIV
" Hex-Stud Mount
Shpg. wt. ¼ lb.



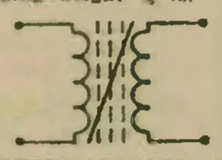
★ WITH MTG. BRACKET

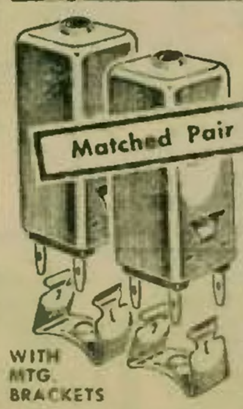
Olson

### IF TRANSFORMER

No. L-32 **59c** 10 for $4.90

456 KC Universal. Size: ⅞" x ⅞" x 2". For all input and output circuits. Shipping weight ¼ lb.






WITH MTG. BRACKETS

Matched Pair 455 kc IF TRANSFORMERS

No. L-83 ONLY **99c** PER PAIR

Consists of one each, input and output transformer. Size: ⅞" x ⅞" x 2". Complete with instructions. Shipping weight ¼ lb.

Olson

### Audio TRANSFORMERS



Your Choice **79c**

¾" square for miniature circuits. Shpg. wt. ¼ lb.

| Stock No. | Use | Primary Imp. Ohms | Secondary Imp. Ohms |
|---|---|---|---|
| T-230 | driver | 10,000 | 2,000 |
| T-231 | output | 500 | 8 |

### AUDIO Transformers ULTRA-MINIATURE



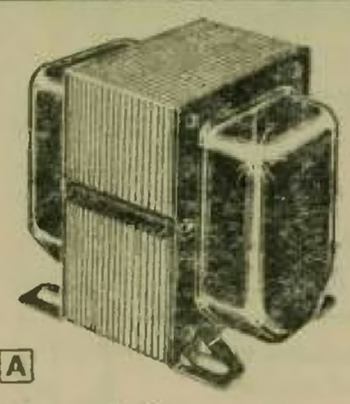
**79c** 2 for $1.50

Only 7/16" square overall. Tab mount. Long mounted leads. Especially suited for printed circuit transistor applications. Shpg. wt. ¼ lb.

| Stk. No. | Use | Primary Imp. Ohms | Secondary Imp. Ohms |
|---|---|---|---|
| T-332 | Driver | 10,000 | 2,000 CT |
| T-333 | Output | 500 CT | 3.2 |

## TRANSFORMERS

• AUDIO OUTPUT
• FILAMENT
• POWER



A

### B POWER

SECONDARY: 375-0-375 V. @ 160 MA. 6.3 volts @ 3.5 Amp. 5 volts @ 3 Amp.
SIZE: 3½" x 3⅞" x 3"
Shpg. Wt. 7 lbs.

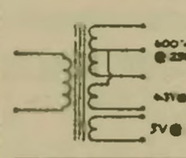



**$2.99** No. T-366

### A POWER

★ WITH COOLING FINS

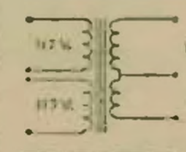
SECONDARY: 300-0-300 Volt @ 250 MA., 6.3 V. @ 9A, 5 V. @ 3A
SIZE: 4½" x 4⅛" x 4¾"
Shpg. Wt. 8 lbs.




No. T-377 **$3.69** 3 for $10.50

### A POWER

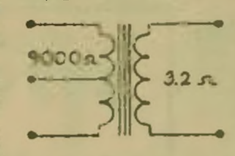
SECONDARY: 170 Volt @ 45 MA 6.3 Volt @ 1.1 Amp.
SIZE: 2⅜" x 2⅝" x 2"
Shpg. Wt. 2 lbs.



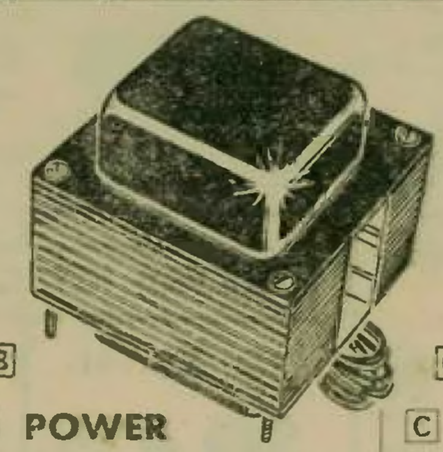

**$1.79** Reg. $1.99 No. T-359

### A OUTPUT

PRIMARY: 9000 OHM C. T. 25 Watt
SECONDARY: 3.2 OHM
APPLICATION: P. P. 50L6GT
SIZE: 3¾" x 2½" x 2¼"
Shpg. Wt. 3 lbs.



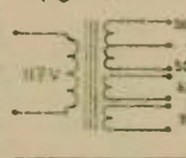

**$1.79** Reg. $1.99 No. T-373



B

### B POWER

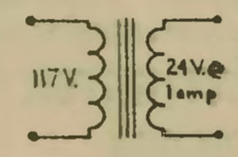
SECONDARY: 300-0-300 v. @ 265 MA. 6.3 volts @ 4 amps 5 volts @ 3 amps
SIZE: 3¼" x 3¾" x 3½"
Shpg. Wt. 8 lbs.




No. T-318 **$3.59** 3 for $10.00

### C POWER

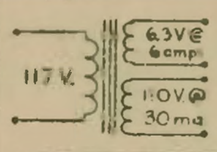
SECONDARY: 24 v. @ 1 amp
SIZE: 2¾" x 2¼" x 2¼"
SHIPPING WEIGHT: 2 lbs.




No. T-290 **$1.49** 3 for $4 12 @ $1.25

### C POWER

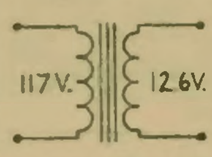
SECONDARY: 6.3 volts @ .6 amps 110 volts @ 30 MA.
SIZE: 1⅞" x 1⅜" x 2"
Shpg. Wt. 1 lb.




No. T-173 **$1.32** 3 for $3.50 100 @ 86c ea.

### C FILAMENT

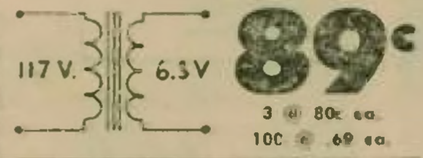
SECONDARY: 12.6 volts @ 1 amp.
SIZE: 2" x 1⅜" x 1¾"
Shpg. wt. 1 lb.




No. T-304 **$1.49** 3 @ 1.29 ea.

### C FILAMENT

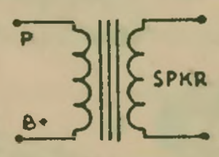
PRIMARY: 110-125 volts A. C.
SECONDARY: 6.3 v @ 1 amp.
SIZE: 1¼" x 1½" x 1⅞"
Shpg. Wt. 1 lb.




No. T-76 **89c** 3 @ 80c ea. 100 @ 69 ea.

### C AUDIO OUTPUT

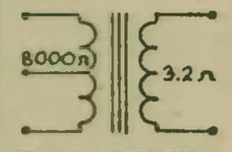
PRIMARY: 2500 ohms; 2 watts
SECONDARY: 3.2 ohms
APPL.: 50C5, 50L6, etc.
SIZE: 1½"x1¼"x1"
Shpg. Wt. ¼ lb.




No. T-334 **39c** 3 @ 33c 100 @ 28c

### C AUDIO OUTPUT

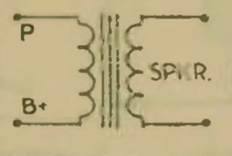
PRIMARY: 8,000 ohm C.T.
SECONDARY: 3.2 ohm
APPLICATION: P.P., 6BQ5, EL 84
SIZE: 2⅜"x1¾"x2"
Shpg. Wt. 2 lbs.




**89c** No. T-374

### C AUDIO OUTPUT

PRIMARY: 2,500 ohms, 3 watts
SECONDARY: 3.2 ohms
APPLICATIONS: 50C5, 50L6, etc.
SIZE: 1½" x 1⅛" x 1"
Shpg. Wt. ¼ lb.




No. T-92 **49c** 3 @ 45c ea. 100 @ 39c ea.

### C FILAMENT

SECONDARY: 12.6 volts @ 1 amp.
SIZE: 2" x 1⅜" x 1¾"
Shpg. wt. 1 lb.




No. T-304 **$1.49** 3 @ 1.29 ea.

### C AUDIO OUTPUT

PRIMARY: 2,500 ohms, 3 watts
SECONDARY: 3.2 ohms
APPLICATIONS: 50C5, 50L6, etc.
SIZE: 1½" x 1⅛" x 1"
Shpg. Wt. ¼ lb.




No. T-92 **49c** 3 @ 45c ea. 100 @ 39c ea.

MADE IN U. S. A.

## OHMITE Variable TRANSFORMERS

Delivers variable AC voltage from 0 to well above 115 volts when connected to standard 110-125 volt 60 cycle current. Ideal for regulating incandescent lights, motor speeds, input voltage for radios and TV to locate intermittent components and many other industrial and experimental uses. Angle of rotation 320°. Complete with reversible direct reading dial and knob. Delivers full current at any dial setting.

### 1½ AMP

Output 0-132 volts



No. T-300 $8.50

VT-2 delivers 1½ amps. 198 watts. Size: 2⅛" x 2¼" Shpg. weight 3 lbs.

### 3½ AMP

Output 0-140 volts

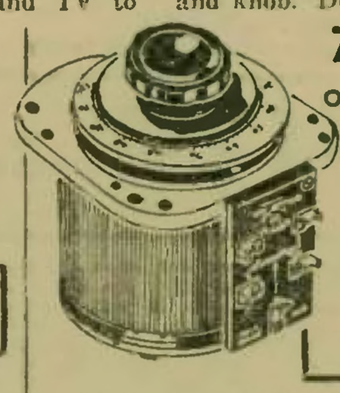


No. T-301 $12.50

VT-4 delivers 3½ amps. 490 watts. Size: 4½" x 2½". Shpg. weight 7 lbs.

### 7½ AMP

Output 0-140 Volts



No. T-302 $18

VT-8 delivers 7¼ amps. 1050 watts. size 4⅞" x 4⅞". Shipping weight 13 lbs.

### 20 AMP

Output 0-140 V.



No. T-328 $45

VT-20 delivers 20 amps. 2800 watts. Size: 8¼" x 7½" x 5½". Shpg. weight 28 lbs.

### 65 MA Selenium RECTIFIER



No. RE-75 A.C. input 130V RMS

**39c** 3 for $1.00

Size ⅝"x⅝"x⅝" Ideal replacement in most AC-DC radios. Shipping weight ¼ lb.

### TV Transformers & Coils 66c



KIT OF 10 No. L-77

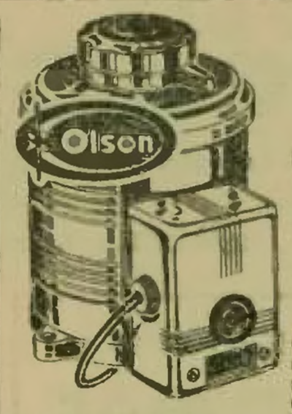
Assorted TV I.F. transformers, discriminators, peaking coils, and chokes. Shpg. wt. ¼ lb.

### FUSE HOLDERS ---------- 67c



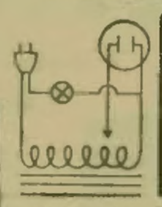
No. FU-6
99c in 662 Cat.

Kit of three standard fuse holders for chassis mounting. Shpg. wt. ¼ lb.




Dewey F. Shaffer, Rt. 5, Box 123, Greencastle, Pa., wins choice of merchandise worth $5 from Olson's "Treasure Hunt."

### 500 WATT VARIABLE VOLTAGE CONTROL



**$12.93** No. T-279

3 for $38.50
Lots of 6, Ea. $11.00

Variable auto-transformers of toroidal core design delivers variable A.C. voltage from 0 to 130 volts. Maximum rating applies over full range of output voltage. Ideal for schools, service shops, laboratories, etc. Can be used to dim lights, experimental applications or to adjust for low or high voltages.

Negligible voltage change from no load to full load. Comes with line cord and plug. Output voltage available from built-in A.C. outlet. Frequency range 50-60 cps. A.C. input 110-125 volts A.C. Shipping weight 11 lbs.

Olson

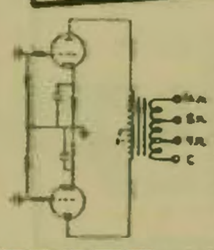
### 15 Watt Hi-Fi Output TRANSFORMER

• Response ±1 DB 15 to 50,000 CPS




**$4.95** No. T-275

2 for $9.50



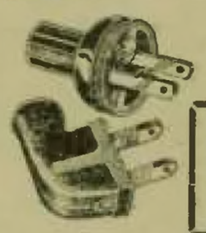
Matches most popular output tubes in push-pull circuit to most speakers. All internal leads brought out to terminals at bottom. Primary impedances: 5,000, 8,000, and 10,000 ohms. Secondary impedances: 4, 8, and 16 ohms. Size: 2½"x2½"x3". Shipping weight 3 lbs.

### NEW! STEREO OUTPUT TRANSFORMER

Two high fidelity output transformers in one compact case. Primary windings are tapped for ultra-linear operation. Primary impedance is 8,000 and 10,000 ohms with center tap which will match most popular output tubes in push-pull. All internal leads are brought out to terminals at the bottom of the transformer. ± 1 DB 15 to 50,000 CPS. Power rating: 20 watts. Size: 4¼"x2½"x3". Shpg. wt. 4 lbs.

No. T-355 **$7.99**

### Rubber A.C. PLUGS



**99c** KIT OF 5 No. PL-107

Kit contains 3 standard plugs and 2 right angle plugs. Ideal for power tools and appliances. Shipping weight ¼ lb. Write for special large quantity prices.

### AC SOCKETS

★ KIT OF 10



**$1** No. KB-154

Kit of 10 snap-in AC sockets. ⅝" x 1⅜" mounting hole required. 15 amp. at 125 V. Less screws. Shpg. wt. ¼ lb.

### Electric Range SWITCH

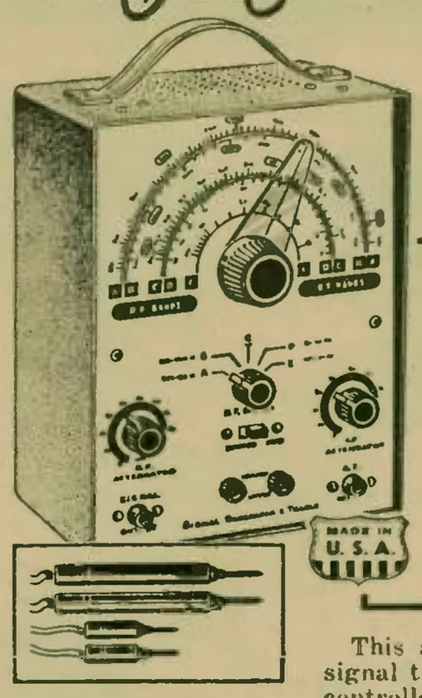
★ Snap-In Switch




No. KB-153 **$1** 2 FOR . . .

20 amp. at 125 volts. Mounts in ⅞" x 1⅛" hole. Shipping weight ¼ lb.

# Gifts for the RADIO - TV SERVICEMAN - HOBBYIST - EXPERIMENTER



Olson

Combination
**SIGNAL GENERATOR and TRACER KIT**

▶ This Kit Has All Major Components Premounted & Tested At Factory

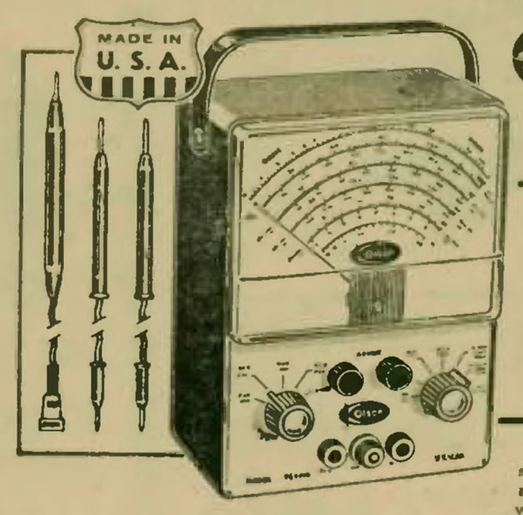
**PRE-FAB KIT CONSTRUCTION**

No. KB-141

**$24.95**

- ☆ High Stability Electron Coupled Oscillator
- ★ Most Used Frequencies Marked in Color
- ★ Separate RF & Audio Signal Probes

This signal generator and tracer, unlike any standard signal tracer, first injects its own signal then traces that controlled signal to locate the trouble spot by standard signal tracing techniques. Designed for use with RF or audio signals and circuits. Five frequency ranges available with an attenuator switch which controls both the RF signal (modulated or unmodulated) or the 400 cps audio tone. Front panel jacks can be used for earphones. V.T.V.M. or scope. Easy to follow Olson construction manual with large, easy-to-read diagrams make building this kit pleasant. Housed in a steel cabinet with etched aluminum panel. For 110-125 volts 60 CPS. Size: 7½"x9½"x5¾" complete with probes. Range: 250 KC-120 MC in 5 bands. AUDIO: 400 CPS audio signal. TUBES: 5965, 5687, 6350, 6AG5. Shpg. wt. 12 lbs.



Olson

**V.T.V.M. KIT**

★GIANT 6" METER

★Two Color Scales

**$25.95** No. KB-140

A highly accurate DC voltmeter, AC voltmeter, and ohmmeter, with a large 6" 400 microampere meter with easily read black and red scales. It will measure AC peak-to-peak voltages to 2,000 volts any wave form, from 30 cps to above 5 MC with no accessory probes. AC RMS can be read up to 1500 volts if a sine wave. Resistance can be read directly from 0.2 ohms to 1,000 megohms. Direct reading decibel scale is calibrated from —10 to +18 DB, reference 1.73 volts, 6 MW into 500 ohm line. Zero center measurements can also be made.

SPECIFICATIONS—DC voltage ranges: 0-3, 15, 75, 150, 300, 750, 1500 volts. Input resistance: 11 megohms (1 megohm in probe) on all ranges. AC voltage: RMS ranges 0-3, 15, 75, 150, 300, 750, 15,000 volts. Peak to peak ranges 0-8, 40, 200, 400, 800, 2000 volts. Decibel ranges: —10 to +18 DB, +10 to +38 DB, +30 to 58 DB response 30 cps to above 5 megacycles. Ohmmeter ranges: 0-1000, 10,000, 100,000 ohms, 0-1 meg. 10 meg. 1000 megohms center scales 10, 100, 1000, 10,000, 100,000, ohms 1 megohm 10 megohms. TUBES: 1—12AU7 twin triode balanced bridge, 2—9006 peak to peak rectifiers, 1 power supply selenium rectifier. Power: 110-125 volts AC 60 cps. Size: 7½" x 6½" x 5". Shipping weight 8 lbs.

**Accessories:**

| | |
|---|---|
| RF Probe for KB-140, No. TE-167 | ea. $3.75 |
| Carrying Case for KB-140, No. CA-253 | ea. $2.95 |
| Battery, (1 req'd) No. BA-53 | ea. 13c |

Olson

**MULTITESTER**

**30,000 OHMS PER VOLT**

★ Self Shielded Magnet

★ COMPACT



No. TE-179

**$13.92**

Self shielded magnet minimizes outside interference to the extent that it is negligible. Unique single deck rotary switch gives instant positive selection of desired range. Specifications: DC volts: 0-250 mv — 1v 10v - 50v - 250v - 500v - 1000v at 30,000 ohms per volt, AC volts: 0—10v-50v--250v-500v at 12,000 ohms per volt, DC Current: 0—50ua—10ma—250 ma. Resistance: 0—5k—500k — 5 meg. ohms, DB: —10 to +22 db. Size: 4⅝" x 3¾" x 1½". Shipping weight 2 lbs.

## ABOUT OUR PRICES

Your order is shipped at the current price. Prices in this catalog replace prices in all previous Olson catalogs and are subject to change without notice. Orders are filled at the price in effect at time of shipment.

YOU BENEFIT FROM ANY PRICE REDUCTION. If prices are lowered during the life of this catalog you get the advantage of the lower price. We reduce the cost accordingly and send you a refund at the time we make the shipment.

Voice and Vision of N. H., T. Maio, 12 Main St., W. Lebanon, N. H., wins choice of merchandise worth $5 from Olson's "Treasure Hunt." See back cover for instructions.

Olson

Transistor
**D.C. POWER SUPPLY**

★ FOR MOST TRANSISTOR DEVI

- Completely Wired
- 6-9-12 Volt Outputs
- Vernier Voltage Control
- 0-15 DC Meter



Everyone working with transistors or other low voltage, low current DC devices, will find this an extremely useful tool.

No. RA-472

**$13.98** ★

Alligator clips, which included, can be connect desired in circuit, voltage up from 5½ to 15 volts, a sired for test. All con leads, fuse and meter re available on front panel ily controlled 12 step to transformer source of DC age. 110-125 volts AC. cps. Size: 6½" x 4½" x Shipping weight 6 lbs.



**IN-CIRCUIT CAPACITOR**
**TESTER KIT**

MEASURES ELECTROLYTICS IN-CIRCUIT

- ★ EASY TO READ Light Bar Indicator
- ★ Sharp, Non Confusing Readings
- ★ Electrolytic Dial
- ★ Direct Reading Dial
- ★ Low Loss Coaxial Test Leads

**$17.98** ★ No. KB-147

Instantly reveals opened and shorted capacitors without removing them from circuit. Checks by-pass, coupling, blocking, and filter capacitors of all types including electrolytics. Also finds dried out electrolytics, as well as opened and shorted electrolytics, by directly indicating capacitance on new easy-to-read EM-84 eye tube. Indicates in-circuit electrolytic capacity from 2 mfd to 400 mfd in two ranges. Condenser is automatically proven non-shorted and not open if capacity reading can be read. Rugged ripple finish steel cabinet with easy-to-read two color panel. Complete with leads, detailed assembly instructions and operating manual. Size: 7½" x 5⅝" x 4⅛". For 110-125 volts AC, 60 cps only. Shipping weight 7 lbs. Order today.

12-Piece
**TEST LEAD KIT**

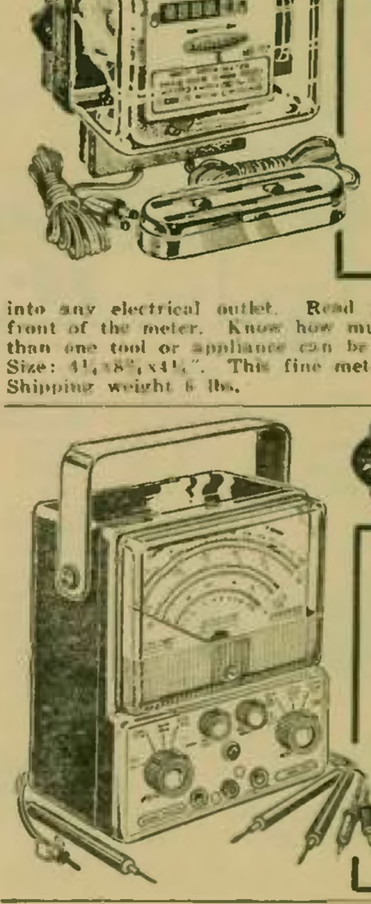


No. W-348

**$1.79**

3 for $5

Consists of two 36" red and black test leads with banana plugs on each end. 2 heavy-duty spade lugs, 2 phone tip plugs, two 5" test probes and insulated clips. Shipping weight ¼ lb.



SALE!

REG. $11.50
SALE PRICE
ONLY
**$9.99**
No. ME-77

Olson

Watthou
**METE**

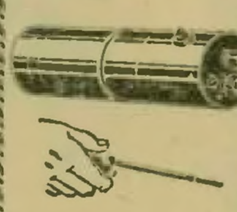
- 117 VOLT 60 CPS
- 10 AMPERES
- SINGLE PHASE

**Ideal For: Hotels, Mote Apartments, Rental Ser**

Measure the power cons by power tools and electric pliances. Ideal for amateur operators, to determine oper costs. This meter is compl assembled with cords and p Just plug power tool or appli into the handy extension and plug the watt-hour m into any electrical outlet. Read power consumed in kilowatt hours directly on front of the meter. Know how much of your electric bill is for power tools, etc. than one tool or appliance can be plugged in at a time. For 110-125 volt AC 60 Size: 4¼x8⅝x4¼". This fine meter will pay for itself many times in savings to Shipping weight 6 lbs.

Olson

Transistorized
**SIGNAL INJECTOR**



NO. TE-150

**$3.94**

3 for $11

Produces an audio signal, suitable for signal tracing in A.F., I.F., and R.F. circuits. Operates on 4 standard penlite cells. Size: 4⅝" x 1⅜" x 1¼". Includes batteries. Shipping weight ½ lb.

Batteries (4 req'd)
No. BA-67 Bag of 8 ..... 59c



Olson

**6½" VTVM**

MADE IN U.S.A.

No. TE-158

**ONLY $29.95**

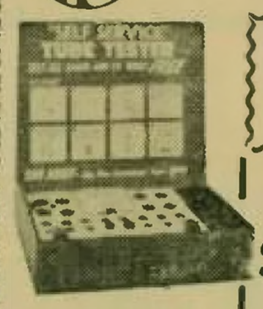
D. C. Ranges: 0 to 3 150, 300, 1500 volts. A R.M.S. Ranges: 0 to 3 150, 300, 1500 volts. Pe Peak Ranges: 0 to 8, 400, 800 volts. OHMME Ranges: 0 to 1000 me ranges). 110-125 volts A 50-60 cps. Shpg. wt. 6

Clarence J. Lofton, W. 64th, Savannah, wins choice of merchan worth $5 from O "Treasure Hunt." See cover for instructions.

SICO

Superior Self-Serve
**TUBE TESTER**

MADE IN U. S. A.



LET YOUR CUSTOMERS CHECK THEIR OWN TUBES!

SALE!

No. TE-178

**$24**

reg. $33

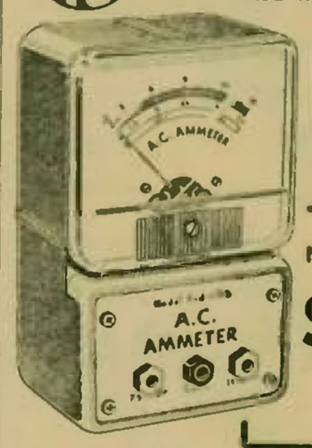
*... converts to Portable too!*

An exclusive feature of this unusually flexible tester is the rigid panel that slips into the back of the tester to convert into a self-service tester. The use of multiple sockets permits elimination of element switches thus reducing testing time and the possibility of incorrect switch settings. To test any tube, you simply insert it into a numbered socket as designated, turn the filament switch and press down the quality switch—That's all! Read quality on meter. Inter-element leakage, if any, indicates automatically. Tester is mounted in portable leather case. Tests over 600 tube types. For 110 to 125 v. AC. Size: (closed) 13½" x 8⅛" h. x 9" d. Shpg. wt. 11 lbs.

SICO

Superior
**AC AMMETER**

MADE IN U.S.A.



★ JUMBO METER ★

Mirrored Scale

No. TE-177

**$7**

This rugged ammeter is an ideal companion to the AC volt meter right. Features extra-large mirrored scale for greater accuracy. Two scales cover every application. 0-7.5 amp. AC and 0-15 amp. AC. Meter size: 3⅝" wide x 3¼" high. The streamlined case has three standard pin jacks on the front panel for quick and easy connection. Size: 2⅝" wide x 5¾" high x 2½" deep. Shipping weight ⅔ lb.

12-pc. Test Lead Kit For Above Meter
No. W-348 ..... $1.79

SICO

Superior
**AC VOLTMETE**

MADE IN U.S.A.

LARGE
★ Full-Vie
METER
★ Mirrored Sca



No. TE-176

**$5**

Large full-view meter with big numerals. This fine meter is made more accurate by a mirrored scale. Re tion of meter hand gives accurate read even when viewed from an angle. Feat these most often used ranges: 0-150 AC, 0-300 volts AC, and 0-750 volts Meter size 3⅝" wide x 3¼" high. streamlined case has four standard jacks on front panel for quick and connection. Size: 3⅝" wide x 5¾" hig 2½" deep. Shipping weight ⅔ lb.

12-pc. Test Lead Kit for Above Meter
No. W-348 ..... $

Olson

Transistor Radio
**TESTER KIT**

★ Signal Generator and Tracer
★ Large easy to read meter
MADE IN U. S. A.



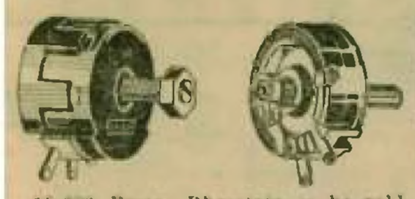
No. KB-143

**$26.95**

A highly versatile tester for transistors or transistor circuitry. Completely portable, operates on self-contained batteries (included). Housed in an attractive rugged carrying case. Tests PNP and NPN transistors for leakage and relative gain. Signal generator produces an audio modulated RF signal which may be applied to any stage, can be traced and heard through amp and speaker in tracer. Complete with all necessary probes and leads plus large easy to follow instructions. Shipping weight 8 lbs.

EXTRA BATTERY (3 req'd.) ..... No. BA-67 ..... 8 for 59c

# POWER RHEOSTATS



10,000 Power Rheostats to be sold fast! Famous makes included, Clarostat, Ward-Leonard, Hardwick-Hindle, Dejur, etc. STOCK UP NOW. Ideal for regulating lights, adjusting speeds also for model railroads. Shipping weight ¼ lb.

**49c** 10 FOR $4.50 EACH

MAY BE ASSORTED

**15 OHMS—25 WATTS**
No. VC-270

Screwdriver shaft. Mounting stud: ⅜" dia. x ½" long. Size: 1½" dia. x 2" deep.

**60 OHMS—25 WATTS**
No. VC-271

¼" round shaft. Mounting stud: ⅜" dia. x ½" long. Size: 1½" dia. x 1⅝" deep.

**100 OHMS—25 WATTS**
No. VC-272

¼" round shaft. Mounting stud: ⅜" dia. x ½" long. Size: 1⅝" dia. x 1⅞" deep.

**125 OHMS—25 WATTS**
No. VC-265

¼" Round shaft ½" long. Mounting stud: ⅜" dia. x ½" long. Size: 1½" dia. x 2⅞" deep.

**250 OHMS—25 WATTS**
No. VC-260

Heavy ceramic housing. 1½" dia. Shaft ¼" dia. x 1" long.

**20,000 OHMS—25 WATTS**
No. VC-268

Screwdriver Shaft. Mounting stud: ⅜" dia. x ⅝" long. Size: 1 13/16" dia. x 1⅝" deep.

**Write For Special LARGE QUANTITY PRICES!**

## AROSTAT 8 OHM L PAD

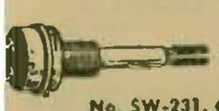


Provides separate control of speaker volume. 1" dia. Shaft ¼" dia. x 1" long. Shpg wt. ¼ lb.

No. VC-261, 3 for $2 Ea. **79c**

## AROSTAT ROTARY SWITCH

★UL APPROVED



Size: 1⅝" dia. Shaft ⅛" dia. x 1⅛" L.

No. SW-231, 6 for $1 Ea. **19c**

## Plug-In GERMANIUM TUNER




Plugs into any PA or Hi-Fi amplifier to provide radio reception of standard broadcast band (550 to 1600 KC). Size: 5½" long x 1⅛" dia. Shipping wt. ¼ lb.

RA-367, Lots of 12, $2.50, 3 for $9 Ea. **$3.33**

## BEACON LANTERN

★ With Red Flasher



★ Use as lantern, ...her - beacon or ...h. Shipping wt. ...lbs.

No. X-784

**99c**

3 for $2.70

Lots of 12, Ea. 85c

...teries (4 req'd) No. BA-53 ..... Ea. 13c
...ra Lantern bulb No. PL-45 ..... Ea. 15c
...ra Flasher bulb No. PL-44 ..... Ea. 15c

## 5 Power FLASHLIGHT MAGNIFIER



Polished chrome with ivory plastic trim. Uses two "C" cells (not included). Size: 5¾" long. Shipping weight ¾ lb.

3 for $4.50, No. X-900
12 @ $1.25 EACH **$1.71**

Batteries (2 req'd) No BA-41 Ea. 13c

## 8-IN-1 TAP-A-LINE



No. W-278

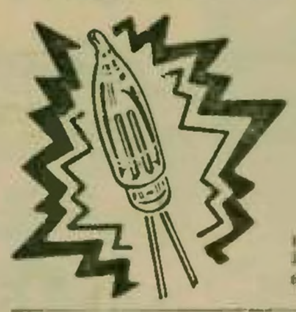
**$1.47**

...p to 8 appliances can be handled. ...y color 12" long. Six foot cable. ½ lb.

..., Walker, 21040 Lone Lake Rd., Wind..., Wisc., wins choice of merchandise ...th $5 from Olson's "Treasure Hunt." ...back cover for instructions.

## NE-2 NEON LAMP

No. PL-51



Ea. **9c**

15 for $1.00
100 for $5.88

Use with dropping resistor of 50,000 to 100,000 ohms. 1/25 watt.

## NE-2H High Brightness NEON LAMP

★ 20 Times Brighter



No. PL-105

10 for $1
100 for $7.50
EACH **12c**

The new GE NE-2H neon lamps are up to 20 times brighter than the standard NE-2. Can be used in areas where high level general illumination reduces the effectiveness of the standard brightness lamps. Bulb size ⅝" long with 1" wire leads. Operates on 95 to 135 volts with dropping resistor. Shipping weight ⅛ lb.



No. **47** PILOT LAMPS

• 6-8 Volt • .15 Amps

**59c** Box of 10 — No. PL-53 — 3 Boxes for $1.75

## No. 51 PILOT LAMPS

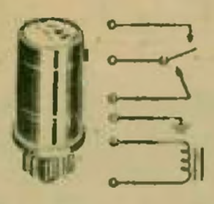
6 Volt @ .25 Amps.
3 Boxes, $1.75
No. PL-89 Box of 10, **59c**

## No. 44 PILOT LAMPS

6-8 Volts @ .25 Amps
3 Boxes, $1.85
No. PL-92 Box of 10, **63c**

## SPDT PLATE RELAY

★ 1400 Ohms



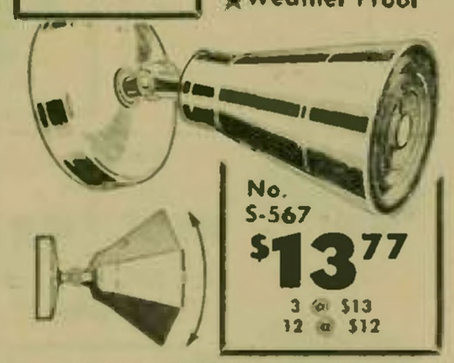
No. SW-206
3 FOR **$1**

1400 ohm, 12 MA D.C. Contacts 30 volts at 1 MA. Size: 1" dia. x 2¼".

## PAGING SPEAKER

MADE IN U.S.A.

★Decorator Styled
★Universal Mount
★Weather Proof



No. S-567
**$13.77**
3 @ $13
12 @ $12

Styled to blend tastefully with todays most modern furnishings. Ideal for any location where appearance is a critical factor, such as churches, conference halls, restaurants and similar surroundings. This speaker is equipped with a driver type reproducer unit for high efficiency, directivity and intelligibility. Response: 350 to 15,000 cps. Power capacity 7.5 watts. Size: 6½" bell dia. x 14" long. Shipping weight 4 lbs.

## GIANT SURPRISE KIT

★ Parts, Motors, Etc.




No. AS-700
ONLY **$5**

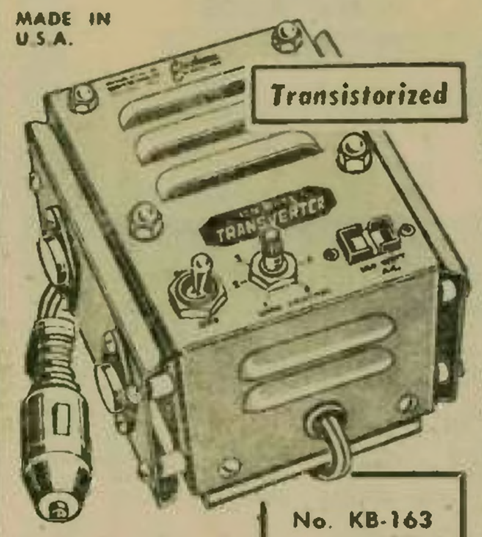
A deluxe HIGH VALUE Surprise Kit worth MANY TIMES Olson's low, low price! Kit consists of transformers, motors, relays, capacitors, resistors, controls, wire and countless other valuable components. Shipping weight 20 lbs.

5-LB. SURPRISE KIT
Shipping Weight 7½ lbs.
No. AS-137 ..... **$1.98**

## WORKMAN TRANSVERTER KIT

12 V. DC to 117 V. AC

MADE IN U.S.A.



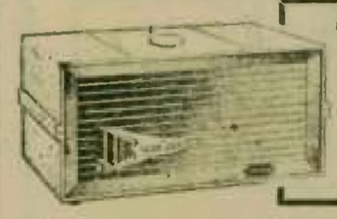

No. KB-163
**$22.95**

Supplies 117 volt AC 60 cycle voltage at 125 watts continuously from 12 V. DC battery. Highly efficient, no vibrators, uses four TXB-9 transistors. Has three foot cord with plug to fit into lighter receptacle and standard electrical female output. Size: 5¼" x 5¼" x 4". Shipping weight 5 lbs.

**Factory Assembled Transverter**
No. RA-584 ..... **$29.95**

PENTRON Humi-Zon

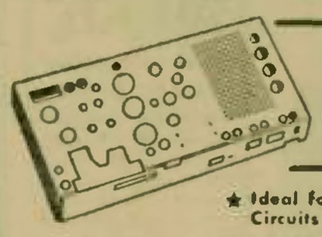
## HUMIDIFIER



Mfr's. 1961 List $29.95
**$9**
No. X-917

This Pentron HUMI-ZON is a precision instrument designed to raise the humidity in a room to the healthful level of 40% relative humidity and to keep it at that level automatically. The HUMI-ZON also circulates air in the room through a special filter which removes most dust, dirt, pollen and other air born impurities. To use, simply fill reservoir with ordinary tap water, plug into 110-120 volts AC line and begin enjoying the healthful benefits of the HUMI-ZON humidifier now. Handsomely styled in two-tone vinyl with aluminum front panel. Size: 6½" h x 15" w x 7½" d. Shipping weight 10 lbs.

PRE-PUNCHED **ALUMINUM CHASSIS**



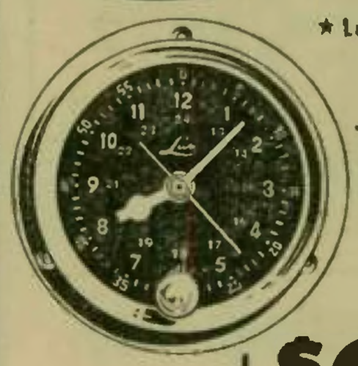
No. X-927
2 FOR **99c**

★ Ideal for Experimental Circuits

15⅜" x 7½" x 2¼" All Aluminum chassis. Pre-punched with holes for tube sockets, transformers, coils, switches and many other parts. Ideal for building power supplies, transmitters, receivers, etc. This super bargain is available in limited supply so stock up now. Shpg. wt. 4 lbs.

LUX MARINE Accessory **CLOCK**

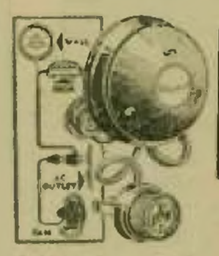
★ Luminous 24-hr. Dial



No. EA-70
Plus 90c F.E.T.
**$9**

Lux Precision movement with jeweled balance stud and screw. This handsome clock is moisture and shock resistant. Practical and nautical, at home, in runabout, cruiser, or landlubber's den. Can be surface or flush mounted. Requires 3⅛" hole for flush mounting. Sweep second hand. Shpg wt. ½ lb.

## Temptrol Automatic FAN CONTROL



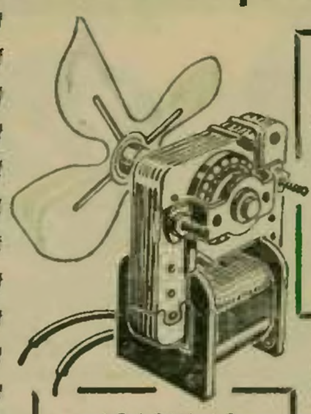
No. SW-280
ONLY **$4.99**

Thermostatic Operation
MADE IN U.S.A.

STARTS fan when room gets warm. | TURNS FAN OFF when room cools.

New automatic temperature control for all types of fans. No wires to connect, just plug "Temptrol" into any wall outlet and plug your fan into the outlet on the "Temptrol". Dial desired temperature and let "Temptrol" keep you cool automatically. Move from room to room wherever you use a fan, bedroom, kitchen or family room. 110-125 volts A.C., 60 cps. Shipping weight 1½ lbs. Limited Supply.

## 1 and 2 Speed FAN MOTORS & BLADES



AS LOW AS **$1.98**

**Your Choice of Motors**

| 1-SPEED | | 2-SPEED | |
|---|---|---|---|
| 4" BLADE No. MO-98 | $1.98 | 4" BLADE No. MO-101 | $2.96 |
| 6" BLADE No. MO-99 | $2.59 | 6" BLADE No. MO-102 | $3.31 |
| 8" BLADE No. MO-100 | $2.98 | 8" BLADE No. MO-103 | $3.97 |

Motors deliver up to 1500 rpm. Ideal for cooling and ventilating all types of electronic equipment. Motors are of the squirrel cage induction type with shaded poles for self starting. Your choice of one or two speed motor with 4", 6" or 8" blade. Shipping weight 4 lbs. For 110-125 volts AC 60 cps.

SWITCHES FOR ABOVE:

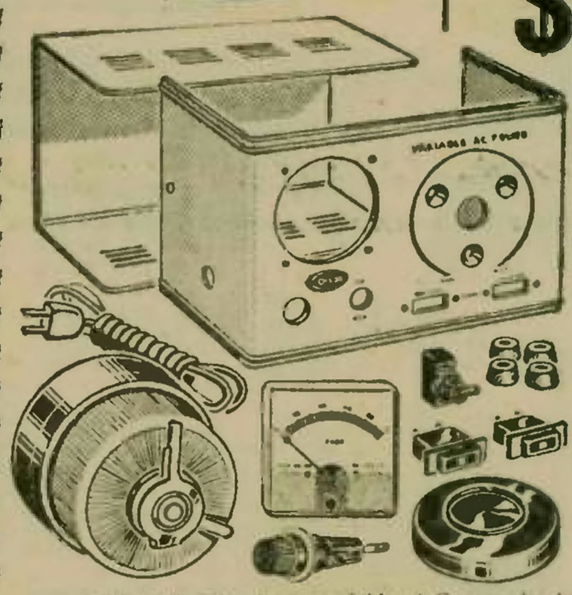
| | |
|---|---|
| For Two Speed Motor, No. SW-275 | 59c |
| For One Speed Motor, No. SW-238 | 29c |
| A.C. Line Cord, No. W-43 | 29c |

300 Watt Variable

## A.C. SUPPLY KIT

Olson

No. T-280
**$13.99**




★ 0-140 VOLTS AC CONTINUOUS ★

Auto transformer type variable A.C. supply in kit form for industrial, electrical, chemical physics and radio-TV servicing. Locates causes of intermittent operation in radio and TV sets by allowing voltage to be raised or lowered until component breakdown occurs. Provides source of any A.C. voltage from 0 to 140 volts up to 300 watt capacity. For lab experiments and demonstrations. Front panel mounted A.C. receptacles, fuse, meter, power switch and voltage control. Includes complete and illustrated instructions for ease of assembly. For 110-125 volts A.C. only. Size: 9" W. x 6¾" H. x 6½". Shipping weight 12 lbs.

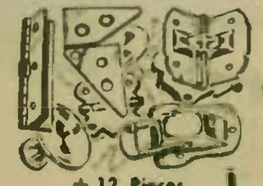


## OCTAL SOCKET KIT

No. AS-849 Kit of 6 **99c**

★ Molded Type

Kit of 6 standard Octal sockets. All molded type. Some are saddle type mount and some are for snap ring mounting. Terminal lugs are all clearly numbered. Shpg. wt. 1 lb.

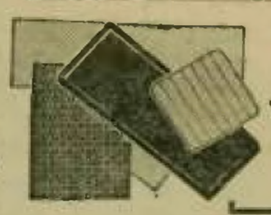


## Cabinet Hardware Kit

No. AS-847 **99c**

★ 12 Pieces

Generous assortment of all kinds of cabinet hardware. You're sure to find just what you need to repair furniture or cabinets. Kit contains several kinds of hinges, knobs and fasteners. Shipping weight 2 lbs.



## Metal Grille Kit

No. CA-283 **99c**

Kit of 10 assorted pieces of metal grille. Ideal for use as speaker grille in radio, TV or phono. Makes excellent grilles for ventilation openings. Shipping weight 4 lbs.



## 25 Pc. Metal KIT

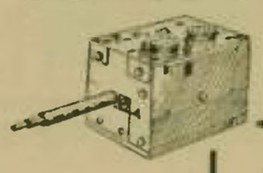
No. CA-295 **99c**

★ Aluminum & Steel

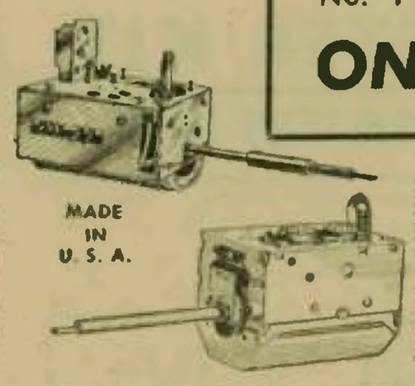
Kit includes 25 pieces of metal panels, brackets and plates plus at least one pre-punched aluminum chassis. Chassis alone is worth this low price. Metal plates and panels can be cut and bent to form a chassis of your choice. Shpg. wt. 15 lbs.

# PARTS BARGAINS!

★ LIMITED QUANTITIES
★ STOCK-UP NOW



No. TV-109 **ONLY.. $1.99**



MADE IN U. S. A.

Popular Standard Coil Tuners. All kinds, all sizes, less tubes. Ideal for repair parts. Install new tubes and tuner may be in working order. Quantities are limited so stock up now. Shpg. wt. 3 lbs.

Maj. Gen. Robt. H. Booth, 4549 Fairfax Ave., Ft. George G. Meade, Md., wins choice of merchandise worth $5 from Olson's "Treasure Hunt." See back cover for instructions.



MADE IN U. S. A.

As Low As **99c** SET OF 4

★ WOOD
★ METAL
★ PLASTIC

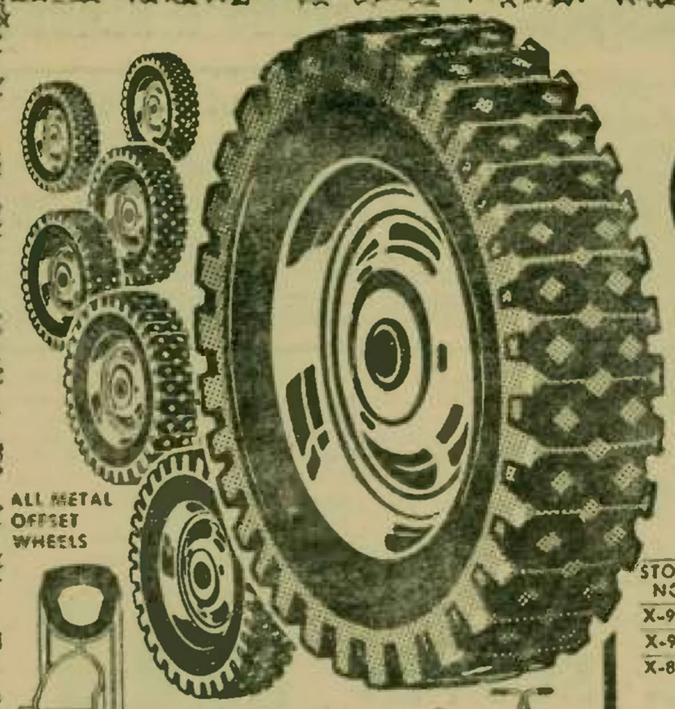
Legs of all sizes and finishes. Ideal for building end tables, etc. Some are finished and have brass ferrules, some are unfinished and can be painted to match your furniture.

## FURNITURE LEGS

WOOD

| STOCK NO. | LEN. | FINISH | Brass Ferrules | Price Per Set of 4 |
|---|---|---|---|---|
| CA-285 | 3" | UNFIN. | NO | $ 99 |
| CA-286 | 5" | BLONDE | NO | $1.19 |
| CA-287 | 6" | UNFIN. | NO | $1.19 |
| CA-288 | 7" | UNFIN. | NO | $1.19 |
| **PLASTIC** | | | | |
| CA-289 | 3" | BLONDE | NO | $ 99 |
| CA-290 | 3" | WALNUT | NO | $ 99 |
| CA-291 | 3" | MAHOG. | NO | $ 99 |
| CA-292 | 4" | BLONDE | YES | $1.29 |
| **METAL** | | | | |
| CA-293 | 28" | BRASS | -O- | $5.99 |

# 7-inch WHEELS



ALL METAL OFFSET WHEELS

72¢ EACH

No. X-903

- Semi-Pneumatic
- Deep Tread
- Bearing Bore ½"
- Diameetr & Tire Width 7"x1½"
- Hub Length 1⅜"
- Self Lubricating Bearing

## MORE WHEEL BARGAINS!

## 6"- 7"- 8" WHEELS

• Semi-Pneumatic • Deep Tread

SELF-LUBRICATING BEARING

| STOCK NO. | BEARING BORE | DIAMETER & TIRE WIDTH | HUB LENGTH | PRICE EACH | LOTS OF 4, EACH |
|---|---|---|---|---|---|
| X-904 | ½" | 6"x1½" | 1½" | .89 | .79 |
| X-903 | ½" | 7"x1½" | 1⅜" | .72 | .72 |
| X-898 | ½" | 8"x1½" | 1⅜" | .99 | .88 |

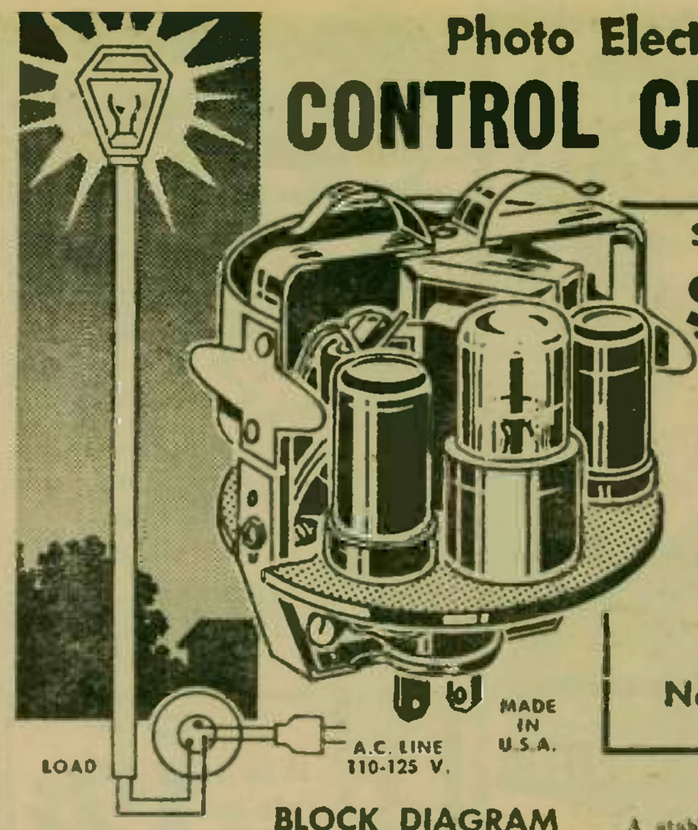
STEEL BALL BEARING

| STOCK NO. | BEARING BORE | DIAMETER & TIRE WIDTH | HUB LENGTH | PRICE EACH | LOTS OF 4, EACH |
|---|---|---|---|---|---|
| X-905 | ½" | 6"x1½" | 1½" | $1.29 | $1.17 |
| X-906 | ½" | 7"x 1½" | 1¾" | 1.39 | 1.25 |
| X-907 | ½" | 8"x1½" | 1½" | 1.49 | 1.37 |

MANY USES: Replacement, Remodeling, Building, etc.

Shipping weight 3 lbs. ea.

# Photo Electric CONTROL CHASSIS



LOAD

A.C. LINE 110-125 V.

MADE IN U.S.A.

SOLD FOR ~~$5.59~~ IN 163 CAT.

NOW $2.99

No. SW-220

## HOME USE

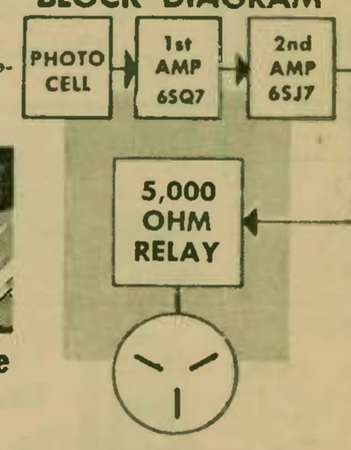
Turns Yardlights, Houselights on at Night—Off in the Morning



## Commercial Use

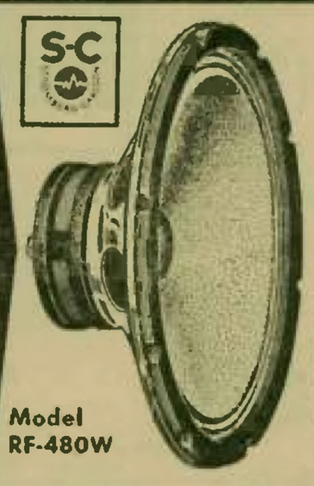
Turns Display Signs Etc. On at Night—Off in the Morning

## BLOCK DIAGRAM




A stable 2-stage photo re... With tubes and instructions. ... lay has double break S.P.S... contacts. Especially sensitive ... light in the blue portion of ... spectrum. Sensitivity can ... varied to suit illumination ... els. Delay circuit in light ... fier prevents premature trigg... ing of relay due to headlight ... lightning, etc. Can be used ... turn on display sign at ni... or turn displays off in morni... Complete with tubes and ... structions. Appearance ... vary from illustration. Si... 4¼" diameter; 3" above chas... 2¼" below chassis. Buy n... at a fraction of the mfr's ori... nal cost. Used. 110-125 ... A. C. Shipping weight 4 lbs.

# SALE SALE SALE SALE SALE SALE SALE



Model RF-480W

Stromberg-Carlson

## 8" WOOFER

$4.99 No. S-511 $9.99 in 1162 Cat.

A single cone speaker of remarkable range and versatility. The new "Barite" ceramic magnet provides a very high flux concentration in the air gap. This combined with an exceptionally long voice coil, give optimum damping and maximum control of the cone. Response 50-5,000 CPS. Shpg. wt. 2 lbs.

*Quantity Limited, Buy Now!*

## Deluxe CONSOLE 2-WAY SPEAKER SYSTEM



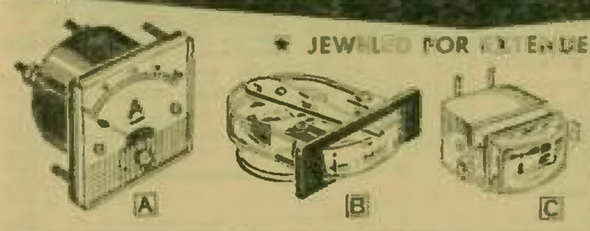
$19 in 563 Cat.

NOW ONLY $15

No. S-559

An 8" woofer and two 4" tweeters plus a beautiful piece of furniture. Contemporary styled wood cabinet is finished in grained mahogany and contrasting "acoustic-cloth" grille. Speaker system is mounted and wired. Impedance 8 ohms. Size 28" high x 23½" wide x 14" deep. Shpg. wt. 84 lbs.

# Olson PANEL METERS

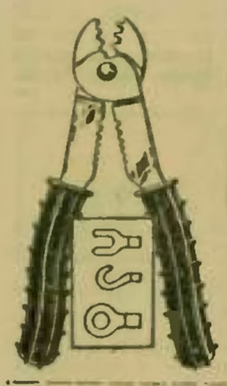



★ JEWELED FOR EXTENDED LIFE

A complete line of high quality meters at a "value-plus" price. Each meter is carefully packed complete with mounting and operating instructions. These fine meters can be used whenever a rugged compact meter is required. Order now! Shipping weight ¼ lb ea.

| TYPE | STYLE | SIZE | RANGE | INT. RES. | STK. NO. | PRICE |
|---|---|---|---|---|---|---|
| DC Microammeter | A | 1⅝x1⅝x1⅞" | 0-50 DC μa | 900 ohms | ME-100 | $5.95 |
| | A | " | 0-500 DC μa | 195 ohms | ME-101 | 4.95 |
| DC Milliammeter | A | " | 0-1 DC ma | 75 ohms | ME-97 | 3.95 |
| | A | " | 0-50 DC ma | 3.1 ohms | ME-98 | 3.95 |
| | A | " | 0-100 DC ma | 3.1 ohms | ME-99 | 3.95 |
| DC Ammeter | A | " | 0-20 DC amp | 3.1 ohms | ME-96 | 3.95 |
| DC Voltmeter | A | " | 0-15 DC V. | 15K ohms | ME-102 | 3.95 |
| | A | " | 0-150 DC V. | 150K ohms | ME-103 | 3.95 |
| | A | " | 0-300 DC V. | 300K ohms | ME-104 | 3.95 |
| AC Voltmeter | A | " | 0-15 AC V. | 15K ohms | ME-105 | 4.50 |
| | A | " | 0-150 AC V. | 150K ohms | ME-106 | 4.50 |
| | A | " | 0-300 AC V. | 300K ohms | ME-107 | 4.50 |
| "S" Meter | A | " | 500 μa | XXXX | ME-108 | 4.50 |
| | B | 1⅝x1¼x1⅛" | 500 μa | | ME-109 | 4.95 |
| "VU" Meter | A | 1⅝x1⅝x1⅞" | 100 ma | 3.9K ohms | ME-110 | 5.95 |
| | B | 1⅝x1¼x1⅛" | 100 ma | 3.9K ohms | ME-111 | 5.95 |
| FM Tuning Meter | C | ⅞ x ⅝ x 1⅝" | XXXX | 1.3K ohms | ME-112 | 3.95 |

## CRIMPING TOOL WITH TERMINALS



★ Cuts Wire
★ Strips Wire
★ Crimps Terminals

$1.49 No. TL-369
3 for $4.00
Lots of 12, Ea $1.25

Made of tempered tool steel, chrome plated with insulated handles. Size: 8⅛" long. Includes generous assortment of terminals. Shipping weight ½ lb.

Package of 41 Assorted Terminals No. TL-376 ..... Per Pack $1.00

## Portable LAMP

6 FT. CORD



Made in U.S.A.

No. X-617

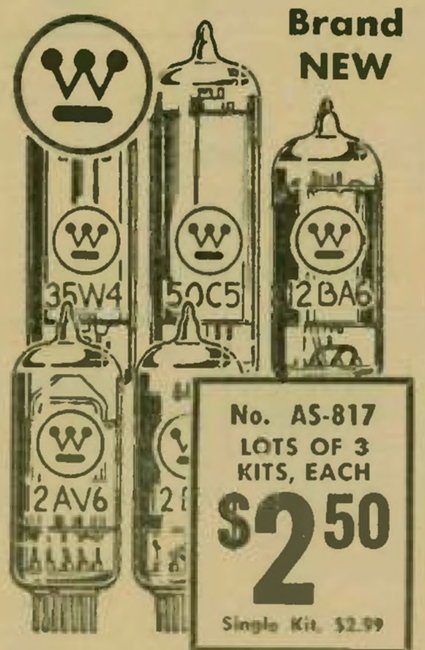
$1.72

3 for $5

The handiest lamp ever. Just clamp onto anything. Position it over your work area. Move it about as you move. Has 4½" dia. reflector and 6 ft. A.C. cord. Shipping weight 2 lbs.

## Westinghouse 5 Pack TUBE KIT

Brand NEW




No. AS-817
LOTS OF 3 KITS, EACH
$2.50
Single Kit, $2.99

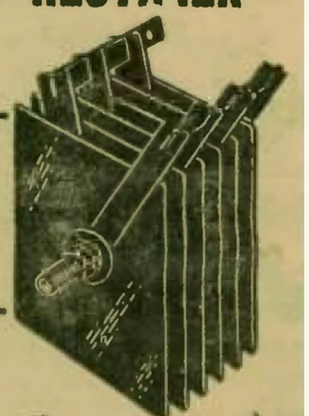
Each kit contains 5 brand new Westinghouse tubes—1 each as listed: 35W4, 50C5, 12DA6, 12AV6, 12BE6. Most common types for AC DC home radios. Shpg. wt. ¾ lb.

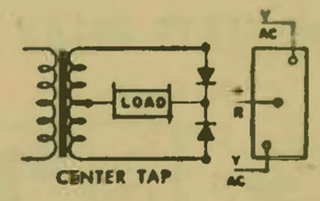
## BATTERY RECTIFIER

★ 100 AMP.
★ FOR 6 and 12 VOLT

Mfg. Type No. JD4346B. Exact replacement for all fast charge 6 and 12 volt battery chargers. Delivers up to 100 amps. Brand new, heavy duty selenium rectifiers made by a nationally famous manufacturer. Size of plates 5" x 6" x ⅜" thick. Equipped with mounting stud. Shpg. wt. 4 lbs.

No. X-499
$14.47
3 for $40.00
12 @ $12.50 Ea.








Ideal for Replacement or "Do-It-Yourself" Units

## PARTS VALUE – Photo Electric Control Chassis

A wonderful buy of parts, transformers, relays, controls, etc. All parts OK but units not operable. Buy now & save. Used. Shipping weight ... lbs.

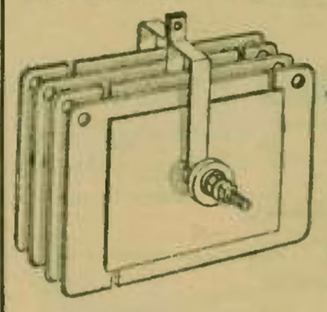
BUY NOW! 99¢

No. X-895

$1.32 in 763 Cat.

## 100 AMP BATTERY RECTIFIER

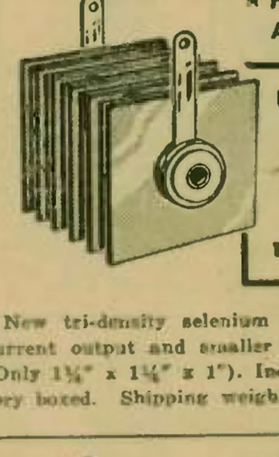
*FOR 6 AND 12 VOLT*



No. RE-68
$8.93
3 for $24

Similar to above except has smaller plate area. Brand New Factory Boxed. Size: 4½" x 6" x 3". Shpg. wt. 3 lbs.

## 500 MA Selenium RECTIFIER



★ Fills 90% of All Needs

No. RE-67
89¢
3 for $2.50
10 @ 73c ea.

New tri-density selenium gives greater current output and smaller physical size. (Only 1¼" x 1¼" x 1"). Individually factory boxed. Shipping weight ¼ lb.

## Silicon "UNISTAC"



$1.68 No. RE-34

Mfgrs. Type: TV-500. RMS A.C. Input: 280 Volts. Peak Inverse Voltage: 400 Volts. Output D.C. Current: 750 MA. Size: 1½" x 1½" x 1". Shipping weight ¼ lb.

S. R. Maynard, 2561 W. Michigan Ave., Battle Creek, Mich., wins choice of merchandise worth $6 from Olson's "Treasure Hunt." See back cover for instructions.

## Hi-Density SELENIUM RECTIFIERS



★ Provide More Power in ½ The Size
★ RMS A.C. Input 130 Volts

Mfgrs: Type: TO65/075 Size: 1¹⁵/₁₆x1¹⁵/₁₆x½"
Replaces: Any Rectifier up to 75 MA
Shipping weight ¼ lb.
No. RE-35 ..... Ea. 44c

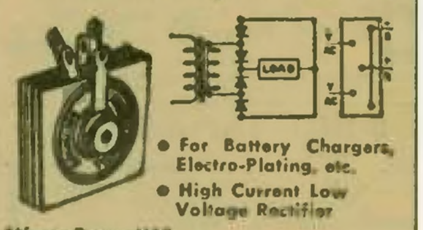
Sarkes Tarzian

## SILICONE DIODE



1.5 amp, 200 PIV. AC RMS 140. ½" dia. x ⅝" deep. With 1½" leads. Shpg. wt. ¼ lb.
2 for $1.00
No. RE-79 ..... Ea. 59c

## Selenium Bridge Rectifiers




- For Battery Chargers, Electro-Plating, etc.
- High Current Low Voltage Rectifier

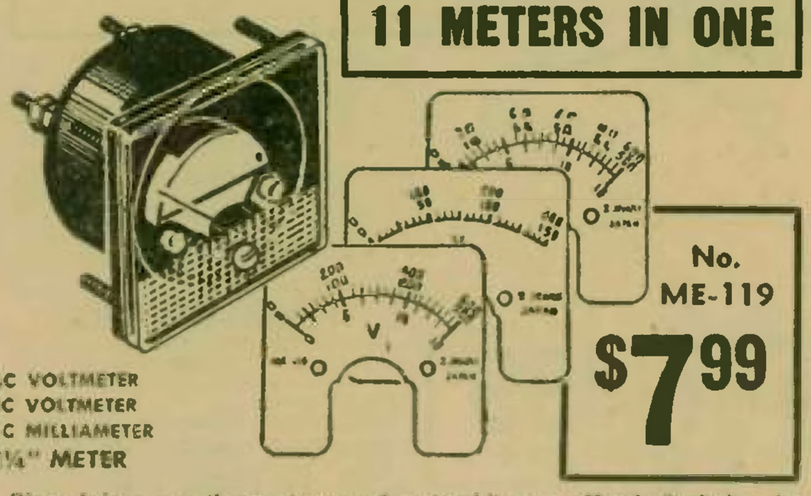
Mfgrs. Type: M18
A.C. Input Voltage: 25 volts
D.C. Current Output: 1.2 amps
Size: 2"x2"x3¼"
Shpg. wt. ¼ lb.
No. RE-2, 3 for $4.50 ..... $1.69

Mfgrs. Type: J2981
A.C. Input Voltage: 36 volts
D.C. Current Output: 1.5 amps
Size: 1½" x 1½" x 1½"
No. RE-37, 3 for $5.00 ..... $1.71

Universal

# PANEL METER KIT

## 11 METERS IN ONE



AC VOLTMETER
DC VOLTMETER
DC MILLIAMETER
2¼" METER

No. ME-119
$7.99

Olson brings you the most unusual meter kit ever offered. Basically the meter is a precision 2-jewel 0-1 ma. movement. It comes complete with all resistors, adaptor knobs, meter faces, hardware and instructions to make 11 different panel meters. Olson even supplies the screwdriver to put it together. The following meters can be made with this kit: AC voltmeter, range: 0-15 V., 0-150V., 0-300 V. DC milliammeter, range: 0-1 ma., 0-50 ma., 0-100 ma., 0-500 ma. DC voltmeter range: 0-15 V., 0-150 V., 0-300 V., 0-600 V. With the simple step-by-step instructions included you can make almost any meter you need. Meter can be changed from one type to another quickly and conveniently. Shipping weight 2 lbs.

Extra Meter for Above Kit, No. ME-115 ..... $4.95

# YOUR CHOICE 66¢

ALL SENSATIONAL BARGAINS!

## PUSH SWITCHES



No. AS-473
Kit of 5

**66¢**

Five S. P. S. T. miniature push switches, spring return. Size: ¾"x¾" Shipping weight ¼ lb.

### 2% Precision Resistors 66c



Kit of 25 No. R-52

Each marked with resistance. Values from low, low ohms to many million ohms. Shipping weight ¼ lb.

### Volume Control Kit 66c



Kit of 15 No. VC-233

Assorted lengths and types of shafts. Includes carbon and wirebound elements. For radio & TV repair work. ½ lb.

### 9'x12' Dropcloth 66c



No. TL-253

Sturdy, seamless, transparent plastic can be used for table spread, to protect indoor and outdoor furniture. ½ lb.

### Inline ¼" Jacks 66c



Kit of 3 No. PL-61

Inline ¼" phone jacks. Fit all standard ¼" phone plugs. Size: ⅝" x 1½" long. ¼ lb.

### Mike Transformer 66c



No. T-348

Miniature mike transformer. Primary 5 ohm, secondary 500 ohms with 50 ohm tap. Size: ⅞"x⅝"x⅝". ¼ lb.

### Dynamic Earphone 66c



2000 Ohms No. PH-77

3 ft. of cord and plug. Response to 4,000 cycles. Shipping weight ¼ lb

### Assorted Knobs 66c



★ Kit of 25, No. AS-482

25 assorted knobs for radio and TV replacement. Variety of styles and colors. Shipping weight 2 lbs.

### Microswitches 66c



KIT of 5 No. SW-166

Kit of 5. May be assorted. Shipping weight ½ lb.

### 7 Pin Sockets 66c



Kit of 15 No. AS-570

Kit of 15 — 7 pin miniature tube sockets. Wafer type construction Shipping weight ¼ lb

## CLOSE OUTS

**WALL TELEPHONE,** made by Automatic Electric Co. Has separate ear phone. Shipping weight 8 lbs.
No. PH-89 — **$2.50**

**TAPE RECORDER MOTOR** 4 pole, fully enclosed motor for tape recorder or turntable. Size 2⅜x2⅜x2⅜" with ⅛" long shaft and pully. 110-125 volts AC.
No. MO-94 — **$2**

**ELECTROLYTIC CAPACITOR,** twist prong type. Size: 4" x 1⅞" 40-40-80 MFD. @ 450 volts.
No. C-825 — **3 for $4**

**SPEAKER ENCLOSURE,** for 12" speaker. Slim-line design. Size: 25" x 19" x 10½". Fiber glass lined interior. Finished with wood grained synthetic material. Shipping weight 20½ lbs.
No. CA-251 Walnut
(was $19.50 in 263) — **$14**
No. CA-252 Mahogany
(was $19.50 in 263) — **$14**

**TIMING MOTOR 1/30 RPM.** Self Starting with built-in gear train. For 110-125-volt A. C., cps. Shipping wt. ½ lb.
No. MO-73 — **3 for $2**

**MULTIPLEX ADAPTER,** works with any FM tuner with a multiplex jack. Self-powered, operates on 110-125 volts A. C., 60 cps. Shipping weight 4 lbs.
No. RA-519 ($24.95 in 1062 cat.) — **$10**

**WEBCOR 4-SPEED CHANGER** Has heavy-duty 4-pole motor and GE magnetic stereo cartridge. Completely assembled and mounted on a metal base, with all cables. Shipping weight 14 lbs.
No. RP-244 — **$24.95**

**TV LEAD-IN INSULATORS,** 3½" length with strap to fasten to mast.
No. X-260 — pkg. of 25 **$1**

**TUBULAR CAPACITOR,** Value .1 mfd x 200 volts, compact size, ideal for transistor circuits. Only ⅜" x ¼". Poly jacket. ¼ lb.
No. C-874 — **6 for $1**

**FILTER CONDENSER,** can type with twist prongs. 500 + 250 + 50 @ 16 volts DC. Ideal for low voltage power supplies. Shipping weight ½ lb.
No. C-904 — **3 for $1**

**MOTOR,** Heavy duty squirrel cage design. Ideal for experimenters and students. Operates on 95 volts AC @ 60 cps. Shipping weight 4 lbs.
No. MO-75 — **99c**

**MOTOR,** Heavy duty squirrel cage design with shaded poles. Ideal for experimenters and students. Operates on 90 volts AC @ 60 cps. Shipping weight 4 lbs.
No. MO-76 — **2 for $1**

**SELENIUM BRIDGE RECTIFIER.** 25 volts 1.2 amps. Shipping weight ½ lb.
No. RE-90 — **$1**

**24 VOLT RELAY.** Hermitically sealed. SPST contacts. Has 1 foot of 6 conductor cable. Shipping weight 3 lbs.
No. SW-197 — Kit of 4 **for 66c**

**NEON INDICATOR LAMPS,** kit of 10 snap-in neon indicators. Mounts in ⅝" x 1⅜" hole. 117 volts AC. 1 lb.
No. AS-811 — **$1**

**PILOT LAMP SOCKETS,** kit of 20 standard screw base pilot lamp socket. ½ lb.
No. PL-98 — **50c**

**BILLING KADDY,** aluminum kaddy holds a supply of billing forms. Size: 10x6½". Has self storing compartment. 2 lb.
No. F-2 ($3.49 in 163 catalog) — **$2**

**WEBCOR EXTENSION SPEAKER.** 4-in. PM speaker mounted in portable carrying case. Storage space for 7" records or tape reels. 8 lb.
No. S-543 (was $4.99 in 1162 Cat.) — **$3**

**GENERAL ELECTRIC NE-2,** Neon Lamp. Requires 50,000 OHM Resistor for 117 Volt operation.
No. PL-51 100 for $5.85 Pkg. of 35 **$1**

**PRINTED CIRCUIT SOCKETS** Kit of 10. 9 pin sockets for printed circuit boards. ½ lb.
No. KB-155 — **2 kits for $1**

**TELEPHONE LAMP.** Attractive old style upright telephone, brass plated and made into lamp (less shade). 6 lb.
No. PH-78 ($12.95 in 562 cat.) — **$14**

**MALLORY ½ WAVE RECT.,** selenium AC input 130 volts. DC output 300 MA. ½ lb.
No. RE-52 (69c in 761 cat.) — **3 for $1**

**MALLORY ½ WAVE RECT.,** selenium AC input 175 volts. DC output 250 MA. ½ lb.
No. RE-54 (69c in 761 cat.) — **4 for $1**

**MALLORY ½ WAVE RECT.,** selenium AC input 160 volts. DC output 200 ma. ½ lb.
No. RE-57 (49c in 761 cat.) — **4 for $1**

**MINIATURE ELECTROLYTIC CONDENSER,** 4 MFD. @ 50V. Ideal for transistor circuits. Only ⅞" long x ⅜" dia. Poly jacket.
No. C-176 — **20 for $1**

**RCA 6" PM SPEAKER,** extra heavy duty magnet for greater power capacity. 2 lb.
No. S-536 — **$1.49**

**FUSE KIT,** 6 assorted fuses. Slow blow, ½ lb.
No. FU-7 (99c in 563 cat.) — **76c**

**ELECTROLYTIC CAPACITOR.** dual 10 mfd. @ 450 V. DC. Screw mounting. ½ lb.
No. C-948 — **5 for $1**

**FILTER CONDENSER** 40-40 MFD x 450 v. ½ lb.
No. C-997 (Tubular type) — **2 for $1**

**FILTER CONDENSER** 60-40 MFD x 150 v. ½ lb.
No. C-996 (Tubular type) — **3 for $1**

**ELECTROLYTIC CAPACITOR,** can type Twist prongs. 15 + 15 @ 350 volts. ½ lb.
No. C-927 (89c in 162 Cat.) — **3 for $1**

E. Isch, 4636 N. 39th Pl., Phoenix 18, Ariz., wins choice of merchandise worth $5 from Olson's "Treasure Hunt." See back cover for instructions.



# YOUR CHOICE 99¢

4 FOR $3.50



### SAFE-T-GLUE 99c



★ 1 Pint No. TL-423

Cements wood, leather, cloth, china, etc. In handy poly-squeeze bottle with applicator top. Dries clear. 1 pint bottle. ½ lb.

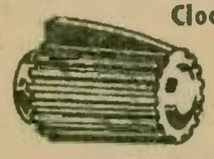
### Calibrated Knobs 99c



Kit of 4 No. KN-14

Grey finish with black numerals. Dial diameter: 1½" Fits ¼" shaft. ¾ lb.

### Clock Radio Knobs 99c



Kit of 25 No. KN-12

Various colors for all makes and models of clock radios. 25 assorted colors. ½ lb.

### MATCHED KNOBS 99c



No. KN-8 Kit of 5

Matched set of 5 white knobs with polished gold inlay. Set screw type for ¼" dia. shaft. ¼ lb.

### Dial Cord 99c



100 Feet No. X-182

Finest nylon glass core. Standard thin .028 dia. ½ lb.

### PENLIGHT BATTERY HOLDERS 99c



Kit of 3 No. BA-91

Easy snap together construction. One each 4, 6 and 8 cell holders ¼ lb.

### Battery Holders 99c



Kit of 10 No. BA-55

8 penlite, 3 miniature penlite 3 flashlight and one 4 penlite cell holders Shipping weight ½ lb.

### Loopsticks 99c



Kit of 3 No. L-75

Kit of 3. All directional radio antenna. Pulls in distant radio stations with remarkable ease. ½ lb.

### Speaker Control 99c



No. SW-133

Reduces volume of one speaker while gradually increasing volume of other speaker. With hardware. ½ lb.

### BOTTLE LIGHT 99c



No. X-867

Make your own lamp. Socket, cord, plug and switch. Press-on fitting fits snugly into bottle. ½ lb.

### Speaker Faders 99c



Kit of 3 No. VC-231

Permits control of both set speaker and remote speaker. 1⅛" diameter x 1" long. With instructions. Shipping weight ½ lb.

### Switches & Controls 99c



Kit of 12 No. AS-485

12 assorted selector switches and volume controls. Shipping weight 2 lbs.

### ALLIGATOR CLIPS 99c



★ Kit of 14 No. AS-447

Kit of 14 insulated Alligator clips, 7 red clips and 7 black clips. Asst. sizes. ½ lb.

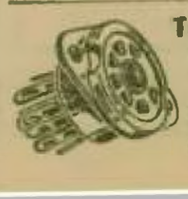
### Transistor Sockets 99c



Kit of 10 No. AS-444

Takes transistors with three contacts in line or triangle (JEDEC). Size: ⅝" x ¼" ½ lb.

### Tube Sockets 99c



Kit of 6 No. AS-479

Kit of 6. Consists of 3 each miniature 7 pin and 9 pin tube sockets. Shipping weight ¼ lb.

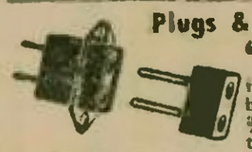
### Terminal Strip Kit 99c



No. AS-504

48 Pieces, 12 ea. 1 through 4 lugs. Solder type with mounting lug. ½ lb.

### Plugs & Sockets 99c



6 Pairs No. PL-68

Assorted colors, ivory, red and black. Plug size: ¾" x ⅝". Receptacle ½"x½". ¼ lb

### A.C. Chassis Sockets 99c



Kit of 8 No. X-803

Bag of 8. Rated for 117 volts, 10 amps. Mount in ⅝" x 15/16" hole. ½ lb.

### A.C. Plugs 99c



Kit of 12 No. PL-58

Brown, black and grey rugged plugs. Rated for 117 volts 10 amps. ¼ lb.

### 12 A.C. Plugs 99c



6 Sets No. W-349

6 male and 6 female sockets Grey bakelite. 10 amps, 117 Volts. ¾ lb.

### Knife Switches 99c



Kit of 5 No. SW-155

Double pole, double throw knife switches with screw terminals. Size: 1½" x 2½". ½ lb.

### Toggle Switches 99c



Kit of 3 No. SW-154

(SPST and DPDT). Rated @ 3 amps 125 volts Size: 1⅛" x ¾" ¼ lb.

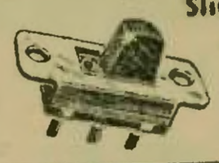
### Center-Off Toggle 99c



Kit of 2 No. SW-156

DPDT center off toggle switches. Rated 6 amps @ 125 volts or 3 amps @ 250 volts Size: ⅝" x 15/16" x ¾". ½ lb

### Slide Switches 99c



Kit of 6 No. SW-153

Assorted SPST, SPDT, DPST and DPDT. 1 amp. 125 volts Size: ½" x ⅞" x 1½". ½ lb.

### Push Button SWITCH KIT 99c



No. SW-173

INCLUDES: cable, connectors, mounting plate, hardware and instructions. For rear seat speaker installations. Shipping weight ½ lb.

### Clip Leads 99c



Kit of 10 No. X-804

10 leads 14" long with insulated miniature alligator clips attached one to each end. ½ lb.

### Binding Posts 99c



Kit of 10 No. AS-439

Will take alligator clip, banana plug, tip plug, spade lug, or wire. ½ lb.

### Phono Cable 99c



35 Feet No. W-355

35 feet of shielded, extra flexible phono cable. Single center conductor. Shipping weight ½ lb.

### AUDIO CABLE KIT 99c



No. AS-481

Consists of 3' audio lead with pin plug, other end tinned and stripped; 6' audio lead with pin plugs; 1 dual inline jack. ½ lb.

### FLEXIBLE "Y" ADAPTOR KIT 99c



Kit of 2, No. W-423

Both have 1 male and 2 female connections with 3¾" flexible leads. Total length 5⅝". ½ lb.

### Dual Inline Jacks 99c



Kit of 4, No. AS-476

Dual inline phone jacks allow connection of two audio cables having phono pin plug ends. Size: ½" diameter x 1½" long. ½ lb.

### Lug Terminals 99c



Kit of 13 No. AS-438

Size: ⅝" x ⅝" lengths: 1½" 2¼" & 2¾". ½ lb.

### Phono Pin Plugs 99c



Kit of 5 No. PL-57

All metal. New design makes soldering easy. Size: ⅝" diameter x 1⅝" long. ½ lb.

### Phono Pin Plugs & Jacks 99c



3 Pairs No. AS-440

3 plugs and jacks for making audio connections. Size: ⅜" diam. x 1⅜" long. ½ lb.

### Pin Plugs & Jacks 99c



4 Pairs No. PL-70

2 red, 2 black.

Knurled nut tightens against wire making soldering unnecessary to pin plugs. Jacks mount in ⅝" hole. ½ lb.

### Phone Plug Sets 99c



2 Pairs No. PL-91

Two pair of male and female ¼ inch phone jacks and plugs. Color coded black and red identification. ½ lb.

### Phone Plug Adaptors 99c



Kit of 2 No. AS-471

Convert standard ¼" phone plugs to RCA type phono plug. Size: 1" diameter x 2⅛". ½ lb.

### Phono Pin Jacks 99c



Kit of 6 No. AS-441

Kit of 6. Takes RCA type pin plug. Mount on single ¼" hole. Plated. Size: ⅜" x ⅜" Shipping weight ¼ lb.

### "Y" Adaptor Kit 99c



Kit of 2 No. X-817

One has 3 female connections, other has 2 female and 1 male connection. For many hi-fi uses. Size: 1⅛"x1⅛". ½ lb.

### Miniature Plugs & Jacks 99c



6 Pairs No. AS-442

6 assorted pairs. Jacks are closed circuit type. Ideal for transistor earphones and receivers. ½ lb.

### PLUGS & JACKS 99c



Kit of 4 pairs No. PL-63

Kit of 4 pairs banana plugs and jacks. 2 red pairs and 2 black pairs With soldering lug. Shipping weight ½ lb.

### Miniature Phone Plugs & Jacks 99c



3 PAIRS. No. AS-642

Kit of 3 pairs of miniature, shielded, phone type plugs, and shorting jacks. Ideal for remote speaker hookups, small microphones and many other uses. ½ lb.

### SHIELDED Phone Plugs 99c



Kit of 2 No. AS-477

Kit of 2 shielded standard ¼" phone plugs. Plated all metal barrel. Screw terminals. ¼" shaft. Barrel 1⅝" x ½". ½ lb.

### Phono Plug Adaptors 99c



Kit of 3, No. AS-470

Kit of 3 inline adaptors to convert RCA type phono plug to standard ¼" phone plug. Size: ½" dia. x 2⅛". ½ lb.

### ¼" PHONE PLUGS Per Kit 99c



★ KIT OF 4

No. X-253 4 for $3.50

Plugs into ¼" phone jack. ¼ lb.

### ¼" PHONE JACKS 99c



★ Kit of 5 No. AS-445

Open and closed circuit. Takes any standard ¼" phone plug. ½ lb.

### Goodyear Pliobond 99c



No. TL-276

Cements anything, metals, woods, glass, fabrics, etc. Also can be used as a liquid "Spaghetti." ½ pint can. ½ lb.

## Wedge Grip LAMP & SOCKET

12 v. @ .24 amps.
KIT OF 4

NEW



New all glass lamp with wedge grip contacts. GE number 168 bulb. Ideal for hard to reach places. Shipping weight ¼ lb.

No. PL-99

**99c**

### Panel Indicators 99c



No. PL-65—KIT OF 2
(1 red, 1 green) with 6 volt bulbs. ⅝" dia. x 1" long. ½ lb.
Extra Lamps,
No. PL-66, 10 for 99c

### NEON PILOT LIGHTS 99c



Kit of 3 No. KB-90

With neon lamp, jewel and socket. Operates on 115 volts. ⅝" dia. x 1¼". Requires dropping resistor 100,000 ohms. Shipping weight ¼ lb.

### Pilot Lights 99c



Kit of 5 No. PL-64

Jeweled pilot light assemblies with bayonet base sockets. 2 with red jewels, 2 with green and 1 amber. ½ lb.

### 5-Ohm Earphones 99c



Kit of 2 No. PH-36

Response 50 to 4,000 CPS. Size: ¾" x ¾" diameter. ½ lb.

### Midget Soldering Iron 99c



30 Watts No. TL-119
Only 8½" Long

Only ⅜" dia. 6-ft. cord with molded plug. For printed circuit. 105-125 volts AC or DC. ½ lb.

### Jeweler's Screwdrivers 99c



No. TL-118

Five-piece set. 7 blades measuring .080, .070, .055, .040 and .025. ½ lb.

### 6" Diagonal Cutters 99c



No. TL-7

6-in. heavy duty; cuts the finest to the toughest wire. Shpg. wt. ½ lb.

### Needle Nose Pliers 99c



6" Bent

No. TL-247

Nose is bent 90° get into small spaces and corners. ½ lb.

### 6" Needle Nose Pliers 99c



No. TL-5

With side cutters. For Radio and TV repair. 6 inches long. ½ lb.

### Insulated Tube Puller 99c



Bent Type
No. TL-295

7¼" long. Removes tubes from cramped areas. Shpg. wt. ½ lb.

### Insulated Tube Puller 99c



Straight Type
No. TL-294

7½" long for cramped areas. ½ lb.

### Insulating Tape 99c



★ Two 33' Rolls No. TA-5

2 rolls of ¾" wide, self-sticking plastic insulating tape. 2 colors: one roll red, one roll black. ½ lb.

### ELECTRICIAN'S TAPE 99c



66-ft. roll No. TL-268

¾" plastic self-sticking electricians tape. Shipping weight ¼ lb.

...vey C. Moore, Box 62, Blountsville, ...., wins choice of merchandise worth $5 ...m Olson's "Treasure Hunt." See back ...er for instructions.

# RAYTHEON

## New! TUBES

★ Individually Factory Boxed




35W4 TUBE

**39¢**

ORDER NO. Z-274

| TUBE TYPE | ORDER TUBES BY THESE NO'S. |
|---|---|
| 5U4GB | No. Z-267 |
| 6AU6A | No. Z-268 |
| 6C86A | No. Z-270 |
| 6CG7 | No. Z-271 |
| 12AU7 | No. Z-273 |
| 50C5 | No. Z-275 |

**YOUR CHOICE 79¢ EACH**

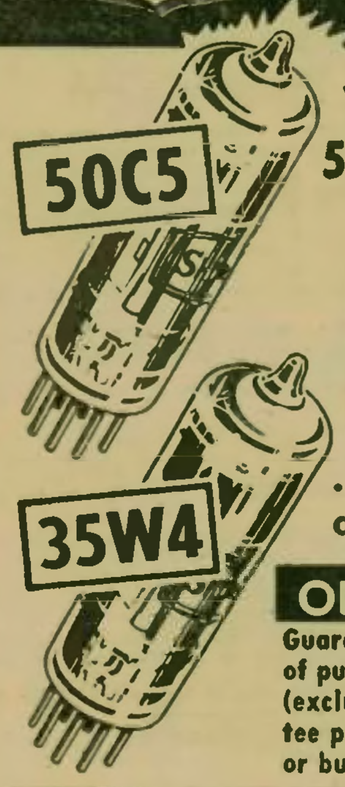
6AX4GTB No. Z-269 **99c**

6SN7GTB No. Z-272 **99c**

MADE BY RAYTHEON INTERNATIONAL

# Shield TUBES

MADE IN U.S.A.




YOUR CHOICE 50C5 or 35W4

## FREE

. . . with each purchase of any 8 Shield Brand Tubes!

**ONE YEAR GUARANTEE**

Guaranteed for a full 12 months from the date of purchase. We will replace any defective tube (exclusive of freight charges) within the guarantee period. This does not apply to broken tubes or burned out filaments.

| TUBE TYPE | PRICE EACH | TUBE TYPE | PRICE EACH | TUBE TYPE | PRICE EACH | TUBE TYPE | PRICE EACH | TUBE TYPE | PRICE EACH |
|---|---|---|---|---|---|---|---|---|---|
| 1B3/1G3 | $ .89 | 5U4GB | $ .60 | 6BQ6 | $1.12 | 6GX6 | $ .66 | 12BE6 | .38 |
| 1J3 | .79 | 5U8 | .84 | 6BQ7 | 1.30 | 6H58 | .82 | 12BH7 | .77 |
| 1K3 | .79 | 5Y3 | .46 | 6BS8 | 1.60 | 6J6 | .71 | 12BL6 | $ .57 |
| 1R5 | .77 | 6AB4 | .54 | 6BU8 | .70 | 6S4 | .62 | 12BQ6 | 1.36 |
| 1U5 | .65 | 6AC7 | 1.22 | 6BX7 | 1.32 | 6SL7GT | .84 | 12BY7 | .77 |
| 1X2 | .95 | 6AF4 | 1.01 | 6BZ6 | .55 | 6SN7GTB | .79 | 12BZ7 | .86 |
| 2AF4 | 1.14 | 6AG5 | .70 | 6BZ7 | 1.20 | 6T8 | .98 | 12D4 | .82 |
| 2CY5 | .71 | 6AH4 | .81 | 6C4 | .45 | 6U8 | .83 | 12DQ6 | 1.06 |
| 3A3 | .76 | 6AH6 | 1.10 | 6CB6 | .55 | 6V6 | .53 | 12SN7GT | .81 |
| 3AL5 | .46 | 6AK5 | 1.20 | 6CD6GA | 1.51 | 6W4 | .75 | 12V6 | .63 |
| 3AU6 | .56 | 6AK6 | .98 | 6CG7 | .61 | 6W6 | .80 | 12W6 | .71 |
| 3AV6 | .42 | 6AL5 | .52 | 6CG8 | .80 | 6X4 | .41 | 12X4 | .56 |
| 3BC5 | .63 | 6AM8 | .78 | 6CL8 | 1.00 | 6X8 | .97 | 13EM7 | 1.08 |
| 3BN6 | .76 | 6AN8 | .93 | 6CM7 | .80 | 7AU7 | .65 | 17AX4 | .67 |
| 3BU8 | .71 | 6AQ5 | .53 | 6CN7 | .70 | 8FQ7 | .74 | 17DQ6 | 1.06 |
| 3BY6 | .58 | 6AS5 | .96 | 6CQ8 | .92 | 12AB5 | .72 | 19AU4 | .87 |
| 3BZ6 | .56 | 6AU4 | 1.10 | 6CS6 | .68 | 12AD6 | .57 | 19T8 | 1.02 |
| 3C86 | .56 | 6AU6 | .65 | 6CU5 | .70 | 12AE6 | .50 | 25BQ6 | 1.40 |
| 3DG4 | .85 | 6AU8 | .88 | 6CY5 | .70 | 12AQ5 | .72 | 25C5 | .58 |
| 3DK6 | .72 | 6AV6 | .53 | 6CY7 | .86 | 12AT6 | .60 | 25CD6GB | 1.52 |
| 3DT6 | .54 | 6AW8 | .90 | 6DA4 | .68 | 12AT7 | .75 | 25DN6 | 1.70 |
| 4AU6 | .64 | 6AX4 | .83 | 6DE6 | .61 | 12AU6 | .48 | 25L6 | .57 |
| 4BC8 | 1.29 | 6BA6 | .56 | 6DK6 | .59 | 12AU7 | .75 | 35C5 | .48 |
| 4BQ7 | 1.29 | 6BC5 | .62 | 6DQ5 | 2.28 | 12AV6 | .38 | 35W4 | .42 |
| 4BZ6 | .56 | 6BC8 | 1.14 | 6DQ6 | 1.05 | 12AV7 | .93 | 35Z5GT | .60 |
| 4BZ7 | 1.29 | 6BE6 | .55 | 6DT6 | .53 | 12AX4 | .85 | 50C5 | .63 |
| 4CB6 | .56 | 6BG6GB | 1.70 | 6EA8 | .67 | 12AX7 | .51 | 50EH5 | .53 |
| 5AM8 | .79 | 6BH6 | .68 | 6EB8 | .94 | 12AZ7 | .82 | 50L6 | .60 |
| 5AN8 | .90 | 6BH8 | .98 | 6EM7 | 1.08 | 12B4 | .68 | 7025 | .82 |
| 5AQ5 | .54 | 6BJ6 | .65 | 6EW6 | .57 | 12BA6 | .38 | | |
| 5AT8 | .83 | 6BK7 | .85 | 6FQ7 | .76 | | | | |
| 5BK7 | .86 | 6BL7 | 1.09 | 6GH8 | .67 | | | | |
| 5BQ7 | 1.20 | 6BN6 | .74 | 6GK5 | .82 | | | | |
| 5CG8 | .81 | 6BN8 | .80 | 6GM6 | .68 | | | | |
| 5CL8 | .76 | 6BQ5 | .59 | 6GN8 | 1.20 | | | | |

**ORDER NOW!**



# BRAND NEW - FACTORY SEALED

# Westinghouse TUBES

## ONE YEAR GUARANTEE

Brand new. All tubes are guaranteed for a full 12 months from the date of purchase. We will replace any defective tube (exclusive of freight charges) within the GUARANTEE period. This does not apply to broken tubes or burned out filaments.

| TUBE TYPES | MFRS. LIST PRICE | YOUR COST 1-10 Each | YOUR COST 11-Up Each |
|---|---|---|---|
| 0Z4 | 2.40 | 1.18 | 1.01 |
| 1B3/1G3/GT | 2.90 | 1.42 | 1.21 |
| 1K3 | 2.90 | 1.42 | 1.21 |
| 1R5 | 3.05 | 1.50 | 1.28 |
| 1S5 | 2.90 | 1.42 | 1.21 |
| 1T4 | 2.90 | 1.42 | 1.21 |
| 1U4 | 2.90 | 1.42 | 1.21 |
| 1U5 | 2.65 | 1.30 | 1.11 |
| 1V2 | 2.10 | 1.03 | .88 |
| 1X2B | 3.05 | 1.50 | 1.28 |
| 2AF4-A | 4.05 | 1.98 | 1.70 |
| 2BN4 | 2.55 | 1.25 | 1.07 |
| 2CY5 | 3.05 | 1.50 | 1.28 |
| 3A3 | 3.40 | 1.66 | 1.42 |
| 3AL5 | 2.05 | 1.00 | .86 |
| 3AU6 | 2.35 | 1.15 | .98 |
| 3BC5 | 2.35 | 1.15 | .98 |
| 3BN6 | 3.85 | 1.89 | 1.61 |
| 3BU8 | 3.10 | 1.51 | 1.29 |
| 3BZ6 | 2.30 | 1.13 | .97 |
| 3CB6 | 2.25 | 1.10 | .94 |
| 3DG4 | 3.40 | 1.66 | 1.42 |
| 3DT6 | 2.20 | 1.08 | .92 |
| 3S4 | 3.20 | 1.56 | 1.33 |
| 3V4 | 2.50 | 1.22 | 1.05 |
| 4BC8 | 4.05 | 1.98 | 1.70 |
| 4BQ7-A | 4.20 | 2.06 | 1.76 |
| 4BZ6 | 2.25 | 1.10 | .94 |
| 4CB6 | 2.30 | 1.13 | .96 |
| 5AM8 | 3.55 | 1.74 | 1.49 |
| 5AQ5 | 2.20 | 1.08 | .92 |
| 5AT8 | 3.65 | 1.79 | 1.53 |
| 5B8 | 5.30 | 2.60 | 2.22 |
| 5BK7A | 3.40 | 1.66 | 1.42 |
| 5BR8 | 3.65 | 1.79 | 1.53 |
| 5CG8 | 3.35 | 1.64 | 1.40 |
| 5CL8A | 3.35 | 1.64 | 1.40 |
| 5T8 | 3.40 | 1.66 | 1.42 |
| 5U4-GB | 2.10 | 1.03 | .88 |
| 5U8 | 3.30 | 1.62 | 1.38 |
| 5V4GA | 3.50 | 1.71 | 1.47 |
| 5X8 | 3.45 | 1.69 | 1.45 |
| 5Y3GT | 1.75 | .86 | .73 |
| 6AB4 | 2.15 | 1.05 | .90 |
| 6AC7 | 5.10 | 2.50 | 2.14 |
| 6AF4-A | 4.00 | 1.96 | 1.68 |
| 6AG5 | 2.75 | 1.35 | 1.15 |
| 6AH4GT | 3.45 | 1.69 | 1.45 |
| 6AH6 | 4.65 | 2.28 | 1.95 |
| 6AK5 | 4.40 | 2.15 | 1.84 |
| 6AK6 | 2.90 | 1.42 | 1.21 |
| 6AL5 | 1.85 | .91 | .78 |
| 6AM3A | 3.45 | 1.69 | 1.45 |
| 6AN8A | 4.00 | 1.96 | 1.68 |
| 6AQ5A | 2.35 | 1.15 | .98 |
| 6AQ7GT | 4.00 | 1.96 | 1.68 |
| 6AS5 | 2.40 | 1.18 | 1.01 |
| 6AS8 | 3.80 | 1.86 | 1.59 |
| 6AT6 | 1.90 | .93 | .80 |
| 6AT8A | 3.80 | 1.86 | 1.59 |
| 6AU4GTA | 3.55 | 1.74 | 1.49 |
| 6AU5GT | 4.30 | 2.11 | 1.80 |
| 6AU6A | 2.10 | 1.03 | .88 |
| 6AU8A | 3.50 | 1.71 | 1.47 |

TUBE TYPES MAY BE ASSORTED FOR QUANTITY PRICE

| TUBE TYPES | MFRS. LIST PRICE | YOUR COST 1-10 Each | YOUR COST 11-Up Each |
|---|---|---|---|
| 6AV5GA | 4.20 | 2.06 | 1.76 |
| 6AV6 | 1.65 | .80 | .69 |
| 6AW8A | 3.70 | 1.81 | 1.55 |
| 6AX4GT8 | 2.65 | 1.30 | 1.11 |
| 6BA6 | 2.00 | .98 | .84 |
| 6BA8A | 3.85 | 1.89 | 1.61 |
| 6BC5 | 2.55 | 1.25 | 1.07 |
| 6BC8 | 4.00 | 1.96 | 1.68 |
| 6BE6 | 2.20 | 1.08 | .92 |
| 6BF5 | 3.55 | 1.74 | 1.49 |
| 6BF6 | 1.80 | .88 | .75 |
| 6BG6GA | 6.80 | 3.33 | 2.85 |
| 6BH8 | 3.65 | 1.79 | 1.53 |
| 6BJ6 | 2.60 | 1.27 | 1.09 |
| 6BK5 | 3.70 | 1.81 | 1.55 |
| 6BK7B | 3.35 | 1.64 | 1.40 |
| 6BL7GTA | 3.95 | 1.94 | 1.66 |
| 6BN4A | 2.50 | 1.22 | 1.05 |
| 6BN6 | 3.20 | 1.56 | 1.33 |
| 6BQ5 | 2.40 | 1.18 | 1.01 |
| 6BQ6GTB | 4.35 | 2.13 | 1.82 |
| 6BQ7A | 3.95 | 1.93 | 1.65 |
| 6BS8 | 3.75 | 1.84 | 1.57 |
| 6BU8 | 2.80 | 1.37 | 1.17 |
| 6BX7GT | 4.35 | 2.13 | 1.82 |
| 6BY6 | 2.50 | 1.22 | 1.05 |
| 6BY8 | 2.65 | 1.30 | 1.11 |
| 6BZ6 | 2.25 | 1.10 | .94 |
| 6BZ7 | 4.00 | 1.96 | 1.68 |
| 6C4 | 1.85 | .91 | .78 |
| 6CB6A | 2.25 | 1.10 | .94 |
| 6CD6GA | 5.80 | 2.84 | 2.43 |
| 6CF6 | 2.55 | 1.25 | 1.07 |
| 6CG7 | 2.45 | 1.20 | 1.03 |
| 6CG8A | 3.30 | 1.62 | 1.38 |
| 6CL6 | 3.75 | 1.84 | 1.57 |
| 6CL8A | 3.15 | 1.54 | 1.32 |
| 6CM7 | 2.90 | 1.42 | 1.21 |
| 6CN7 | 2.90 | 1.42 | 1.21 |
| 6CQ8 | 3.50 | 1.71 | 1.47 |
| 6CS6 | 3.35 | 1.15 | .98 |
| 6CS7 | 2.95 | 1.44 | 1.24 |
| 6CU8 | 4.15 | 2.03 | 1.74 |
| 6CY5 | 2.75 | 1.35 | 1.15 |
| 6CX8 | 3.85 | 1.89 | 1.61 |
| 6DE4 | 2.85 | 1.39 | 1.17 |
| 6DE6 | 2.55 | 1.25 | 1.07 |
| 6DQ6 | 4.10 | 2.01 | 1.72 |
| 6EA8 | 3.20 | 1.56 | 1.33 |
| 6EB8 | 4.00 | 1.97 | 1.68 |
| 6EM7 | 5.10 | 2.50 | 2.14 |
| 6H6 | 4.00 | 1.96 | 1.68 |
| 6J5 | 3.65 | 1.79 | 1.53 |
| 6J6 | 2.80 | 1.37 | 1.17 |
| 6J7 | 4.95 | 2.43 | 2.07 |
| 6K6GT | 2.65 | 1.30 | 1.11 |
| 6L6 | 8.60 | 4.21 | 3.60 |
| 6L6GC | 4.20 | 2.06 | 1.76 |
| 6S4A | 2.45 | 1.20 | 1.03 |
| 6SA7 | 4.30 | 2.11 | 1.80 |
| 6SC7 | 4.20 | 2.06 | 1.76 |
| 6SJ7 | 4.15 | 2.03 | 1.74 |
| 6SK7 | 3.95 | 1.93 | 1.65 |
| 6SL7GT | 3.50 | 1.71 | 1.47 |
| 6SN7GTB | 2.60 | 1.27 | 1.09 |

TUBE TYPES MAY BE ASSORTED FOR QUANTITY PRICE

| TUBE TYPES | MFRS. LIST PRICE | YOUR COST 1-10 Each | YOUR COST 11-Up Each |
|---|---|---|---|
| 6SQ7 | 3.80 | 1.86 | 1.59 |
| 6T8A | 3.35 | 1.64 | 1.40 |
| 6U8A | 3.30 | 1.62 | 1.38 |
| 6V3A | 4.55 | 2.23 | 1.91 |
| 6V6GT | 2.20 | 1.08 | .92 |
| 6W4GT | 2.40 | 1.18 | 1.01 |
| 6W6GT | 2.80 | 1.37 | 1.17 |
| 6X4 | 1.65 | .80 | .65 |
| 6X5GT | 2.05 | 1.00 | .86 |
| 6X8 | 3.15 | 1.54 | 1.32 |
| 7AU7 | 2.60 | 1.27 | 1.09 |
| 7N7 | 7.55 | 3.70 | 3.16 |
| 8AW8A | 3.65 | 1.79 | 1.53 |
| 10DE7 | 3.40 | 1.66 | 1.42 |
| 12AB5 | 3.50 | 1.71 | 1.47 |
| 12AD6 | 2.40 | 1.18 | 1.01 |
| 12AQ5 | 2.60 | 1.27 | 1.09 |
| 12AT6 | 1.85 | .91 | .78 |
| 12AT7 | 3.05 | 1.49 | 1.28 |
| 12AU6 | 2.15 | 1.05 | .90 |
| 12AU7A | 2.45 | 1.20 | 1.03 |
| 12AV5GA | 3.85 | 1.89 | 1.61 |
| 12AV6 | 1.65 | .80 | .69 |
| 12AV7 | 3.55 | 1.74 | 1.49 |
| 12AX4GTA | 2.70 | 1.32 | 1.13 |
| 12AX7 | 2.50 | 1.23 | 1.05 |
| 12AZ7A | 3.05 | 1.50 | 1.28 |
| 12B4A | 2.70 | 1.33 | 1.14 |
| 12BA6 | 1.65 | .80 | .69 |
| 12BE6 | 1.75 | .86 | .73 |
| 12BH7A | 3.05 | 1.49 | 1.28 |
| 12BQ6GTB | 4.45 | 2.18 | 1.86 |
| 12BR7 | 3.20 | 1.56 | 1.33 |
| 12BY7A | 3.05 | 1.50 | 1.28 |
| 12CS/12CU5 | 2.45 | 1.20 | 1.03 |
| 12CA5 | 2.85 | 1.39 | 1.17 |
| 12D4 | 2.75 | 1.35 | 1.15 |
| 12DQ6B/A | 4.20 | 2.06 | 1.76 |
| 12L6GT | 2.75 | 1.35 | 1.15 |
| 12SA7 | 4.30 | 2.11 | 1.80 |
| 12SK7 | 3.90 | 1.91 | 1.63 |
| 12SN7GTA | 2.70 | 1.32 | 1.13 |
| 12SQ7 | 3.75 | 1.84 | 1.57 |
| 12V6GT | 2.40 | 1.18 | 1.01 |
| 12W6GT | 3.00 | 1.47 | 1.26 |
| 12X4 | 1.90 | .93 | .80 |
| 17D4 | 2.75 | 1.35 | 1.15 |
| 17DQ6B | 4.20 | 2.06 | 1.76 |
| 19AU4GTA | 3.45 | 1.69 | 1.45 |
| 19T8 | 3.50 | 1.71 | 1.47 |
| 25BQ6GTB | 4.65 | 2.28 | 1.95 |
| 25DN6 | 6.80 | 3.34 | 2.76 |
| 25L6GT | 2.35 | 1.15 | .98 |
| 25Z6GT | 3.50 | 1.71 | 1.47 |
| 35C5 | 2.15 | 1.05 | .90 |
| 35L6GT | 2.40 | 1.18 | 1.01 |
| 35W4 | 1.10 | .53 | .47 |
| 35Y4 | 4.80 | 2.35 | 2.01 |
| 35Z5GT | 1.85 | .91 | .78 |
| 50B5 | 2.95 | 1.45 | 1.24 |
| 50C5 | 2.15 | 1.05 | .90 |
| 50EH5 | 2.30 | 1.13 | .96 |
| 50L6GT | 2.55 | 1.25 | 1.07 |
| 117Z3 | 4.35 | 2.13 | 1.82 |

TUBE TYPES MAY BE ASSORTED FOR QUANTITY PRICE



Imported Hi-Fi

## TUBES




Made In England

MOST POPULAR TYPES

★ For Improved Performance
★ Low Noise, High Gain, Less Hum

| Mullard Types | Replaces | Net Each |
|---|---|---|
| EABC-80 | 6AK8 | $1.92 |
| ECC-81 | 12AT7 | 1.55 |
| ECC-82 | 12AU7 | 1.27 |
| ECC-83 | 12AX7 | 1.29 |
| ECC-85 | 6AQ8 | 1.41 |
| ECC-88 | 6DJ8 | 2.38 |
| ECF-80 | 6BL8 | 2.06 |
| ECH-81 | 6AJ8 | 1.83 |
| EF-86 | 6267 | 1.38 |
| EF-89 | 6DA6 | 1.71 |
| EL-34 | 6CA7 | 3.16 |
| EL-37 | 6L6, 5881, 1614 | 3.40 |
| EL-84 | 6BQ5 | 1.25 |
| EZ-81 | 6CA4 | 1.14 |
| GZ-34 | 5AR4 | 2.28 |

### MATCHED PAIRS

| | | |
|---|---|---|
| EL-34MP | 6CA7 | $6.86 Pr. |
| EL-37MP | 6L6, 5881, 1614 | 7.10 Pr. |
| EL-84MP | 6BQ5 | 2.84 Pr. |
| EL-90MP | 6AQ5 | 2.73 Pr. |
| ECL-82MP | 6BM8 | 3.65 Pr. |

Joseph E. Rhodes, 2035½ Highway 15, Natchitoches, La., wins choice of merchandise worth $5 from Olson's "Treasure Hunt." See back cover for instructions.

# SIEMENS

## HI-FI TUBES

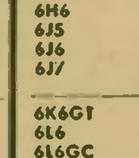
★Imported from Holland & Germany

| Siemens Type | Replaces | Net Each |
|---|---|---|
| ECC-81 | 12AT7 | $1.20 |
| ECC-82 | 12AU7 | .99 |
| ECC-83 | 12AX7 | .99 |
| ECC-85 | 6AQ8 | 1.20 |
| ECC-88 | 6DJ8 | 1.72 |
| ECF-80 | 6BL8 | .99 |
| EF-183 | 6EH7 | .99 |
| EF-184 | 6EJ7 | .99 |

## ★ OTHERS ★

| | |
|---|---|
| 6SA7 | $1.02 |
| 6SK7 | .95 |
| 6SQ7 | .94 |
| 12SA7 | 1.08 |
| 12SK7 | .98 |
| 12SQ7 | .85 |

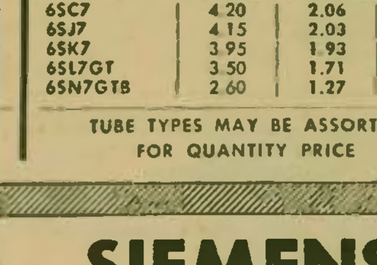
### UNIVERSAL BOOSTER



Increases brightness on old or dim picture tubes. Works with series, parallel, conventional 70°, 90° or 110° tubes. Shipping weight ½ lb.

No. T-335, 4 for $3.50 **99c**

### 4-WAY BOOSTER



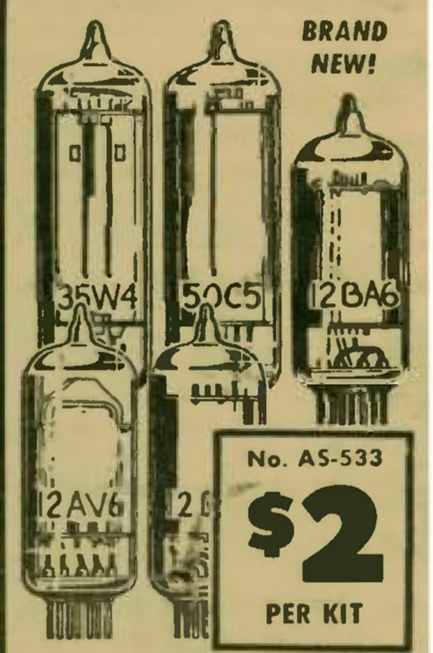
No. T-275 EACH **1.77**

3 for $5.00
12 @ $1.40 ea.

Adds months to any picture tube life. Connects between picture tube base and socket. 2½" x 1½". Shipping weight ¼ lb.

Olson **5 Pack TUBE KIT**

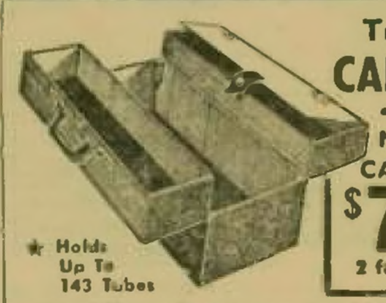
BRAND NEW!




No. AS-533

**$2** PER KIT

Each kit contains 5 tubes—1 each as listed: 35W4, 50C5, 12BA6, 12AV6, 12BE6. Most common types for AC-DC home radios. Shpg. wt. ¾ lb.



Tube CADDY

No. CA-125

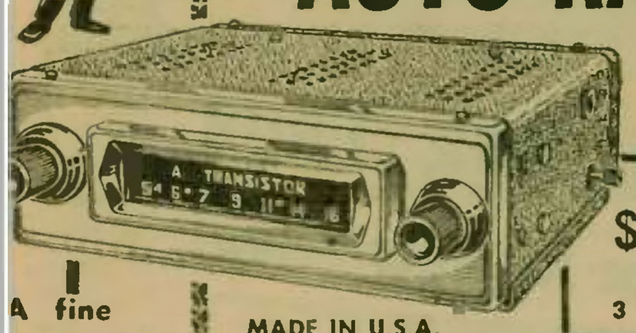
**$7.97**

2 for $15

★ Holds Up To 143 Tubes

Durable heavy duty covering. Size: 15" W x 12½" H x 5" D. Shpg. wt. 8 lbs.

## 12 Volt All Transistor
# AUTO RADIO



★ With Built-In 4" Speaker
★ Slide Rule Dial Tuning

No. RA-450
**$29.95**
3 @ $28.50 ea.

MADE IN U.S.A.

Low silhouette lends itself well to any installation. Excellent sensitivity and stability plus effective AVC assure steady clear reception in any area. All transistor circuit for greatest economy. No warm up. Radio is "instant-on." Compact size: 6¼" x 2⅝" x 8⅛". With hardware and instructions. Shipping weight 8 lbs.

A fine *Gift* for the ar owner

## 6x9" Rear Deck SPEAKER KIT

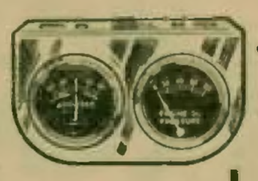
★ No Soldering Required



No. S-333
**$3.63**
3 for $10.00

No soldering required. Speaker s Fahnestock clips and wire is etinned. Fader control enables lume to be adjusted to any de- ed level. Includes 6x9 speaker, der control, wire, chromed grille, rdware and easy to follow in- uctions. Shipping weight 2 lbs.

*Accurate*
Ammeter-Oil
## PRESSURE GAUGE



No. ME-117
Non-Illuminated
**$4.99**

Illuminated
ME-118 $6.10

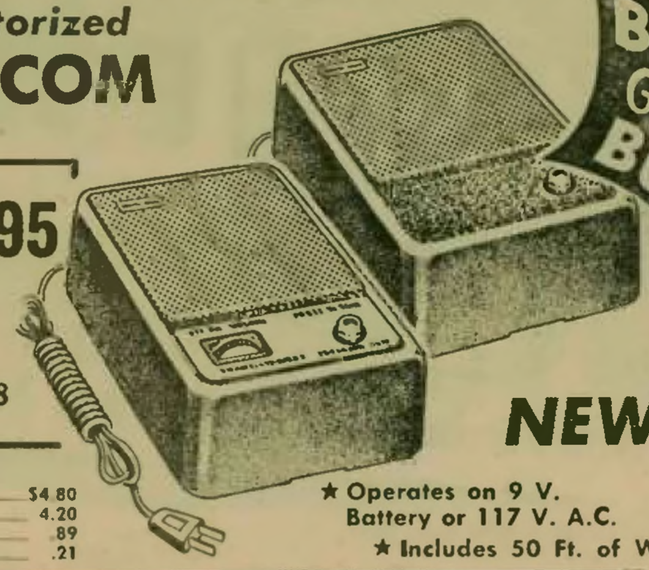
Can be mounted in any location that offers easy readability. Eliminates guesswork resulting from red indicator lights now used in most cars. Easy to connect to any car. Complete with all fittings and connectors. Oil pressure range: 0 to 80 pounds. Ammeter range: 60-0-60 amps. Both meters are mounted on a universal mounting, chrome panel. Illuminated model includes socket, bulb, and all necessary hook-up wire. Can be used in any 6 or 12-volt system. Shpg. wt. 3 lbs.

## FANON-MASCO *Transistorized* INTERCOM

Model 1300

Special power pack (included) enables you to operate this intercom on 117 volt AC house current or a standard transistor battery (not included). Additional remote stations may be added to make the system more flexible. Remote stations may call master even when power is turned off. This insures economical operation and prolongs the life of all components. All-metal construction, smartly finished in sandalwood tan with gold trim. Suitable for desk or wall mounting. Size: 4¼" L. x 2⅛" W. x 1¾" H. Shpg. wt. 2½ lbs.

**$14.95**
No. AM-238



BEST Gift BUY

NEW!

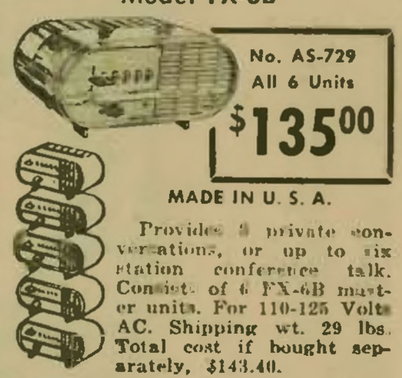
★ Operates on 9 V. Battery or 117 V. A.C.
★ Includes 50 Ft. of Wire

ACCESSORIES:

| | | |
|---|---|---|
| Outdoor Remote Station | No. X-939 | $4.80 |
| Indoor Remote Station | No. X-940 | 4.20 |
| 100 Ft. 2 Conductor Wire | No. W-103 | .89 |
| 9 Volt Battery | No. BA-89 | .21 |

Fanon-Masco ALL MASTER
## 6-STATION INTERCOM

Model FX-6B



No. AS-729
All 6 Units
**$135.00**

MADE IN U. S. A.

Provides 3 private conversations, or up to six station conference talk. Consists of 6 FX-6B master units. For 110-125 Volts AC. Shipping wt. 29 lbs. Total cost if bought separately, $143.40.

Above Master Station sold separately, No. AM-212, Shpg. wt. 4 lbs. $23.90
11 Conductor Universal Cable
No. W-354 Ft. 7c

Remote station for use with above master unit for master remote intercom. Model FCB. Up to five remotes may be used with a master. Shipping weight 2 lbs.
No. AM-226 $8.40

Fanon-Masco 2-STATION
## Wireless Intercom

★ Model FW 50 B



No. AM-227
BOTH FOR
**$49.95**

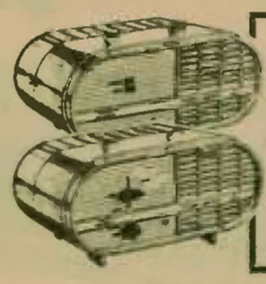
★ 3½" ALNICO MAGNET SPEAKER

No wires to connect, just plug in and use. Features powerful 4 tube plus silicon rectifier amplifier . . . picks up at considerable distances. "Dictate" position on talk-listen switch permits operation as a baby sitter. Noise silencing control eliminates interference of power lines. Several stations may be added to any system. Size: 8¾" W x 4¾" H x 5¼" D. For 110-125 volts AC. Shipping weight 7 lbs.

Extra station for above. Shpg. wt. 3½ lbs.
No. AM-228 $25.45

Fanon-Masco DELUXE
## TWO STATION INTERCOM

Model FX-2B



No. AM-211
BOTH FOR
**23.90**

MADE IN U. S. A.

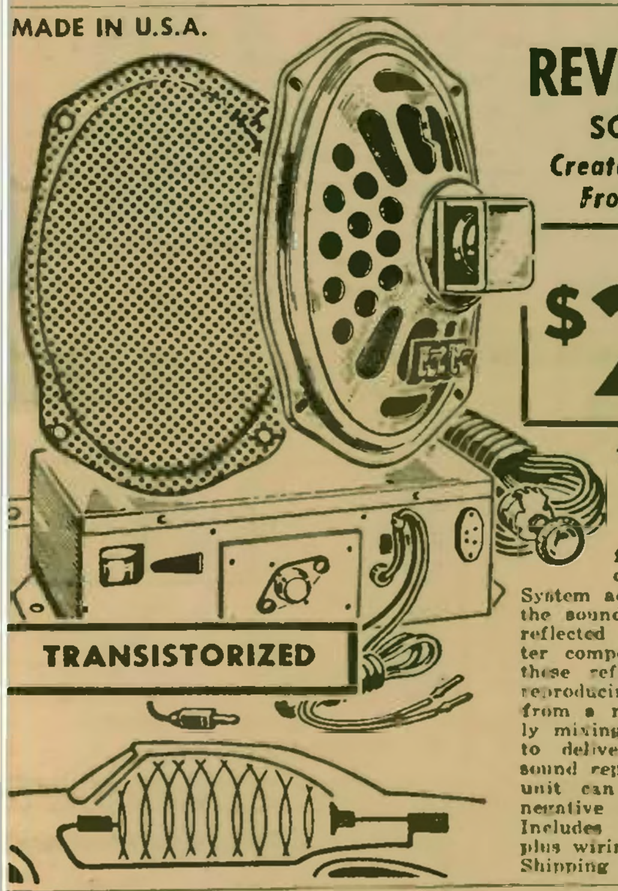
Substation can "originate" calls, or can be left open for baby sitting, dictation etc. or receive calls from master. Cabinet is 8¾" W. 4¾" H. 5¾" D. of high impact styrene. Black and gold trim. Complete with 50 ft. of 3 conductor cable. For 110-125 volts AC. Shipping weight 9 lbs.

Extra Cable—100 ft. Shpg. wt. 2 lbs.
No. W-105 $1.50

MADE IN U.S.A.

Concert Master
## REVERBERATION SOUND SYSTEM

*Creates Concert Hall Sound From Your Auto Radio*



No. RA-577
**$26.97**

★ Use with Any 12-volt, Negative Ground Auto Radio—AM-FM

TRANSISTORIZED

Add "life" to the sound from your car radio. Concert-Master Reverberation System adds depth and dimension to the sound by electronically creating reflected sound waves. Concert-Master compensates for the absence of these reflected waves in a car by reproducing a second set of waves from a rear speaker and acoustically mixing both sets of sound waves to deliver this new dimension in sound reproduction in your car. This unit can be added to any 12-volt negative ground radio—AM or FM. Includes 6x9" speaker with grille plus wiring harness and instructions. Shipping weight 6 lbs.

TRANSISTORIZED
## Portable Intercom



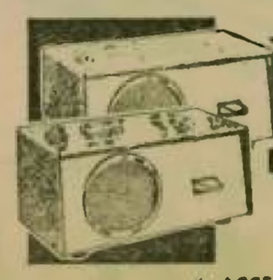
No. RA-516
BOTH FOR
**$9.45**
3 for $27.00

- Completely Portable!
- Battery Operated!
- 2-Way Signal
- Outdoor-Indoor

All purpose, outdoor or indoor 2 way intercom. Uses one 9 volt battery for power, (included) no A.C. cord, no chance for shocks. Battery saver two way buzzer signal operates even though master is turned off. Cable has miniature telephone type plug at each end for quick setup or mounting. Clear, loud, tone. Substation is on when master is on so you can hear children without pushing button. Size: 1⅛"x2½"x4". Shipping weight 2 lbs.
Extra battery, No BA-89 Ea. 21c

## Portable 2-Station INTERCOM KIT

★ Transistorized—3 Transistors



**$11.91** No. KB-95

Handsome gold enamel finish. Operates on 4 size "C" cells. Size: 7⅛"x 3½"x3¾". Less batteries and transistors. Shipping weight 7 lbs.

★ ACCESSORIES FOR KB-95 ★

| | |
|---|---|
| Batteries (4 req'd) No. BA-41 | Ea. 13c |
| Transistors No. X-801 (2 req'd) | Ea. 49c |
| Transistor No. TR-13 (1 req'd) | Ea. 69c |
| Extra Cable No. W-103 | Per 100 ft. 89c |

*Bogen* ALL MASTER TELEPHONE
## Intercom System



No. AM-156
**$20.95**

Model TQ-6. A total of 7 instruments can be used in a system. Any station can call any other station. (6 pushbuttons). Grey, high impact polystyrene case, with coil-cord. For desk or wall mounting. Less cable and power supply. Shipping weight 5 lbs.

117 V AC Transformer Power Supply (one req'd.).
Shpg. Wt. 4 lbs. No. AM-157 $ 22.50
Complete System (7-AM-156, 1-AM-157). Shipg. Wt. 40 lbs.
No. AS-657, $9 monthly $148.00
Cable (11 conductors) No. W-354 Per Ft. 7c

*Bogen* TRANSISTORIZED
## TWIN-COM



No. RA-563
**$23.90**
$39.85 in 363 cat.

This versatile, compact intercom can be used anywhere or even moved from place to place. Operates independently of house current. Uses self contained batteries (not included). Attractively styled to match any decor. Ideal for home, office, work area, sick-room monitoring and many other applications. Sound engineered to give clear, natural sounding voice reproduction. Includes two stations plus 50 feet of cable. Size: 8½x5⅞x3⅝". Shipping weight 6 lbs.

Batteries (4 required) No. BA-67 8 for 59c

Transistor Radio Battery
## Eliminator-Charger



Charge batteries in 1 to 1½ hours. Converts transistor portables to AC. Use with batteries BL - 006P, MV - 006P, Burgess 2U6. For 110-125 volts. AC. Size, design may vary from picture. Shipg weight ½ lb.

. BA-78, 3 for $8 Ea. **$2.93**

## ag of 8 Pen-Lite Cells



Box of 8 Replaces Burgess Z, Eveready 015, Ray-O-Vac 7R, etc. 1.5 volts. Shpg. wt. ½ lb.

. BA-67, 24 for $1.50 8 for **59c**

Miniature Rear Seat
## SPEAKER KIT

★ Prewired

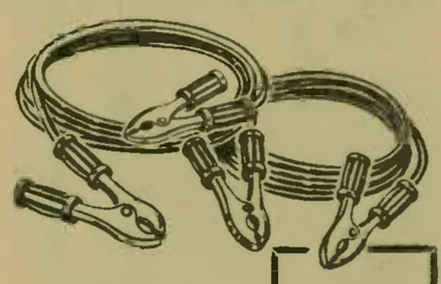


No. S-501
**$2.29**



This prewired kit can be installed in minutes in any car. Selector switch permits selection of front, rear or both speakers. Mirror-finish steel case can be installed in any auto, convertible, foreign car or station wagon. Size: 2¼" sq. x 1¼" deep. Shipping weight ½ lb.

8 FT. Battery
## BOOSTER CABLES



Two rugged 8 foot cables with heavy duty battery clips on each end. Easy to use—connect from your battery to a friend's battery—turn the switch and start your car without pushing.

W-352
**$1.29**
3 Sets $3.60

RCA Victor
## BATTERY CHARGER

★ For Rechargeable Batteries

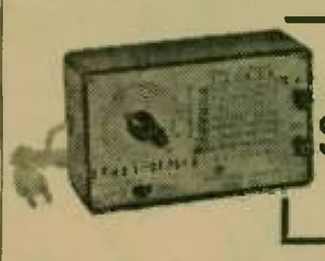


No. BA-94
**$4**

Designed to recharge nickel-cadmium type batteries. It may be used with any 3 volt rechargeable type battery or 4 - 1½ volt, penlight size, rechargeable batteries. Charger plugs into AC house current or into cigar lighter in your 12-volt car. Adaptor cord for charging from cigar lighter is included. Size: 3½" x 2½" x 2¾", 6 ft. adaptor cord and AC line cord. For 110-125 volts AC 60 cps. Shipping weight 3 lbs.

Nickel Cadmium
## BATTERY CHARGER

★ Charge 1 to 10 Cells in Series



No. RA-602
**$9.95**

This unit will charge from 1 to 10 cells in series up to a maximum of 250 milliamperes. Battery manufacturers recommended charging rate is 10 per cent of rated cell capacity. Simply select correct charging rate in MA and read correct pointer setting beneath the number of cells being charged. Size: 6¼" x 2" x 3¾". Shipping weight 3 lbs.

# BATTERIES




BEST BUY!

| | Stock No. | Volts | Replaces | Each | Lots of 10, ea. | Lots of 100, ea. |
|---|---|---|---|---|---|---|
| A | BA-85 | 9 | Burgess P-6, P-6M, RCA, VS-380, VS-314 and Eveready 226 ¼ lb. | 39c | 34c | 29c |
| B | BA-89 | 9 | Burgess, 2U6, RCA, VS-312, ¼ lb. Eveready 216, and NEDA 1604 | 21c | 20c | 19c |
| C | BA-99 | 67½ | Eveready 467, Burgess XX-45, and RCA VSO-16 3¾ lb. | $2.94 | $2.94 | $2.94 |
| D | BA-53 | 1½ | Burgess 2R, Eveready 950 or RCA VSO-36 ¼ lb. | 13c | 9c | 7c |

L. P. Kremer, 3506 Duff Ave., Cheyenne, Wyo., wins choice of merchandise worth $5 from Olson's "Treasure Hunt." See back cover for instructions.

## 4 AMP BATTERY CHARGER



- 6 and 12 Volt
- Built-In Ammeter
- U. L. Approved

**$10.63**
No. RA-604

Moderately rated at 4 amps, charger actually delivers 5.5 amps. Charges 6 and 12 volt batteries and keeps them fresh ready to deliver full power anytime. Automatic circuit-breaker protects both battery and charger. Cannot over charge battery. Charging rate automatically tapers off as battery becomes charged. Built-in ammeter tells you the charging rate at a glance so you know condition of battery. Features full wave, high density selenium rectifiers and vented case for cool efficient operation. Complete with AC line cord and battery cables with "super-grip" 50 amp clips. For 110-125 volts AC, 60 CPS. Shipping weight 5 lbs.

## 1 AMP BATTERY CHARGER



- 6 & 12 Volt
- U.L. Approved

**$4.25**
No. RA-605

Full one amp charger actually delivers 1.5 Amp. Keeps battery fully charged for sure starts. Batteries that remain idle for any length of time become discharged and fail to deliver full starting power when you need it. With charger attached, battery remains fully charged ready to deliver full power any time. Features automatic circuit breaker for complete protection of charger and battery, can't over-charge or burn out. Has "super-grip" copper-plated 50 amp. clips for direct battery terminal charging. For 110-125 volts AC, 60 CPS. Shipping weight 4 lbs.



# FREE

GENERAL ELECTRIC

ELECTRIC

## ALARM CLOCK

With Purchase of 100 Pc. Parts Assortment Below!

# 100 Piece Parts ASSORTMENT




All 100 Pieces

**$3.99** ★

No. AS-866

100 carefully selected components to fill most replacement and experimental needs. You get 33—½, 1 and 2 watt resistors. Also included are 33 tubular capacitors from 100 to 1,000 volts. To complete this fine kit, we have added 34 disc and tubular ceramic capacitors rated at 600 v. All parts in this kit are brand new with full length leads. All are made by leading manufacturers. Keep several of these kits handy in tool box or on your work bench, and you will always have the part you need when you need it. Shipping weight 3 lbs.



# FREE

## 3 REELS Recording Tape

With Purchase of Tape Recorder Below!

Compact-Portable

## TAPE RECORDER

Olson

★ BUILT-IN SPEAKER

★ 2 MOTORS



~~$24.~~ IN 563 CAT.

**$19.61**

No. AS-867

## The Perfect Christmas Gift!

★ Ideal For Voice Letters

Compact portable tape recorder. Operates on standard batteries. Can be used anywhere. Ideal for travelers, students, businessmen, etc. Uses standard 3" tape reels. Erase operates automatically during record cycle. Operates at 3¾ IPS. 4 transistors and a diode deliver maximum volume on record and playback. Frequency response 300-6000 cps. Microphone, batteries, take up reel and 3" reel of tape are all included at this low, low Olson price. Attractive styrene case with rugged handle. Size 2½"x2½"x7". Shipping weight 6 lbs.

EXTRA BATTERIES: BA-67 (6 req'd.) ____ 8 for 59c
BA-41 (3 req'd.) ____ ea. 13c

3" REEL OF TAPE, No. TA-18 ____ 69c

# 9 TRANSISTOR Portable Radio




★ Leather Case

★ Telescoping Antenna

★ With Batteries, Earphone & Case

An outstanding buy complete with all accessories—genuine top-grain leather case, earphone, earphone case, telescoping antenna and batteries. Has the look and feel of a fine camera plus the advanced engineering and construction needed for dependable, satisfying listening. Latest superheterodyne circuit with 9 transistors and one diode give superlative selectivity and sensitivity. Telescoping antenna can be attached to top of radio for really distant stations. Acoustically matched, powerful 2¾ in. PM speaker delivers clear undistorted sound. Operates on 4 standard pen-light cells (included). Size 5¾" W x 3½" H x 1½" D. Shpg. wt. 5 lbs.

Extra Batteries (4 Req'd.) No. BA-67 ____ 8 for 59c

No. RA-578

**$13.81**


OLSON ELECTRONICS, INC.
260 S. Forge St., Akron, Ohio 44308
RETURN REQUESTED


Catalog 1163

BULK RATE
U. S. POSTAGE
PAID
AKRON, OHIO
PERMIT No. 240

W MINCK
MILTON IND



## 24 HOUR

Phone Service
Direct Dial Area Code 216
Akron, Ohio

**Phone: 535-9191**

If you can't phone during the day, you can phone ANYTIME at night and give your order to our night operator. Your order will be shipped the next day!

## Treasure Hunt

OFFER EXPIRES JAN. 15, 1964

### Look For Your Name

YOU MAY WIN

### $5 In Merchandise

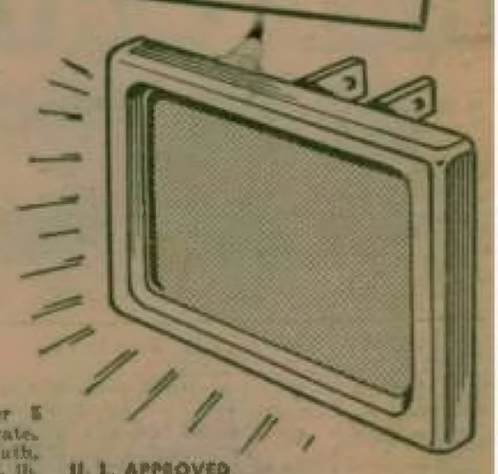
Somewhere throughout this catalog are the names of 26 Olson customers. Your name may be there! If it is, write us giving the page number and OLSON will send you FREE from the catalog, $5 worth of merchandise of your choice.

Westinghouse

## NITE LITE

Mfgr's. 1963 List Price $1.19

SALE No. X-850 **2 FOR $1** Single Ea. 53c



Gives soft green light. Lasts for over 5 years— cost less than 1c a year to operate. Ideal for child's room, hall, bedroom or bath. Size: 2¾" w x 2½" h x ¾" thick. Shp. wt ½ lb.

U. L. APPROVED

# OLSON ELECTRONICS

260 S. FORGE ST.
AKRON, OHIO 44308

# Olson

## *Transistorized* IGNITION SYSTEM



- Saves Gas, Plugs and Points
- Insures Quick Starts
- Less Maintenance
- Eliminates Misfire
- Improves Performance

***MAY BE INSTALLED IN ANY CAR IN MINUTES!***

No. AM-223

**$19.99**

FOR ALL 6-12 VOLT SYSTEMS

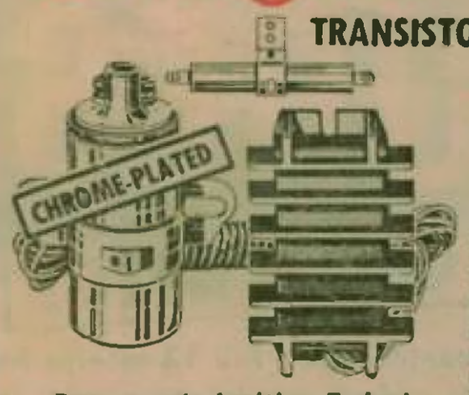
Made In U. S. A.

Easily installed in minutes, this highly efficient ignition system pays for itself many times over. Not only saves on gas, points and plugs, but also vastly improves the performance of your engine. This system also insures more reliable cold weather starting and eliminates misfire on fast acceleration and at high speeds. For use in any 6-12 volt automobile (negative ground only). This ignition system of tomorrow should be installed on your car today. **SPECIFICATIONS:** Single High Voltage Transistor for More Reliable Operation; Heavy Duty Zener Diode for Complete Protection; Extremely Low Primary Resistance Reduces Coil Temperature; **HEAVY DUTY COIL, 400:1 RATIO; Universal Coil Mounting Bracket—Fits Any Car Model:** Molded Ceramic Ignition Resistor Lasts Forever; Coated Wires Protect Against Oils, Acids, heat. Shpg. wt. 5 lbs.

---

ELECTRA-TONE **Super Deluxe**

## TRANSISTORIZED IGNITION SYSTEM




**$29.99**

Made In U. S. A.

No. AM-224

*Tomorrow's Ignition Today!*

Rugged 400:1 coil is chrome-plated for lasting good looks. Operates on 6 or 12 volt negative ground systems. Transistor amplifier is protected by a heavy duty zener diode. Coil ratio is 400:1, with low impedance primary for cool long-lasting operation. Universal mounting bracket adapts to any car. Complete with: Chrome-plated coil, molded ceramic resistor, heavy insulated wires and instructions. Shipping weight 7 lbs.

---

**SALE!** Citizens Band **CB** Transmit **CRYSTALS**




**Specify Your Choice of Channels 1 thru 22**

No. CB-1

Reg. $1.99 LOTS OF 3, EACH . . . **$1.57**

Single, Each $1.79

Popular 3rd overtone type crystals. Standard case with ½" mounting centers. These hermetically sealed crystals fit all Olson Transceivers as well as General Radio, Globe CB 100, CB 100A, De Wald TR 910, Heath CB, United Scientific Labs R800-TR910-TR1000, Town & Country and many others. Shipping weight ¼ lb.

★ SEE PAGE 4 FOR OTHER CITIZENS BAND VALUES

S. Hanshew, Box 264, Topeka, Ind., wins choice of merchandise worth $5 from Olson's "Treasure Hunt". See back cover for instructions.

Catalog 963, Copyrighted 1963, OLSON ELECTRONICS, INC.

---

# Genuine JENSEN 8" Full Range SPEAKER




No. S-562

MADE IN U. S. A.

Olson purchased the entire inventory of this Jensen Speaker from one of America's leading hi-fidelity console manufacturers—all are BRAND NEW in factory packaging. The biggest 8" speaker ever offered—big in frequency response—big in power capacity — really big in listening pleasure. Features 10 oz. SYN-TOX-6 ceramic magnet and specially formed cone for exceptional transcient response and maximum efficiency. Employs two cones which are always in phase and complete harmony. Produces clean, smooth, wide range response of 30-13,000 cps. Shpg. wt. 4 lbs.

See Pages 10, 11 & 12 For Speakers

**$6**

**2 FOR $11.50**

★ 8 Ohms
★ 12 Watts
★ 30-13,000 CPS

---

# OLSON ELECTRONICS

260 S. FORGE ST.
AKRON, OHIO 44308

WRH

# Shield TUBES




MADE IN U.S.A.

YOUR CHOICE
50C5 or 35W4

# FREE

. . . with each purchase of any 8 Shield Brand Tubes!

## ONE YEAR GUARANTEE

**Guaranteed for a full 12 months from the date of purchase. We will replace any defective tube (exclusive of freight charges) within the guarantee period. This does not apply to broken tubes or burned out filaments.**

| TUBE TYPE | PRICE EACH | TUBE TYPE | PRICE EACH | TUBE TYPE | PRICE EACH | TUBE TYPE | PRICE EACH | TUBE TYPE | PRICE EACH |
|---|---|---|---|---|---|---|---|---|---|
| 1B3/1G3 | $ .89 | 5U4GB | $ .60 | 6BQ6 | $1.12 | 6GX6 | $ .66 | 12BE6 | .38 |
| 1J3 | .79 | 5U8 | .84 | 6BQ7 | 1.30 | 6HS8 | .82 | 12BH7 | .77 |
| 1K3 | .79 | 5Y3 | .46 | 6BS8 | 1.60 | 6J6 | .71 | 12BL6 | $ .57 |
| 1R5 | .77 | 6AB4 | .54 | 6BU8 | .70 | 6S4 | .62 | 12BQ6 | 1.36 |
| 1U5 | .65 | 6AC7 | 1.22 | 6BX7 | 1.32 | 6SL7GT | .84 | 12BY7 | .77 |
| 1X2 | .95 | 6AF4 | 1.01 | 6BZ6 | .55 | 6SN7GTB | .79 | 12BZ7 | .86 |
| 2AF4 | 1.14 | 6AG5 | .70 | 6BZ7 | 1.20 | 6T8 | .98 | 12D4 | .82 |
| 2CY5 | .71 | 6AH4 | .81 | 6C4 | .45 | 6U8 | .83 | 12DQ6 | 1.06 |
| 3A3 | .76 | 6AH6 | 1.10 | 6CB6 | .55 | 6V6 | .53 | 12SN7GT | .81 |
| 3AL5 | .46 | 6AK5 | 1.20 | 6CD6GA | 1.51 | 6W4 | .75 | 12V6 | .63 |
| 3AU6 | .56 | 6AK6 | .98 | 6CG7 | .61 | 6W6 | .80 | 12W6 | .71 |
| 3AV6 | .42 | 6AL5 | .52 | 6CG8 | .80 | 6X4 | .41 | 12X4 | .56 |
| 3BC5 | .63 | 6AM8 | .78 | 6CL8 | 1.00 | 6X8 | .97 | 13EM7 | 1.08 |
| 3BN6 | .76 | 6AN8 | .93 | 6CM7 | .80 | 7AU7 | .65 | 17AX4 | .67 |
| 3BU8 | .71 | 6AQ5 | .53 | 6CN7 | .70 | 8FQ7 | .74 | 17DQ6 | 1.06 |
| 3BY6 | .58 | 6AS5 | .96 | 6CQ8 | .92 | 12AB5 | .72 | 19AU4 | .87 |
| 3BZ6 | .56 | 6AU4 | 1.10 | 6CS6 | .68 | 12AD6 | .57 | 19T8 | 1.02 |
| 3CB6 | .56 | 6AU6 | .65 | 6CU5 | .70 | 12AE6 | .50 | 25BQ6 | 1.40 |
| 3DG4 | .85 | 6AU8 | .88 | 6CY5 | .70 | 12AQ5 | .72 | 25C5 | .58 |
| 3DK6 | .72 | 6AV6 | .53 | 6CY7 | .86 | 12AT6 | .60 | 25CD6GB | 1.52 |
| 3DT6 | .54 | 6AW8 | .90 | 6DA4 | .68 | 12AT7 | .75 | 25DN6 | 1.70 |
| 4AU6 | .64 | 6AX4 | .83 | 6DE6 | .61 | 12AU6 | .48 | 25L6 | .57 |
| 4BC8 | 1.29 | 6BA6 | .56 | 6DK6 | .59 | 12AU7 | .75 | 35C5 | .48 |
| 4BQ7 | 1.29 | 6BC5 | .62 | 6DQ5 | 2.28 | 12AV6 | .38 | 35W4 | .42 |
| 4BZ6 | .56 | 6BC8 | 1.14 | 6DQ6 | 1.05 | 12AV7 | .98 | 35Z5GT | .60 |
| 4BZ7 | 1.29 | 6BE6 | .55 | 6DT6 | .53 | 12AX4 | .85 | 50C5 | .63 |
| 4CB6 | .56 | 6BG6GB | 1.70 | 6EA8 | .67 | 12AX7 | .61 | 50EH5 | .53 |
| 5AM8 | .79 | 6BH6 | .68 | 6EB8 | .94 | 12AZ7 | .82 | 50L6 | .60 |
| 5AN8 | .90 | 6BH8 | .98 | 6EM7 | 1.08 | 12B4 | .68 | 7025 | .82 |
| 5AQ5 | .54 | 6BJ6 | .65 | 6EW6 | .57 | 12BA6 | .38 | | |
| 5AT8 | .83 | 6BK7 | .85 | 6FQ7 | .76 | | | | |
| 5BK7 | .86 | 6BL7 | 1.09 | 6GH8 | .67 | | | | |
| 5BQ7 | 1.20 | 6BN6 | .74 | 6GK5 | .82 | | | | |
| 5CG8 | .81 | 6BN8 | .80 | 6GM6 | .68 | | | | |
| 5CL8 | .76 | 6BQ5 | .59 | 6GN8 | 1.20 | | | | |

## ORDER NOW!

★ Howard W. Sams
★ General Electric
★ Supreme Publications
★ International Rectifier
★ Radio Corporation of America

# TECHNICAL BOOKS

**HWS 101 USES FOR OSCILLOSCOPE.** By Robert G. Middleton. Covers the many possible uses of the oscilloscope. 180 pages. Size 5½"x11"
No. B-277 ____ $2.50

**HWS 101 USES FOR VOM-VTVM.** By Robert G. Middleton. A practical guide to the use of the VOM and VTVM. Over 150 illustrations. 116 pages.
No. B-278 ____ $2.00

**HWS 101 MORE WAYS TO USE YOUR VOM-VTVM. TEM-8.** By Robert G. Middleton. This is a sequel to book TEM-2 (above) and stresses the proper interpretation of observed wave-forms. Illustrated. 160 pages.
No. B-279 ____ $2.50

**HWS TUBE SUBSTITUTION HANDBOOK. TUB-6** 96 pages of substitutions for American, industrial and European receiving, and picture tubes.
No. B-271 ____ $1.50

**HWS TRANSISTOR SUBSTITUTION HANDBOOK VOL. 3.SSH-3** 6500 Direct Substitutions. 668 U. S. Substitutions for Japanese Transistors. 530 Semiconductor Diode Substitutes.
No. B-273 ____ $1.50

**HWS HOW TO READ SCHEMATIC DIAGRAMS.** Contains all types of schematic symbols and diagrams including tubes, transistors, capacitors, resistors, microphones, etc. 96 pages.
No. B-280 ____ $1.50

**HWS TV SERVICING GUIDE BY SYMPTOMS.** A quick, easy to follow reference guide showing how to use proper trouble-shooting techniques based on analysis of symptoms. 132 pages. 8½" x 11".
No. B-281 ____ $2.00

**HWS ABC'S OF TRANSISTORS. TRA-1.** By George B. Mann. Explains principles, construction, basic circuits, temperature considerations, practical training and servicing procedures. Illustrated. 96 pages.
No. B-282 ____ $1.25

**HWS UNDERSTANDING CAPACITORS AND THEIR USES. CAP-1.** A 96 page book that makes it easy to understand capacitors.
No. B-274 ____ $1.95

**HWS CITIZENS BAND RADIO HANDBOOK.** By D. E. Hicks. This book is a complete guide for the service technician who installs and maintains CB gear, as well as for anyone who uses CB equipment. 160 pages.
No. B-283 ____ $2.95

**SP RADIO SERVICING COURSE.** A practical radio training course for home study. The course covers basic electricity, including ohms law, coils, transformers, etc.
No. B-285 ____ $2.50

**SP TELEVISION SERVICING COURSE.** A complete home study course covering the basic essentials of TV servicing. Includes: Simple Adjustments To Correct Poor Pictures, Finding Bad Tubes by Observing Picture Faults.
No. B-284 ____ $3.00

**IR PHOTO & SOLAR CELL HANDBOOK.** 112 pages of charts, data, and projects.
No. B-272 ____ $2.00

**RCA TUBE MANUAL.** Data on over 900 receiving tubes including nuvistor, novar. 100 types black and white picture tubes.
No. B-275 ____ $1.00

**GE TRANSISTOR MANUAL.** New 6th edition includes theory and specifications.
No. B-276 ____ $2.00

# Imported Hi-Fi TUBES

## Mullard

Made In England

MOST POPULAR TYPES

★ For Improved Performance
★ Low Noise, High Gain, Less Hum

| Mullard Types | Replaces | Net Each |
|---|---|---|
| EABC-80 | 6AK8 | $1.92 |
| ECC-81 | 12AT7 | 1.55 |
| ECC-82 | 12AU7 | 1.27 |
| ECC-83 | 12AX7 | 1.29 |
| ECC-85 | 6AQ8 | 1.41 |
| ECC-88 | 6DJ8 | 2.38 |
| ECF-80 | 6BL8 | 2.06 |
| ECH-81 | 6AJ8 | 1.83 |
| EF-86 | 6267 | 1.38 |
| EF-89 | 6DA6 | 1.71 |
| EL-34 | 6CA7 | 3.16 |
| EL-37 | 6L6, 5881, 1614 | 3.40 |
| EL-84 | 6BQ5 | 1.25 |
| EZ-81 | 6CA4 | 1.14 |
| GZ-34 | 5AR4 | 2.28 |

### MATCHED PAIRS

| | | |
|---|---|---|
| EL-34MP | 6CA7 | $6.86 Pr. |
| EL-37MP | 6L6, 5881, 1614 | 7.10 Pr. |
| EL-84MP | 6BQ5 | 2.84 Pr. |
| EL-90MP | 6AQ5 | 2.73 Pr. |
| ECL-82MP | 6BM8 | 3.65 Pr. |

# SIEMENS HI-FI TUBES

★Imported from Holland & Germany

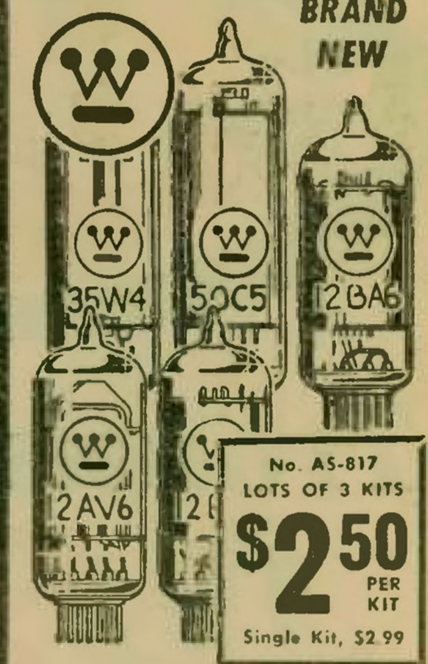
| Siemens Type | Replaces | Net Each |
|---|---|---|
| ECC-81 | 12AT7 | $1.20 |
| ECC-82 | 12AU7 | .99 |
| ECC-83 | 12AX7 | .99 |
| ECC-85 | 6AQ8 | 1.20 |
| ECC-88 | 6DJ8 | 1.72 |
| ECF-80 | 6BL8 | .99 |
| EF-183 | 6EH7 | .99 |
| EF-184 | 6EJ7 | .99 |

# ★ OTHERS ★

| | |
|---|---|
| 6SA7 | $1.02 |
| 6SK7 | .95 |
| 6SQ7 | .94 |
| 12SA7 | 1.08 |
| 12SK7 | .98 |
| 12SQ7 | .85 |

# 5 PACK TUBE KIT

Westinghouse
BRAND NEW




No. AS-817
LOTS OF 3 KITS
$2.50 PER KIT
Single Kit, $2.99

Each kit contains 5 brand new Westinghouse tubes—1 each as listed: 35W4, 50C5, 12BA6, 12AV6, 12BE6. Most common types for AC DC home radios. Wt. 1 lb.

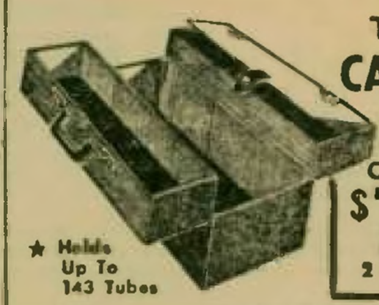
Pfc. Grand F. Gutermuth, RA 19702115 Hq. Co. USASATC, Ft. Devens, Mass. wins choice of merchandise worth $5 from Olson's "Treasure Hunt". See back cover for instructions.



**4-Way Booster**
Adds months to ar picture tube life. Co nects between pictu tube base and socket. 2½" x 1½". Shippin weight ¼ lb.
No. T-276,
3 for $5, lots of 12, Ea. 1.40 ____ Ea. 1.7



**UNIVERSAL BOOSTER**
Increases brightness on o or dim picture tubes. Work with series, parallel, conven tional 70°, 90° or 110° tubes Shipping weight ¼ lb.
No. T-335, 4 for $3.50 99



**Tube CADDY**
No. CA-125
$7.97
2 for $15
★ Holds Up To 143 Tubes

Durable heavy grey covering. Size: 15¾" W x 12½" H x 8" D. Shpg. wt. 8 lbs.

# Westinghouse TUBES

BRAND NEW - FACTORY SEALED

## ONE YEAR GUARANTEE!

**Brand new. All tubes are guaranteed for a full 12 months from the date of purchase. We will replace any defective tube (exclusive of freight charges) within the GUARANTEE period. This does not apply to broken tubes or burned out filaments.**

TUBE TYPES MAY BE ASSORTED FOR QUANTITY PRICE

| TUBE TYPES | MFRS. LIST PRICE | YOUR COST 1-10 Each | YOUR COST 11-Up Each |
|---|---|---|---|
| OZ4 | 2.40 | 1.18 | 1.01 |
| 1B3/1G3/GT | 2.90 | 1.42 | 1.21 |
| 1K3 | 2.90 | 1.42 | 1.21 |
| 1R5 | 3.05 | 1.50 | 1.28 |
| 1S5 | 2.90 | 1.42 | 1.21 |
| 1T4 | 2.90 | 1.42 | 1.21 |
| 1U4 | 2.90 | 1.42 | 1.21 |
| 1U5 | 2.65 | 1.30 | 1.11 |
| 1V2 | 2.10 | 1.03 | .88 |
| 1X2B | 3.05 | 1.50 | 1.28 |
| 2AF4-A | 4.05 | 1.98 | 1.70 |
| 2BN4 | 2.55 | 1.25 | 1.07 |
| 2CY5 | 3.05 | 1.50 | 1.28 |
| 3A3 | 3.40 | 1.66 | 1.42 |
| 3AL5 | 2.05 | 1.00 | .86 |
| 3AU6 | 2.35 | 1.15 | .98 |
| 3BC5 | 2.35 | 1.15 | .98 |
| 3BN6 | 3.85 | 1.89 | 1.61 |
| 3BU8 | 3.10 | 1.51 | 1.29 |
| 3BZ6 | 2.30 | 1.13 | .97 |
| 3CB6 | 2.25 | 1.10 | .94 |
| 3DG4 | 3.40 | 1.66 | 1.42 |
| 3DT6 | 2.20 | 1.08 | .92 |
| 3S4 | 3.20 | 1.56 | 1.33 |
| 3V4 | 2.50 | 1.22 | 1.05 |
| 4BC8 | 4.05 | 1.98 | 1.70 |
| 4BQ7-A | 4.20 | 2.06 | 1.76 |
| 4BZ6 | 2.25 | 1.10 | .94 |
| 4CB6 | 2.30 | 1.13 | .96 |
| 5AM8 | 3.55 | 1.74 | 1.49 |
| 5AQ5 | 2.20 | 1.08 | .92 |
| 5AT8 | 3.65 | 1.79 | 1.53 |
| 5B8 | 5.30 | 2.60 | 2.22 |
| 5BK7A | 3.40 | 1.66 | 1.42 |
| 5BR8 | 3.65 | 1.79 | 1.53 |
| 5CG8 | 3.35 | 1.64 | 1.40 |
| 5CL8A | 3.35 | 1.64 | 1.40 |
| 5T8 | 3.40 | 1.66 | 1.42 |
| 5U4-GB | 2.10 | 1.03 | .88 |

TUBE TYPES MAY BE ASSORTED FOR QUANTITY PRICE

| TUBE TYPES | MFRS. LIST PRICE | YOUR COST 1-10 Each | YOUR COST 11-Up Each |
|---|---|---|---|
| 5U8 | 3.30 | 1.62 | 1.38 |
| 5V4GA | 3.50 | 1.71 | 1.47 |
| 5X8 | 3.45 | 1.69 | 1.45 |
| 5Y3GT | 1.75 | .86 | .73 |
| 6AB4 | 2.15 | 1.05 | .90 |
| 6AC7 | 5.10 | 2.50 | 2.14 |
| 6AF4-A | 4.00 | 1.96 | 1.68 |
| 6AG5 | 2.75 | 1.35 | 1.15 |
| 6AH4GT | 3.45 | 1.69 | 1.45 |
| 6AH6 | 4.65 | 2.28 | 1.95 |
| 6AK5 | 4.40 | 2.15 | 1.84 |
| 6AK6 | 2.90 | 1.42 | 1.21 |
| 6AL5 | 1.85 | .91 | .78 |
| 6AM3A | 3.45 | 1.69 | 1.45 |
| 6AN8A | 4.00 | 1.96 | 1.68 |
| 6AQ5A | 2.35 | 1.15 | .98 |
| 6AQ7GT | 4.00 | 1.96 | 1.68 |
| 6AS5 | 2.40 | 1.18 | 1.01 |
| 6AS8 | 3.80 | 1.86 | 1.59 |
| 6AT6 | 1.90 | .93 | .80 |
| 6AT8A | 3.80 | 1.86 | 1.59 |
| 6AU4GTA | 3.55 | 1.74 | 1.49 |
| 6AU5GT | 4.30 | 2.11 | 1.80 |
| 6AU6A | 2.10 | 1.03 | .88 |
| 6AU8A | 3.50 | 1.71 | 1.47 |
| 6AV5GA | 4.20 | 2.06 | 1.76 |
| 6AV6 | 1.65 | .80 | .69 |
| 6AW8A | 3.70 | 1.81 | 1.55 |
| 6AX4GTB | 2.65 | 1.30 | 1.11 |
| 6BA6 | 2.00 | .98 | .84 |
| 6BA8A | 3.85 | 1.89 | 1.61 |
| 6BC5 | 2.55 | 1.25 | 1.07 |
| 6BC8 | 4.00 | 1.96 | 1.68 |
| 6BE6 | 2.20 | 1.08 | .92 |
| 6BF5 | 3.55 | 1.74 | 1.49 |
| 6BF6 | 1.80 | .88 | .75 |
| 6BG6GA | 6.80 | 3.33 | 2.85 |
| 6BH8 | 3.65 | 1.79 | 1.53 |
| 6BJ6 | 2.60 | 1.27 | 1.09 |
| 6BK5 | 3.70 | 1.81 | 1.55 |

TUBE TYPES MAY BE ASSORTED FOR QUANTITY PRICE

| TUBE TYPES | MFRS. LIST PRICE | YOUR COST 1-10 Each | YOUR COST 11-Up Each |
|---|---|---|---|
| 6BK7B | 3.35 | 1.64 | 1.40 |
| 6BL7GTA | 3.95 | 1.94 | 1.66 |
| 6BN4A | 2.50 | 1.22 | 1.05 |
| 6BN6 | 3.20 | 1.56 | 1.33 |
| 6BQ5 | 2.40 | 1.18 | 1.01 |
| 6BQ6GTB | 4.35 | 2.13 | 1.82 |
| 6BQ7A | 3.95 | 1.93 | 1.65 |
| 6BS8 | 3.75 | 1.84 | 1.57 |
| 6BU8 | 2.80 | 1.37 | 1.17 |
| 6BX7GT | 4.35 | 2.13 | 1.82 |
| 6BY6 | 2.50 | 1.22 | 1.05 |
| 6BY8 | 2.65 | 1.30 | 1.11 |
| 6BZ6 | 2.25 | 1.10 | .94 |
| 6BZ7 | 4.00 | 1.96 | 1.68 |
| 6C4 | 1.85 | .91 | .78 |
| 6CB6A | 2.25 | 1.10 | .94 |
| 6CD6GA | 5.80 | 2.84 | 2.43 |
| 6CF6 | 2.55 | 1.25 | 1.07 |
| 6CG7 | 2.45 | 1.20 | 1.03 |
| 6CG8A | 3.30 | 1.62 | 1.38 |
| 6CL6 | 3.75 | 1.84 | 1.57 |
| 6CL8A | 3.15 | 1.54 | 1.32 |
| 6CM7 | 2.90 | 1.42 | 1.21 |
| 6CN7 | 2.90 | 1.42 | 1.21 |
| 6CQ8 | 3.50 | 1.71 | 1.47 |
| 6CS6 | 3.35 | 1.15 | .98 |
| 6CS7 | 2.95 | 1.44 | 1.24 |
| 6CU8 | 4.15 | 2.03 | 1.74 |
| 6CY5 | 2.75 | 1.35 | 1.15 |
| 6CX8 | 3.85 | 1.89 | 1.61 |
| 6DE4 | 2.85 | 1.39 | 1.17 |
| 6DE6 | 2.55 | 1.25 | 1.07 |
| 6DQ6 | 4.10 | 2.01 | 1.72 |
| 6EA8 | 3.20 | 1.56 | 1.33 |
| 6EB8 | 4.00 | 1.97 | 1.68 |
| 6EM7 | 5.10 | 2.50 | 2.14 |
| 6H6 | 4.00 | 1.96 | 1.68 |
| 6J5 | 3.65 | 1.79 | 1.53 |
| 6J6 | 2.80 | 1.37 | 1.17 |
| 6J7 | 4.95 | 2.43 | 2.07 |
| 6K6GT | 2.65 | 1.30 | 1.11 |
| 6L6 | 8.60 | 4.21 | 3.60 |
| 6L6GC | 4.20 | 2.06 | 1.76 |
| 6S4A | 2.45 | 1.20 | 1.03 |
| 6SA7 | 4.30 | 2.11 | 1.80 |

TUBE TYPES MAY BE ASSORTED FOR QUANTITY PRICE

| TUBE TYPES | MFRS. LIST PRICE | YOUR COST 1-10 Each | YOUR COST 11-Up Each |
|---|---|---|---|
| 6SC7 | 4.20 | 2.06 | 1.76 |
| 6SJ7 | 4.15 | 2.03 | 1.74 |
| 6SK7 | 3.95 | 1.93 | 1.65 |
| 6SL7GT | 3.50 | 1.71 | 1.47 |
| 6SN7GTB | 2.60 | 1.27 | 1.09 |
| 6SQ7 | 3.80 | 1.86 | 1.59 |
| 6T8A | 3.35 | 1.64 | 1.40 |
| 6U8A | 3.30 | 1.62 | 1.38 |
| 6V3A | 4.55 | 2.23 | 1.91 |
| 6V6GT | 2.20 | 1.08 | .92 |
| 6W4GT | 2.40 | 1.18 | 1.01 |
| 6W6GT | 2.80 | 1.37 | 1.17 |
| 6X4 | 1.65 | .80 | .65 |
| 6X5GT | 2.05 | 1.00 | .86 |
| 6X8 | 3.15 | 1.54 | 1.32 |
| 7AU7 | 2.60 | 1.27 | 1.09 |
| 7N7 | 7.55 | 3.70 | 3.16 |
| 8AW8A | 3.65 | 1.79 | 1.53 |
| 10DE7 | 3.40 | 1.66 | 1.42 |
| 12AB5 | 3.50 | 1.71 | 1.47 |
| 12AD6 | 2.40 | 1.18 | 1.01 |
| 12AQ5 | 2.60 | 1.27 | 1.09 |
| 12AT6 | 1.85 | .91 | .78 |
| 12AT7 | 3.05 | 1.49 | 1.28 |
| 12AU6 | 2.15 | 1.05 | .90 |
| 12AU7A | 2.45 | 1.20 | 1.03 |
| 12AV5GA | 3.85 | 1.89 | 1.61 |
| 12AV6 | 1.65 | .80 | .69 |
| 12AV7 | 3.55 | 1.74 | 1.49 |
| 12AX4GTA | 2.70 | 1.32 | 1.13 |
| 12AX7 | 2.50 | 1.23 | 1.05 |
| 12AZ7A | 3.05 | 1.50 | 1.28 |
| 12B4A | 2.70 | 1.33 | 1.14 |
| 12BA6 | 1.65 | .80 | .69 |
| 12BE6 | 1.75 | .86 | .73 |

TUBE TYPES MAY BE ASSORTED FOR QUANTITY PRICE

| TUBE TYPES | MFRS. LIST PRICE | YOUR COST 1-10 Each | YOUR COST 11-Up Each |
|---|---|---|---|
| 12BH7A | 3.05 | 1.49 | 1.28 |
| 12BQ6GTB | 4.45 | 2.18 | 1.86 |
| 12BR7 | 3.20 | 1.56 | 1.33 |
| 12BY7A | 3.05 | 1.50 | 1.28 |
| 12C5/12CU5 | 2.45 | 1.20 | 1.03 |
| 12CA5 | 2.85 | 1.39 | 1.17 |
| 12D4 | 2.75 | 1.35 | 1.15 |
| 12DQ6B/A | 4.20 | 2.06 | 1.76 |
| 12L6GT | 2.75 | 1.35 | 1.15 |
| 12SA7 | 4.30 | 2.11 | 1.80 |
| 12SK7 | 3.90 | 1.91 | 1.63 |
| 12SN7GTA | 2.70 | 1.32 | 1.13 |
| 12SQ7 | 3.75 | 1.84 | 1.57 |
| 12V6GT | 2.40 | 1.18 | 1.01 |
| 12W6GT | 3.00 | 1.47 | 1.26 |
| 12X4 | 1.90 | .93 | .80 |
| 17D4 | 2.75 | 1.35 | 1.15 |
| 17DQ6B | 4.20 | 2.06 | 1.76 |
| 19AU4GTA | 3.45 | 1.69 | 1.45 |
| 19T8 | 3.90 | 1.71 | 1.47 |
| 25BQ6GTB | 4.65 | 2.28 | 1.95 |
| 25DN6 | 6.80 | 3.34 | 2.76 |
| 25L6GT | 2.35 | 1.15 | .98 |
| 25Z6GT | 3.50 | 1.71 | 1.47 |
| 35C5 | 2.15 | 1.05 | .90 |
| 35L6GT | 2.40 | 1.18 | 1.01 |
| 35W4 | 1.10 | .53 | .47 |
| 35Y4 | 4.80 | 2.35 | 2.01 |
| 35Z5GT | 1.85 | .91 | .78 |
| 50B5 | 2.95 | 1.45 | 1.24 |
| 50C5 | 2.15 | 1.05 | .90 |
| 50EH5 | 2.30 | 1.13 | .96 |
| 50L6GT | 2.55 | 1.25 | 1.07 |
| 117Z3 | 4.35 | 2.13 | 1.82 |

TUBE TYPES MAY BE ASSORTED FOR QUANTITY PRICE

# Precision Radiation Instruments

# GEIGER COUNTER

## and Radiation Detector!

NEW

Original FACTORY CARTONS



SCHOOLS



C. D. UNITS



LABORATORIES



HOSPITALS



INDUSTRY



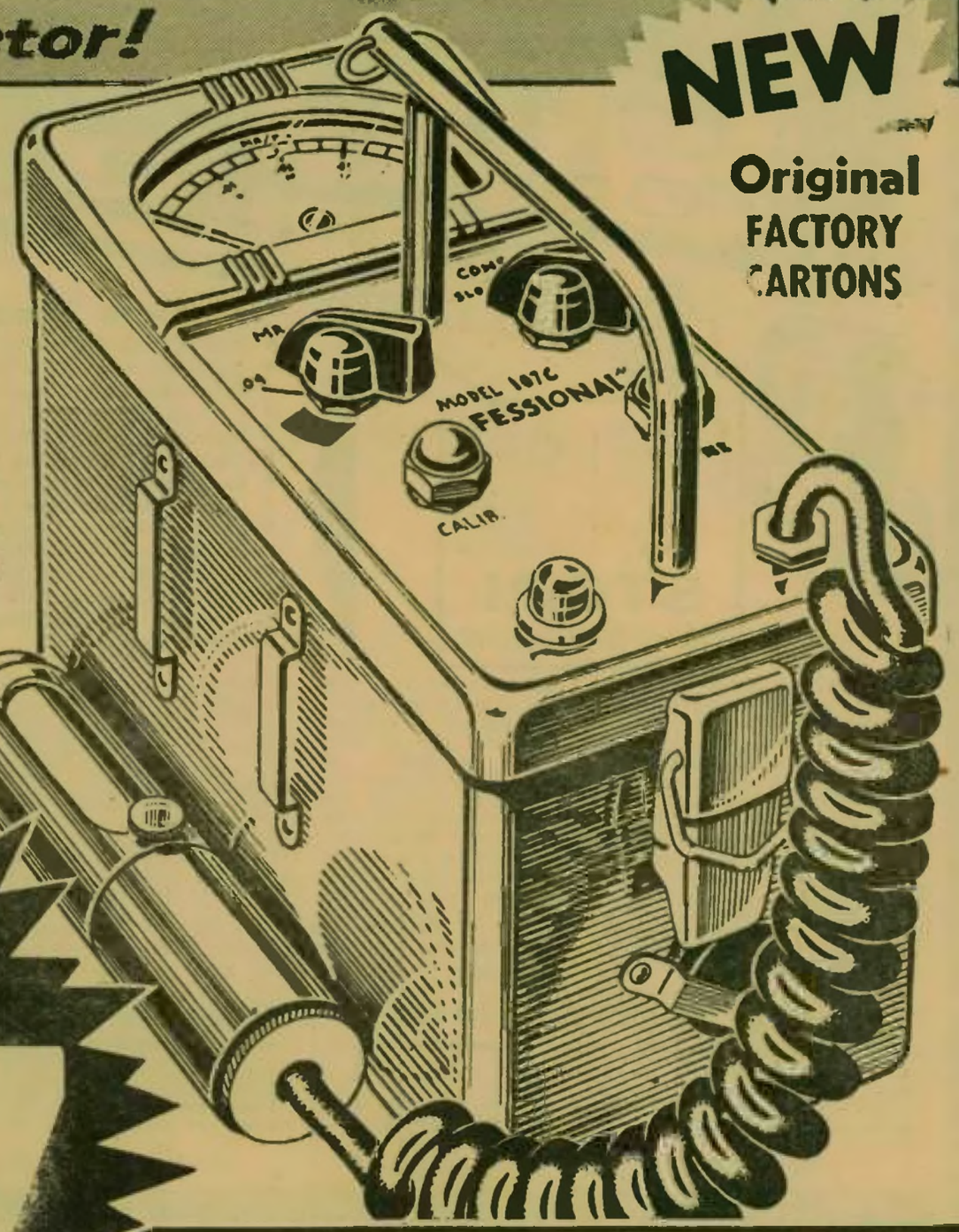
HOBBYISTS



"ROCK HOUNDS"

## HOW IT WORKS . . .

This highly sensitive device will detect the presence of radio active material from a few feet to dozens of feet away. It is equipped with a Geiger Mueller tube, which is filled with a gas and mounted in a directional probe. This "Professional" geiger counter has three means of indicating radio activity: a neon flasher, earphone and a meter.




## The Model 107C "Professional"

The model 107C "Professional" instrument is for the person who wants the best Geiger Counter made . . . many Civil Defense organizations use the 107C for the low level area surveys required in Civil Defense work . . . Hospitals, Industry and Laboratories use to detect the presence of radio activity in the air, in liquids, solids and minerals. Exclusive Percent Meter enables the prospector to determine the percentage of uranium in the ore right in the field. The instrument has four ranges of sensitivity: 04, .2, 2.0 and 20 milliroentgens per hour full scale. Two time constants are provided. The extra fast time constant makes it easier to assey ore in the field. Features a Dyna-Mu circuit which utilizes the latest type of low current subminiature tubes. Tube complement: one 1B85, four 6007, two NE-2 and one NE-51. The sensitive Geiger Mueller tube is enclosed in a sturdy metal probe housing with sliding door and three foot shielded cable. The cable is coiled to stretch or retract as you move the probe. Probe clips to side of case when not in use. A calibrated control is provided on the top panel and a calibrated radio active sample is supplied, making it possible to calibrate the instrument in the field with no additional equipment. The entire instrument is completely heavy chrome plated, waterproof and tropicalized. A handsome saddle grain leather carrying case with shoulder strap plus assay container, headphone, ore sample bag and instructions is included. (less batteries) Size 3⅝" x 4⅝" x 7⅝". Shipping weight 11 lbs.

John Redmond, Box 1, Rt. 2, Greensburg, La., wins choice of merchandise worth $5 from Olson's "Treasure Hunt". See back cover for instructions.

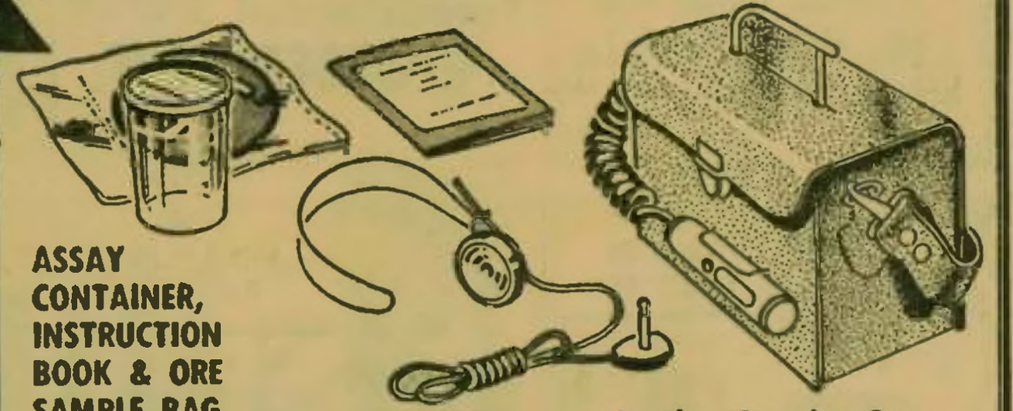
MFGR'S 1955 LIST PRICE ~~$14.95~~

**$9.97**

**No. ME-120**

COMPLETE SET OF BATTERIES for model 107C Geiger Counter. Contains: 2—1½ volt, Nedu No. 815, 1—67½ volt, Nedu No. 200, 1—45 volt Burgess No. XX-50.

No. AS-831 **$4.15**



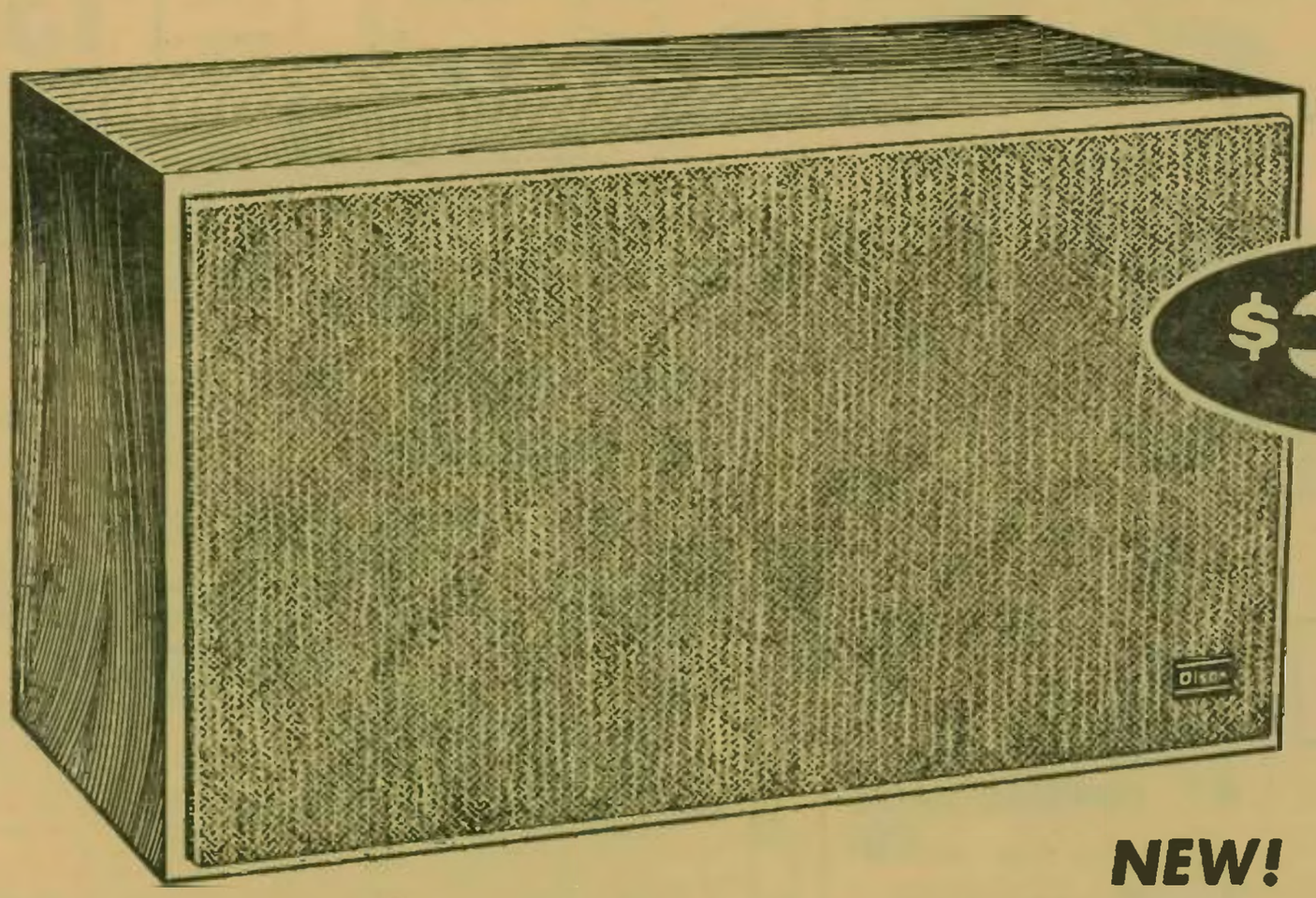
ASSAY CONTAINER, INSTRUCTION BOOK & ORE SAMPLE BAG

HEADPHONE

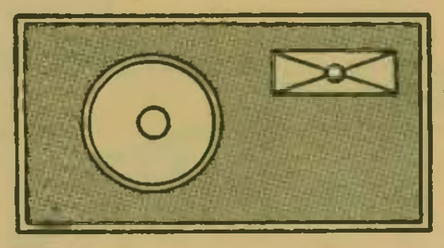
Leather Carrying Case

# Olson 2-Way SPEAKER SYSTEM

• *Designed and Built for Olson by a Leading U.S.A. Manufacturer*



8" High Compliance "FLEX-AIRE" Woofer



Horn Loaded Compression Tweeter

No. S-570

**$37.88**

2 FOR $70

Slim-Line DESIGN

10x18x6¼"

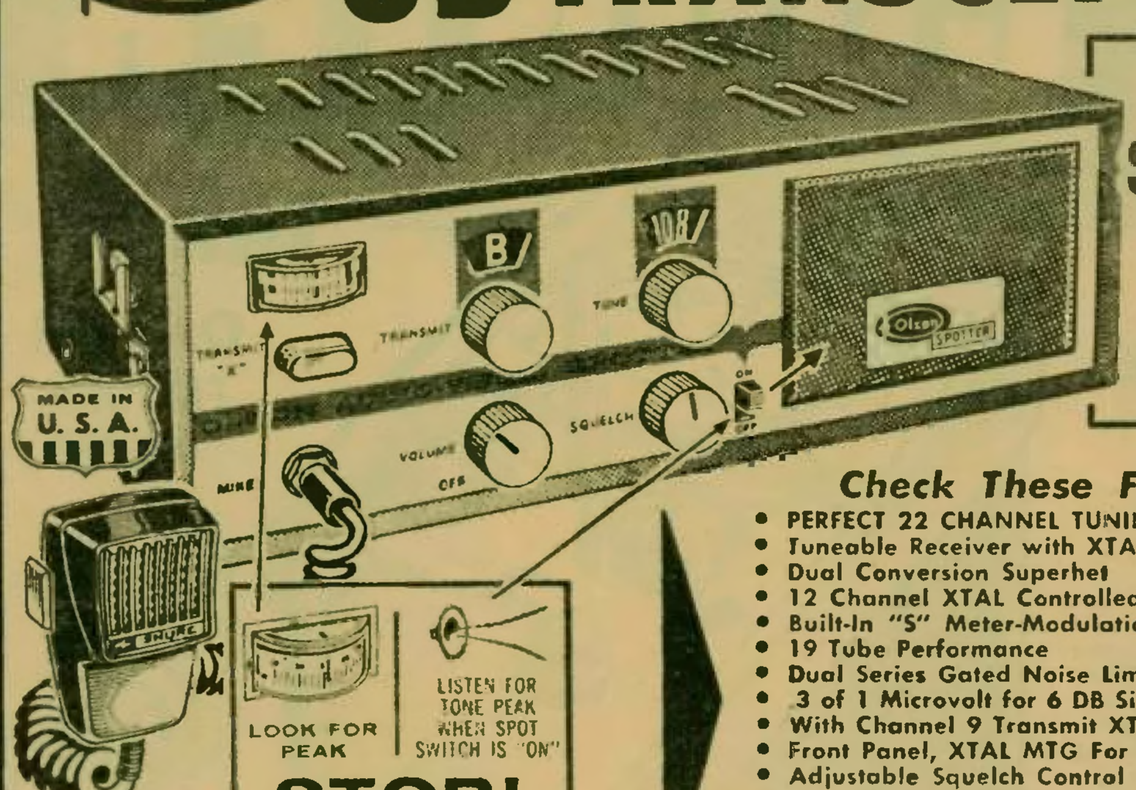
Made In U.S.A.



**NEW!**

In Olson's new two-way speaker system, full-range reproduction is achieved by expert blending of two high quality speakers: a high-compliance, long-travel 8" genuine FLEX-AIRE woofer and a special horn loaded compression driver tweeter. This news system comes to you in a full size but gracefully slender cabinet that combines big speaker performance with elegant appearance. The wood is genuine walnut veneer in oil finish. A new custom-woven grille fabric provides a distinguished decorator touch. Size: 10" x 18" x 6¼". Response: from smooth low frequencies thru 18,000 cps. Impedance: 8 ohms. Shipping weight 22 lbs.

# Olson CB Audio-Visual Spotter TRANSCEIVER




No. RA-530

**$119.95**

NO MONEY DOWN
$7 MONTHLY

## Check These Features:

- PERFECT 22 CHANNEL TUNING
- Tuneable Receiver with XTAL Spotter
- Dual Conversion Superhet
- 12 Channel XTAL Controlled Transmit
- Built-In "S" Meter-Modulation Indicator
- 19 Tube Performance
- Dual Series Gated Noise Limiter
- .3 of 1 Microvolt for 6 DB Signal To Noise
- With Channel 9 Transmit XTAL
- Front Panel, XTAL MTG For Transmit
- Adjustable Squelch Control
- 110 V AC, 6 and 12 V DC Power Supply Built-In
- Receive Local Oscillator XTAL Controlled
- Illuminated Dial

A UNIQUE CB TRANSCEIVER designed and built for OLSON in the USA by a leading specialist in CB equipment. The specifications and performance are far above those of any competitively priced unit. OLSON brings you the convenience of variable tuning receiver with the stability of crystal control, utilizing our new audio visual spotter. By using the spotter switch, the receiver can be tuned to the exact frequency of the crystal controlled transmitter. The exact receive channel tuning point is indicated on the "S" meter, as well as an audible tone signal. Ideal for mobile rigs, where the meter might not be easily viewed. The unit comes equipped with a SHURE mike ready to plug in for clear undistorted voice pickup, hermetically sealed relay for push to talk.

Full five watts input, with 100% modulation, 3 watts or more output. Built-in power supply provides operation on 110-125 Volts AC, 6 and 12 Volts DC Selectivity 5 kc. Auxiliary speaker terminal provides for internal and/or external speakers. NINE TUBES and FOUR DIODES offer performance equal to 19 tubes. Variable squelch with positive action. "S" Meter denotes received signal strength and relative modulation indication. Uses standard 3rd overtone type crystal, PL-259 type antenna connector. 110 Volt AC cable included. Unit attractively housed in low silhouette beige and brown cabinet 4½" H x 12½" W x 7" D. Shipping weight 14 lbs.

## ACCESSORIES:

| | |
|---|---|
| 6 or 12 Volt DC Cable, No. W-430 | $2.95 |
| Mobile Mounting Bracket No. HW-46 | $2.95 |
| Transmit Crystal No. CB-1, Lots of 3, ea. $1.57 | ea. $1.79 |

## Complete CB BASE STATION

**HERE'S WHAT YOU GET:**

| | | |
|---|---|---|
| 1—"Spotter" Transceiver, No. RA-530 | | $119.95 |
| 1—A.S. M81 Base Antenna, No. AA-90 | | 24.87 |
| 1—100-Ft. RG8-U Coax Cable, No. W-431 | | 10.99 |
| 2—Connector Plugs, No. X-852 | 2 for | 1.00 |
| Total Regular Catalog Price | | $156.81 |

YOU PAY ONLY **$144** AS-807

## Complete CB MOBILE STATION

**HERE'S WHAT YOU GET**

| | | |
|---|---|---|
| 1—"Spotter" Transceiver, No. RA-530 | | $119.95 |
| 1—Phantom Antenna, No. AA-106 | | 5.97 |
| 1—Mobile Mounting Bracket, No. HW-46 | | 2.95 |
| 1—6 & 12V DC Power Cable, No. W-430 | | 2.95 |
| Total Regular Catalog Price | | $131.82 |

YOU PAY ONLY **$121** AS-826

# Olson Deluxe 6 Meter TRANSCEIVER



**NEW!**

No. RA-570

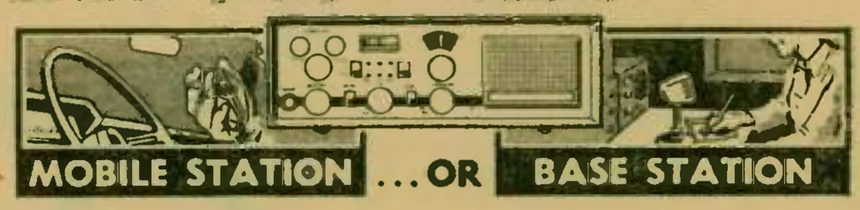
**$139.98**

NO MONEY DOWN
$8 MONTHLY

- 100% Modulation
- 15 Watts Input to final
- Receive: SSB, AM & CW
- Dual Conversion Superhet. Receiver

★ **RECEIVES SINGLE SIDEBAND**

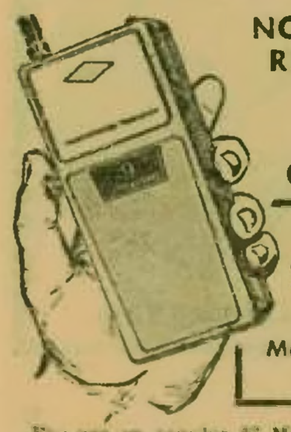
This deluxe 6-meter transceiver is designed and built in the U.S.A. by one of the leaders in communication equipment. Olson brings you the utmost in flexibility and highest quality at a real money-saving price. The superheterodyne receiver features dual-conversion with temperature compensated, crystal controlled local oscillator and ganged tuned second oscillator and mixer. Receiver tunes 49.9 to 52.2 MC with sensitivity of .5 μ for 6 db signal to noise ratio. Has tunable BFO for single-sideband reception. Image rejection is better than 24 db down. I.F. frequency is 12 MC for first I.F. and 595 KC for second I.F. Audio output 2.5 watts undistorted. Transmitter features 15 watts input with 100% modulation. RF power amplifier works straight through on 6 meters. High level modulation of both screen grid and plate. Transmitter will operate with 8 or 25 MC crystals for greater flexibility. Pi-network output tunes transmitter to match any antenna from 35 to 150 ohms. Microphone preamplifier provides increased average modulation. Spot switch provides a means for checking transmitter frequency. Three sockets are provided on front panel for crystals and/or VFO. Dual purpose meter works as a receiver S-meter and transmitter tuning meter. Dual power supply, 117 volts AC (power cord included) and 12-volt DC. Complete with a Turner 350C push-to-talk mike with coiled cord. Size: 4½" h x 12½" w x 7" d. Shipping weight 22 lbs.




| | |
|---|---|
| 12v. DC Cable, No. W-449. Shpg. wt. ¼ lb. | $2.95 |
| Mobile Mounting Bracket No. HW-46. Shpg. wt. ¼ lb. | $2.95 |

## 9 Transistor Citizens Band Walkie Talkie

● With Batteries, Earphone & Case



NO LICENSE REQUIRED

★ CRYSTAL CONTROLLED

No. RA-446

**$29.99**

Matched Pair $59.50

For use on popular 27 MC citizen's band. Receiver is specially designed superheterodyne circuit for reliable two-way communications. Operating range 1 mile and up under ideal conditions. Built-in speaker. Push-to-talk switch and volume on-off switch all conveniently located for finger-tip control. Operates on 8 self-contained penlite cells available anywhere. Jacks provide for earphone. Built-in telescoping antenna. Styles may vary slightly. Size: 7½" x 2⅝" x 1½". Shipping weight 4 lbs.

BATTERIES (8 req'd) No. BA-67, 8 for 59c

## DARE RF INDICATOR PROBE



★ RANGE TO 300 MC
★ USE TO PEAK TRANSMITTER
★ LOCATE RF LEAKS

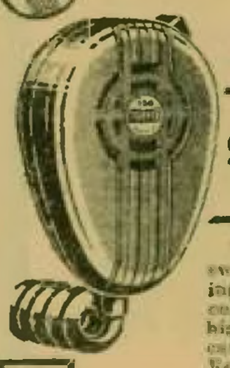
**$9.99** No. RE-84 Mfgrs. 1963 List Price $29.95

Here is a simple, fool proof way to make RF checks from any transmitter or oscillator without complicated instruments. The new DARE RF1-1 probe is a complete, self-contained instrument which responds instantly to the presence of RF energy, yet requires no power, has no batteries, or tubes. Ideal for quick relative quantity checking of RF, peaking transmitters and peaking coils, making relative output checks, determining radiation patterns, etc. Operating range to 300 MC. Size 2½" x 10½". Shipping weight 1 lbs.

## Communications MIKE

Model 350C

★ Made in U.S.A.



**$5.98** No. M-165

With push-to-talk switch. Includes mounting clip and heavy duty coiled cord. Features a high impact polystyrene case. Ceramic element. Resp.: 80-7,000 cps. Output level — 54 db. High imp. Shipping weight 1 lbs.

## Transistorized 2-WAY WALKIE-TALKIE



EASY TO BUILD KIT FORM

★ NO LICENSE REQUIRED

No. RA-583

**$9.70**

2 For $18.45

Anyone can build and operate this fully transistorized transceiver. All you do is press to transmit—release to listen, and you can communicate, under ideal conditions, up to ¼ mile away. 27 MC CITIZEN'S BAND SPACEPHONE REQUIRES NO LICENSE—NO EXAMINATION—NO AGE LIMIT! High impact, shock resistant case. Uses standard 9-volt transistor battery available everywhere. (less battery). Shipping weight 1¼ lbs.

Battery (1 req'd.) No. BA-89 ea. 21c

## Magnetic MIKE HOLDER

★ Clips on Back of Mike
★ Attach to Metal Surface



**99c** No X-924

Powerful ceramic magnet attaches to back of any handmike with standard hanger bottom. You can then hang mike up on any metal surface such as car dash or transceiver case. No holes to drill in mike or car dash. Simply clip to back of mike and it's ready to use. Size: 1¼" x 1⅝" x 7/16". Shpg. wt. ¼ lb.

Model 254C - COMMUNICATIONS

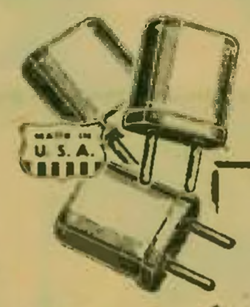
## DESK MIKE

★ High Output Ceramic Element



**$14.10** No. M-167

Ideal for CB or amateur use. Touch to talk and locking on-off switch lever. One piece die cast case. Chrome trim. Response 80-7,000 CPS; output level is —54 db. Includes 7 ft. of shielded 3 conductor cable. Wired for relay operation. Size: 7⅝" H. x 5½" D. Shpg. wt. 3 lbs.



## CB TRANSMIT CRYSTALS

No. CB-1

**$1.57**

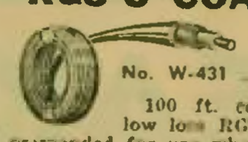
EA. IN LOTS OF 3

Single Ea. $1.79

SPECIFY YOUR CHOICE OF CHANNELS 1 THRU 22

Popular 3rd overtone type crystals. Standard case with .25" mounting centers. These hermetically sealed crystals fit all Olson Transceivers as well as, General Radio, Globe CB 100, CB 100A, De Wald TR 910, Heath CB, United Scientific Labs R800-TR910-TR1000, and many others. Shipping weight ¼ lb.

## RG8-U COAX CABLE



No. W-431 **$10.99**

100 ft. coil of high quality low loss RG8-U coax cable recommended for use where antenna lead exceeds 50 ft. Perfect for Citizens Band applications. Shipping weight 12 lbs.

## Coiled Comm. MIKE CORD



Communication replacement cord. 1 wire shielded. 1 pair for control circuits. Shipping weight ½ lb.

No. W-424 Ea **$1.59**

## Generator NOISE FILTER



Adjustable for 3 to 30 MCS. Ideal for C. B. Mounts on top of generator. Complete with instructions. Size 2½" L. x 2¾" H. x 1¾" Dia. Shpg. weight ½ lb.

No. RA-532, 3 for $6.98 **$2.49**



## Antenna Cable Kit

Kit to connect antenna to C. B. transceiver. 20' RG58U cable, 2-PL-259 plugs, 2-UG-175 reducers.

No. W-387 **$2.29**

| | |
|---|---|
| Plug, No. X-852, 2 for $1.00 | Ea. 59c |
| Reducer, No. X-853, 2 for 30c | Ea. 16c |

20 FT. ANTENNA CABLE, completely assembled. PL-259 connector on each end. Shipping weight 2 lbs. No. W-458 $2.49

## UG-175 ADAPTOR



No. PL-95
2 for 30c Ea. **16c**

Adaptor enables PL-259 connector to be used with RG-59U coax cable. Shipping weight ½ lb.

## R.F. COAXIAL JACK



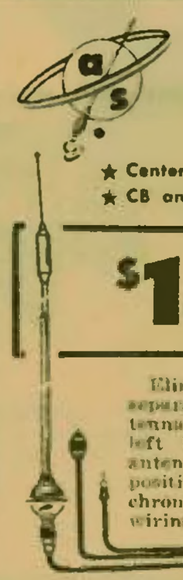
No. PL-96 Ea. **60c**

Chassis mounting receptical for PL-259 coax plug. Use for quick positive antenna connection. Shipping wt. ½ lb.

## CB MOBILE ANTENNA

MODEL M-103

★ Center Loaded Cowl Mount
★ CB and Broadcast



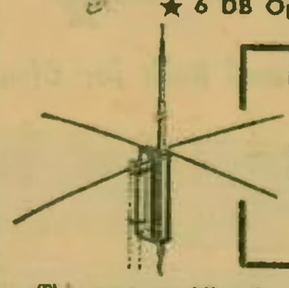
**$14.64** No. AA-105

Eliminates the necessity of separate CB and broadcast antennas. Fits easily into the hole left by the regular broadcast antenna. 46" long in operating position, collapses to 31". Heavy chrome plating. Complete with wiring harness and all necessary plugs and hardware. Shipping weight 4 lbs.

## CB Base ANTENNA

Magnum 27
MODEL M-81

★ 6 DB Operating Gain



No. AA-90

**$24.87**

This new omnidirectional base antenna, end fed ½ wave length, shunted 27 M.C. CB antenna. Ruggedly built of rigid aluminum and cadmium plated steel. Hi-"Q" phasing transformer for proper resonance over entire citizens band. Shipping wt. 9 lbs. Shipped parcel post, except shipped railway express to 1st class post offices.

## NEW TRONICS CB Phantom ANTENNA

★ Cowl Mount
★ Copper Braid Sheathed



**$5.97** No. AA-106

First and only Fibre Glass Antenna sheathed in copper braid. Bending of more than 90° will not crack or break it. Has all the electrical efficiency of an all metal antenna. Mounts on any convenient location on car or truck. Only 48" high. Works on all channels with low SWR. Complete with universal automotive mount and 5 ft. lead with PL-259 type connector. Shpg. wt. 3 lbs.

LOW-COST WHIP ANTENNA

★ Top or Side Mounting
★ Swivel Joint

**102"** Spring Mounted Whip



**$5.99** No. AA-91

May be cowl, trunk or fender mounted. A terrific bargain for the 27 M.C. mobile rig. A durable first line antenna and mount at a bargain price. Shipping wt. 7 lbs. Shipped railway express only.

## CB Mobile ANTENNA

MODEL M-67



★ 12 FEET OF CABLE

MOUNTS ON TOP OF CAR

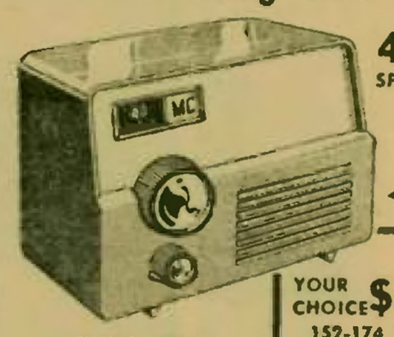
No. AA-101

**$13.45**

Omnidirectional base loaded with 35" stainless steel whip. Mounts on top of car. 12' of cable and PL-259 connector included. Shipping weight 3 lbs.

Jim's radio & TV Serv., J. M. Goundie, 400 N. 10th, Paducah, Tex., wins choice of merchandise worth $5 from Olson's "Treasure Hunt". See back cover for instructions.

## FM Monitoring Receiver




**TUNE IN:**

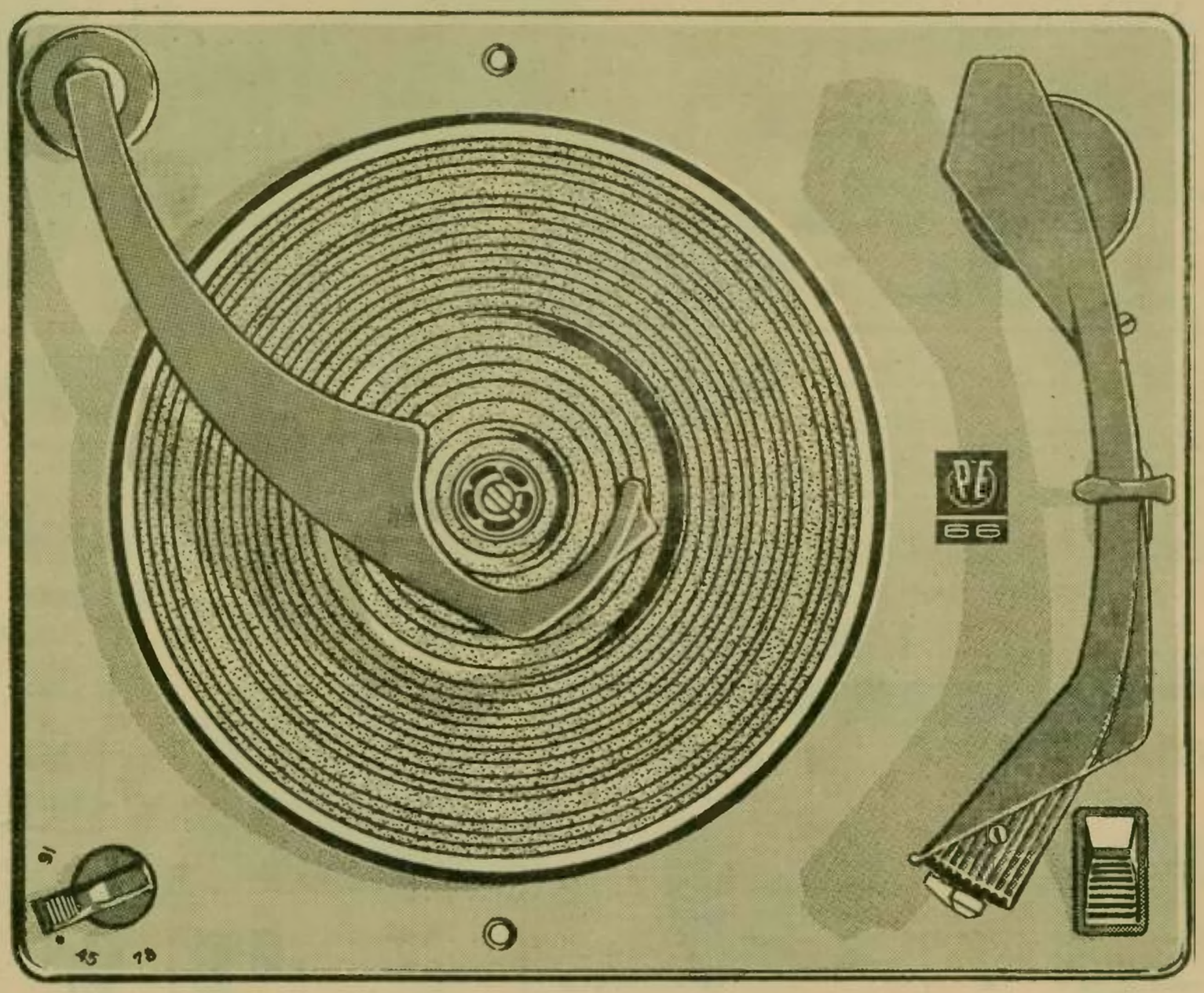
Police Calls
Mobile Telephone Calls
Fire Department Calls

You will hear the news in the making! Features temperature compensated, superheterodyne circuit for no drift. Ratio detector circuit minimizes noise under "no signal" conditions. Size: 9½" x 6" x 6½". For 110-125 volts AC, 60 cps. Shipping weight 8 lbs.

# PERPETUUM-EBNER STEREO CHANGER

- ★ Imported from Western Germany
- ★ With Ceramic Turnover Cartridge
- ★ 4-Speed Automatic
- ★ Rugged 4-Pole Motor

Made in Europe by craftsmen who take great pride in quality workmanship. Every detail of construction is painstakingly followed to give you absolutely flawless performance. Change cycle is carefully timed to handle your records with the utmost care. Balanced tone arm equipped with stereo ceramic turnover cartridge, gives light, skip-free tracking. Easily adjusted to meet any cartridge compliance requirement. Large turntable and heavy-duty 4-pole motor give smooth, quiet operation that is free from rumble or wow. Turntable top has non-slip foam-rubber mat. Neutral position on speed selector disengages drive wheel to prevent flat spots. Plays all size records, both stereo and monaural with utmost clarity and fidelity. Automatic shut-off after last record. Four speeds 78, 45, 33⅓ and 16 RPM. Size 13" x 10¾" x 5⅝" above mounting board and 3⅝" below. 110 to 125 volts AC 60 CPS. Shipping weight 12 lbs.




## GUARANTEED OR MONEY BACK!

. . . if for any reason you are not 100% satisfied with the outstanding performance and excellent craftsmanship of this Changer, return it with your order papers or sales slip within six months from date of purchase, to the Olson outlet from which the sale originated (Mail Order or Store) and your $18 will be refunded with NO QUESTIONS ASKED!

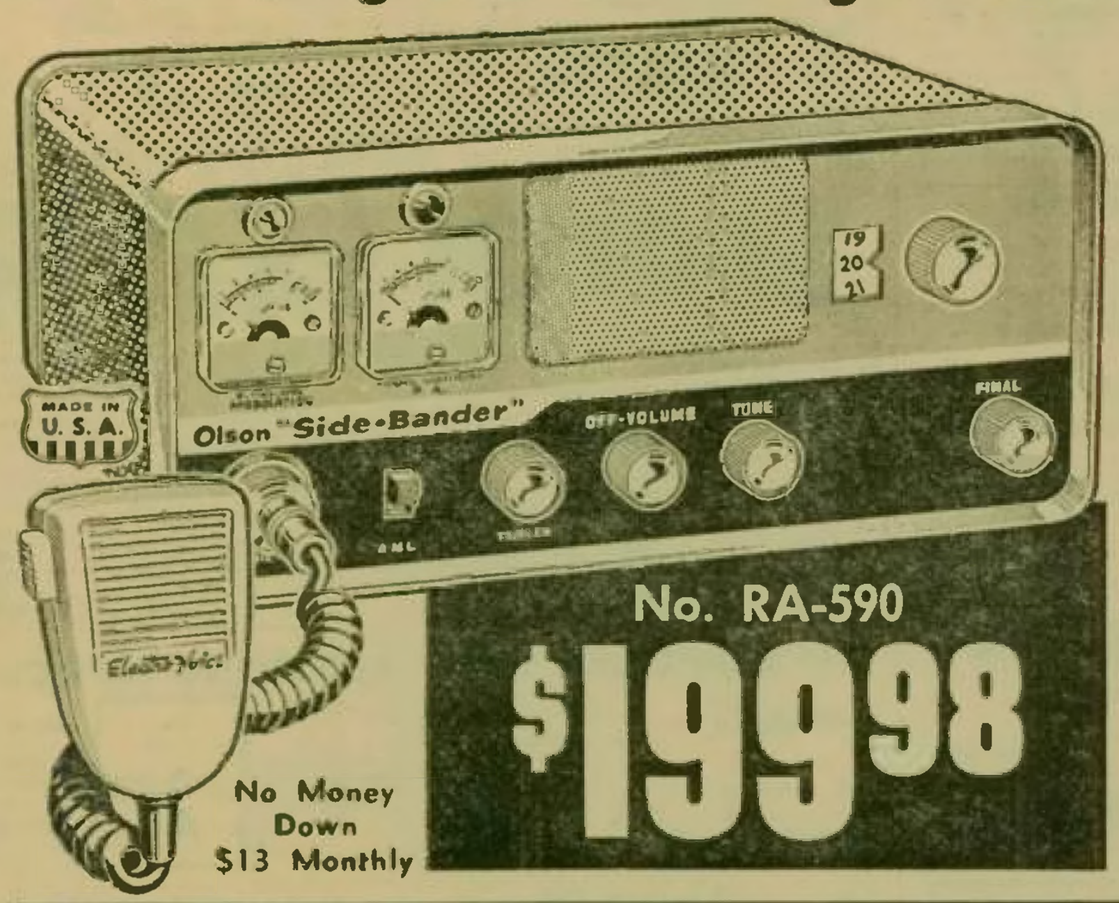
| | |
|---|---|
| Mounting Base, No. CA-260 | $3.88 |
| 45 RPM Spindle, No. RP-240 | 2.49 |
| AC Line Cord, No. W-43 | .99 |
| 2-5 Ft. Audio Cables, No. W-321, 2 For | 1.00 |

No. RP-250 **$18**

## Introducing the Amazing New . . Olson "Side-Bander"

# CB TRANSCE VER

### With Exclusive Double Side-Band Reduced Carrier

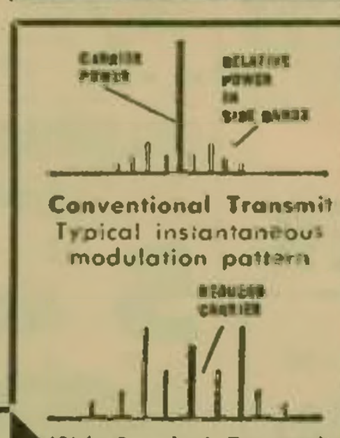



No. RA-590
**$199.98**

No Money Down
$13 Monthly

**ALL CRYSTALS INCLUDED FOR 23 CHANNELS**

- 10 Watt P.E.P.
- Dual Panel Meters
- 2-Tube Push-Pull Modulation
- Dual-Conversion Superhet Receiver
- Communicate With Any CB Rig




Conventional Transmit
Typical instantaneous modulation pattern

'Side-Bander' Transmit
Note increase in side-band (voice) power

Here is new power, new performance never before available in any CB Transceiver. New Double Sideband Transmitter gives up to 4 times the normal operating range of most units. Even under the most difficult broadcast conditions the Olson "Side-Bander" delivers maximum power within FCC Regulations. Receiver has ½ microvolt sensitivity for 10 DB signal-to-noise ratio, and excellent selectivity, image and IF rejection figures. Space age technology has brought about an advanced new concept in frequency control. A frequency synthesizer provides full crystal-controlled transmitter and receiver operations on all 23 CB channels—no extra crystals to buy! Delta tuning circuit brings in off-frequency stations. Transmitter section has 10 watt P.E.P. modulation capability and pi-network output to match 50-75 ohms. Two tube push-pull modulation provides 100% modulation at all times. Dual panel meters provide a constant check on transceiver operation. Meters read strength of receiving and transmitting signal plus voltage and current to final tube. Red light comes on during transmit. A few of the other outstanding features are: adjustable squelch control, automatic noise limiter and crystal filter. Size: 6½" x 11½" x 9⅝". With universal power supply, push-to-talk ceramic mike with coil cord and all transmit and receive crystals for 23 channel operation. 110-125 Volts AC, 60 CPS and 12 Volts DC. Shipping weight 15 lbs.

Bernie TV Serv., 38 E. Broadway, Little Falls, Minn., wins choice of merchandise worth $5 from Olson's "Treasure Hunt". See back cover for instructions.



BUILT-IN CRYSTAL FILTER assures ultimate receiver selectivity

| | |
|---|---|
| Mobile Mounting Bracket, No. HW-46 | $2.95 |
| 12 Volt D. C. Power Cable, No. W-460 | $3.98 |

**Double Side-Band Power Gives Up To 4 Times More Range**

## Regency Range Gain CB Transceiver



No. RA-587
**$269.95**
$15 MONTHLY




Conventional Transmit
Typical instantaneous modulation pattern

"Range Gain" Transmit
Note increase in sideband (voice) power

Double Side-Band Power Gives Up To 4 Times More Range
- 10 Watt P.E.P.
- Exclusive Double Side-Band Reduced Carrier
- Dual-Conversion Superhet Receiver
- 2-Scale, 4-Function Illuminated Panel Meter
- Universal Power Supply, 115 V/AC 12 VDC
- 2 - Tube Push-Pull Modulation

## COMPLETE CB MOBILE STATION

**HERE'S WHAT YOU GET:**

| | |
|---|---|
| 1—"SIDE BANDER" CB Transceiver, No. RA-590 | $199.98 |
| 1—Phantom Antenna, No. AA-106 | 5.97 |
| 1—Mobile Mounting Bracket, No. HW-46 | 2.95 |
| 1—12 Volt D. C. Power Cable, No. W-460 | 3.98 |
| Total Regular Catalog Price | $212.88 |

No. AS-829
YOU PAY ONLY . . . . . **$206**

## COMPLETE CB BASE STATION

**HERE'S WHAT YOU GET:**

| | |
|---|---|
| 1—"SIDE-BANDER" CB Transceiver, No. RA-590 | $199.98 |
| 1—A.S. M-81 Base Antenna, No. AA-90 | 24.87 |
| 1—100 Ft. RG8-U Coax Cable, No. W-431 | 10.99 |
| 2—Connector Plugs, No. X-852 | 2 for 1.00 |
| Total Regular Catalog Price | $236.84 |

No. AS-830
YOU PAY ONLY . . . . . **$224**

WRH

# Olson Dual Track Monophonic TAPE RECORDER

★ 3-5-7 Inch Reels
★ Two Speed 3¾ and 7½ Inches Per Second
★ Magic Eye Level Indicator
★ Frequency Response 40-12,000 CPS

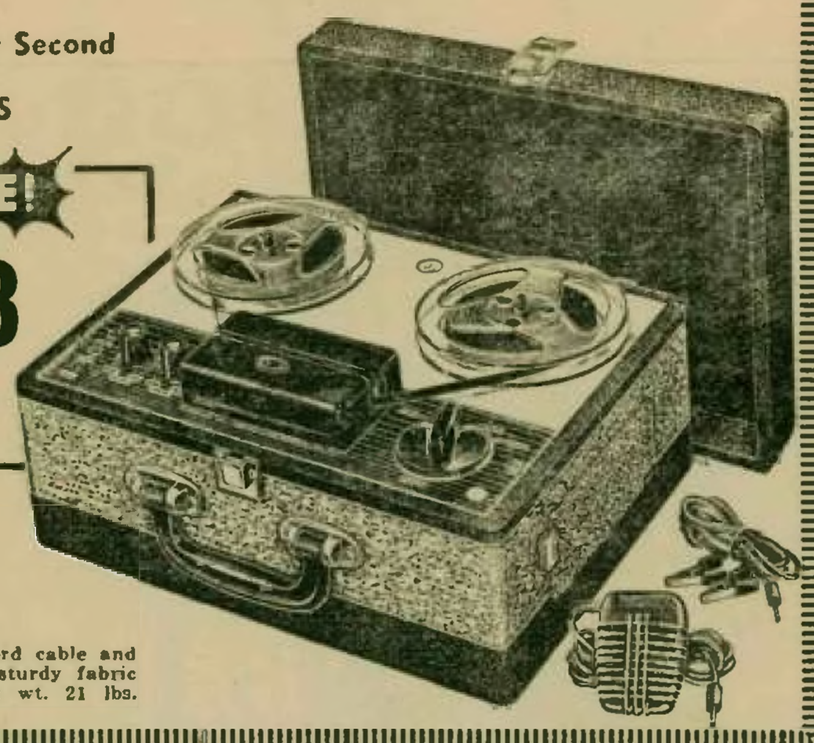
**OLSON LOW PRICE!**

No. AM-191

**$52.88** ★

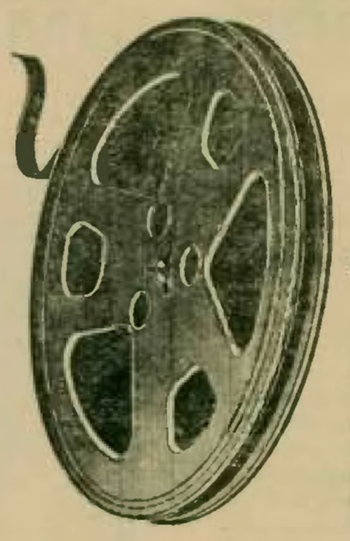
2 for $100

$7 MONTHLY



An exceptional buy in a fine quality Monophonic tape recorder. Play back recorded tapes or make your own from mike, radio, or other source. Separate tone and volume controls, mike input, radio input and external speaker output. Record interlock built in to prevent accidental erasure of valuable tapes. High speed rewind, positive capstan change for tape speed control. Mike, radio record cable and empty reel included. 110-125 volts A. C. Beautiful sturdy fabric covered portable case. Size: 13½"x10"x7". Shipping wt. 21 lbs.

# NAME BRAND 1800 Ft. Mylar RECORDING TAPE



**$1.29** Ea. Lots of 10

No. TA-110

Lots of 3, Ea. . . $1.39

Single Each . . $1.49

Lots of 100, Ea. $1.19

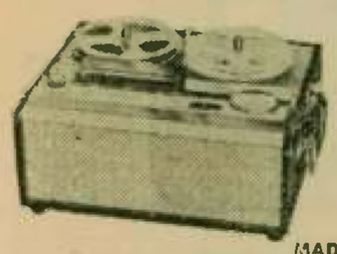
★*Made by a Leading U.S. Manufacturer*

Stock up now and save on this highest quality, name brand recording tape. Sorry, we can not disclose the manufacturer's name. A uniform coating of sensitive oxide bonded to a tough mylar base. 1800 ft. on a standard 7" reel. High signal to noise ratio, low distortion and uniform outp Standard ¼" width for all recorders. Individually boxed. Shipping weight 1 lb.

MFG. BY GENERAL MAGNETIC AND ELECTRONICS, INC.

# Gemark TAPE RECORDERS

## DUAL TRACK
Model 102



★ SPEEDS: 3¾-7½ IPS ★

MADE IN U.S.A.

**$55** No. RA-575
$7 Monthly
Mfr's. 1962 List $99.95

The 5-watt amplifier and big 8" x 4" PM speaker deliver flawless sound throughout the full frequency range. Features single-lever record/play control and push-button speed changer. Built-in interlock prevents accidental erasure of recorded tapes. Fast wind/rewind control rewinds full reel of tape in less than a minute. Speeds: 3¾-7½ IPS. Uses standard 5" reels. Complete with highly sensitive crystal microphone, one-hour reel of tape and take-up reel. 110-125 volts AC, 60 cycle. Shipping weight 18 lbs.

## 4-TRACK
Model 107



★ Two Speeds, 3¾ & 7½ IPS ★

MADE IN U.S.A.

**$69** No. RA-576
$7 Monthly
Mfr's. 1962 List $109.95

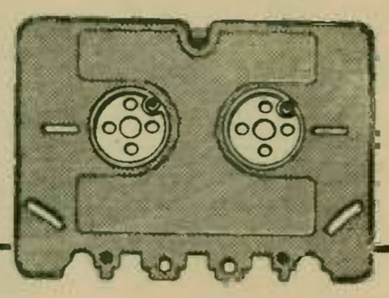
Features single lever record/play control and push-button speed changer plus high fidelity 8' x 4" PM speaker. Frequency response: 100-12,000 CPS at 7½ IPS. Signal to noise: better than 42 db. Wow and Flutter: less than .25%. With ¼ track record and playback head. Records up to 8 hrs. on 2400' tape. Inputs for mike and radio. Recorder has fast forward and fast rewind. Built-in interlock prevents accidental erasure. Complete with crystal mike, reel of tape and empty reel. For 110-125 volt AC, 60 cps. Shipping weight 21 lbs.

**GEMARK 101 TAPE RECORDER** ★ Mfr's. 1962 LIST, $99.95

Same as model 102 except this unit operates on 110 volts AC 50 or 60 cycles or 220 volts AC 50 or 60 cycles. Easy changeover. Ideal for travelers. Shipping weight 18 lbs.

**$59** NO. RA-574

# Olson TAPE Cartridge KIT



No. TA-48 (Less Tape)

**$1** PER KIT . . .

4 KITS plus 2400 FT. MYLAR TAPE — No. AS-734 — $5.91

Shpg. wt. 3 lbs.

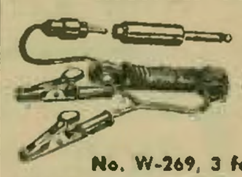
NOW! Assemble your own tape cartridge in minutes—and save. All mechanical parts and materials to make a standard tape cartridge. Cartridge fits all standard cartridge recorders such as Viking, RCA, Bell and others. Complete with easy to follow instructions. Shipping weight ¼ lb.

### BLANK TAPE CARTRIDGE
★ Loaded—Ready to Use

The new modern, pre-loaded tape cartridge. No threading. Just drop cartridge in place and you are ready to record or playback. Cartridges are tangle free and failure proof. All are loaded with at least 200 ft. of 1 mil mylar tape. Slightly used. Shipping weight ¼ lb.

No. TA-76, Reg. $2.20 ..... $1.66

### Recorder PATCH CORD



Record from Radio, TV or Phono. With pin plug, adapter & 2 clips 6' long. Shipping weight ½ lb.

No. W-269, 3 for 2.00 ..... Ea. 69c

### Flat Telephone Pickup



Place under phone to hear both sides of telephone conversation. Connects to magnetic input of any amplifier or tape recorder. Size: 3½"x1½"x¼". Shipping weight ¼ lb.

No. M-143 ..... Ea. 1.79

# Olson RECORDING TAPE

MADE IN U.S.A.

Made by one of the leading Tape Manufacturers, individually boxed. For use in all tape recorders. Each is on a 7" reel and may have splices. Shipping weight ¾ lb.



**OLSON LOW PRICE!**

2400 Ft. MYLAR

No. X-740

**$2.99** EACH

$3.49 IN 563 CAT.

Lots of 96 or more, ea. $2.50

1200 Ft. Acetate No. X-673 ..... EACH 99c

1800 Ft. ACETATE No. X-670

Lots of 3 to 95, Ea. $1.33
Lots of 96 or more, Ea. $1.25
EACH $1.73

1800 Ft. Mylar No. TA-4

Lots of 3 to 95, Ea. $1.47
Lots of 96 or more, Ea. $1.38
$1.99

### AMERICAN Triple Length Recording Tape



No. TA-109
**$7.29**
12 or more Ea. $6.57

★ A Full Day of Recording Time at 1⅞ IPS
★ 3600 Feet

Extra-play, extra-strength 3600' of Tensilized mylar base recording tape on standard 7" reel. Gives three times the playing time of standard 1½ mil tape. Super strong tensilized mylar prevents breakage, lasts extra long. Shipping weight ¾ lb.

# 750 Ft. Recording Tape



★ 3 Mailing Boxes
★ 3—3" Reels of Tape

No. TA-107 ALL 3 FOR **$1.19**

Three reels of high quality, 1 mil, acetate recording tape. Each in its own mailing box. Ideal for tape letters or dictation. Standard 3" reel fits most miniature and battery operated recorders. Ship. wt. ½ lb.

# Shield RECORDING TAPE

MADE IN U.S.A.

Finest mirror polished red oxide bonded to strong base. Response 50-16,000 cps. High Signal to noise ratio, low distortion and uniform output. Standard ¼" width for all recorders. Boxed. Shipping weight ¾ lb.



| Stock No. | Backing | Footage | Reel Size | 1 - 5 | 6-11 | 12-95 | 96 or more |
|---|---|---|---|---|---|---|---|
| X-249 | Acetate | 1200 Ft. | 7" | $1.99 Ea. | $1.69 Ea. | $1.49 Ea. | $1.30 Ea. |
| X-583 | Acetate | 1800 Ft. | 7" | 2.69 Ea. | 2.39 Ea. | 2.25 Ea. | 1.85 Ea. |
| TA-15 | Mylar | 1800 Ft. | 7" | 3.49 Ea. | 3.19 Ea. | 2.99 Ea. | 2.49 Ea. |
| X-692 | Mylar | 2400 Ft. | 7" | 3.99 Ea. | 3.79 Ea. | 3.69 Ea. | 3.00 Ea. |

# SCOTCH Recording TAPE

Scotch 120

No. 120 HIGH OUTPUT—Replaces 111A at no additional cost. Gives higher signal, less noise
No. 190 EXTRA PLAY—Gives 50% more recording time from standard reel, 1 mil plastic base
No. 150 EXTRA PLAY—1800', super-sensitive, high potency oxide on polyester mylar backing

### SAVE—ORDER BY THE DOZEN

| Stock No. | Mfg. Type | Size | Diam. | Lots of 1 - 11 ea. | Lots of 12 or more |
|---|---|---|---|---|---|
| TA-13 | 120-6 | 600' | 5" | $1.47 | $1.32 |
| TA-14 | 120-12 | 1200' | 7" | 2.29 | 2.06 |
| X-468 | 190-18 | 1800' | 7" | 3.60 | 3.23 |
| X-707 | 150-18 | 1800' | 7" | 4.05 | 3.65 |

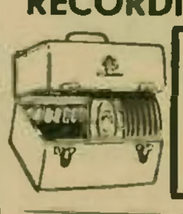
### TAPE SPLICER KIT



Includes instructions, plastic container, splicer, cutting blade and supply of splicing tape tabs. Shipping weight ¼ lb.

No. AM-23, 3 for $4.00 ..... Ea. 1.49

### RECORDING TAPE CHEST



No. X-547 **$2.99**

Holds 12-7" reels or cans. All steel, grey enamel. Double safety catch, folding handle. Shpg wt. 4¾ lbs.

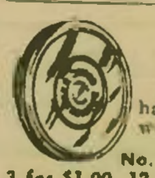
### Telephone Pickup



Record or amplify both sides of a telephone conversation. No connection to telephone necessary. Has 6 ft. shielded lead 5/8" dia. x 2". Shipping weight ¼ lb.

No. M-133, 3 for $5.50 ..... Ea. 1.89

### 7" Tape Storage Can
Made in U.S.A.



Steel construction blue hammertone enamel. Shipping weight ½ lb.

No. X-546
3 for $1.00, 12 lot ea 30c ..... Ea 39c

### DICTAPE



Ideal for all miniature and battery operated tape recorders and dictating machines, except those using a custom reel. Packed in self mailer cartons. Shipping weight ¼ lb.

| Stk. No. | Backing | Ft. | Reel Size | Lots of 1 - 9 | Lots of 10 or more |
|---|---|---|---|---|---|
| TA-10 | Dupont Mylar | 225 | 3" | 63c Ea. | 55c Ea. |
| TA-18 | Mylar | 300' | 3" | 69c Ea. | 64c Ea. |
| TA-49 | Mylar | 600' | 3¼" | 1.35 Ea. | 1.20 Ea. |

### Tape Head Demagnetizer



Just connect to 110 volts 60 cps and pass over tape heads. Removes head magnetism and protects tapes from partial erasures or noise insertions. Shipping weight ½ lb.

No. RP-143, 3 for $8.58 ..... Ea. 2.89

# BARGAINS!



Empty Plastic REELS

No. AS-614
**99c**
4 For $3.50

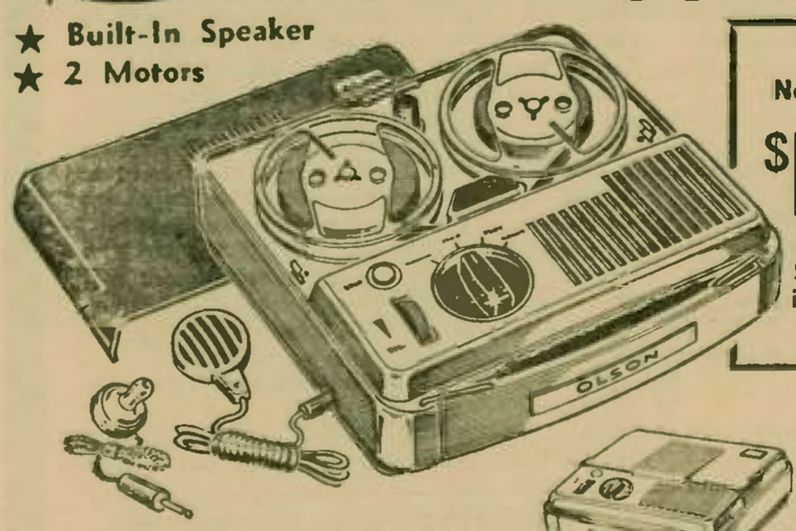
3" REELS
★ Kit of 5
Fits all miniature and standard tape recorders.

MORE REEL BARGAINS!

| Stock No. | Size Reel | Lots of 1 - 9 | Lots of 10 - 99 | 100 or MORE |
|---|---|---|---|---|
| X-250 | 5" | 29c Ea. | 25c Ea. | 20c Ea. |
| X-251 | 7" | 45c Ea. | 35c Ea. | 25c Ea. |

# Olson Portable TAPE RECORDER

★ Built-In Speaker
★ 2 Motors



No. RA-498
**$19.61**
$24.88 in in 563 Cat.

★IDEAL FOR VOICE LETTERS

- Home
- Office
- School
- Car
- Beach
- Camp

Compact portable tape recorder. Operates on standard batteries. Can be used anywhere. Ideal for travelers, students, businessmen, etc. Uses standard 3" tape reels. Erase operates automatically during record cycle. Operates at 3¾ IPS. 4 transistors and a diode deliver maximum volume on record and playback. Frequency response 200-6000 cps. Microphone take-up reel and 3" reel of tape are all included at this low, low Olson price. Attractive styrene case with rugged handle. Batteries included. Built-in PM speaker. Size: 2½" x 7½" x 7". Shipping weight 6 lbs.

Edw. Jedlicka, 669 3rd St. E. Box 685, Dickinson, N. Dak., wins choice of merchandise worth $5 from Olson's "Treasure Hunt". See back cover for instructions.

6 Extra Batteries,
BA-67 (6 req'd.) 8 for 59c ..... BA-41 (3 req'd) ..... 13c ea.
3" Ree of Tape, No. TA-18 ..... 69c

### Olson Bulk Tape ERASER
★For 3", 5", 7" or 10½" Reels



**$18.95** No. TA-7
3 for $55.00

Will erase any magnetic recording tape from ¼" to 1" width. Just place the reel on spindle of the demagnetizer, slowly rotate 2 or 3 turns and tape is completely erased. Housed in rugged case with Power Switch, Fuse, Pilot Light, Spindle and A.C. cord. For 110-125 volts A.C. Size:

### Olson TAPE ERASER
★ Erases reel of tape instantly



**$11.91** No. TA-8
3 for $35.00

Quickly and efficiently erases your recording tape to provide better, noise free recordings. Lowers signal-to-noise ratio and erases tape fully, without having to rewind on tape recorder. Can also demagnetize record and playback heads. For 110-125 volts A. C. Shipping weight 6 lbs.

# COLUMBIA RECORDS
Productions

**5** 33⅓ LP 12" STEREO **RECORDS**



No. RP-238
**$7.50**
$9.95 in 1963 Cat.

★58 HIT SONGS From Broadway Hits
*INCLUDES:*

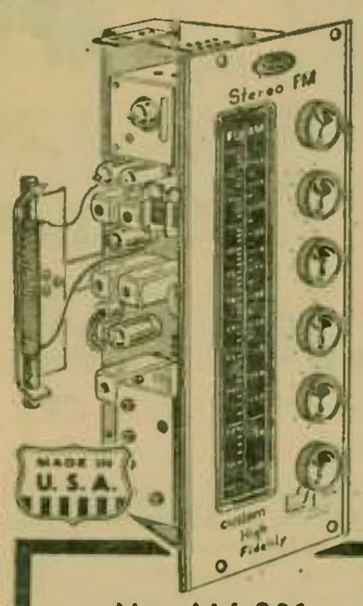
POPULAR ARTISTS SUCH AS: THE DAVE BRUBECK QUARTET, RAY CONNIF AND HIS ORCH., THE NORMAN LUBOFF CHOIR, FRANK DEVOL AND HIS ORCH., RICHARD MALTBY, PAUL WESTON AND HIS ORCH., THE ANDRE PREVIN TRIO, ANDRE KOSTELANETZ, VIC DAMONE, PERCY FAITH AND HIS ORCH., LEHMAN ENGEL AND HIS ORCH., THE NEAL HEFTI QUARTET, HI-LO'S WITH WARREN BARKER AND HIS ORCH., TONY BENNETT, RAY ELLIS, THE FOUR LADS, HARRY RESSER AND HIS ORCH., DICK CARY AND THE DIXIELAND DOODLERS, LUTHER HENDERSON, THE KIRBY STONE QUARTET, THE HI-LO'S, PAUL TAUBMAN AND HIS TRIO, LES BROWN AND HIS BAND OF RENOWN, DINO MARTINELLI. SHIPPING WEIGHT 4 POUNDS.

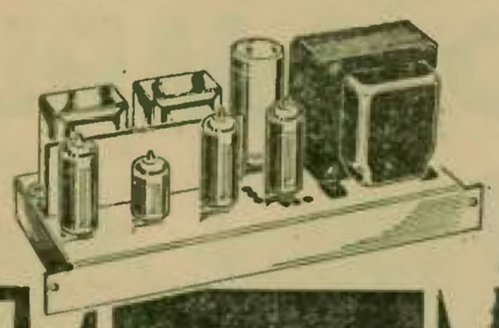
WRH

Olson

## 20 WATT FM-AM STEREO TUNER-AMPLIFIER

★ WITH BUILT-IN MULTIPLEX (FM STEREO)
★ SEPARATE TUNER AMPLIFIER CHASSIS
★ AFC (AUTOMATIC FREQUENCY CONTROL)



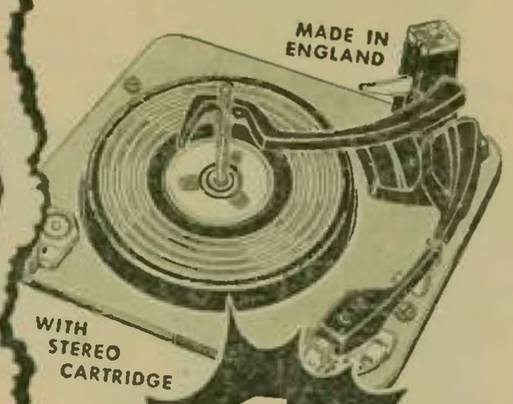



No. AM-201
BOTH UNITS ONLY
**$99.95**
$10 MONTHLY
NO MONEY DOWN

ALL 3 UNITS
**$99.96**
No. AS-820

A sensitive carefully designed Stereo Tuner Amplifier combination on two chassis, with wide bandwidth necessary for FM Stereo Multiplex operation. Ideal for modernizing old Hi-Fi systems or for custom installations. Limiter plus ratio detector for increased noise elimination. Two matched crystal diodes for hum free detection, plus one crystal diode for AFC (defeatable). Six controls for complete Stereophonic and Monophonic flexibility: Loudness, Bass, Treble, Function, Balance, and Tuning. Power Amplifier is a four tube dual channel 20 Watt output (10 w. per channel) with frequency response of 40-20,000 cps. Fifteen DB of feedback keeps distortion at a minimum. Hum and noise are kept at a minimum. Size: Tuner, 14½ x 6½ x 8" AMP. 16½ x 3½ x 5". Shipping wt. 22 lbs.

BSR
## STEREO CHANGER

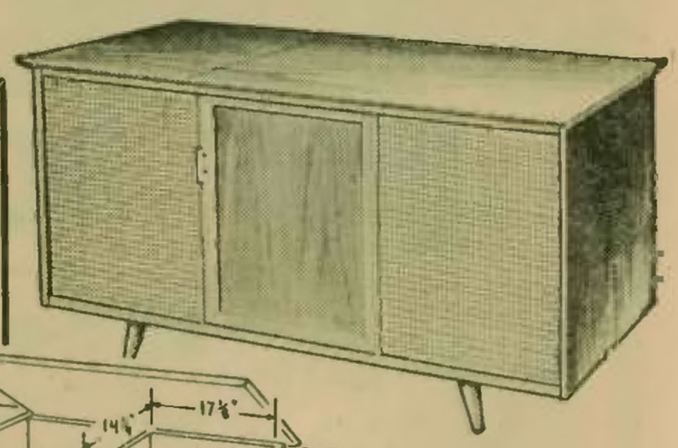


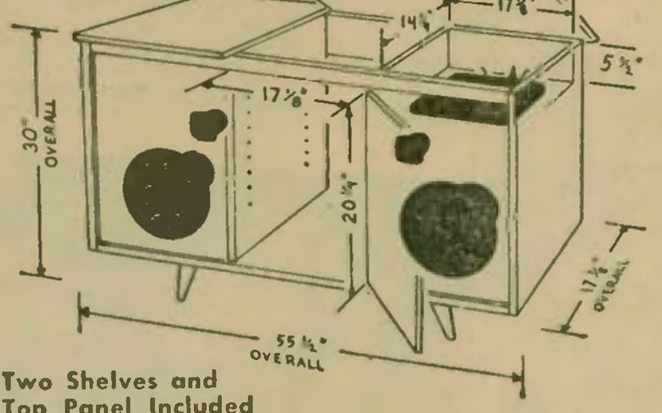

**1¢**
WITH PURCHASE OF AM-201 AT LEFT
See No RP 222 B low

## Stereo-High Fidelity CONSOLE CABINET

★ Oiled Walnut Finish
★ Fits Any Decor

**$99**
NO MONEY DOWN
ONLY $10 MONTHLY
No. CA-275






Two Shelves and Top Panel Included

### ONLY Cabinet Which Will House ANY Stereo System

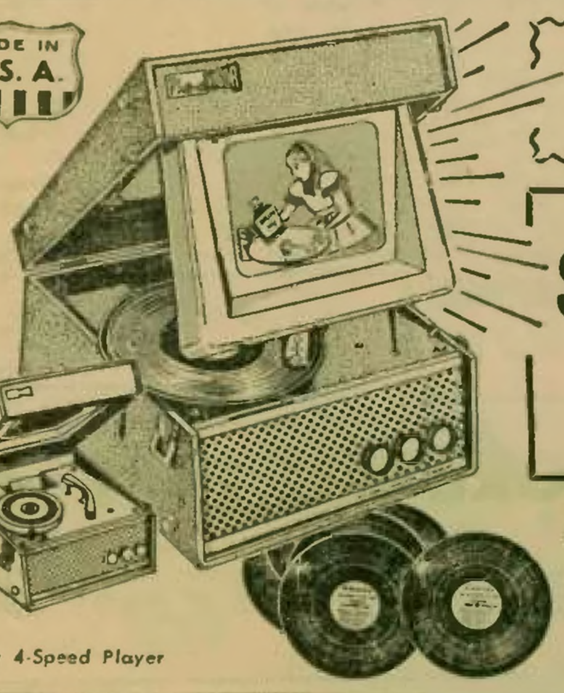
The problem of housing ALL your stereo equipment (regardless of make or origin) in a single console cabinet has now been solved by OLSON! This includes YOUR stereo system!

Two pre-finished shelves, each fully adjustable, are provided for tuner and amplifier placement within this center compartment. Also, two panel boards are included—one for the top center section (under hinged lid) if you wish to hang your equipment down with the controls horizontal facing up. (This board can be used to mount your tape deck instead if you desire). The other board is for mounting control panels when custom installing your equipment in the front center section. The remaining area below is for record or tape storage. The entire center compartment is easily accessible from the front with a hinged door.

The record changer mounting board is easily removed and can be cut to fit your particular changer. The area above changer board is 6" and the area below top of mounting board is 3". The changer compartment is designed to accept any changer.

Elegant hardwood walnut veneer finish, contrasting cane grille cloth. Shipped by truck or express from Batavia, N. Y. Shipping weight 125 lbs.

MADE IN U.S.A.

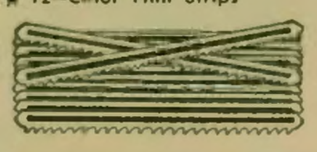


Quality 4-Speed Player

A LIBRARY OF KNOWLEDGE AND ENJOYMENT

No. RP-249
**$26.91**
Designed & Built To Sell for $69.95

★ 6—12" LP Records
★ 12—Color Film Strips



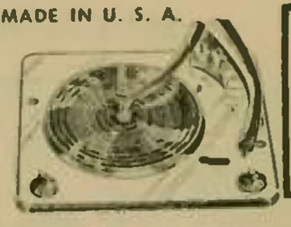
*LIVING COLOR*
## PHONO-VISOR

★ Synchronized Sound and Picture
★ 12 Great Stories
★ 6 Famous Artists
★ 4 Speed Hi-Fi Phono

Give your child this headstart to future success now! A complete hi-fidelity, 4 speed phono with turnover cartridge plus 6-12" LP records and 12 color film strips. Each record has two complete stories as narrated by such famous artists as Ralph Bellamy, Arlene Francis, Claude Rains, Sir Cedric Hardwick, Ed Begley and Douglas Edwards. Just put on the record, insert the film carrier and snap on the switch. Nothing more to do but watch and listen as the large full color pictures come to life on the screen and change automatically. Phono-Visor is portable — rugged carrying case is covered with attractive leatherette material. Size: 15½" x 16" x 9". For 110-125 volts AC, 60 cps. Shipping weight 15 lbs.

## VM Stereo CHANGER

MADE IN U. S. A.



No. RP-176
**$24.95**
3 for $69

Famous VM four-speed record changer with stereo cartridge. Plays manually or automatically and shuts off after last record has played. Heavy duty motor drives large, rubber matted, weighted turntable. Plays all 7", 10" and 12" records at all four speeds. (16⅔, 33⅓, 45 and 78 RPM). Size: 11⅞" x 13½". For 110-125 volts A.C., 60 CPS. Shipping weight 13 lbs.

★ ACCESSORIES ★

| | |
|---|---|
| Diamond Needle, No. N-122 | $1.69 |
| Mounting Base, No. CA-65 | 4.88 |
| 45 RPM Spindle, No. RP-106 | 2.99 |
| Line Cord, No. W-43 | .29 |
| Phono Cord, No. W-321 | .65 |

## BSR Stereo CHANGER

Model UA-14



MADE IN ENGLAND

No. RP-222
**$19.95**
3 for $59

Plays stereo and monaural discs any size up to 12" in diameter, automatically. 4 speeds. Rubber padded, weighted turntable is driven by oversize induction motor. Has turnover hi-fi crystal stereo cartridge with dual sapphire stylii. Handsome tan finish. Size: 13¼" x 11¼". Height above: 6½" x 2½" below. Operates on 110-125 volts AC 60 cps. Shipping weight 12 lbs.

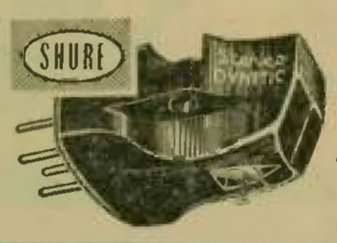
★ ACCESSORIES ★

| | |
|---|---|
| 45 RPM Spindle, No. RP-7 | $2.37 |
| Mounting Base, No. CA-212 (Pg. 11) | 4.88 |
| Line Cord, No. W-43 | .29 |
| Phono Cord, No. W-321 | .65 |

## Garrard STEREO Record Changers

GARRARD STEREO CHANGER & CARTRIDGE
## COMBINATION DEALS!

YOUR CHOICE **1¢** EXTRA With Purchase of Any GARRARD Changer Below




SHURE M3D
Professional Stereo
CARTRIDGE
No. PC-95
Available Separately
**$15.88**
Description Page 13



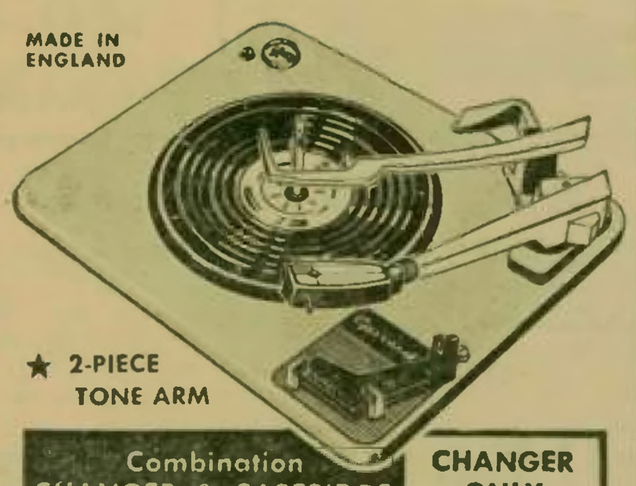
AUDIO EMPIRE 880
STEREO CARTRIDGE
No. PC-102 Available Separately $17.95
Description Page 13



PICKERING U38/AT
STEREO CARTRIDGE
No. PC-96 Available Separately $16.88

## Garrard AUTOSLIM/P MARK II

MADE IN ENGLAND



★ 2-PIECE TONE ARM

Combination CHANGER & CARTRIDGE
**$39.51** ★ No AS-651

CHANGER ONLY
**$39.50**
No. RP-224

Versatile: This automatic-manual intermix changer has numerous new features: New, two piece tone arm, specially designed 4 pole motor. Separate manual and automatic controls. Changer designed to give you perfect torque, balance and quiet running. Compact clean simple design in grey with white trim. Plays all sizes and speeds, stereo or monaural. Size 14½" x 12½" x 2⅝" below mtg. board, 4⅛" above mtg. board. 110-125 volts A. C. 60 CPS. Shipping weight 12 lbs.

★ ACCESSORIES ★

| | |
|---|---|
| 45 RPM Spindle, No. RP-228 | $3.80 |
| Mounting Base, No. CA-151 (Pg. 13) | $4.88 |

Jim Bain, Office & Parts Shop, 560 Columbia St., Vancouver, Wash., wins choice of merchandise worth $5 from Olson's "Treasure Hunt". See instructions back cover.

## Garrard AT6

MADE IN ENGLAND



NO MONEY DOWN
**$6** MONTHLY

No. AS-695 Combination Changer & Cartridge ..... $54.51
No. RP-225 Changer Only ..... $54.50

Moderately priced automatic turntable for those who want the professional features of a turntable with the convenience of a changer. Plays all sizes and speeds, stereo or monaural. Oversize turntable assures a smooth, silent, accurate operation. Dynamically counterbalanced adjustable tubular tone arm. Quiet 4 pole shaded motor. Size: 14½"x12½": 4⅛" above mounting board, 2⅝" below, 1½" required at rear and arm side of base for counter weight. 110-125 volts AC, 60 cps. Shipping weight 14 lbs.

★ ACCESSORIES ★

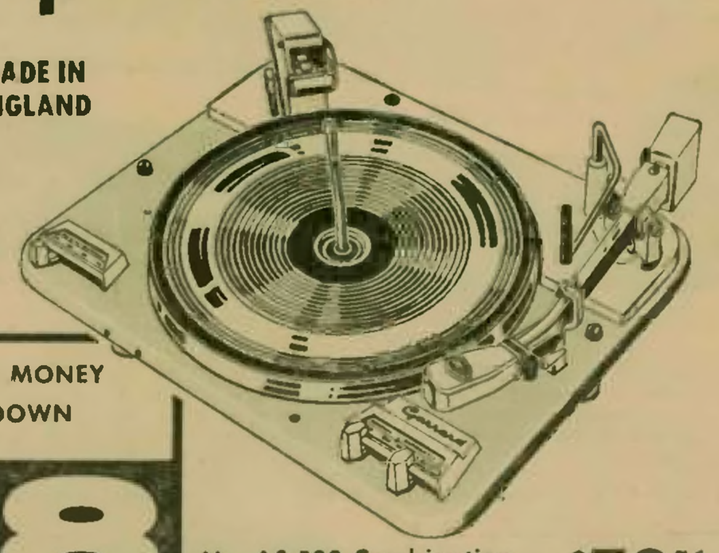
| | |
|---|---|
| 45 RPM Spindle, No. RP-235 | $3.80 |
| Mounting Base, No. CA-151 (Page 13) | $4.88 |

SHURE Model M99/AT6 "Gard-A-Matic" STEREO CARTRIDGE
★ Diamond Stylus
★ Factory Wired
No. PC-104 **$49.50**

Garrard-Shure COMBINATION DEAL
Garrard Type AT6 Changer (Above)
Shure M99/AT6 Cartridge (Left)
Shpg. Wt. 12½ lbs.
BOTH FOR **$64.50**
$7 MON. No. AS-786

## Garrard TYPE "A"

MADE IN ENGLAND



NO MONEY DOWN
**$8** MONTHLY

No. AS-532 Combination Changer & Cartridge ..... $79.51
No. RP-202 Changer Only ..... $79.50

Garrard's finest changer, a full size, two piece professional turntable, with unique foam disc for damping noise & vibration. Exclusive pusher-type mechanism. Simple one knob leveling device, laboratory-balanced motor for low rumble. Dynamically balanced tone arm. Plays all 4 speeds, 7—10—12" records monaural or stereo. Size: 16" x 13⅛" x 2⅝" below mtg board, 6" above mtg. board. 110-125 volts AC, 60 cps. Shipping weight 23 lbs.

★ ACCESSORIES ★

| | |
|---|---|
| Extra Plug-In-Head, No. RP-204 | $ 1.50 |
| 45 RPM Spindle, No. RP-41 | $ 3.80 |
| Mounting Base, No. CA-40 (Pg. 13) | $4.88 |

SHURE Model M99/A "Gard-A-Matic" STEREO CARTRIDGE
★ Diamond Stylus
★ Factory Wired
No. PC-103 **$49.50**

Garrard-Shure COMBINATION DEAL
Garrard Type "A" Changer (Above)
Shure M99/A Cartridge (Left)
Shpg. wt. 23½ lbs.
BOTH FOR **$89.50**
$9 MON. No. AS-785

# GIGANTIC AMPLIFIER and TUNER SALE

## Olson 30 WATT STEREO AMPLIFIER

★ Response 30-25,000 CPS
★ 15 Watts Per Channel




No. AM-214
WAS $69.95
NOW
$54.99
$7 MONTHLY
NO MONEY DOWN



CONVENIENT STEREO HEADPHONE JACK

Stereo Headphones
ON PAGE 13

**SPECIFICATIONS:**

Output: 30 Watts, 15 Watts Per Channel
Frequency Resp.: ±0.5 db 30 to 25,000 CPS
Harmonic Distortion: Less than 1%
Output Impedance: 4, 8, and 16 ohms
Tape Output: High Impedance
Tube Complement: 2-12AX7, 4-68M8B, 1-6CA4
Power Supply: 110-125 Volts, 50/60 CPS
Dimensions: 13½" x 10⅛" x 4½"
Shipping Weight: 23 lbs.

Designed to offer the maximum in quality and flexibility. Priced at a fraction of what you would expect to pay for an amplifier of this quality. Metal cabinet is satin finished in gold and contrasting brown. Has convenient stereo headphone jack on front panel for connection of Olson, Koss or similar stereo headphones. The amplifier has built-in preamps to accommodate any magnetic phono cartridge. An ideal companion to the RA-524 FM stereo tuner at left. A tremendous value.

BUY BOTH SAVE $21.96

## Olson FM Stereo TUNER

BUILT-IN MULTIPLEX

SALE!



No. RA-524
Reg. $76.50
$69.50
$7 MONTHLY

**SPECIFICATIONS:**

Frequency Response: 20 20,000 CPS
Distortions: Less than 1% at 100 microvolts input
Quieting Sensitivity: 2 microvolts for 20 db quieting
Wide Band Radio Detector
Meter Tuning Indicator
Dual Limiters
Tube Line Up: 2-6AQ8/ECC85, 2-6BA6, 2-6AU6, 1-12AU7/ECC82, 1-12AX7/ECC83, 1-6X4 plus 4 diodes
Operates on: 110-125 Volts AC, 60 CPS
Size: 12¼" Wide x 8⅛" Deep x 4" High
Shipping Weight: 17 lbs.

★ With Tuning Meter

This brand new Olson FM stereo tuner features wide band separation for crystal clear FM or FM stereo reception. Tuning meter indicates proper tuning and AFC locks the stations in. Never before has a tuner of this quality been offered at a price so low. The handsome styling depicts the high quality workmanship throughout. Finished in a rich gold and brown. Styled to match any decor. An ideal companion to the stereo amplifiers above. Can be used with any stereo amplifier.

BUY BOTH SAVE $17

## 30 WATT STEREO AMPLIFIER

Response 30-25,000. 15 watts per channel. Has built-in preamplifiers to accommodate any phono cartridge. Completely wired and assembled ready to use.

No. AM-158
Reg. $59.95
$52.99



SALE

WITH STEREO ★ HEADPHONE JACK

## Olson 40 Watt STEREO AMPLIFIER

No. AM-215
Reg. $79.95
$7 MONTHLY
$69.95

★ SPECIFICATIONS ★

● Response: 20 to 30,000 CPS ± .5 DB. ● Power Output: 20 watts each channel (music) ● Harmonic Distortion: .5% @ 15 watts ● Controls: (6) Mode Selector, balance, treble, bass, volume, selector switch ● Inputs: Channel 1: Tape head, magnetic, tuner, Aux. 1, Aux. 2 Channel 2: Tape head, magnetic, tuner, Aux. 1, Aux. 2 ● Outputs: Channel One: 4, 8, 16 ohms, tape output Channel Two: 4, 8, 16 ohms, tape output ● Tube Lineup: 5-ECC-83/12AX7, 4—EL-84/6BQ5, 1—GZ-34/5AR4 ● Built-in hum balance control ● Three auxiliary A.C. outlets ● Speaker phasing switch (rear panel) ● Fused A.C. input (3 amperes) ● Power: 110-125 volts 60 CPS, A.C. ● Dimensions: 13⅞" W x 4½" H x 11⅝" D. ● Finish: Satin gold with black trim ● Shipping Weight: 29 lbs.

## Olson 15 Watt STEREO AMP




★ Stereo Headphone Jack
★ Response 20-20,000 CPS
★ Build-In Preamplifiers

No. AM-217
$34.98

This compact stereo amplifier really packs a punch. All the features—all the flexibility of the "BIG ONES" at a fraction of the price. Built in pre-amps to accommodate any magnetic cartridge. Output impedance 4, 8 and 16 ohms. Has standard 3 circuit jack for most stereo headphones. Handsomely styled, satin finished in gold and contrasting brown. With metal cabinet. SPECIFICATIONS: Output: 15 watts, 7.5 watts per channel. Frequency Response: 20-20,000 CPS. Power Supply: 110-125 volts, 50/60 CPS. Dimensions: 12⅜" x 3¼" x 8¼". Shipping weight 16 lbs.

Edward Perdue Jr., Bradford, Utah, wins choice of merchandise worth $5 from Olson's "Treasure Hunt". See instructions back cover.

## Imperial FM-AM Tuner

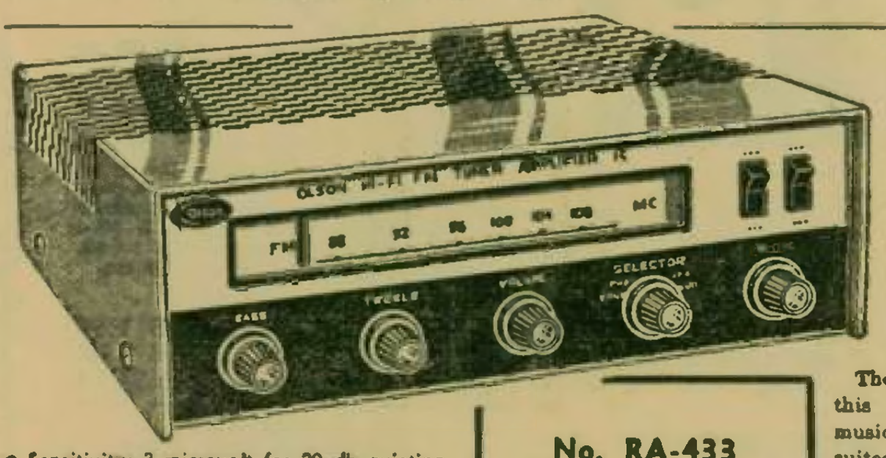



No. AM-64
$59.95
No Money Down
$7 MONTHLY

★ With Built-In Multiplex Jack

MADE IN U.S.A.

Handsome ebony finish cabinet with removable front escutcheon pla finished in lustrous gold. Flywheel tuning. Illuminated slide dial. E tremely sensitive with exceptional signal to noise ratio on both AM a FM. Has automatic frequency control that eliminates station drift. H automatic volume control to prevent overloading on strong signals. Minimum radiatio Built-in antenna for AM section. Auxiliary AC outlet on rear of chassis. Tube lineu 1—6U8, 1—6BE6, 2—6AU6, 1—12AT7, 1—12BA6, 1—6AL5. Size: 13" x 4⅛" x Operates on 110-125 volts AC, 60 cps. Can be used with any amplifier. Shpg. wt. 15 l




## Olson FM High Fidelity TUNER 15 Watt AMPLIFIER

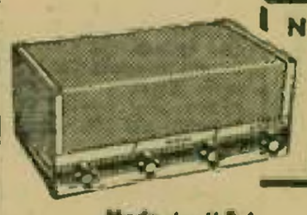
★ Provisions for Multiplex
★ Switchable A.F.C.

The flawless styling and brilliant performance makes this FM tuner-amplifier an ideal unit for any home music system. Olson FM tuner-amplifier is also ideally suited for background music in doctor or dentist's office and waiting rooms or can be used in factories or restaurants. The FM reception provides a constant source of ever changing high fidelity music. You can plug in your record changer or tape recorder to play your choice of music. The amplifier is equipped with input for ceramic cartridge and pre-amplified input for magnetic phono cartridges. Tuner has Multiplex jack for FM stereo reception. Add this to your present high fidelity system to convert to stereo. Shipping weight 18 lbs.

- Sensitivity: 3 microvolt for 20 db quieting
- A.F.C.: Reactance tube system
- INPUTS: Mag. 5MV., Tape Aux. 100 MV.
- OUTPUTS: 15 Watt Music Power
- RESP.: ± 1 db. 20-20,000 CPS at 1 Watt
- POWER SUPPLY: 110-125 V. AC, 60 CPS
- SIZE: 11⅞" W x 9⅛" D x 4⅝" H

No. RA-433
$69.95
$7 MONTHLY

## "Golden Classic" 17 Watt Monaural Amplifier



No. AM-159
$33.95
(Less Cover)

Made in U.S.A.

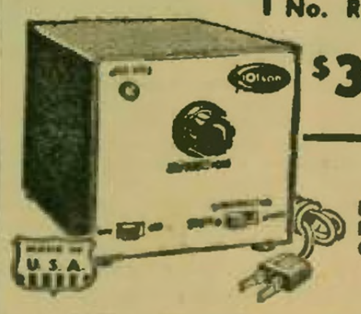
★ Response 20-20,000 CPS

8-position selector switch gives choice of 2 high-level inputs for tuner and auxiliary sound source plus three positions of equalization for either crystal or magnetic phono input. Full range separate bass, treble and volume control. Harmonic distortion less than 2%. Peak power output 22 watts. Tube lineup: 1—EZ81, 2—ECC-83, 2—EL-84. Size: 12½" L x 7" D x 5¼" H. For 110-125 volts A.C. 60 CPS. Shipping weight 15 lbs.

Cover for amplifier, No. CA-147 ___ $3.9
Shipping Weight 5 lbs.

## Deluxe FM STEREO Multiplex Adapter

No. RA-517
$34.99

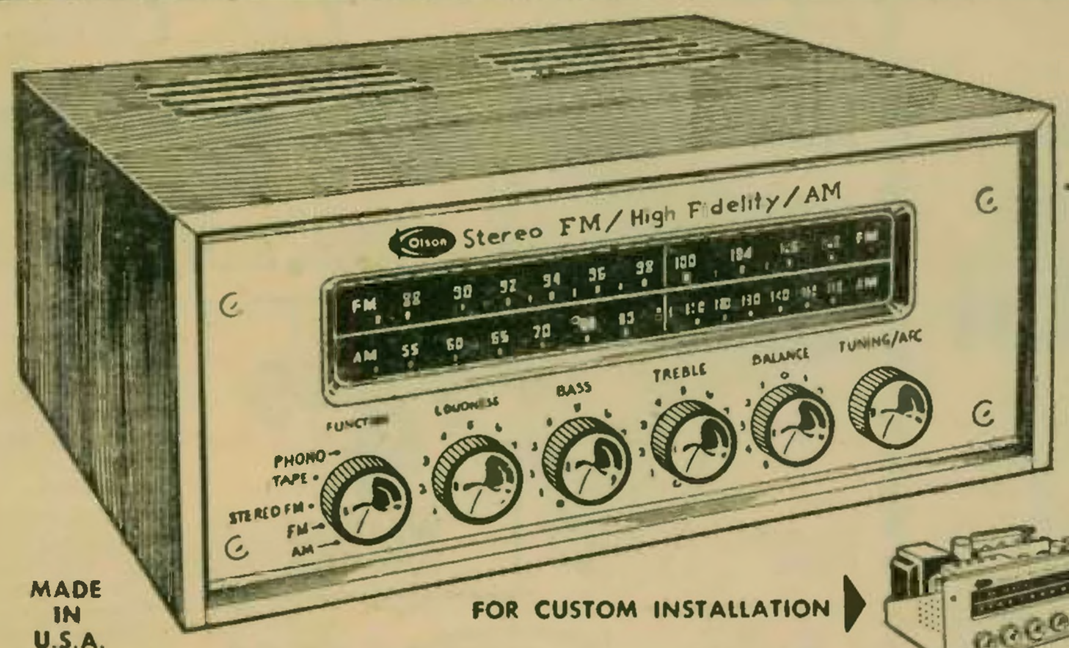



BUILT-FILTER CONTR

A deluxe, attractively packaged, st adapter with a frequency response of 15,000 cps and separation of 26 DB at cps. Just plug into any tuner that has multiplex jack and listen to FM stereo Hum and noise —60DB, has separati control, stereo and mono switch. 110-1 volts AC 60 cps. Make any tuner ster at this low price. Shipping weight 5 lbs.



Olson Electronics
AKRON, OHIO




MADE IN U.S.A.

FOR CUSTOM INSTALLATION



# Olson FM-AM-FM STEREO TUNER-AMPLIFIER

**NEW!**
**No. AM-230**
**$99.93**
**Less Cabinet**

★ FM-AM Stereo Multiplex Tuner
★ 20 Watt Power Amplifier
★ Built-In Preamplifier
★ Illuminated Slide Rule Dial

Olson breaks the price barrier. Compare the specifications . . . compare the quality . . . compare the design. Olson purchasing "know-how" keeps the price low. Twenty watts of stereo power combined with an FM-AM stereo tuner provides in one compact unit an unsurpassable control center. The perfect heart for even the finest stereophonic music system. Every needed feature has been included to give you the best from tape, records or radio. Employs the most advanced circuitry, including AFC for perfect drift-free FM reception. Specifications: Power: 20 watts (10 per channel). Response: 40-20,000 cps. Inverse feedback for minimum distortion. Built-in preamplifiers to accommodate any magnetic cartridge. Separate bass and treble controls, loudness and balance control. AFC defeat switch on tuning shaft. Size: 14½" x 5¼" x 10½" D. Shipping weight 20 lbs.

**OILED WALNUT CABINET for Tuner-Amplifier above, No. CA-277 ..... $15**




# FM STEREO TUNER/30 WATT STEREO AMPLIFIER

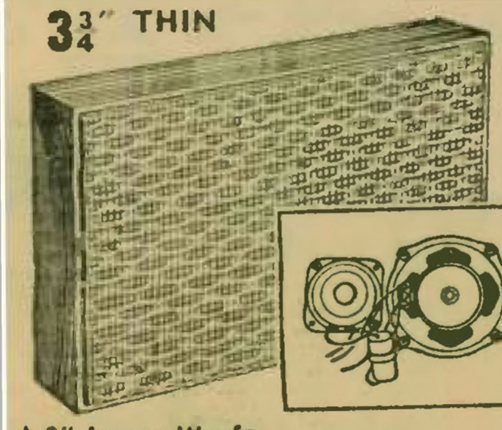
**No. RA-600**
**$149.99 ★**
**(Complete With Cover)**

★ Made In U.S.A.
★ BUILT-IN MULTIPLEX
★ MAGIC EYE TUNING INDICATOR

**Manufactured for Olson by PILOT**

Remarkably sensitive FM stereo tuner along with a 30-watt stereo amplifier that will drive any fine speaker system to full room level. A significant feature of the tuner is the stereo beacon that lights when you tune in a stereo station. The amplifier has two heavy duty output transformers and a rugged power transformer for long lasting dependable service. Separate bass and treble controls plus loudness switch give you the greatest possible flexibility. Tape monitor allows you to hear the signal you have recorded on tape a fraction of a second after it has been recorded. Mode switch permits playing any mono signal through both channels. An AC convenience outlet is located on the back of the amplifier to supply power to your record changer. Tuner sensitivity: 4 μv. Amplifier response: 10 to 30,000 cps, output impedance 8 and 16 ohms, output power 30 watts—15 per channel. Complete with vinyl covered metal cover and mounting instructions. Front panel is finished in brushed aluminum to contrast with any decor. Size: 5" high x 15⅝" wide x 10¾" deep. Shpg. wt. 24 lbs.

**3¾" THIN**



# JENSEN SPEAKERS IN OLSON 2-WAY SPEAKER SYSTEM



**No. S-477**
**$13.75**
**2 for $27**

★ 8" Jensen Woofer
★ 6-oz. Ceramic Magnet
★ 3½" Jensen Tweeter with Crossover

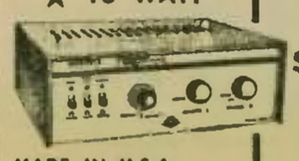



Two-way system, with full rich sound. Wall mounting puts it out of the way but at ideal listening level. Attractive mahogany grained fabric covered cabinet with cane type grill. Impedance 8 ohms, with screw terminals. Size: 18" x 12" x 4¾". Shipping weight 7 lbs.

**MERRELL**

# Stereo Amplifier Kit

★ 16 WATT



**No. KB-151**
**$29.95**
**Lots of 3, Ea. $29**
**(Less Cover)**

MADE IN U.S.A.

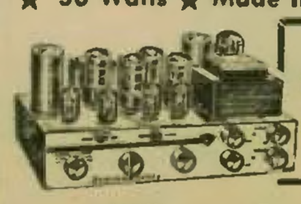
Complete with large, clear, step-by-step instructions. Power Output: 8 watts per channel. Peak Power Output: 16 watts each channel; 32 watts combined peak power. Frequency Response: 20 to 20,000 CPS. Inputs: 6 (3 pairs) mag. phono/tape, tuner, crystal phono. Output Impedance: 8 ohms. Tubes: 2—7025/ECC83/12AX7; 2—EL84/6BQ5; 1—5Y3 rectifier. Size: 12¼" wide x 8" deep x 4¼" high. 110-125 Volts AC, 50-60 CPS. With tubes and instructions. Shipping weight 13 lbs.

**COVER FOR AMPLIFIER**
**No. CA-268 ..... $4.95**

**MERRELL**

# Stereo Amplifier Kit

★ 30 Watts ★ Made In U.S.A.



**No. KB-84**
**$39.95**
**Ea. $39 Lots of 3,**

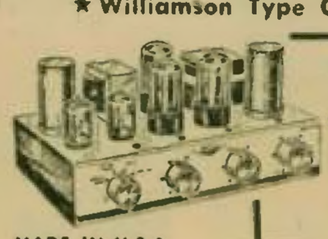
● Williamson Type Circuit
● 15 Watts Per Channel

Response 20 to 20,000 CPS. Separate bass and treble controls, balance blend control, dual ganged loudness control, and input selector control. Front panel stereo reverse and equalization switches. Inputs for magnetic phono, tape, crystal phono, tuner, and aux. Williamson design output transformers are taped at 4, 8, and 16 ohms. Tubes 2—12AX7, 2—12AT7, 4—7408, 1—5U4, Size: 14" W x 8" D x 6" H. For 110-125 volts A.C. 50-60 CPS. With tubes and instructions. Shpg. wt. 15 lbs.

**MERRELL**

# 12-Watt Amplifier Kit

★ Williamson Type Circuit



**No. KB-83**
**$19.66**
**Lots of 3, Ea. $19**

MADE IN U.S.A.

Response ± 1DB 20 to 20,000 CPS. 4 inputs: magnetic phono: tape: crystal phono; tuner/radio; mike/aux. Output impedances: 4, 8, and 16 ohms, special design Williamson type output transformers, 4 controls, function, loudness, bass, treble/power switch. 8 tubes: 1—12AX7/ECC83, 1—12AT7, 2—6V6 and Rectifier Tube. Size: 11" x 7". 110-125 volts A.C. 50-60 CPS. With tubes and instructions. Shipping weight 11 lbs.

**2 Sonora SPEAKER SYSTEM**



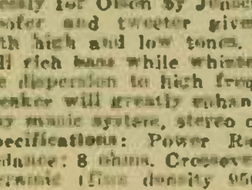
★ Oiled Walnut
★ 20-20,000 CPS
★ 15 Watts

**No. S-537**
**$17.98**
**2 for $34.00**

Completely assembled and ready to connect to any stereo or monaural amplifier. 2 speaker system with crossover, one 8" low frequency speaker and one 3½" hard cone tweeter. 8 ohm impedance. Handsome oiled walnut enclosure 15" x 9½" x 5½". Shipping weight 11 lbs.

**8" Sonora SPEAKER & CABINET**

● Oiled Walnut
● Volume Control
● Wire Included

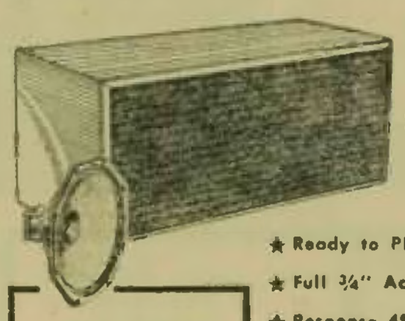


**No. S-539**
**$11.98**
**2 for $23.00**

Extension speaker for stereo or hi-fi. Built-in volume control permits adjustment of balance or volume without changing controls on main unit. Full range freq. resp. 10 watts 8 ohm. Size: 11¾" x 11¾" x 4½". Shipping weight 6 lbs.

K. H. Teffeteller, Rt. 5, Marysville, Tenn., wins choice of merchandise worth $5 from Olson's "Treasure Hunt". See back cover for instructions.

**NORELCO-OLSON "COMMANDO" Speaker & Enclosure**



★ Norelco 8" Speaker in Custom Enclosure
★ Ready to Play—No Finish Required
★ Full ¾" Acoustic Wood Construction
★ Response 45 to 19,000 CPS
★ Low Priced—Space Saving

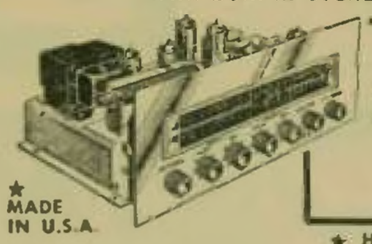
**No. S-449**
**$13**
**2 for $25**

Famous Norelco 8" speaker AD-3800 SS mounted and wired in a custom shelf size enclosure. Ready to connect and use. Size: 11¾" x 23¾" x 9¼". Although no finish is required, cabinet may be painted, waxed, varnished, etc. Impedance 8 ohms, 6 watts. Shipping weight 21 lbs.

Truman Rosenhoover, 1975 Cherry, Yuba City, Calif., wins choice of merchandise worth $5 from Olson's "Treasure Hunt." See back cover for instructions.

# FM-AM TUNER

with built-in STEREO AMPLIFIER



★ MADE IN U.S.A.

**No. RA-554**
**$59.96**
**was $63 in 663 cat.**

★ Heavy Duty Power Transformer

This outstanding FM-AM Custom Chassis is ideal for modernizing old radio-phono combinations or for custom, built-in stereo system. FM section features defeatable AFC and Foster plus ratio detector for noise free reception. Built-in antenna and crystal diode detection result in low noise and low distortion. On AM, 10 tubes plus 3 diodes give 13 tube performance. This Deluxe Custom Chassis features transformer operated power supply for extremely low hum. Amplifier has inverse feed-back to reduce distortion to the lowest possible level. Separate tone and volume controls for each channel add to the over-all flexibility of this fine chassis. 117 volt output for record changer. Complete with front panel—all knobs—ready to build in and play in. Operates on 110-125 V AC. Inputs for ceramic or crystal phono cartridge 60 CPS. Size: depth behind front panel 8½" x 13½" wide x 4¾" high. Output impedance 3.2 ohms. Shipping weight 16 lbs.

# JENSEN 12" Hi-Fi SPEAKER

Made for Olson by Jensen

● Response 40-15,000 CPS ● 20 Watt

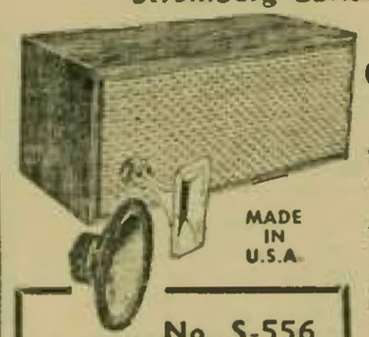



**$12.99** No. S-551
Was $17.95 in 563 Cat.

This excellent, full range speaker is made expressly for Olson by Jensen Mfg. Co. Integrated woofer and tweeter gives perfect balance of both high and low tones. Woofer cone radiates full rich bass while whizzer cone gives wide angle dispersion to high frequencies. This matched speaker will greatly enhance the performance of any music system, stereo or mono. Performance Specifications: Power Rating: 20 watts. Impedance: 8 ohms. Crossover: 2000 CPS. Magnet: Ceramic (flux density 9500). Shpg. wt. 7 lbs.

**Crossover Capacitor Kit, No. AS-552 ..... $1.30**

**Stromberg-Carlson — OLSON 2 Way COMPRESSION HORN Speaker System**




**No. S-556**
**$33**
**2 for $65**

★ Oiled Walnut Finish
★ Ready To Play
★ Response 50-18,000 cps

Features a genuine compression horn tweeter for smooth, transient-free high frequencies. Tweeter is 2" x 6" cast aluminum. The heavy duty STROMBERG-CARLSON woofer features "Barite" ceramic magnet and curvilinear cone for full rich bass. The cabinet is scientifically designed and beautifully finished to compliment both the speaker system and the decor of your home. Impedance: 8 ohms: Response: 50-18,000 cps. Size: 11¾" x 23¾" x 9¼". Shipping weight 22 lbs.




**No. S-529**
**$19.95**
**STEREO PAIR $34**

★ NATURAL FINISH ENCLOSURE

# JENSEN SPEAKERS IN OLSON "Commando" Enclosure

★ Response: 50-16,000 cps
★ Impedance: 8 ohms

The famous Commando enclosure now houses a Olson designed 2-way system featuring famous Jensen speakers. Superb listening enjoyment at a very low cost, is yours through the Jensen 8" Woofer and 3½" Cone Tweeter. Speakers are matched and mounted—ready to play. Enclosure is scientifically designed to achieve the maximum bass response. Although no finish is required, enclosure may be painted, waxed or varnished. Size: 11¾"x23¾"x9¼". Shipping weight 22 lbs.

ELAC

★ 15 Watts Power
★ Response 40-15,000 CPS

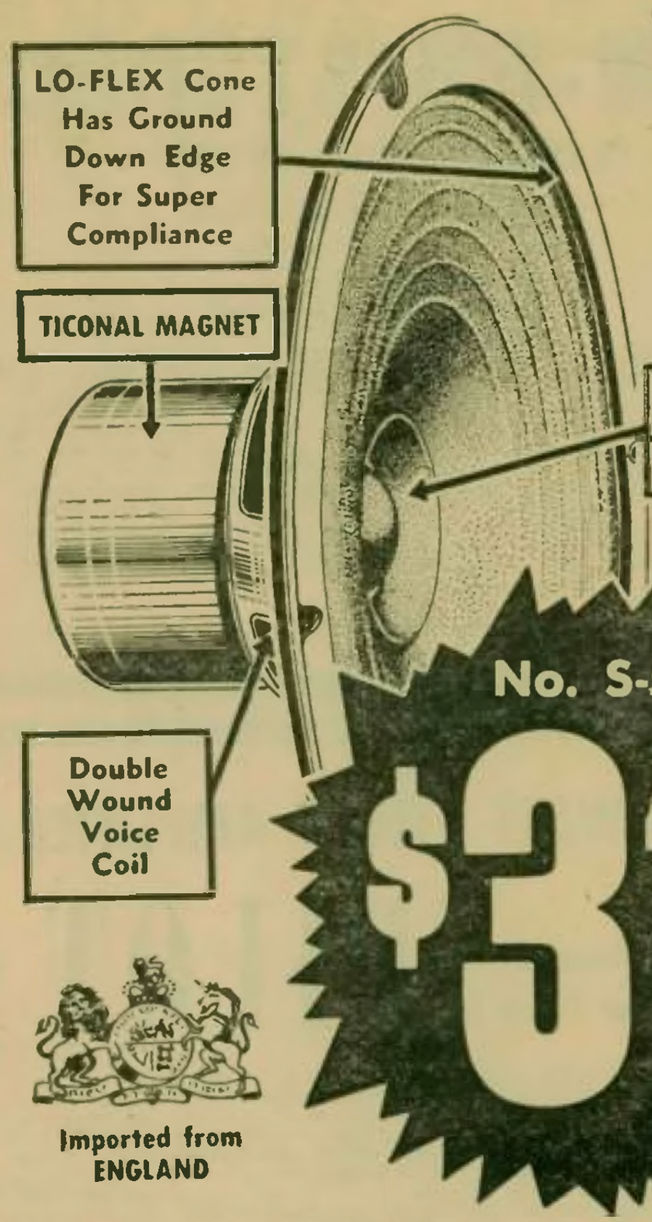
# 8" Full Range SPEAKER

LO-FLEX Cone Has Ground Down Edge For Super Compliance

TICONAL MAGNET

HIGH FREQUENCY WHIZZER

Double Wound Voice Coil



No. S-517

$3.49

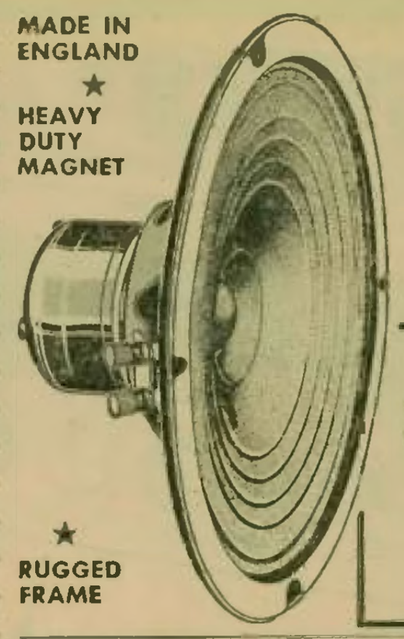
2 FOR $6.50

Imported from ENGLAND

This beautifully crafted loudspeaker has a richness of tone which belies its size. A one inch, 8 ohm double wound voice coil with special felt centering, excellent quality fibre cone, and concentric exponential high frequency whizzer. Heavy duty ticonal magnet. Priced at far less than its worth due to an OLSON mass purchase. Use for main system or as add-on speakers in den, bedroom, etc. Size: 8" diam. x 2¾" deep. Shipping weight 3 lbs.

Wm. Seidler, 3020 Edwin, Fort Lee, N. J., wins choice of merchandise worth $5 from Olson's "Treasure Hunt". See back cover for instructions.

MADE IN ENGLAND ★ HEAVY DUTY MAGNET ★ RUGGED FRAME



"Golden Classic"

# 8" Hi-Fi SPEAKER

★ High Frequency Whizzer
★ Variable Density Cone

No. S-291

$4.49

Was $5.31 in 563 Cat.

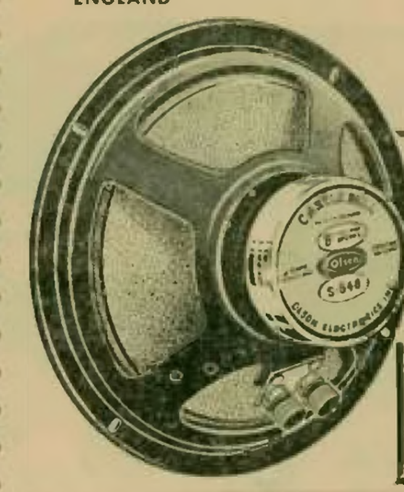
Hi-fidelity speaker with variable density cone. "Whizzer" provides extended treble response, good overall balance in wide dispersion angle. Response: 40-12,500 cps. Voice coil 8 ohms. 8-10 watts. Rugged frame with heavy duty magnet. Shipping wt. 2 lbs.

Imported from ENGLAND

Olson

# 8" "Castle Bell" FULL RANGE SPEAKER

★ Rugged Frame
★ Heavy Duty Ceramic Magnet
★ Resp.: 30-15,000 CPS



No. S-548

$5.98

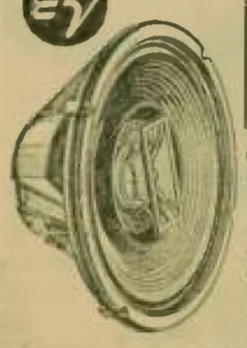
2 for $11.50

A full range, heavy duty 8" speaker featuring a rugged ceramic magnet and double wound voice coil. The flexedge cone and exponential high frequency whizzer deliver smooth rich bass and crisp clean highs. Ideal for space saving stereo systems or extension speakers for stereo or hi-fi. Don't miss this TOP VALUE! Response 30 to 15,000 cps. Impedance 8 ohms. Shpg. weight 4 lbs.

Electro-Voice Wolverine LT-12

# 12" 3-WAY SPEAKER

★ Ceramic Magnet



No. S-473

$31.36

Crossover point 5500 CPS, res. 40 to 18,000 CPS, 8 ohms imp. Handles 20 watts of music program. Rigid die cast chassis. Edge-wound ribbon voice coil. Shipping weight 13 lbs.

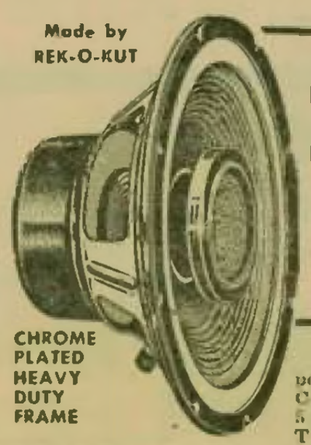
**Electro-Voice 12" LS-12 Speaker**

Resp.: 40-15,000 CPS. Power: 20 watts. Impedance: 8 ohms. Size: 12" Dia. 3½" Deep. Shpg. wt. 9 lbs. No. S-338 $20.50

Olson Deluxe

# 3-WAY SPEAKER

Made by REK-O-KUT



CHROME PLATED HEAVY DUTY FRAME

No. S-489

29.98

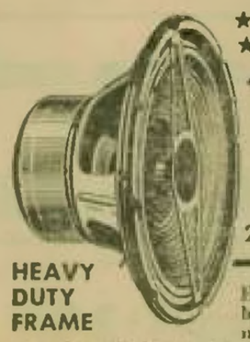
Stereo Pair $55

$7 Monthly

Cross-over points — 2000 C.P.S. and 5000 C.P.S. Tweeter extends clean, sparkling highs to 18,000 C.P.S. Parallex Curvelinear 12" Woofer Cone. Fundamental Frequency 40 C.P.S. Very heavy magnet. Shpg. wt. 10 lbs.

# 12" "Golden Classic" COAXIAL

★ 12" Woofer
★ 3" Tweeter



HEAVY DUTY FRAME

No. S-311

$7.99

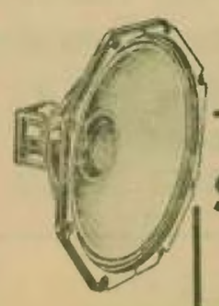
2 for $15.50

Heavy frame, built-in crossover network, frequency response from 55 to 15,000 cycles. Capacity full 12 watts. Voice coil 8 ohms. 12" WOOFER SECTION faithfully delivers all the true natural bass and middle register tone. 3" TWEETER SECTION faithfully reproduces all the clean and brilliant highs, features the latest parabolic cone. Shipping weight 8 lbs

# 8" Norelco HI-FI SPEAKER

Model AD-3800

- 60-19,000 CPS
- Power Cap.: 8 W
- Ticonal Magnet



No. S-278

$4.99

2 for $9.00

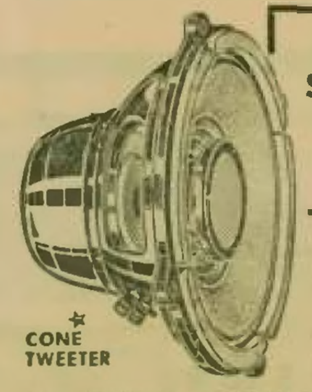
Precision made 8" speaker with coaxially mounted dispersion cone. Imported from Holland. Ideal for stereo and hi-fi extension speakers or PA and intercom installations. Size: 8" x 3⅜". Impedance: 8 ohms. Shpg. wt. 3 lbs.

24 Ga. Speaker Cable, 53 ft., No. W-361, 99c

Crossover Capacitor Kit No. AS-552, $1.50

Olson

# 8" COAX



CONE TWEETER

No. S-406

$11.98

2 for $20

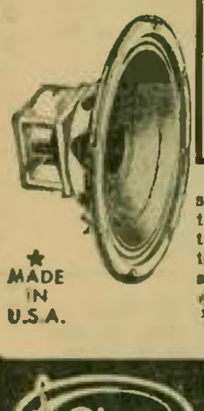
12 @ $8.50

Woofer cone has response of 40 to 4,000 CPS and cone tweeter extends from crossover point of 4,000 CPS to 16,000 CPS. Crossover network built in. Works with any amplifier, radio, TV or phono. Power handling capacity: 8 watts. Voice coil: 8 ohms. Diameter: 8". Depth: 5½". Shipping weight 6 lbs. Buy two for stereo.

24 Ga. Speaker Cable, 53 ft., No. W-361 99c

"Sweet Sixteen"

# 5" SPEAKER



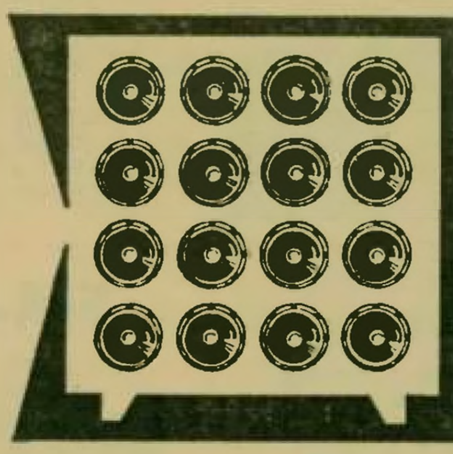
No. S-340

$1.19

3 for $3.50

★ MADE IN U.S.A.

The perfect 5" PM speaker for building the popular "sweet sixteen" system. (Instructions included.) Impedance 3.2 ohms. 2 watts each. Shipping weight ½ lb. each.



"SWEET SIXTEEN" Five - Inch

# 16 Speakers

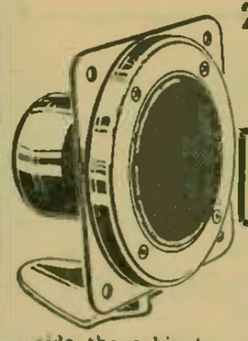
ALL 16 ONLY $17

Big speaker sound at small speaker price. Speakers are the S-340 at left. A best seller. Shpg. wt. 5½ lbs.

24 Ga. Speaker Cable, 53 ft., W-361 99c

2¾" HARD CONE

# TWEETER

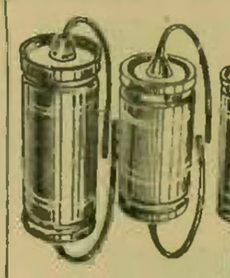


$2.49 No. S-297

Ideal for "Sweet 16 plus 4". Finished in gleaming gold enamel, can be mounted inside the cabinet or on top. 15 watts. Response 1200 to 15,000 cps. 8 ohms. Size: 3x3x2". Shipping weight ¾ lb.

Crossover Capacitor Kit No. AS-552, $1.50

# CROSSOVER CAPACITOR KIT



KIT OF 5

No. AS-552 $1.50

2 Kits for $2.95

This kit contains 5 popular values of non-polarized electrolytic capacitors. Ideal for crossovers in two or three speaker systems. Kit includes one each of the following values: 4, 10, 25, 50, and 100 mfd., plus a circuit diagram of two and three speaker systems. Shpg. wt. ½ lb.

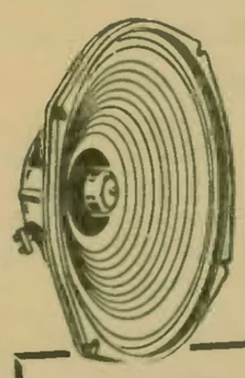
Olson

# ALNICO V SPEAKERS

★ MAY BE ASSORTED FOR QUANTITY PRICES

High quality PM speaker for replacements and original equipment applications.

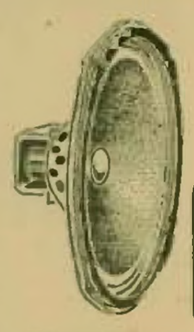
## 12" Slim SPEAKER



- Application: Limited Space 3½" deep
- Voice Coil: 8 ohms
- Magnet wt.: 2.35 oz.
- Power: 8 watts
- Response: 40-10,000 CPS Shpg. Wt. 4 lbs.

$4.49 No. S-456

## 6" x 9" PM SPEAKER



- Application: Auto radios, etc.
- Voice Coil: 8 ohms
- Magnet wt.: 1.47 oz.
- Power: 8 watts

Shipping wt. 3 lbs.

No. S-224 Each
3, @ $2.50 Ea.
100, @ $2.16 Ea. $2.76

## 6" PM SPEAKER



For general replacement. Voice coil 3.2 ohms. 1.45 oz. magnet. Rated 5 watts. Shpg. wt. 3 lbs.

LOTS OF 100, EA. $1.73

No. S-7, Lots of 3, Ea. $2.09 Ea. $2.29

## 8" PM SPEAKER



For general replacement. Voice coil 8 ohms. 2.15 oz. magnet. Rated 7 watts. Shpg. wt. 3 lbs.

LOTS OF 100, EA. $2.32

No. S-86, Lots of 3, Ea. $3.29, Ea. $3.49

## 4" PM SPEAKER

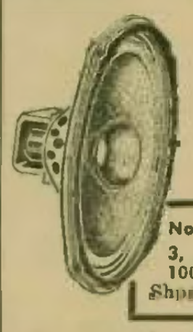


Ideal for replacement in radio, TV, or phono. Alnico 5 magnet. Shpg. wt. ¼ lb.

3 @ 80c

No. S-568, 100 @ 70c, ea. 89c

## 6" x 9" HI-FI PM



- Aluminum Voice Coil
- Hi-Frequency Whizzer
- Application: Rear deck speaker, auto radios, etc.
- Voice Coil: 8 ohms
- Magnet wt.: 2.15 oz.
- Power: 8 watts

No. S-280 Each
3, @ $3.33 Ea.
100, @ $2.73 Ea. $3.69
Shpg. wt. 4 lbs.

## 5" x 7" PM SPEAKER



For replacement auto radios, etc. Voice Coil: 8 ohms. 1.0 oz. magnet. Power: 6 watts. Shipping weight 3 lbs.

100, @ $1.99 Ea.

No. S-113, 3 @ $2.19 Ea., Ea. 2.49

## 5" PM SPEAKER



For general replacement. Voice coil 3.2 ohms 1.0 oz. magnet. Rated 4 watts. Shipping weight ¾ lb.

LOTS OF 100, EACH $1.47

No. S-336, 3 @ $1.67, ea., Ea. $1.79

## 4" SPEAKER



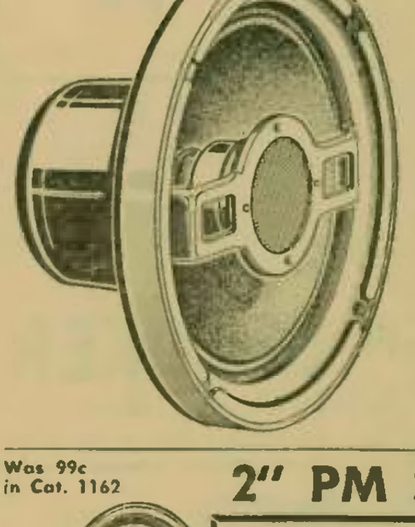
- 3.2 ohm Voice Coil. .68 oz. magnet. Ideal for replacement in radio or phono. Shpg. wt. ¼ lb.

No. S-564 (3 @ 90c) ea. 99c

Olson

# 6½" Coaxial SPEAKER

- Response 50 to 16,000 CPS
- Ideal for Space Saving Stereo Systems



$6.85

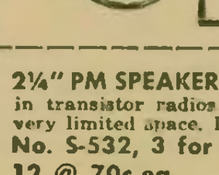
2 for $12.75

No. S-496

Ideal for apartments or small rooms where space will not permit larger speakers. Features heavy duty magnet and 2" shielded tweeter with LC crossover network. Impedance: 8 ohms. Response: 50 to 16,000 CPS. Power capacity: 10 watts. Shipping weight 4 lbs.

Was 99c in Cat. 1162

# 2" PM SPEAKER BARGAIN!



No. S-433

69c

3 @ 63c each

100 @ 59c each

★ Replacement Speaker
★ Miniature Microphone
★ Stereo Headphones
★ Experimental Use

A once-in-a-lifetime purchase makes possible this unusually low price for this fine miniature speaker. Use it where sound reproduction is desired in a very limited space. Imp. 8 ohms, 1 oz. mag. 2" dia. x ⅞" deep. Shpg. weight ¼ lb.

**2¼" PM SPEAKER** Use as concealed microphone or simply as a replacement speaker in transistor radios and intercoms. Use anywhere sound reproduction is desired in very limited space. Impedance 8 ohms, 0.5 oz. mag. 2¼" dia. x ⅞" deep. Shpg wt. ¼ lb.

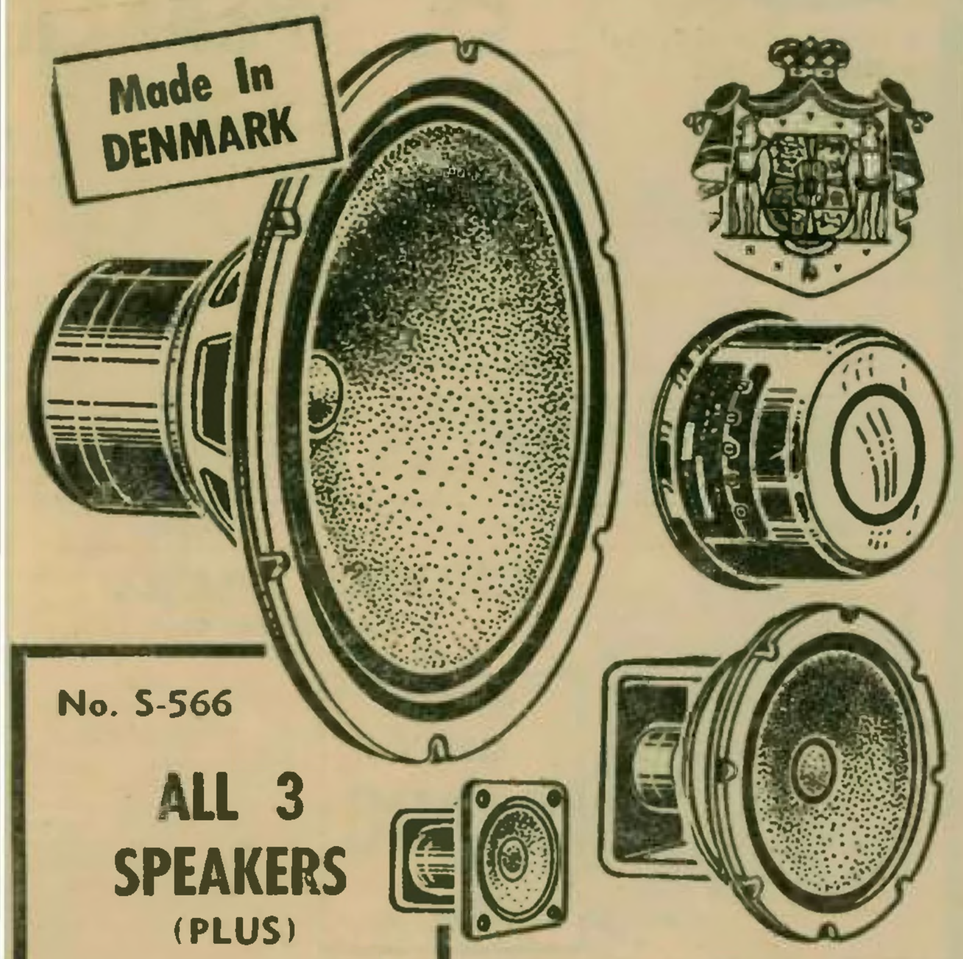
No. S-532, 3 for $2.30

12 @ 70c ea. EA. 88c

"SHIELD CREST"

# SPEAKER SYSTEM

Made In DENMARK



No. S-566

**ALL 3 SPEAKERS (PLUS) CROSSOVER NETWORK**

**$22.88**

**2 SYSTEMS $44**

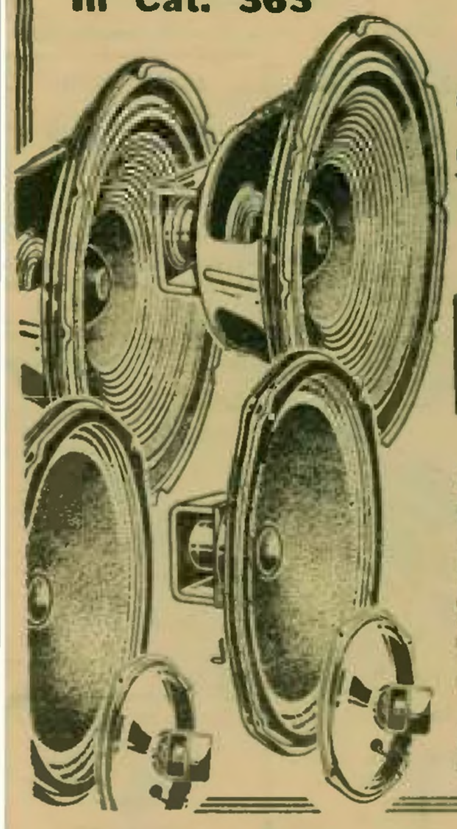
- Response 25 to 18,000 CPS; ± 4DB
- Power Handling Capacity 25 watts

Rarely are we able to offer a set of Danish speakers as fine as these. Now, you can get these matched sets in factory sealed cartons at less than our 1962 price. Made by the largest and best Danish speaker manufacturer. Consists of a 12" woofer, a 5" midrange and a 2" tweeter. Also included is a precision crossover network which matches these speakers exactly and gives electronic crossover frequencies of 750 cps and 4000 cps. Overall impedance 8 ohm matches any amplifier. Easy to hook up instructions supplied. Shipping weight 14 lbs.

## INDIVIDUAL UNITS AVAILABLE

| | |
|---|---|
| 2" TWEETER Resp. 3,000—18,000 CPS; Power 5 Watts, No. S-345 | ea $3.25 |
| 5" MID-RANGE: Resp. 750—6,000 CPS; Power 5 Watts, No. S-346, | ea. $4.50 |
| 12" WOOFER: Resp. 25-900 CPS; Power 20 Watts, No. S-347 | ea. $9.00 |
| CROSSOVER NETWORK No. T-257 | ea. $7.50 |
| LEVEL CONTROLS (Optional, 2 Required) No. VC-204 | ea. $1.39 |

Was $30.00 In Cat. 363



## Custom STEREO SPEAKER SYSTEM

2 3-WAY SPEAKER SYSTEMS

- 2—12" Woofers
- 2—6x9 Midranges
- 2—3x5 Tweeters

**ALL 6 SPEAKERS**

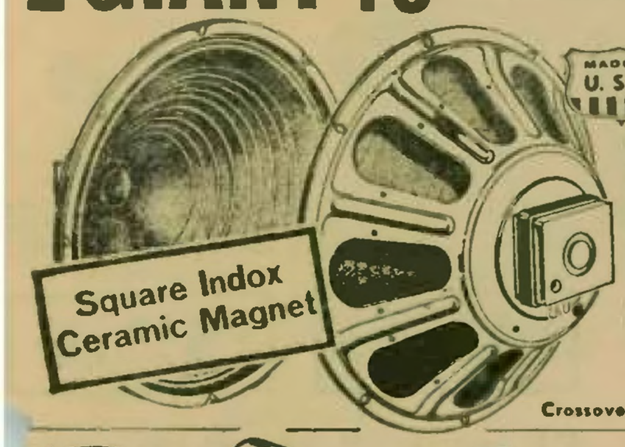
**$19.95** No. S-509

The 12" woofers contain phenolic voice coil forms for extreme low frequency. The 6" x 9" "Heart of the System" speakers provide the all important midrange while the 3" x 5" tweeters go up to a smooth and clean 18,000 cps. 8 ohm, 30 watt music power. System consists of two 12" woofers, two 6x9 super flex-edge midrange speakers, and two 3x5 totally enclosed tweeters, complete crossover networks, and all necessary wire, and hardware. Ideal for custom installations and built-in systems. Shipping weight 14 lbs.

Leland F. Thayer, RD 1, Titusville, Pa., wins choice of merchandise worth $5 from Olson's "Treasure Hunt". See back cover for instructions.

# 2 GIANT 15" Full Range SPEAKERS

STEREO MATCHED




MADE IN U.S.A.

- Resp.: 30-13,000 CPS
- Power Cap.: 25 Watts

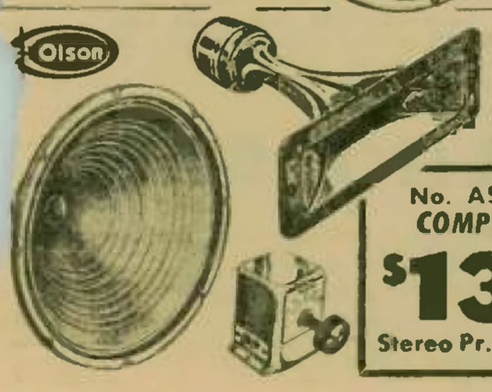
No. S-526

TWO FOR $15.95

Single, No. S-530, $9.95

8 ohm. Size: 15" x 6½" deep. Shipping wt. 12 lbs. per pair.

Crossover Capacitor Kit No. AS-552, $1.50



## 2-WAY SPEAKER SYSTEM

No. S-530 Olson 15" Woofer (above)
No. S-547 Horn Tweeter (right)
No. T-294 Spkr. Crossover (pg. 12)

No. AS-833 COMPLETE

**$13.00**

Stereo Pr. $25.50

Delivers full rich tone impossible to achieve with smaller speaker systems. The heavy duty 15" woofer faithfully reproduces clean rich bass tones to 30 cps. Compression horn tweeter adds smooth, transient-free high frequencies to the limits of audibility. Shipping weight 11¾ lbs.

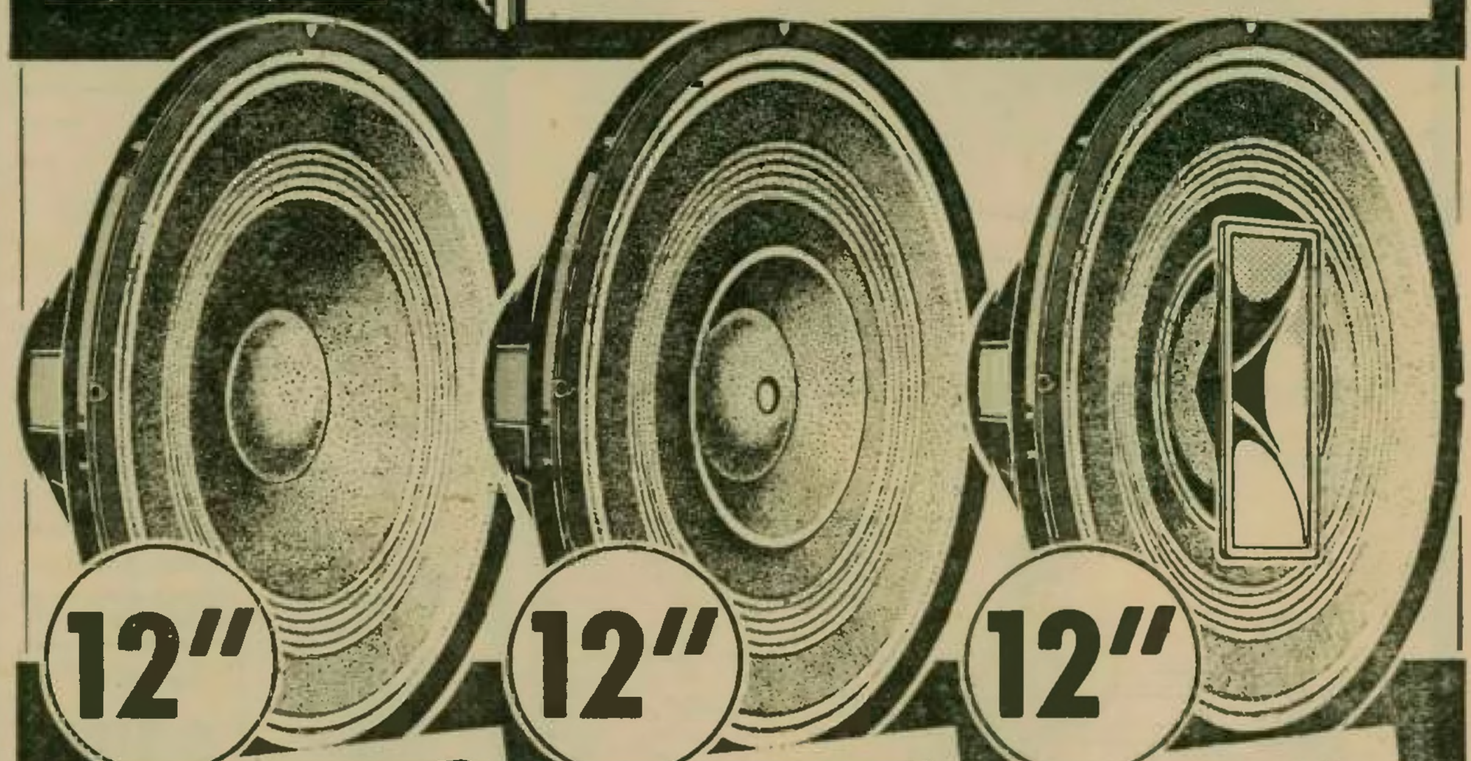
Olson

# SLIM-LINE DESIGN SPEAKERS

HEAVY-DUTY DIE CAST FRAME ...The Hallmark of a Fine Loudspeaker

POWERFUL HEAVY-DUTY MAGNET

RIBBED CONE CONSTRUCTION FOR EXCELLENT REPRODUCTION



## 12" WOOFER

No. S-541

**$13.95** ★

STEREO PAIR $26.50

★ Resp. 30-3500 CPS
★ Impedance: 8 Ohms

This superb speaker delivers remarkable transient response along with rich full-bodied bass. This exceptional preformance is made possible by the newest advancements in high fidelity speaker design. Rugged heavy-duty die cast frame plus an accordian edge cone assures greatly improved bass response. Use to assemble new 2 and 3 way high-quality speaker systems at a budget price or modernize your old hi-fi or stereo. Response 30-3500 CPS. Impedance 8 ohms. Shipping weight 10 lbs.

Crossover Capacitor Kit AS-552 $1.50

## 12" FULL RANGE

No. S-495

**$13.95** ★

STEREO PAIR $26.50

★ Resp. 30-16,000 CPS
★ Impedance: 8 Ohms

A heavy duty die cast frame is the hallmark of fine speakers. All other popular-priced loudspeakers have frames of stamped sheet metal which bend easily and allow the speaker cone and delicate voice coil to shift position.

The heavy magnet and ribbed cone contribute to the excellent sound of this speaker. Features whizzer cone for extended high frequency response. Frequency response 30-16,000 CPS. power handling capacity 20 watts, impedance 8 ohms, rugged slim-line design. Size 12" dia. x 3½" D. Shipping weight 11 lbs.

Crossover Capacitor Kit AS-552 $1.50

## 12" 3-WAY

No. S-600

**$19.98** ★

STEREO PAIR $39.00

★ Built-in Crossover
★ Resp. 30-16,000 CPS
★ Impedance: 8 Ohms

All of the latest advances in speaker design have been incorporated in this revolutionary 3-way speaker. Phenomenal bass, full-bodied midrange and silky smooth upper octaves are reproduced with unusually pleasing musical balance. Features heavy-duty die cast frame plus ribbed cone construction and independent compression horn tweeter. Use two of these fine speakers for the ultimate in stereo reproduction. Response: 30-16,000 CPS. Mechanical crossover 1800 CPS, electrical crossover 5,000 CPS. Impedance 8 ohms. Shipping weight 11 lbs.

Olson SPEAKER SYSTEM
S-541 Woofer (above)
S-599 Tweeter (below)
T-294 Crossover (pg. 12)

No. AS-827 $16.20 STEREO PAIR $32.00

Olson SPEAKER SYSTEM
S-541 Woofer (above)
S-533 Tweeter (below)

No. AS-758 $16.98 STEREO PAIR $32.00

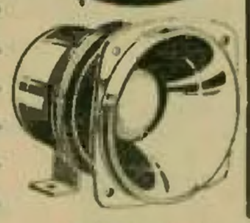
Olson SPEAKER SYSTEM
S-541 Woofer (above)
S-547 Tweeter (below)
T-294 Crossover (pg. 12)

No. AS-822 $19.05 Stereo Pair $37.00

## Deluxe HORN TWEETER

★ Response to 15,000 CPS

Olson



No. S-599

**$3.49**

STEREO PAIR $6.00

A horn tweeter that produces silky smooth high frequencies and even dispersion. One of the finest horn tweeters available at any price. Entirely enclosed in metal case. Tweeter can be mounted to front of cabinet or on attached self-supporting stand. Requires 3" mounting hole. 8 ohm. Size: 4 x 3⅝". Shipping weight ¾ lb.

Crossover Capacitor Kit, No. AS-552 $1.50

## 4" Hard Cone TWEETER

★ Built-In Crossover

Olson



★ Die Cast Frame

No. S-533

**$5.95**

Stereo Pair $10.00

Features excellent high frequency characteristics and is capable of handling frequencies as low as 2,000 CPS. The tweeter has a built-in 2500 CPS crossover or it can be easily connected to your existing crossover network. Resp.: 2,000-16,000 CPS; Impedance: 8 ohms, power cap. 15 watts; Diameter: 4 in. Shipping weight 1½ lbs.

## Compression HORN TWEETER

★ 1,000 CPS to 18,000 CPS
★ Cast Aluminum Horn
★ 20 Watts



*Electronically Equivalent to:*

Electro-Voice MFT, Jensen ORP201, University 4401

No. S-547

**$7.99**

Stereo Pair $15.50

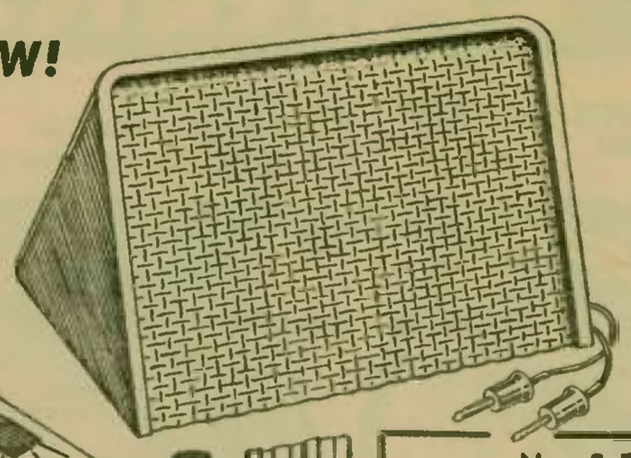
Use with any 8, 12 or 15" speaker. Add smooth, transient-free high frequencies to your speaker system at a real money saving price. Low frequency response eliminates the need for a midrange speaker. 8 ohms. Size: 4" H x 10⅛" W x 11½" L. Shpg. wt. 5 lbs.

Crossover Capacitor Kit AS-552 $1.50

Olson

# EXTENSION SPEAKER & BAFFLE

**NEW!**



**4"x6" SPEAKER**
★
**WALNUT CABINET**
★
**CANE GRILLE CLOTH**
★
**TWO-WAY PLUG**



HANG ON WALL

Lobbies, Waiting Rooms, Etc.

No. S-563

**$4.98**



SET ON DESK OR SHELF
Office, Den, Etc.

Attach this beautifully styled extension speaker to your transistor radio to get big set performance. The heavy duty 4" x 6" speaker will greatly improve the tone of any compact radio. This outstanding speaker and baffle will make an attractive and functional extension for any radio, TV or Pheno. Unusual three-corner design blends beautifully with furnishings in office, den or anywhere you need an extension speaker. Equipped with two 18" cables which are terminated with miniature phone plugs. One plug is ⅛" in diameter and the other one is ⅙", just right to fit the earphone jack on most transistor radios. Size: 8" x 5¾" x 5½". Shpg. wt. 4 lbs.

Stromberg-Carlson

## 8" 2 WAY SPEAKER SYSTEM

*Build-in to:*
- Wall
- Bookshelf
- Cabinet



No. RS-401

**$14.99**

This system utilizes an 8" woofer and cone tweeter plus built-in cross-over network. Designed for installation in wall, closet or your own cabinet. Imp.: 8 ohms. Response: 55-15,000 cps. Size: 12⅝" x 17⅜" x 11⅜". Shipping weight 14 lbs.

## 12" 2 WAY SPEAKER SYSTEM

Similar to system above, but with 12" woofer and cone tweeter. Size: 22⅞" x 13⅝" x 12⅞" deep. Shpg. Wt.: 24 lbs. Shipped express.

No. RS-404 ($29 in 263 Cat.) **$19.99**



Stromberg-Carlson
2-Way Speaker
## CROSSOVER

No. VC-257

**$1.89**

An inductance capacitance speaker cross-over network. Cross-over frequency 4,000 cps. Size: 5" x 3½". Shpg. wt. ¾ lbs.

Olson

# 8" SPEAKER AND BAFFLE

★ Individual Level Control
★ Hangs on Wall
★ Sets on Shelf

Satin Smooth hi-impact plastic baffle with level control and rugged 8" speaker wired and installed. Ideal for churches, schools, public buildings, or use around the house as an extension on radio, TV or phono. Attractively styled to match any decor. 4 watts 8 ohms. Response 50 to 9,000 CPS. Size: 10" x 9⅝" x 5⅜". Shipping weight 9 lbs.

No. S-409

**$8.31**

3 for $24
12 @ $7.50 ea.



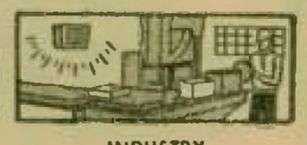
Speaker Cable, 53 ft., 24 Ga., No. W-361 99c



RESTAURANT



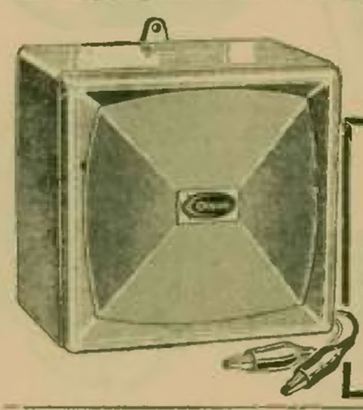
OFFICE



INDUSTRY

## EXTENSION SPEAKER

★ 20' Cable and Clips
★ Attractive Case



No. S-494

ONLY

**$2.98**

An attractively styled, easy to listen to extension speaker ready to connect to any radio, tape recorder, record player, or other sound source, just clip across present speaker leads. Can be placed on table or hung on wall, hanger included. Neutral color, 8 ohm. Plastic case. Size: 4½" x 4½" x 2½". Shipping weight 3 lbs.

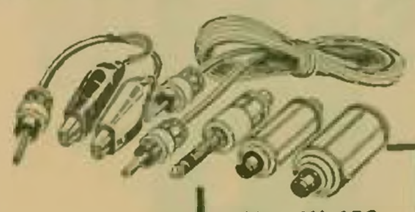
## REMOTE CONTROL SPEAKER

Similar to above but has volume controls for remote and main speaker, bargain priced. Size: 4½" x 4½" x 2½". With 20' wire and instructions. 8 ohms. Shipping weight 3 lbs.

No. S-549 **$4**

## Universal CABLE KIT

★ Makes Any Type of Audio Hook-up



Ideal for connecting tuner to amplifier or tape recorder to radio, TV or phono. Shipping weight: ½ lb.

No. W-422

**$1.59** PER KIT

## 6" x 9" EXTENSION SPEAKER

★ With Volume Control



No. S-408

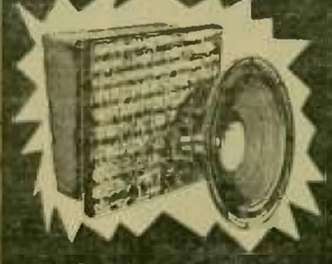
**$4.70**

2 for $9.00

For the home or office. Consists of mahogany color molded baffle, 6x9 speaker, and speaker volume control, hardware and instructions. 8 ohm. Assembled. Size: 10¾" W x 4½" D x 8" H. Shipping weight 4 lbs.

Speaker Cable, 53' 24 ga., No. W-361 99c

## BAFFLE & 8" SPEAKER



SAVE!

No. CA-136

**$6.51**

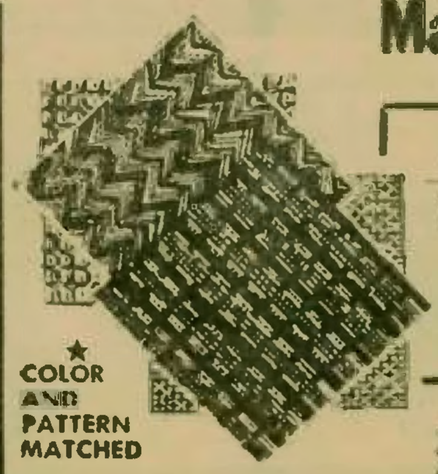
3 for $18—Lots of 12, Ea. $5.00

Response: 50 to 10,000 CPS. Voice coil 8 ohms. Rated 6 watts. Speaker mounted. Size: 10" x 10" x 3¾". Shpg. wt. 4 lbs.

Speaker Cable, 53', 24 ga., No. W-361 99c

## Matched GRILLE CLOTH

★ Will Not Snag, Scuff or Fade



★ COLOR AND PATTERN MATCHED

BLONDE
No. CA-278

MAHOGANY
No. CA-279

**99c**

★ Two Pieces 11" x 26

Ideal for covering two cabinets for your stereo system. You get two pieces 11" x 26" of the same color and pattern. Each piece may be cut in two to cover four 8" wall baffles. Patterns may vary from illustration. Shipping weight ½ lb.

Beautiful Jr. High School, Gerald Brian Inan, 40 W. 4th, Bountiful, Utah, wins choice of merchandise worth $5 from Olson's "Treasure Hunt." See back cover for instructions.

## AUDIO CABLES

For quick connection between phonos, amplifiers, tuners, etc. Shielded cable with grey plastic outer sheath. Shipping weight ¾ lb.



A B C D

A Phono pin plug, other end stripped and tinned. 3-ft. cable.
No. W-325, 3 for $1.00 ..... 39c

B 2 phono pin plugs, one on each end. 3-ft. cable.
No. W-321, 3 for $1.79 ..... 65c

C Phono pin plug, other end phono pin jack. 5-ft. cable.
No. W-341, 3 for $1.79 ..... 65c

D Dual phono cable with pin plugs on each end. Color-coded for identification.
3-FT. CABLE
No. W-440, 3 for $3 ..... $1.17
4-FT. CABLE
No. W-441, 3 for $3.50 ..... $1.35

## 36" Audio Cables

★ KIT OF 4



No. W-450

**$1.79**

Color coded cables. RCA type plug on each end. Shipping weight ½ lb.

## AUDIO CABLE KIT



Consists of 3' audio lead with pin plug, other end tinned and stripped; 6' audio lead with pin plugs; 1 dual inline jack. Shipping weight: ¼ lb.

No. AS-481, 4 for $3.50 per kit **99c**

## SINGLE PHONO JACKS

★ Kit of 15



3 Kits for $2.50 PER KIT . . .

**99c**

Similar to above but single jack mounted on panel 1½" x ½". Shipping weight ¼ lb.

## Olson 8 Ohm Monaural LEVEL CONTROL

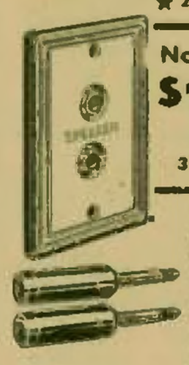


For use with any speaker to provide separate and independent control of speaker volume. 20 watts. Shipping weight ¼ lb.

12 @ $1.25 ea.
3 for $4.00
No. VC-204 Ea. **$1.39**

## STEREO SPEAKER WALL JACK

★ 2 Phone Plugs Included



No. PL-97

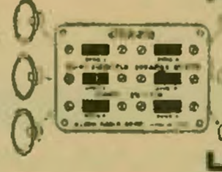
**$1.49**

3 for $4

*NEW!*

Two ¼" jacks mounted on a standard wall plate. Two ¼" phone plugs are included. The wall plate can be mounted on a standard electrical outlet box or mounted directly on the wall. All hardware and mounting brackets are included. Ivory finish. Size: 2¾"x 4½". Shp. wt. ½ lb.

## Stereo/Mono Speaker Switch



No. SW-130

**$1.69**

3 for $5.00
12 @ $1.40 ea.

Control up to 3 pairs of stereo speakers or 1 to 6 monaural speakers. Remotes may be switched in or out of circuit without effecting amplifier load. Can be used with 4 or 8 ohm speakers. Gold panel 3⅝"x2¼". With instructions. Shipping weight ½ lb.

## OLSON VARIABLE CROSSOVER



★ Matches Any Woofer and Tweeter. Combination crossover and level control. It works with any impedance from 4 to 16 ohms. Size: 4"x2⅝"x 1⅝". Shpg. wt. ½ lb.

No. VC-213, 3 for $7.00 Ea. **$2.49**

## OLSON POWER CONTROL BOX



Controls power separately to any 3 appliances. 6 foot cord. Size: 4" x 2⅝" x 1⅝". 5 amps @ 125 volts AC-DC. Shpg. wt. ¾ lbs.

No. SW-141 3 for $7.00 Ea. **$2.49**

## Stereo Speaker Switch



Dual 7 position switches permit the selection of all or 7 different combinations of any 3 pairs of speakers. Ivory knob with gold finished plate. Instructions included. Size: 2¾"x4½". Shpg. wt. ½ lb.

No. SW-234 **$1.99**

## 2 WAY CROSSOVER NETWORK

MADE IN U.S.A.



3,000 cps "LC" crossover, channels high frequencies to tweeter and low frequencies to woofer. Impedance 8 ohms. Size: 3½" W x 1⅞" x 1¾". Shipping weight ¼ lb.

3 for $8.50
No. T-294, 12 @ $2.50 ea. **2.97**

Olson

## Horn TWEETER



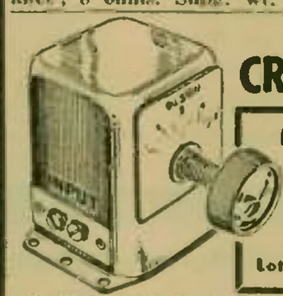
No. S-307

**$8.95**

2 for $17.50
Lot of 6, Ea. $8.00

Husky 20 watt driver unit coupled to horn provides uniform response from 2000 cps to above audibility. For use with any 8", 10", 12", or 15" speaker. Heavy die cast frame. Stand may be removed for internal mounting. Impedance; 8 ohms. Shpg. wt. 4 lbs.

## Speaker CROSSOVER



No. VC-222

**$5.97**

2 for $11.00
Lots of 6, Ea. $4.75

Crossover freq. 4000 CPS. Extra long shaft allows network to be mounted in wood panels up to ⅞" thick. Features tweeter level control. Impedance 8 ohms. Size: 4⅝" W x 3" D x 2¼" H. Shipping wt. ⅝ lbs. Made in U. S. A.

Olson

## Corner Baffle with 6" x 9" Speaker



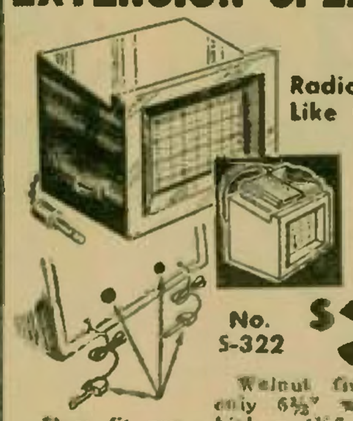
No. S-419

**$5.96** 3 For $17.50

Response: 50 to 11,000 CPS. Size: 14⅜" H x 18½" W x 5⅜" D. Rated 6 watts. Voice coil 8 ohms. Speaker is mounted. Mahogany grained. Shipping weight 4 lbs.

Speaker Cable, 53', 24 ga., No. W-361 99c

## EXTENSION SPEAKER



Makes Portable Radios Sound Like Consoles

3 for $11.00
Lots of 12, Ea. $3.00

No. S-322 **$3.87**

Walnut finish. Size only 6½" wide x 5" high x 4½" deep. Shipping wt. 3 lbs.

Plugs fit any Transistor Radio

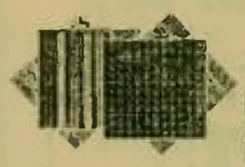
EASY TO INSTALL

Olsontone
## GRILLE CLOTH

★ Will Not Snag, Scuff or Fade

24"x36" GRILLE CLOTH

Blonde No. CA-213
Mahog. No. CA-214



**$1.39** 3 For $3.50

Give those old enclosures a new look at a fraction of original cost. Shipping weight, 1¾ lbs. Pattern may vary from illustration.

36" x 40" GRILLE CLOTH—Shpg. wt. ¾ lbs.
Mahog. No. CA-71
Blonde No. CA-75 3 for $5.00 **$1.99**

Acoustical
## FIBERGLASS

COMPLETE with Glue & Applicator



No. CA-256

**$1.29**

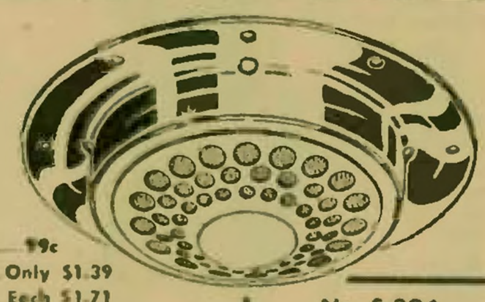
12 @ $1.00 Each

Ideal for lining speaker cabinets, sound insulating motor compartments. Easy to cut, glue, or staple. 9 sq. ft. package.

ACOUSTIC FOAM—72" x 18" x ½"
Easily Cut To Any Size
No. CA-62, 3 for $6 **$2.57**

Olson

## Ceiling-Wall SPEAKER



★ Mounts Flush Without Cutting Hole!
★ 6" Speaker Factory Mounted
★ The Perfect Extension Speaker
★ For rear Seat Speaker in Wagons
★ Ready to Mount and Connect

24 Ga. Speaker Cable, 53 ft. No. W-361 ..... 99c
Volume Control No. VC-204 ..... Only $1.39
Line Transformer No. T-110, 3 for $4.50 ..... Each $1.71

SPECIFICATIONS
Response: 60 to 13,000 CPS
Impedance: 8 ohms
Power Capacity: 6 watts
Size: 2½" deep, 9¾" dia.
Shipping Wt. 4 lbs.

Thin Design



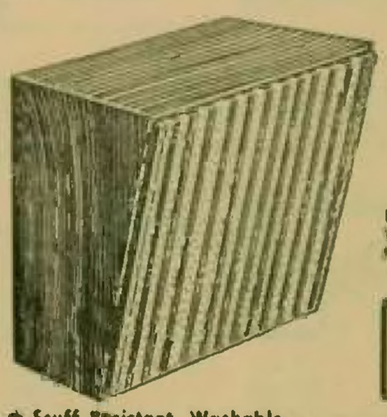
Old Design



No. S-394

**$4.99**

3 for $14.50
Lots of 12, Ea. $4.50



Olson

Speaker
## BAFFLES

★ Scuff Resistant, Washable, Paintable, etc.
★ Pre-Drilled for Level Control
★ For Paging, P. A., School Rooms, Offices, etc.

8" BAFFLE
(Less Speaker)
★ 10½"x9¾"x6½"

| | |
|---|---|
| Blond | No. CA-216 |
| Walnut | No. CA-259 |
| Mahogany | No. CA-218 |

Shipping wt. 5 lbs.

**$4.89** Lots of 6, Each $4.19

12" BAFFLE
(Less Speaker)
★ 14"x13⅛"x9⅛"

| | |
|---|---|
| Blond | No. CA-215 |
| Walnut | No. CA-258 |
| Mahogany | No. CA-217 |

Ship. wt. 5 lbs.

**$5.69** Lots of 6, Each $4.99

ACCESSORIES:
8" PM Speaker No. S-86, Shipping Wt. 2 lbs ..... Ea. $3.4
12" RCA PM Speaker, S-442, Shpg. Wt. 5 lbs ..... Ea. $5
Line Transformer No. T-110 ..... Ea. $
Speaker Cable No. W-361 (53 ft.) .....

## 12" SLIM LINE BAFFL

BLONDE
No. CA-220

**$4.53**

(Less Speaker)

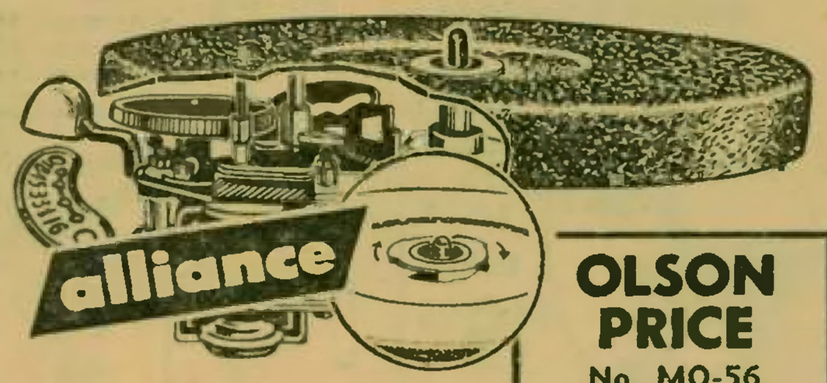
★ Similar to above but features new, modern, slim-li design. See below for speakers.
★ Size: 16" W x 13⅜" H x 6⅛" D.
Shipping wt. 5 lbs.

SLIM-LINE SPEAKERS—★ 8 OHM ★ 6 WATTS
12"—No. S-456, Shipping Wt. 2½ lbs ..... Ea. $4.49

WRH

# BUILD - REMODEL / STEREO or MONO

## 4-SPEED Motor & Turntable

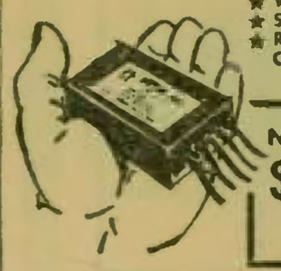



★ RETRACTABLE 45 RPM ADAPTOR
★ QUIET RIM DRIVE
★ SELF-STARTING

Genuine Alliance 4-speed motor and turntable. Enjoy records at 16⅔-33⅓-45-78 RPM. Self-starting, quiet rim drive, precision built. 45 RPM built-in retractable adapter. Complete with speed indicator plate. Operates on 110-125 Volts AC, 60 cycle. Shipping weight 6 lbs.

**OLSON PRICE**
No. MO-56
**$4**

## MITY-AMP 2-Watt Audio AMPLIFIER



★ Water Proof
★ Shock Proof
★ RUGGED CONSTRUCTION

No. AM-218
**$8.40**

A power packed amplifier so small it fits into the palm of your hand. Encapsulated in high grade epoxy making it waterproof and shock proof. Applications: phono amp., intercom amp., public address amp., signal tracer amp., and many, many more. Operates on 6 to 12 volts D.C. Delivers 2 watts of audio with ½ volt input. Hi or Lo impedance input. Frequency Response: 20-15,000 CPS. Size: 2" x 3½" x ⅞". Shipping weight 2 lbs.

## AUTOMATIC Changer SWITCH



No. SW-233
**$5.50**

Automatically turns off Hi-Fi or stereo systems after last record has been played. Plug record changer and amplifier into the automatic changer switch, when last record has been played and changer turns off, entire system will turn off. Size: 4½"x1⅝" x2". Shipping weight ¾ lbs.

## MONAURAL Phono Arm



★ TURNOVER ALL SPEED CARTRIDGE

No. RP-236
**$1.59**
3 for $4.50

Response 50 to 15,000 C.P.S. Lightweight tone arm, spring counter balanced for use in manual players, plays all 4 speeds. Output—.5 volts. Dual sapphire styli. Complete with mounting hardware, 8" long. Shipping weight ½ lb.

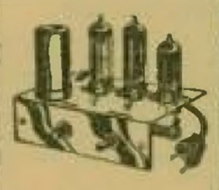
### Deluxe STEREO PHONO ARM

With 4-speed tuenover cartridge. Dual Sapphire styli. Shpg. wt. ½ lb.

No. RP-220, 3 for $5.50 Ea. **$2**

## PHONO AMPLIFIER

MADE IN U. S. A.



No. AM-16
**$3.95**
(Less Tubes)
Two for Stereo $7.50

Easily attached to any phono. Equipped with Tone and Volume Controls. Size: 4½" x 2½" x 5". Less output transformer. Shpg. wt. 3 lbs.

### SHIELD TUBES FOR ABOVE

12AV6 38c 50C5, 63c 35W4 42c

### OUTPUT TRANSFORMER

No. T-92 ea. 49c

## STEREO Headphones

Olson

★ Response: 30 to 15,000 cps



No. PH-46
**$12.97**

A deluxe set of stereo headphones with padded headband; phones are sponge cushioned for comfort. Works with any stereo amplifier. Enables you to enjoy all the benefits of stereo listening without disturbing others. Inline junction box gives built-in protection against accidental burnout due to overload and makes connection to amplifier easy. Impedance 8 ohms. With cord, plug, and junction box. Shpg. wt. 4 lbs.

## Deluxe STEREO Headphones

Olson

★ Adjustable Head Band



No. PH-82
**$14.98**

Individual volume controls on each phone make balance and volume adjustments easy and convenient. Phones are padded for extra comfort and are equipped with a 7-ft. flexible cord and standard three-circuit plug. Response 50 to 15,000 cps. Impedance 8 ohms. Shipping weight 5 lbs.

### Junction Box for Stereo Headphones

Junction box for above headphones with 36" leads has selector switch to select headphones or speakers. Connect to any amplifier. Shipping weight ½ lb.

No. PH-83 **$1.98**

## Koss STEREO HEADPHONES ... BEST QUALITY ON THE MARKET



Includes FREE T-2 Headphone JACK

No. PH-30
**24.95** Lots of 3, Ea. $21.00

### 'Double Slide' Comfort Adjustment

Response 20 to 15,000 CPS. Provides complete separation of both channels. May be used with any monaural or stereophonic hi-fi equipment. Impedance 4 ohms. Equipped with eight foot cord and stereo plug. Shipping weight 4 lbs.

PRO-4 PROFESSIONAL HEADSET—Fluid filled ear pads. Response: 50-20,000 cps. Imp.: 4 ohms. 8-foot cord. Shipping weight 4 lbs. No. PH-85, $44.10

## HEADPHONES



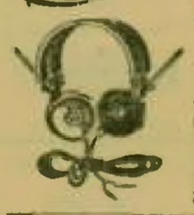
4,000 OHM IMPEDANCE. Spring steel headband, fully adjustable. Flexible cord 8½ ft. long with standard phone tips. Shpg. wt. ½ lb.

4,000 Ohm with Leather Head Band No. PH-10
3 for $5.50 Lots of 6, Ea. $1.75 **$1.95**

8 Ohm Phones with ⅛" Phone Plug
Shipping wt. ½ lb.
No. PH-27—Lots of 12, $2 Ea. **$2.86**

## HEADPHONES

Olson



**$1.99** No. PH-71

New headphones 4,000 ohm impedance. Spring steel headband, fully adjustable, flexible cord over 3 feet long, useful for schools, banks, etc. Shipping wt. ½ lb.

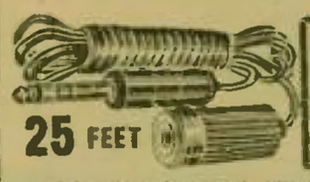
## EARPHONES



¼"x¾" diam. Resp. 50 to 4,000 cycles. 3 ft. cord & plug.

★ 2,000 Ohms
No. PH-2, 3 for $3, 100 @ 75c ea. Ea. **$1.19**

## Stereo Headphone EXTENSION CORD



25 FEET

No. W-447
**$2.29**
3 for $6

This extension cord will make it possible to listen to your favorite stereo music through Koss, Olson or other stereo headphones wherever it is convenient. Flexible three conductor cable is covered with grey vinyl jacket and is terminated with ¼" 3 circuit plug on one end and a 3 circuit jack on the other end. Shpg. wt. 1 lb.

## PHONO ARM

Olson

★ For Stereo or Monaural Use!



No. RP-237

2 HEADS INCLUDED

This new 12" phono arm is dynamically balanced, and will track at lowest pressure recommended by cartridge manufacturers. May be mounted on any turntable. Shipping weight 3 lbs.

**$9.95**

## PHONO PREAMP

Olson



**$5.95** No. AM-220

A self powered preamplifier for low level magnetic phono cartridges, microphones, and tape heads. Uses dual triode 12AX7. Response: ±2 DB 30 to 20,000 CPS. Size: 3⅝" x 3⅝" x 3⅛". For 110-125 volts A.C., 50-60 CPS. Supplied less tube. Shipping weight 4 lbs.

12AX7 Tube for above (1 required) $1.23

STEREO PREAMP Two preamps in one for stereo, less tubes. Size: 5⅜"x3⅜"x4½". Shipping weight 4 lbs.

No. AM-221 **$9.98**

12AX7 Tubes for above (2 req'd) Ea. $1.23

## STYLUS MICROSCOPE



3⅜" x ½". 40 power. Lots of 12, ea. 80c.

No. N-92, 3 for $3.00 Ea. **$1.19**

## PHONO LIGHT



Illuminates record changer when cabinet lid is raised. Chrome frame with opaque white lens. Size: 2⅝" x 1⅝". For 115 volts A.C. With bulb. Shipping weight ¼ lb.

3 for $3.00
RP-181, lots of 12, ea. 75c **$1.29**

## mote EARPHONE ADAPTOR



No. VC-252
**$3.99**

Controls volume of TV, Phono, etc. With 20 ft. cable and 2 earphones. Shipping weight ½ lb.

## CHANGER BASES

★ Made In U.S.A.



YOUR CHOICE **$4.88**

Solid wood construction with handsome darkwood finish. Pre-cut to match changer exactly. Overall size: 14⅝" x 12¼" x 2¾".

For Garrard Type "A" No. CA- 40
For Garrard Autoslim & AT-6 No. CA-151
For Monarch UA-14 No. CA-212
For VM 1200 No. CA- 65

Shipping Wt. 3 lbs.

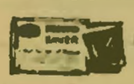
## PHONO SLIDES



Ball bearing slides extend to 19". Capacity 50 lbs. Lots of 12 pr., ea. pr. $1.25. Shipping wt. 3 lbs.

No. X-642, 3 pr. for $4.50 pr. **$1.69**

## RECORD KLEENER CLOTH



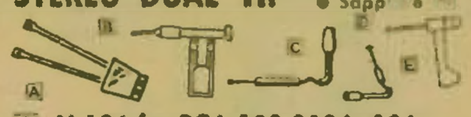
Silicon treated. Eliminates static charges, also lubricates. Shipping wt. ¼ lb. Lots of 12, ea. 30c.

No. RP-51, 3 for $1.00 Ea. **44c**

## DIAMOND NEEDLES

### STEREO DUAL TIP

● Diamond LP
● Sapphire 78




A N-126 for RCA 108-213A, 106-960A, 106-770A, 106771A $1.69
B N-150 for Sonotone 9T $1.69
C N-129 for Sonotone 8T $1.69
D N-130 for Sonotone 8TA $1.69
E N-151 for Astatic 17 $1.69

### Stereo Single Tip, Diamond LP




F N-102 for Ronette BF-40, 105, 106 $1.69
G N-149 for Euphonics E-1 $1.69

### MONAURAL DUAL TIP

● Diamond LP
● Sapphire 78




H N-71 for Sonotone 2TS $1.69
I N-91 for Sonotone 3TS $1.69
J N-95 for Shure Cartridge $1.69
K N-77 for GE RPX $1.69

### Mono Single Tip, Diamond LP




L N-70 for Ronette $1.69
M N-78 for GE RPJO1D $1.69
N N-145 for Astatic Q $1.69
O N-147 for Astatic A $1.69

# PHONO CARTRIDGES

## MONAURAL TURNOVER CARTRIDGE

★ WITH DIAMOND NEEDLE



★ 3-5 Volts Output
★ MADE IN ENGLAND

No. PC-97
**$2.59**
3 for $6

Well engineered, scientifically damped, diamond-sapphire cartridge. Has a unique mounting assembly—standard ½" mounting center, and European inline mounting.

This cartridge with its high output and low distortion, is an ideal replacement in almost any monaural phonograph, or European changer. Plays all four speeds. Response 30 to well above 6000 CPS. Complete with plug in type solder lugs. Shipping weight ¼ lb.

## AUDIO EMPIRE 108 STEREO CARTRIDGE

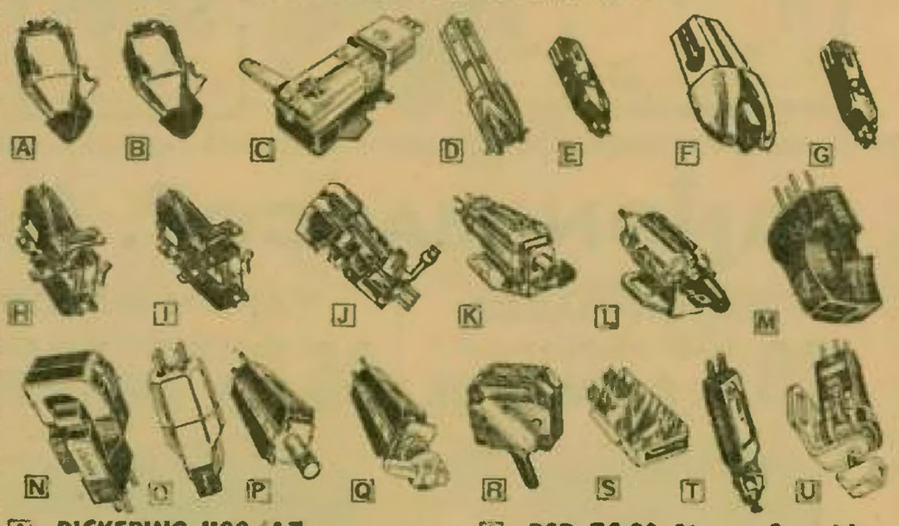


No. PC-76
**$9.88**

WITH DIAMOND STYLUS

MAGNETIC CARTRIDGE, with Diamond Stylus. Response 15 to 20,000 CPS ±2 DB. Channel separation: more than 25 DB. Load impedance: 47,000 ohms. Tracking force: 1.5 to 5 grams. ½" mounting centers. Shpg. wt. ¼ lb.

Shipping weight on all cartridges ¼ lb.




### A—PICKERING U38/AT

MAGNETIC CARTRIDGE with .7 Mil Diamond Stylus. Response ± 2 DB 20 to 20,000 CPS. Channel separation 35 DB. Tracking force 2-5 grams. Output 10 mv. per channel. Impedance 47,000 ohms.

No. PC-96, $46.50 in 363 Cat. **$16.88**

### B—PICKERING 380C

MAGNETIC CARTRIDGE with .7 Mil Diamond Stylus. Response ± 2 DB 20 to 20,000 CPS. Channel separation 35 DB. Tracking force 2-5 grams. Output 10 mv. per channel. Impedance 47,000 ohms.

No. PC-68 **$11.76**

### C—Electro-Voice 27D Stereo

Turnover ceramic. Response 20 to 20,000 cps. Plays monaural or stereo records (16, 33, 45, and 78 RPM). Diamond LP, sapphire 78 RPM styli. Output 20 mv.

No. PC-73 **$11.57**

### D—Electro-Voice 56DS Monaural

Plug-in type. Response 20 to 15,000 cps. Diamond 1 mil, sapphire .3 mil tip.

No. PC-32 **$5.85**

### E—ELECTRO-VOICE MONAURAL

★ Exact Replacement for Astatic 81T

Monophonic exact replacement. Turn over plug-in type with sapphire styli (1 MIL LP & 3 Mil 78 RPM TIPS).

No. PC-78 **$2.37**
With Diamond LP Tip No. PC-79 $4.77

### F—Electro-Voice 76DS Monaural

Exact replacement for Webcor phonographs. (Monaural) Plug-in 1 mil diamond & sapphire 3 mil tip. Pink case.

No. PC-34 **$5.85**

### G—ELECTRO-VOICE STEREO

★ Replaces Astatic 13T

Dual sapphire tips plays all 4 speeds (78, 45, 33⅓, and 16 RPM). Response: 20-15,000 CPS. Output .5 volts.

No. XC-66 **$3.33**
With Diamond Tip No. PC-74 $6.57

### H—SONOTONE 3TS CERAMIC

Response 20 to 20,000 CPS. Turnover type with standard ½" mounting centers. Dual sapphire styli. Output .5 volts.

No. PC-17, 3 for $11.00
Lots of 12, Ea. $3.00 **$3.98**

### I—SONOTONE 2T-S CERAMIC

Turnover type with Dual Sapphire Styli. Response: ± 3DB 30-15,000 CPS. 1 volt output. Standard ½" mounting centers.

No. PC-93, 3 for $9.25 **$3.32**

### J—SONOTONE 8TA4-SD STEREO

With .7 mil diamond, 3 mil sapphire stylus. Response ± 2.5 DB: 20 to 15,000 CPS. Compliance 3.0 x 10-6 cm/dyne. 20 DB channel separation. ½" mounting centers.

No. PC-92 **$7.64**

### K—Ronette 106 Stereo Cartridge

Turnover type. Plays stereo or monaural records. Has standard ½" mounting centers. Output 1.5 volts. Response 50 to 11,000 cps. Plays all 4 speeds.

No. PC-70 **$2.99**

Same cartridge as above with standard inline mounting.

No. PC-107 **$2.99**

### L—BSR TC-8S Stereo Cartridge

Turnover type. Mounts on ½" mounting centers. Response 40 to 12,000 cps. Plays all 4 speeds. Output .15 volts. Sapphire Styli.

No. PC-72, 3 for $6.00 **$2.09**

### M—SHURE M3D STEREO

Professional Stereo magnetic Cartridge with .0007" DIAMOND STYLUS. Separation: 20 DB at 1,000 cps. Response: 20-15,000 cps. Recommended load 47,000 ohms. Tracking force: 3-6 grams. Compliance: 4x10-6 centimeters per dyne ½" mounting centers.

No. PC-95, $45.00 in 363 Cat. **$15.88**

### N—SHURE M-7D STEREO

Stereo magnetic cartridge with .0007" DIAMOND STYLUS. Response: 20 to 15,000 CPS. Recommended load impedance: 47,000 ohms. Tracking force: 3-6 grams. ½" mounting centers.

No. PC-56 **$11.76**
Replacement Diamond Stylus, N-131 $4.50

### O—EMPIRE 880 STEREO

Magnetic mono/stereo cartridge with .7 mil diamond stylus. Response: 10 to 28,000 CPS. Channel separation: More than 20 DB. Tracking force ¾ gram. Balanced high output 10 millivolts per channel ± ¼ db. Mounting—standard ½" mounting centers.

No. PC-102, $42.50 in 363 Cat. **$17.95**

### P—VACO Monaural CARTRIGDE

Four speed turnover Model TO-45. Response 50 to 9,000 cps. Output 1 volt. Sapphire styli.

No. PC-69 3 for $7.00
Lots of 12, Ea. $2.00 **$2.59**

### Q—VACO Monaural CARTRIDGE

For speed turnover cartridge with dual sapphire styli. Model T045. Popular front mounting. Mounting hardware included. Response 50 to 9000 CPS. Output 1 volt.

No. PC-101, 3 for $6, **$2.29**

### R—PHILCO CARTRIDGE

Dual Sapphire Styli for Philco part numbers 425-0011 and 425-0015. Fits changer models: M-20, M-22, M-24, M-24A, M-25, M-26 and others.

No. PC-20 2 for $17.00
Lots of 12, Ea. $5.00 **$6.20**

### S—ZENITH COBRA CARTRIDGE

Exact replacement for No. S-15780 Red & green. Monaural. Sapphire styli.

No. PC-71 **$2.06**

### T—Universal Phono CARTRIDGE

Aluminum case for single needle type arms. 50-8,000 cps. 4-5 volt output. Weight 17 grams., needle force 1½ oz. ½" mtg. ctr. Monaural.

No. XC-50 3 for $3.50
Lots of 12, Ea. $1.00 **$1.29**

### U—ASTATIC 76-TS STEREO

This crystal turnover cartridge is equipped with .7 mil and 3 mil sapphire styli to play Stereo, LP and standard 78 rpm records with utmost clarity. Standard ½" mounting centers. Output 2 v. Response: 50 to 10,000 cps.

No. PC-106, 3 for $8 **$3**



OUTDOOR SPORTS



INDOOR SPORTS



AUCTIONS



ON THE JOB

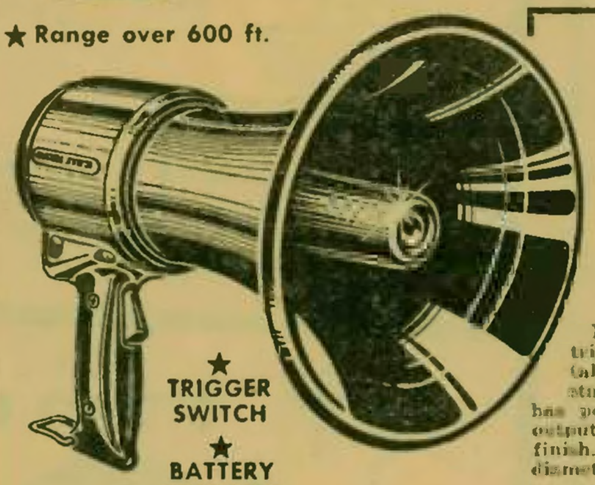


GROUP ACTIVITIES

Olson

# SELF POWERED MEGAPHONE

★ Range over 600 ft.



★ TRIGGER SWITCH

★ BATTERY OPERATED

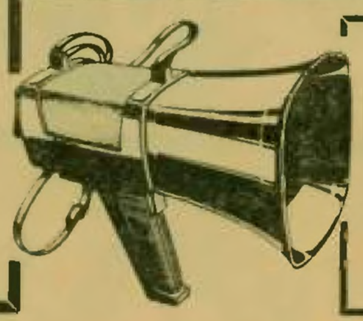
**$29.88**

3 for $87

No. S-426

No warm-up required—use instantly—trigger switch built into handle. Press to talk, one hand operation. Operates on 4 standard flashlight cells (not included) has power selector switch for high and low output. All metal construction in grey enamel finish. Size: 13½" long. Horn mouth 8¼" diameter. Shipping weight 9 lbs.

Batteries (4 req'd) No. BA-53 ..... Ea. 13c



No. S-540

ONLY

**$6.85**

## POWER MEGAPHONE

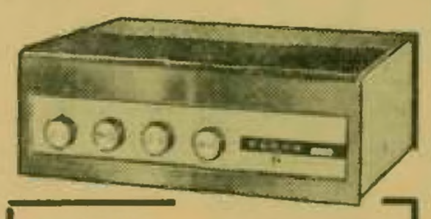
● Transistor Power Circuit

Pull the trigger and talk—no warm up required. Send your voice over long distance (Average range 100 yards). Ideal for playground, spectator sports, bonting, civil defense, etc. Made of super high-impact plastic. Has attached sling handle for easy carrying. Operates on 4 standard flashlight batteries (not included). Size: 12" long, horn mouth 6" square. Shipping weight 5 lbs.

Batteries (4 req'd) No. BA-53 ..... Ea. 13c

# FANON-MASCO P. A. AMPLIFIERS

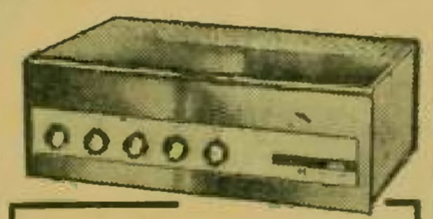
## FANON-MASCO 20 WATT Medium Power P. A. AMPLIFIER



No. AM-206 — $59.95 — $7.00 MONTHLY

MODEL 3320. POWER OUTPUT (Rated): 20 watts at less than 5% distortion. PEAK POWER OUTPUT (Music Wave-Form Rating): 25 watts. FREQUENCY RESPONSE: 70 to 20,000 cps, 3 db down. INPUTS: 3 microphone-2 phono (fader control). GAIN: 125 db microphone; 58 db-phono. INPUT SENSITIVITY: Microphone 3 millivolts, phono 0.32 V. HUM and NOISE: Fundamental—78 db. Microphone—57 db, Phono—72 db. OUTPUT IMPEDANCE: 4, 8, and 16 ohm, 70 volt line. INPUT IMPEDANCE: High impedance 0.5 meg. POWER CONSUMPTION: 70 watts at 110-125 volts AC, 60 cps. Employs 5 tubes plus 1 silicon rectifier. DIMENSIONS: 15½" W, 10¼" D, 5¼" H. SHIPPING WEIGHT 17 lbs.

## FANON-MASCO 35 WATT Medium High Power P. A. AMPLIFIER



No. AM-200 — $71.95 — $8.00 MONTHLY

MODEL 3335. POWER OUTPUT (Rated): 35 watts at less than 5% distortion. PEAK POWER OUTPUT (Music Wave-Form Rating): 40 watts. FREQUENCY RESPONSE: 70 to 20,000 cps, 3 db down. INPUTS: 2 microphone, 2 phono (fader control). 1 microphone input convertible for phono magnetic cartridge. GAIN: 125 db microphone, 90 db phono. INPUT SENSITIVITY: Microphone 3 millivolts (magnetic low impedance 0.5 millivolts), phono 0.25 volts. HUM and NOISE: Fundamental —78 db, microphone —58 db, phono —70 db. OUTPUT IMPEDANCE: 4, 8, 16 ohms, 70 volt line. INPUT IMPEDANCE: High impedance 0.5 megohms. POWER CONSUMPTION: 115 watts at 110-125 volts AC, 60 cps. Employs 6 tubes plus 1 silicon rectifier. DIMENSIONS: 17⅛" W, 11⅛" D, 6¼" H. SHIPPING WT. 24 lbs.

## FANON-MASCO 70 WATT High Power P. A. AMPLIFIER



No. AM-207 — $104.95 — $10 MONTHLY

MODEL 3370. POWER OUTPUT: (Rated): 70 watts at less than 5% distortion. PEAK POWER OUTPUT (Music Wave-Form Rating): 100 watts. FREQUENCY: 70 to 20,000 cps, 3 db down. INPUTS: 4 MICROPHONE, 2 phono (fader control). 1 microphone input convertible for phono magnetic cartridge. GAIN: 130 db microphone, 95 db phono. INPUT SENSITIVITY: Microphone 4 millivolts (magnetic low impedance 0.5 millivolts), phono 0.3 volts. HUM and NOISE: Fundamental —75 db, microphone —58 db, phono —70 db. OUTPUT IMPEDANCE: 4, 8, 16 ohms, 70 volt line. INPUT IMPEDANCE: High impedance 0.5 megohms. POWER CONSUMPTION: 200 watts at 110-125 volts AC, 60 cps. Employs 8 tubes plus 1 silicon rectifier. DIMENSIONS: 16" x 11⅛" x 6¾". SHIPPING WEIGHT 40 lbs.

## 70 VOLT LINE TRANSFORMER FOR ABOVE AMPLIFIERS

Primary: 2½ to 10 watts. Secondary: 3.2 & 8 ohms. 2" x 1½" Mtg. Ctrs. 2⅜". Use one line transformer with each speaker. Shipping weight ½ lb. Made in U.S.A.

**$1.71** — No. T-110 — 3 for $4.50 — Lots of 12, Ea. $1.25

# "DO-IT-YOURSELF P.A." Schools, Churchs, Clubs

Fanon-Masco, Electro-Voice

## 20 Watt P. A. System

★ Indoor and Outdoor Use



No. AS-726 — Save $23.77 — $101 — $7 Monthly

HERE'S WHAT YOU GET:

| | |
|---|---|
| 1—AM-206 20 Watt Amp. (above) | $59.95 |
| 2—S-175 Electro-Voice Speakers (above) | 42.92 |
| 1—M-138 Electro-Voice Mike (Pg. 15) | 15.58 |
| 2—T-110 Line Transformers | 3.42 |
| 1—W-318 100 Ft. Speaker Cable | 2.59 |
| 1—X-317 Microphone Connector | .31 |
| ★ TOTAL REGULAR CATALOG PRICE | $124.77 |

Fanon-Masco, Electro-Voice

## 35 Watt P. A. System

SAVE $49.15



No. AS-823 — $155 — $10 MONTHLY

HERE'S WHAT YOU GET:

| | |
|---|---|
| 1—AM-200 35 Watt Amp. (above) | $71.95 |
| 3—S-175 Electro-Voice Speakers (above) | 64.38 |
| 1—M-140 Electro-Voice Mike (Pg. 15) | 49.98 |
| 1—M-94 Floor Mike Stand (Pg. 15) | 7.91 |
| 3—T-110 Line Transformers | 5.13 |
| 1—W-317 250 ft. Speaker Cable | 4.49 |
| 1—X-317 Microphone Connector | .31 |
| CATALOG PRICE ★ TOTAL REGULAR | $204.15 |

Fanon-Masco, Electro-Voice, Racon

## 70 Watt P. A. System

SAVE $47.08



No. AS-728 — $253 — $15 MONTHLY

HERE'S WHAT YOU GET:

| | |
|---|---|
| 1—AM-207 70 Watt amp. (above) | $104.95 |
| 4—S-486 Racon Horns (right) | 65.80 |
| 4—S-487 Racon Drivers (right) | 59.80 |
| 1—M-140 Electro-Voice Mike (Pg. 15) | 49.98 |
| 4—T-110 Line Transformers | 6.84 |
| 1—M-94 Floor Mike Stand (Pg. 15) | 7.91 |
| 1—W-317 250 ft. Speaker Cable | 4.49 |
| 1—X-317 Microphone Connector | .31 |
| ★ TOTAL REGULAR CATALOG PRICE | $300.08 |

Fanon-Masco, Electro-Voice, Olson

## 20 Watt P.A. System

SAVE $23.27



No. AS-777 — $94 — $10 MONTHLY

HERE'S WHAT YOU GET:

| | |
|---|---|
| 1—AM-206 20 Watt Amp. (above) | $59.95 |
| 4—S-409 8" Speaker, Baffle (Pg. 12) | 32.00 |
| 1—M-138 Electro-Voice Mike (Pg. 15) | 15.58 |
| 4—T-110 Line Transformers | 6.84 |
| 1—W-318 100 Ft. Speaker Cable | 2.59 |
| 1—X-317 Microphone Connector | .31 |
| TOTAL REGULAR CATALOG PRICE | $117.27 |

Fanon-Masco, Electro-Voice, Olson

## 35 Watt P.A. System

SAVE $37.48



No. AS-824 — $136 — $8 MONTHLY

HERE'S WHAT YOU GET:

| | |
|---|---|
| 1—AM-200 35 Watt Amp. (above) | $71.95 |
| 4—S-409 8" Speaker, Baffle (Pg. 12) | 32.00 |
| 1—M-140 Electro-Voice Mike (Pg. 15) | 49.98 |
| 1—M-94 Floor Mike Stand (Pg. 15) | 7.91 |
| 4—T-110 Line Transformers | 6.84 |
| 1—W-317 250 Ft. Speaker Cable | 4.49 |
| 1—X-317 Microphone Connector | .31 |
| TOTAL REGULAR CATALOG PRICE | $173.48 |

Fanon-Masco, Electro-Voice, Olson

## 70 Watt P.A. System

SAVE $45.32



No. AS-779 — $200 — $13 MONTHLY

HERE'S WHAT YOU GET:

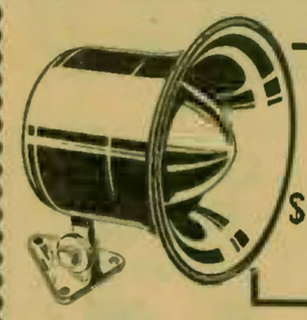
| | |
|---|---|
| 1—AM-207 70 Watt amp. (above) | $104.95 |
| 8—S-409 8" Speaker, Baffle (Pg. 12) | 64.00 |
| 1—M-140 Electro-Voice Mike (Pg. 15) | 49.98 |
| 8—T-110 Line Transformers | 13.68 |
| 1—M-94 Floor Mike Stand (Pg. 15) | 7.91 |
| 1—W-317 250 Ft. Speaker Cable | 4.49 |
| 1—X-317 Microphone Connector | .31 |
| TOTAL REGULAR CATALOG PRICE | $245.32 |

# PAGING & TALK-BACK SPEAKERS

## University

MM-2L50

★ 50 Watts (Peak 100 Watts)



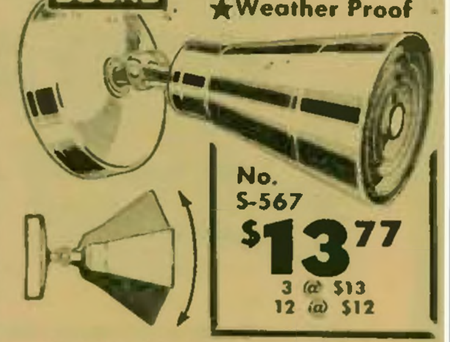
No. S-542 — ONLY $19.99

University No. MM-2L50, "submergence-proof" speaker performs beyond the normal requirements of commercial and industrial speakers. Good for speech, music, or specialized applications where high power handling capacity is required. Frequency response: 250-10,000 CPS. Dispersion: 120°. Impedance: 16 ohms. Size: 6¹³⁄₁₆" x 6⅞". Shipping weight 7 lbs.

ATLAS SOUND

MADE IN U.S.A.

★ Decorator Styled
★ Universal Mount
★ Weather Proof



No. S-567 — $13.77 — 3 @ $13 — 12 @ $12

Styled to blend tastefully with today's most modern furnishings. Ideal for any location where appearance is a critical factor, such as churches, conference halls, restaurants and similar surroundings. This speaker is equipped with a driver type reproducer unit for high efficiency, directivity and intelligibility. Response: 350 to 13,000 cps. Power capacity 7.5 watts. Size: 6½" bell dia. x 14" long. Shipping weight 4 lbs.

Olson

## Trumpet SPEAKER

★ Outdoor/Indoor Use

5 WATTS



Adjust to Any Angle

No. S-453 — $6.95 — 3 for $20

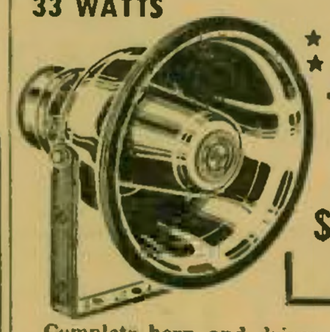
Clear even coverage of outdoor play and work areas can be had with clusters of these small, but efficient, trumpet-type speakers. Response: 400-8,000 CPS. Perfect for the patio, in plants, outdoor recreation areas, carnivals, motels, etc. 8 ohms. Size: 5¼" dia. x 5" deep. Shipping weight 4 lbs.

Cable for Above Speaker, See Page 23

Electro-Voice Model 8

## PAGING SPEAKE

33 WATTS



★ 90° Dispers
★ Made in U.

No. S-175 — $21.46

Complete horn and driver unit for g eral purpose paging and talk-back. Wea erproof construction. Response 250-13, cps. Complete with tropicalized herm cally sealed driver unit and mount bracket. Size: 9⅞" dia. x 8-13/16" de 8 ohm impedance. Shipping weight 9

R. W. Milkelsen, 1027 N. 3rd., Miles C Mont., wins choice of merchandise worth from Olson's "Treasure Hunt." See b cover for instructions.

RACON

## 25 Watt P.A. & Paging Speak

★ Weather-Proof Terminal Block



Made In U.S.A

No. S-482 — $15.95 — 2 for $30 — Compare at $34.50

Complete with driver, univer mounting brackets, unibody constr tion, Fideliflare design and buil terminal blocks with transparent e ers. Speaker mechanism fully closed in all-cast housing. High p er for P.A. Superb speech efficie 25 watt continuous: 50 watt pe Response 250-13,000 CPS. Voice impedance; 8 ohm. Length diameter 16". Shipping weight 7

RACON

## SPEECH & MUSI



No. S-486 — $16.45 — 2 for $32.00

● 3½ ft. Reentrant air column

True wide range reproduction of spe and music. Overall length 15", diam 21". Supplied less driver. Shpg. wt. 12

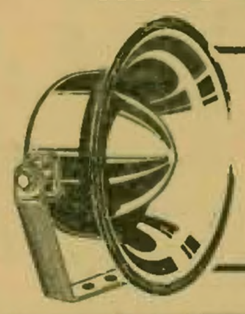
30 Watt Driver ● Model DA-30

For above speaker. Resp. 75-7500 C 16 ohms. Shipping weight 7 lbs.

No. S-487, 2 for $29.00 ..... Ea. $1

## HI-FI MUSIC P. A. SPEAKERS

RACON

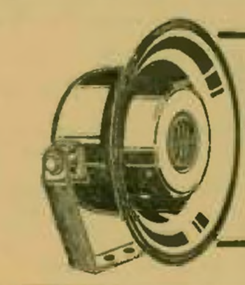


No. S-488 — $19.95 — 2 for $39

★ 95-8000 CPS ★ 15 Watts Pov

Low cost, but high in efficiency realism. Single wide range speaker 120° dispersion. Combination of horn housing produces excellent sound. 8 o impedance. Size: 8¼" overall length, meter 16". Shipping weight 15 lbs.

RACON



No. S-484 — $37.75 — 2 for $74

★ 60-11,000 CPS ★ 30 Watts Pov
★ Fully weather-proof

In this excellent music coaxial reproer, with 120 degrees dispersion, an woofer handles lows down to 60 C. Separate cone tweeter gives clean, sm high frequencies. 8 ohms impedance. S Length 12⅝", diameter 21½". Shipp weight 21 lbs.

FANON-MASCO

## 27 Watt Transistorized MOBILE P. A. AMPLIFI



No. AM-208 — $62.95 — $7 MONTHLY

Model 3527

Latest transistorized circuit sign employs 2-2N408 and 3-2N transistors. Compact size (6¾" 3⅝" H, 4⅝" D) for auto dash glove compartment mounting. ideal for boats, camps, etc. Ha some black and satin chrome fin Operates on 12 volts DC. POW OUTPUT: 27 watts. RESPONSE: 150 cycles to 10 KC. INPUTS: 1 microphone, 1 phone, 1 radio. GAIN: 110 db microphone, phono 70 db. HUM and NOISE: 70 below full output. OUTPUT IMPEDANCE: 4, 8, 16 ohms. INPUT IMPEDANCE: Mi phone 2,000 ohms (aux.), 50 K. ohms, radio 3.2 —16 ohms. CONTROLS: Microph radio or phono, tone control, power on-off switch, radio—aux. selector switch. With b tery cable and clamps. Shipping weight 7 lbs.

MICROPHONE CONNECTOR, NO X-899 ..... EA.

FANON-MASCO

## 4-SPEED PHONO



No. RP-241 — $26.95

★ Heavy Duty Motor

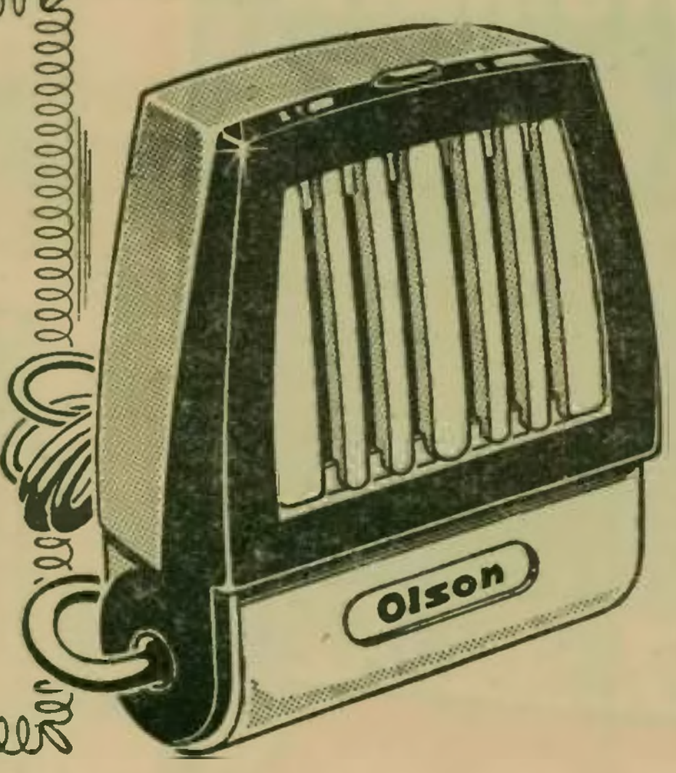
Designed to fit the top of all Masco amplifiers at left or may be separately. Easily mounted with thumb screws. Heavy duty motor all four speeds: 16, 33⅓, 45 and 78 Ceramic cartridge with dual sapp stylli. Size: 12" x 9¼" x 4½". For 110 volts AC 60 cps. Shipping wt. 11

**4-SPEED MOBILE PHONO** for use with mobile amp. above. 12 volt DC motor. Turnover cartridge. Size: 12" x 9" x 4½". Shipping weight 11 lbs.

No. RP-242 $34.50

## GUARANTEED OR MONEY BACK

. . . if for ANY reason you are not 100% satisfied with the outstanding performance and excellent craftsmanship of this Crystal Microphone, return it with your order papers or sales slip within six months from date of purchase, to the Olson outlet from which the sale originated (Mail Order or Store) and your $2.99 will be refunded with NO QUESTIONS ASKED!




# Olson CRYSTAL MICROPHONE

• Crafted in ENGLAND by Unhurried Hands

This high-output microphone is as handsomely styled as it is functional. Case is made of two-tone, hi-impact plastic and is guaranteed not to break, chip or crack. Three way stand folds around the microphone body permitting it to fit neatly into the palm of your hand. Equipped with an eight foot shielded cable which is finished in neutral grey. Ideal for tape recorder, PA, CB, or Amateur applications. Output—50db. Response 40—6,000 cps. Use two for stereo Shipping weight ½ lb.

No. M-163

**$2.99**

**3-WAY MICROPHONE**




## New! HI-LO Dual Impedance DYNAMIC MICROPHONE

★ 25 FOOT CABLE INCLUDED



No. M-164

$12.98 3 for $37

For recording and P.A. applications requiring long mike cables. Cable can be extended to 100 ft. or more with no signal loss. An impedance matching transformer (not included) is required for matching into hi-impedance inputs when mike is wired for low impedance operation. Microphone has cardiod pick-up pattern. Standard ⅝"-27-thread. Response: 50-10,000 CPS. Output—55 db. Impedance: 50k ohms and 600 ohms. 5¾" x 2½". Shpg. wt. 3 lbs.

## GUITAR MIKE




ONLY **$6.95** No. M-161

Specially designed for guitars. Mounts under strings without tools or attachments. High impedance. Matches any amplifier. Has tone and volume controls. Unit slides up and down easily to create different tonal effects. Fits round hole opening. With 8 ft. plug-in cable. Shpg. wt 3 lbs.

MIKE CABLE, 22 ft., No. W-362 ..... 99c

¼" Phone Plugs, No. AS-477, Kit of 2 ..... 99c

## BOGEN Portapodium Portable P. A. System

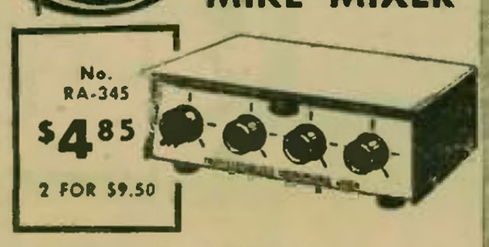



★ Mfr. 1962 Net Price $249.95
★ Built-In FM Tuner

No. RA-559 **$121**

The most versatile and useful PA system available. Ideal for lectures, training courses, demonstrations, etc. Features built-in super-sensitive FM tuner and finger tip control of volume and tone. Has vibration-free, heavy duty speaker. The microphone fits into an adjustable stand or can be lifted out of the holder for moving about. The whole system packs into one compact portable carrying case. 110-125 volts A.C. Size: 19½" x 17¾" x 16½". Shipping weight 40 lbs.

## TRANSISTORIZED MIKE MIXER



No. RA-345 **$4.85**

2 FOR $9.50

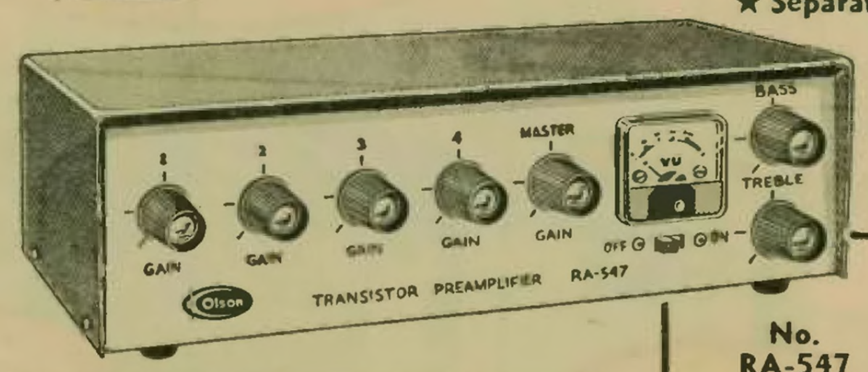
★ 4 CHANNELS

Controls one to four signals from high impedance sources. Allows user to increase the volume of any channel while fading or holding the other channels. All four inputs have standard ¼" phone jacks. Output terminates in RCA type phono jack. Operates on single 9 volt battery (less battery). Size 6" W x 2¼" H x 3½" D. Shipping weight 5 lbs.

BATTERY (1 reqd.) No. BA-89 Ea. 21c

## Olson 4-Channel PREAMP MIXER

★ Separate Bass & Treble Controls
★ 7 Transistor Circuit
★ High Gain, Low Noise
★ Built-In VU Meter
★ 65 db. Gain ★




No. RA-547 **$34.98**

A highly versatile, extremely well designed mixer-preamplifier for use in public address system, tape recording and similar applications. Not to be confused with low priced mixers, Olson RA-547 is a mixer and preamplifier. Featuring 65 db. gain and extremely low noise level. The unit may be used for several combinations of high level and microphone mixing, since each channel can be individually switched for either use. The excellent signal to noise ratio of this unit makes it ideal for remote professional recording. Size: 3¾" H x 11⅞" W x 5¼" D. Operates on six pen-light batteries (Included). All metal case. Shipping weight 5 lbs.

BATTERIES (6 required) No. BA-67 ..... 8 for 59c

### STEREO MONO Preamp Mixer

Same excellent features as above with added advantage of 2 channel stereo mixing separate outputs for each channel. This unit can also be used for mono application with just a flip of a switch. Features 9 transistors for high gain and low noise. Shipping weight 6 lbs.

No. RA-548 ..... **$39.98**

BATTERIES (6 req'd.) No. BA-67 ..... 8 for 59c

Milo Taber, Box 632, Elko, Nev., wins choice of merchandise worth $5 from Olson's "Treasure Hunt". See back cover for instructions.

## Crystal Mike



No. M-105 **$3.66**

3 for $10.50

High impedance; response 100 to 8,000 cps. Ideal for PA or communications use. Output —56 DB. Finished in an attractive baked green enamel with chrome-plated front. Overall size: 2½" dia. x 4¼" long. Standard ⅝"-27 thread for mike stand with 5 ft. shielded cable. Shpg. wt. 2 lbs.

MIKE CABLE, 22 ft., No. W-362 ..... 99c

¼" Phone Plugs, No. AS-477, Kit of 2 ..... 99c

## NEW! SLIM Crystal MIKE

• Includes mike stand



No. M-145 **$3.88**

3 for $11.50

With built-in On-Off switch for tape recording, P.A., etc. Satin chrome finish. All directional, high impedance. Uniform response 50 to 8500 cps. Output level —57 DB. With desk stand, lavalier cord and 6 ft. shielded cable. Shipping wt. 2 lbs.

MIKE CABLE, 22 ft., No. W-362 ..... 99c

¼" Phone Plugs, No. AS-477, Kit of 2 ..... 99c

## FLOOR Mike Stand



**$7.91** No. M-94

3 for $23.00

Chrome finish, 51 inches extended, 22 inches collapsed. Cast iron base in grey wrinkle finish ⅝"x27 thread. Shpg. wt. 9 lbs.

## DESK STAND



**$1.97** No. M-95

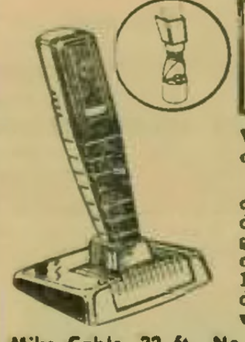
3 for $5.00

6" high, standard thread. Shpg. wt. 2 lbs.

## Electro-Voice MICROPHONES

### Electro-Voice Model 729SR

Cardioid CERAMIC MIKE



No. M-138 **$15.58**

With push-to-talk on-off switch.

Response 60-8000 cps. High impedance. Two tone gray finish. 10' cable. 8¼" high x 1½" wide x 1⅝" deep. Shipping weight 3 lbs.

Mike Cable 22 ft., No. W-362 ..... 99c

Microphone Connector, No. X-317 ..... Ea. 31c

### Electro-Voice Model 664

Cardioid DYNAMIC MIKE



No. M-140 **$49.98**

Response from 40-15,000 cps. Can be used with high or low impedance inputs. Low wind noise pickup means better outdoor sound. Output—55 db. Chrome finish. 15' cable. 7½" long x 1⅞" diameter. Shipping weight 5 lbs.

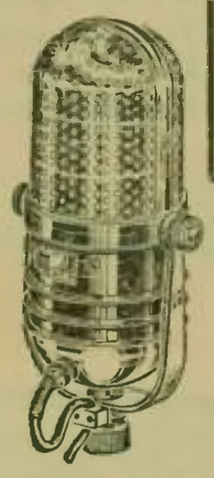
¼" Phone Plugs, No. AS-477, Kit of 2 99c

Mike Cable 22 ft., No. W-362 ..... 99c

Microphone Connector, No. X-317, Ea. 31c

## CRYSTAL MIKE

★ With Series Parallel Switch
★ Broadcast Type



No. M-102 **$5.87**

3 for $17.50

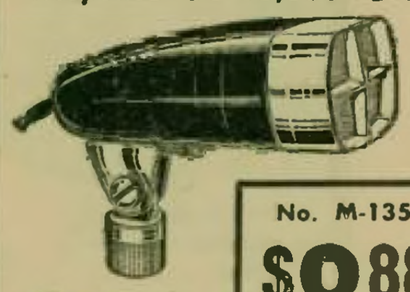
High impedance crystal mike for music, voice, recording, P.A. etc. Equalize by a flip of the switch that is built into front of mike. Response 40 to 8,000 cps. Output—50 DB Double crystal cartridges give non-directional response when vertical to shielded cable. Shipping weight 3 lbs.

MIKE CABLE, 22 ft., No. W-362 ..... 99c

¼" Phone Plugs, No. AS-477, Kit of 2 ..... 99c

## DYNAMIC MIKE

Response 50-10,000 CPS



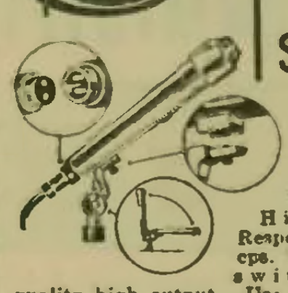
No. M-135 **$8.88**

3 for $25.50

All new dynamic mike. Use with tape recorder and P.A. system. Impedance 50,000 ohms. 6 foot shielded lead. Two-tone finish; black and cream. Size: 4¾" long, 1¼" square at mouth tapering to ⅞" square. Shipping weight ¾ lbs.

¼" Phone Plugs, No AS-477, Kit of 2 ..... 99c

## DYNAMIC MIKE



No. M-109 **$10.88**

3 for $31.50

High impedance. Response 60 - 11,000 cps. Built-in ON-OFF switch. Broadcast quality high output. Use with any standard ⅝"-27 thread floor or desk stand. Non-directional in vertical position or has cardioid pattern when tilted toward speaker. Grey hammertone with polished chrome fittings. Over-all size: 8x1¼" diameter. With 9 ft. mike cable. Shipping wt. 3 lbs.

Microphone Connector, X-317, ..... Ea. 31c

## LAPEL MIKE

★ Works On Any Amplifier
★ With 5 Ft. of Cable
★ Completely Portable



No. M-93 **$1.93**

3 for $5.50

High impedance crystal, ½" diameter. Output level —59 DB. Response: 50-7,000 cps. 5 ft. shielded cable. Shipping weight ½ lb.

## Crystal MIKE On-Off Switch



$2.95 No. M-153

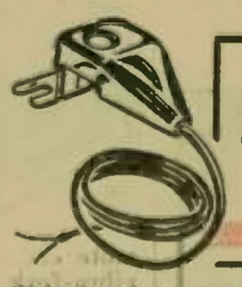
3 for $8.50

High impedance crystal microphone suitable for voice recording. P. A. and amateur communications. Response: 50 to 7500 CPS. Output: —50 DB. Push to talk switch located conveniently at top has spring. Contrasting good grille. With 5 ft. shielded cable. Shipping weight ½ lb.

MIKE CABLE, 22 ft., No. W-362 ..... 99c

¼" Phone Plugs, No. AS-477, Kit of 2 ..... 99c

## Contact MIKE



No. M-130 **$1.49** ea.

3 for $4.00

High impedance crystal contact mike with flexible 5' shielded lead. Can be connected to guitars, pianos, etc. For recordings or P.A. Also use as a detective mike. Shipping weight ½ lb.

MIKE CABLE, 22 ft No. W-362 ..... 99c

¼" Phone Plugs, No. AS-477, Kit of 2 ..... 99c

## MIKE Cartridges

★ Crystal Type



Response 60 to 7,000 CPS. Output —55 db. Size: 2" dia. x½". Shpg. wt. ½ lb.

No. M-99, 3 for $5.00 ..... Ea. **1.99**

As above but 1½" dia. x 1½" thick. Shipping weight ¼ lb.

No. M-134 3 for $3.00 Ea. **1.19**

## MICROPHONE CONNECTOR



No. X-317

**31¢**

4 for $1.00

Standard ⅝-27 thread
Shipping weight ¼ lb.

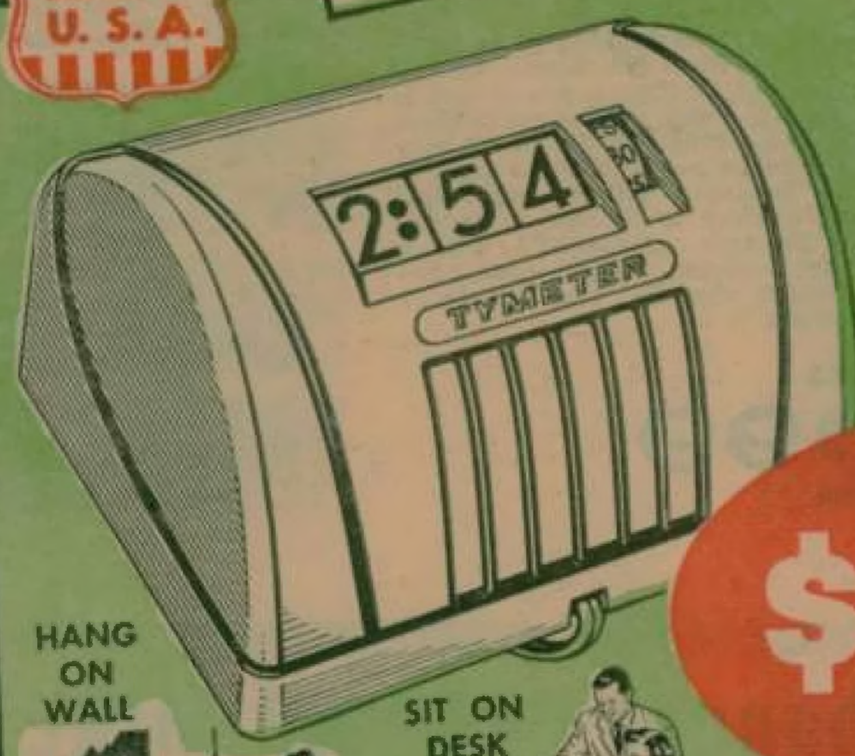
### ABOUT OUR PRICES

Your order is shipped at the current price. Prices in this catalog replace prices in all previous Olson catalogs and are subject to change without notice. Orders are filled at the price in effect at time of shipment.

YOU BENEFIT FROM ANY PRICE REDUCTION. If prices are lowered during the life of this catalog you get the advantage of the lower price. We reduce the cost accordingly and send you a refund at the time we make the shipment.

# Genuine TYMETER Automatic CLOCKS

MADE IN U.S.A.




★ Automatic Time Teller

★ "Split-Second Time At a Glance"

The Tymeter is a fully automatic, self-starting clock with 4 revolving wheels that tell time directly in numbers. Dials tell you hour, ten minute, minute and second. No chance for error. Your choice of style to match any decor. Perfect for radio amateur ham shack, office, desk, kitchen, etc. U.L. approved motor and cord. For 110-125 volts AC, 60 cps. Shipping weight 5 lbs.

Mfr. 1963 List Price ... ~~$10.95~~

**$4.99** No. EA-73

PLUS 50c F.E.T.

HANG ON WALL



SIT ON DESK






The "Topper" TYMETER Automatic CLOCK

**$5.99**

PLUS 60c F.E.T.

Handsome Deluxe Model! Self-starting, fully automatic. Dials tell hour, ten minute, minute and second. For 110-125 volts AC, 60 cps. Ship. wt. 5 lbs.

| | |
|---|---|
| Walnut | No. EA-72 |
| Ebony | No. EA-76 |
| Ivory | No. EA-77 |




The "Starlet" TYMETER Automatic CLOCK

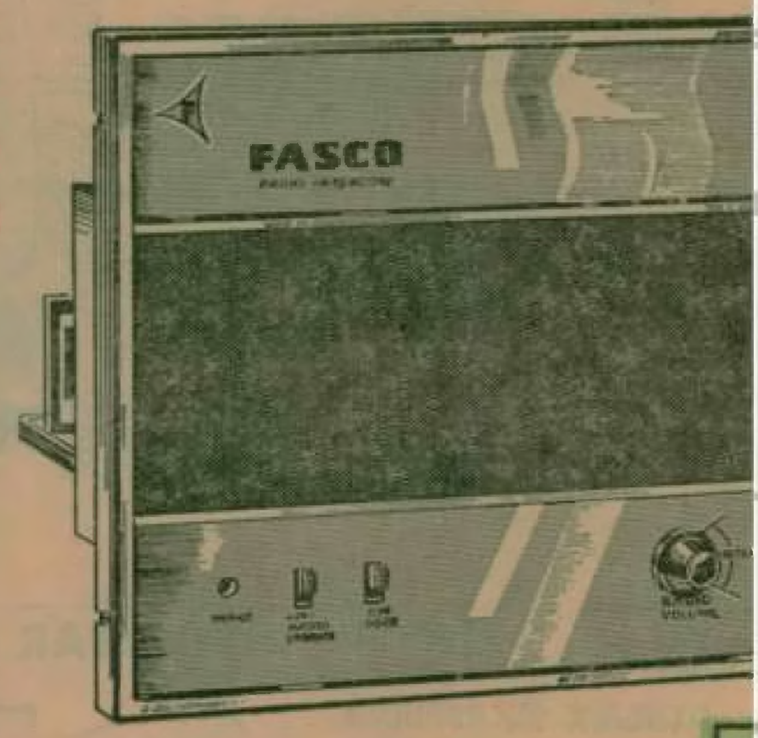
**$7.99**

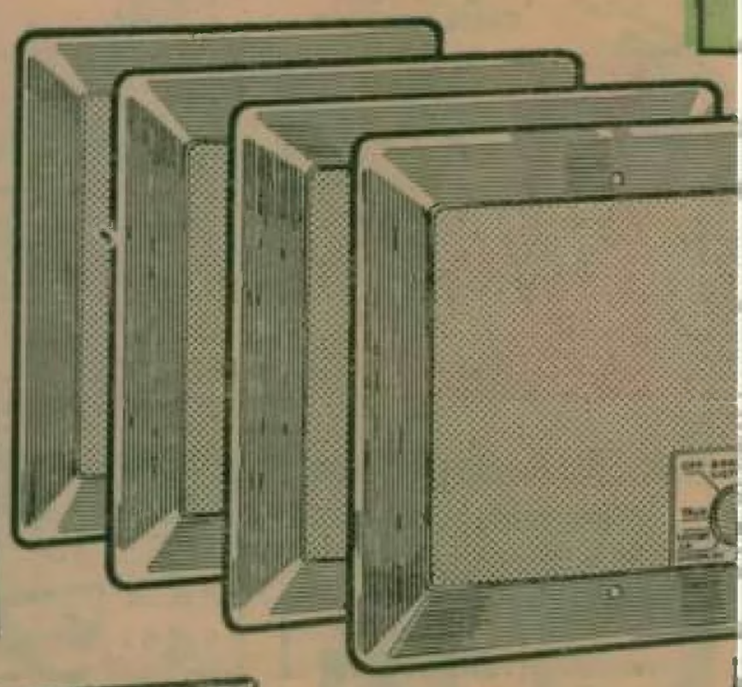
PLUS 80c F.E.T.

Beautiful Super Deluxe Model! Automatic and self-starting. Dials tell hour, ten minute, minute and second. For 110-125 volts AC, 60 cps. Shipping weight 5 lbs.

| | |
|---|---|
| Walnut | No. EA-71 |
| Ebony | No. EA-74 |
| Ivory | No. EA-75 |

# FASCO





4 INDOOR REMOTE STA

DOOR REMOTE STA



- AM-FM programs throughout the house and ou
- Talk from any room to any other room in your h
- Listen to any room from any other room in your
- Identify whoever is at the door before opening i

# STEREO Console Cabinet



★ WILL ACCOMMODATE AN ENTIRE STEREO SYSTEM

Was $59.95 in Cat. 263

**$27**

No. CA-269
MAHOGANY

Elegance, magnificently expressed, is yours when you own this strikingly beautiful console cabinet. Expertly finished in beautifully grained hardwood veneer for lasting beauty. This fine cabinet will accommodate an entire stereo system or you can use it as a center unit with extension speakers. Handsome styling with off-center lid, complements the furnishings of any room. Outside dimensions are: 46" wide x 29" high (including legs) x 15½" deep. Changer compartment is 18" wide x 11¼" deep x 5" high. Tuner-amplifier panel measures 8" x 12¼". Speaker boards are pre-cut, for 10" speakers, with mounting studs installed. Shpg. wt. 54 lbs.

Thompson High School, F. Peterson, Supt., Thompson, Iowa, wins choice of merchandise worth $5 from Olson's "Treasure Hunt." See back cover for instructions.

harman kardon

MX-909 MULTIPLEX ADAPTER



No. RA-592

**$5.99**

Mfg. List Price $39.95

★ Complete with Tubes & Instructions
★ Completely Assembled

Built and inspected by Harmon Kardon technicians and engineers to meet the most exacting specifications. Originally designed to fit their finest FM tuners, models F-500, ST-340 and ST-340A. Now you can buy this high quality adapter from Olson at a fraction of its original price. This unit is completely assembled and includes tubes, schematic diagram and operating instructions. With a minimum of effort you can convert the adapter to fit your FM tuner and begin enjoying full-fidelity FM stereo broadcasts. Size: 10¾" x 3" x 3½". Shipping weight 3½ lbs.

PENTRON Humi-Zon HUMIDIFIER



**$9** Mfr's. 1961 List $29.95

No. X-917

This Pentron HUMI-ZON is a precision instrument designed to raise the humidity in a room to the healthful level of 40% relative humidity; and to keep it at that level automatically. The HUMI-ZON also circulates air in the room through a special filter which removes most dust, dirt, pollen and other air born impurities. To use, simply fill reservoir with ordinary tap water, plug into 110-120 volts AC line and begin enjoying the healthful benefits of the HUMI-ZON humidifier now. Handsomely styled in two-tone vinyl with aluminum front panel. Size: 6½" h x 15" w x 7½" d. Shipping weight 10 lbs.

Olson 5 Pack TUBE KIT

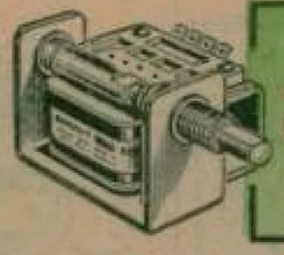
BRAND NEW!




No. AS-533 **$2** PER KIT

Each kit contains 5 tubes—1 each as listed: 35W4, 50C5, 12BA6, 12AV6, 12BE6. Most common types for AC-DC home radios. Shipping weight ¾ lb.

WURLITZER RESONANT REED RELAY



No. RE-83

**$9.95**

★ Ideal for CB Selective Call System

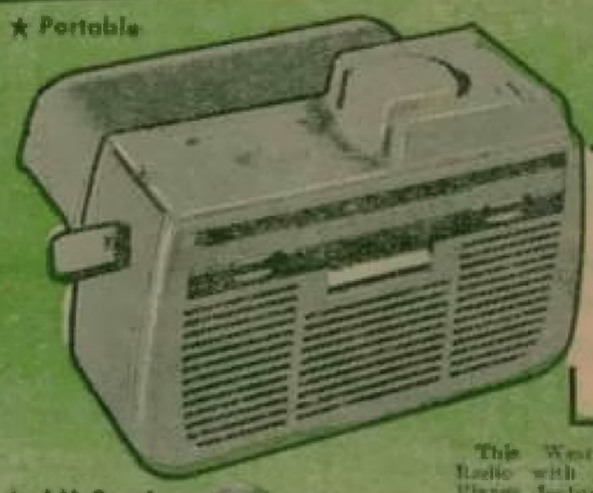
**6 Channel**

The most reliable relay of its type. Ideal for CB selective calling systems, remote control of models and garage door openers. The vibra-fork relay is used to generate the frequency as well as detect it. Duration of contact closed-time 5% to 20%. Response time approx. 75 mill. seconds. Contact rating: 100 ma. @ 48 V. DC, 15 ma. @ 100 V. DC or 1 ma. @ 150 V. DC. Reed frequencies: 208.8, 313.0, 349.0 and 389.0 cps. Shipping weight 1 lb.

SALE

Westrex Transistorized 2-Band Radio WITH TAPE PLAYER

★ Portable



Reg. $40

**$25**

No. RA-556

★ AM Band
★ Marine Band
★ Tape Player



Magazine loading tape cartridge just drops in to play—no reels to handle—no threading—no rewinding. Easier to handle than a record. Insertion of tape cartridge into player is simple and absolutely foolproof.

This Westrex powerful 2 Radio with unique portable Player features push-button tion and makes band selectio and positive. Radio circu tape player functions entir battery power. Operates on and 6 volt lantern battery ( cluded). Low drain transist unit. Has built-in jacks for and external speaker. Marine 156 KC to 200 KC, AM band 530-1600 KC. Size: 12" x 9" Shipping weight 14 lbs.

Battery (1 req'd.) No. BA-92

FM-AM, Short Wave, Tape Player, No. RA-557, 540 to 242 Cen., NOW

# FM-AM RADIO INTERCOM SYSTEM

MODEL 8406



**ALL STATIONS CAN INITIATE A CALL**

- ✱Phono Jack
- ✱Auto Station Control
- ✱Wire Included

STER STATION

**No. AS-832**

## COMPLETE SYSTEM

**$99.99**

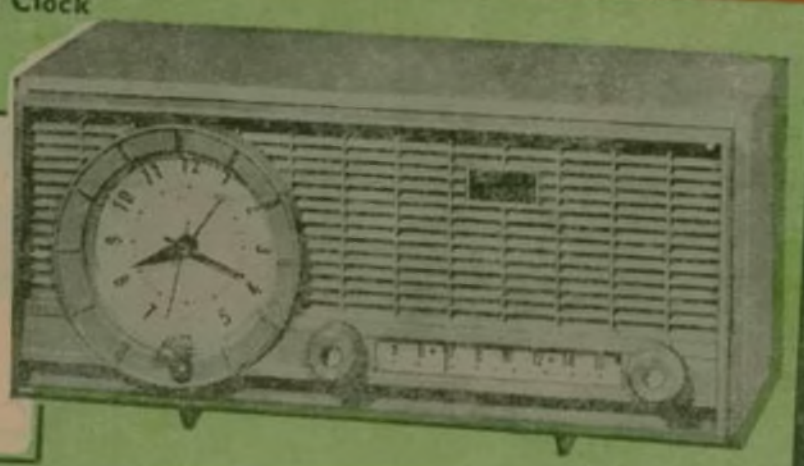
Lots of 3, ea. $91.85

Designed to save time and energy. This custom crafted radio-intercom is as beautiful as it is functional. Master station panel is finished in brushed copper to blend with any decor. You can answer the door, check up on the baby, listen to your favorite records or radio program and never leave your work area. Complete system includes 1—master station with FM-AM radio and phono jack, 4—indoor remote stations with selector switches and one door remote station plus all hardware, wire and complete instructions. Master can call all remotes or play radio or phono through remotes. Remotes can call master or other remotes and can also answer door remote. Each remote is equipped with a hi-lo volume and selector switch. Radio features vernier tuning dial for easy tuning. All wiring is color coded and requires no soldering. Exclusive "Automatic Station Control" eliminates the complicated switching arrangements found on most radio intercoms. Remote stations may be operated as private or non-private units depending upon the setting of the selector switch. Size: Master, 15⅝"x10⅛". Indoor remotes: 8"x8"x1½". Outdoor remote 6"x4"x1½". For 110-125 v. AC. Shipping weight 20 lbs.

# TRAVLER Deluxe CLOCK RADIO

★ Telechron Self-starting Clock

★ Slide Rule Dial



**No. RA-597**

**$14.99 ★**

Powerful station-getter with advanced type superheterodyne circuit providing unmatched performance. Fine tone quality from heavy-duty Alnico V PM speaker. Automatic volume control insures steady clear sound—eliminates fading and blasting. Built-in precision loop antenna picks-up stations strong and clear. Slide rule vernier dial provides easy tuning. Deluxe Telechron self-starting clock has sweep second hand and large easy to read numerals. Luminous hands glow in the dark. Timer automatically turns radio on or off at preset time, has convenient "on-off" switch. Beautiful slim-line styled cabinet of high impact plastic. Size 5⅝" H x 12¾" W x 6" D. 110-125 volts AC 60 cps. Shipping weight 10 lbs.

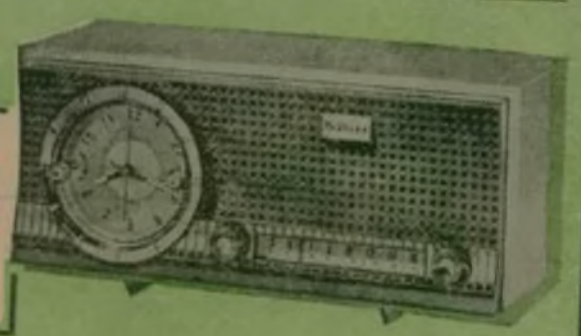
Feldman Elec., Howard Feldman, P.O. 244, W. Salem, Ill., wins choice of merchandise worth $5 from Olson's "Treasure Hunt". See back cover for instructions.

# TRAVLER Custom Deluxe CLOCK RADIO

★ Telechron Clock

★ Appliance Timer

★ Sleep-switch



**No. RA-598**

**$17.99 ★**

This Custom clock radio features smart gold trim to accent the already beautiful slim line styled cabinet. Renowned Telechron self-starting electric clock operates continuously and independently of the radio. Timer is complete with buzzer alarm, automatic "on-off" switch, sleep switch, luminous hands and 1200 watt appliance outlet. Full featured clock-radio rings, sings, or operates your appliance—also lulls you to sleep at slumber time and starts the coffee perking in the morning. Powerful superheterodyne circuit with automtic volume control insures steady clear sound. Size: 5⅝" H x 12¾" W x 6" D. 110-125 volts AC 60 cps. Shipping weight 10 lbs.

★ WEATHER PROOF

★ DECORATOR STYLED



★ UNIVERSAL MOUNT



Olson

## Paging & Talk Back SPEAKER

**No. S-565**

**$12.98**

2 for $25

Styled to blend tastefully with today's most modern furnishings. Ideal for any location where appearance is a critical factor, such as churches, conference halls, restaurants and similar surroundings. This speaker is equipped with a driver type reproducer unit for high efficiency, directivity and intelligibility. Response: 300 to 10,000 cps. Space is provided under the base of the speaker to house a line matching transformer if one is used. The base is designed to facilitate mounting to the standard 4" utility box or electrical lamp offset crossbar. Power rating 15 watt. Impedance: 8 ohms. Size: 6⅛" diameter x 15" long. Shipping weight 5 lbs.



Reg. $20

**$15**

No. RA-555

*Westrex* Transistorized

## TAPE PLAYER

Same fine features as RA-555 but less radio—it's a tape player only. With transistorized push-pull amplifier and wide range speaker for true hi-fidelity reproduction of your favorite pre-recorded music. Operates on batteries. Size: 12"x8"x4½". Shpg. wt. 11 lbs.

Battery (1 req'd.) No. BA-92 ..... $1.19

**NEW! *Westrex* PRE-RECORDED TAPE**

20 MINUTE TAPES — ONE HOUR TAPES



YOUR CHOICE **$2** Shpg. wt. ¼ lb.

YOUR CHOICE **$4.50** Shpg. wt. ½ lb.

-55 CREW CUTS: Old Mill Stream, d Long Syne, Auld Lee, That Old s of Mine, Clementine, Silver r, others.

HELEN O'CONNELL: Embraceable , Brazil, Blue and Broken Hearted, rs.

SONS OF THE PIONEERS: One e Ride, Home In Vista, For Ennted Isle, others.

DOROTHY OLSON: Children's ngs. Barnyard Song, The Little Duck, utterfly, others.

-100 HIT PARADE: Tossin and Turnin', Bell Weevil Song, Stand By Me, others.

TA-101 DANCE FAVORITES: Fourteen medleys from "My Fair Lady," "Damn Yankees," others.

TA-102 LATIN MELODIES: Lisbon Antigua, Brazil, Tico Tico, Guanto le Guanto, Perfidia, others.

TA-103 MOOD MUSIC: Selections from Rodgers, Porter, Blue Moon, Misty, Indian Summer, others.

TA-104 DANCE FAVORITES: The Lady is a Tramp, Apple Blossom Time, My Blue Heaven, others.

TA-105 TOPS IN POPS: Pretty Little Angel Eyes, I've Told Every Little Star, I'll Be There, others.

TA-106 LET'S DANCE: Blue Moon, Stormy Weather, Solitude, Stardust, Sleepin' in the Rain, others.

## STEREO Turnover CARTRIDGE



**No. PC-110**

**$1.89**

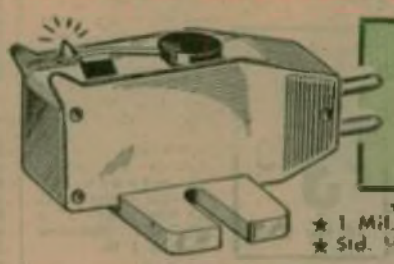
★ Universal Mounting

★ Dual Sapphire Styles

★ Made in England

A truly universal mounting, high fidelity stereo cartridge. This one high output cartridge will fill 85% of your replacement needs. Bracket has ½" mounting centers for most American changers plus in-line mounting holes for most imported changers. Flip-under stylus has 1 mil sapphire point on one side and 3 mil sapphire point on the other. Response: 40 to 10,000 cps. Output: 1 volt. Separation 12 DB. Tracking force: 6-8 grams. Size: 1½" long x ½" wide. Each cartridge is packaged in a sturdy aluminum container. Shipping weight ¼ lb.

## Monaural CRYSTAL CARTRIDGE



**No. PC-109**

**99¢**

★ MADE IN ENGLAND

★ 1 Mil. Sapphire Stylus

★ Std. ½" Mounting Centers

High output, high fidelity cartridge for replacement in changers and tone arms with ½" mounting centers. Features wide range frequency response and high output. Equipped with 1 mil. sapphire stylus for long life. Response 40 to 10,000 CPS. Output 1 volt. Tracking weight 6-8 grams. Shipping weight ¼ lb.

## GUARANTEED OR MONEY BACK

. . . if for any reason you are not 100% satisfied with the outstanding performance and excellent craftmanship of this Cartridge, return it with your order papers or sales slip within six months from date of purchase, to the Olson outlet from which the sale originated (Mail Order or Store) and your $1.29 will be refunded with NO QUESTIONS ASKED!



MONAURAL TURNOVER

## CARTRIDGE

3-5 Volts Output

MADE IN ENGLAND

No. PC-89

**$1.29**

Dual-sapphire cartridge with ½" mounting centers, and European inline mounting. This cartridge with its high output and low distortion, is an ideal replacement in almost any monaural phonograph, or European changer. Plays all four speeds. Response 30 to well above 4000 CPS. Complete with plug in type solder lugs. Shipping weight ¼ lb.

**MONAURAL TURNOVER CARTRIDGE**

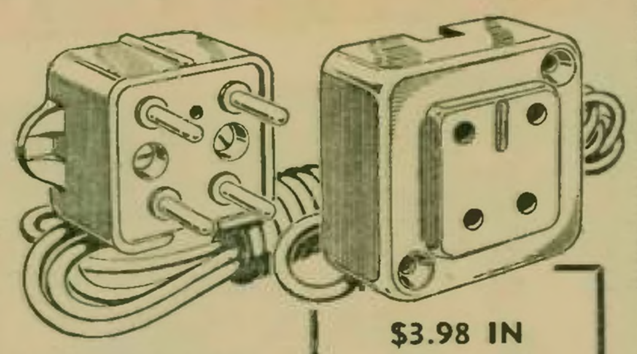
Same as above but with diamond-sapphire stylus.

No. PC-97, 2 for $4.00 ..... EA. $2.59

Dave Blanchard, 821 Merril, Manhattan, Kans., wins choice of merchandise worth $5 from Olson's "Treasure Hunt". See back cover for instructions.

# 30 Ft. Telephone EXTENSION CORD



★ WILL FIT ALL PHONES LISTED ON THIS PAGE

★ MOVE YOUR INTERCOM PHONE TO ANY ROOM IN THE HOUSE

New extension cord for your telephone intercom. 30 feet of flexible cord and standard 4 pin plug and socket. Cord is completely assembled and ready to plug-in. Shpg. wt. 3¼ lbs.

$3.98 IN CAT. 363

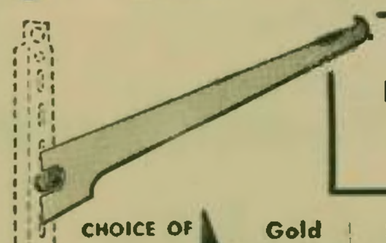
**$2.96 ★**

**No. W-442**

PHONE PLUG, No. PL-82 ..... Ea. $1.25
PHONE JACK, No. PL-81 ..... Ea. $1.40

# Custom SHELF ACCESSORIES

## 6 TO 12" BRACKETS



AS LOW AS **23¢ EA.**

Shpg. wt. ¼ lb. ea.

| CHOICE OF 3 FINISHES | Gold Stk. No. | Silver Stk. No. | Black Stk. No. | Shelf Widths | EACH |
|---|---|---|---|---|---|
| | HW-17 | HW-21 | HW-25 | 6" | .23 |
| | HW-18 | HW-22 | HW-26 | 8" | .26 |
| | HW-19 | HW-23 | HW-27 | 10" | .33 |
| | HW-20 | HW-24 | HW-28 | 12" | .36 |

Change blank walls into the most functional and attractive areas in your home. Easily installed—adjust shelf height in seconds—create an infinite number of designs. Brackets are adjustable at 1" intervals, locking nut tightens against strip. Strip standards 12" long, can be interlocked to make any length standard. Change and enlarge wall arrangements at any time. Slim standards are barely visible. Shelves have an airy, floating look.





**12" STRIP WALL STANDARDS**

◄ Interlock To Any Length

Gold, No. HW-29
Silver, No. HW-30
Black, No. HW-31

Shpg. wt. ¼ lb. ea.

**18¢ EACH**

GENERAL ELECTRIC

## RELAYS



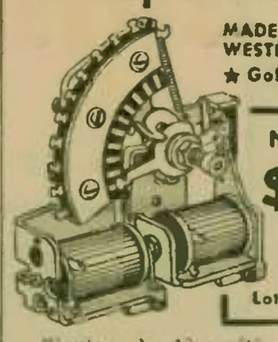
No. AS-579 **4 FOR 99¢**

Attention: Experimenters, servicemen, students! Hundreds of applications can be found for these first quality, brand name relays. Each kit contains 4 assorted relays, all are made by General Electric, DPDT, DPST, etc., switch contacts. New in original factory cartons. Coils are rated 6 or 12 volts DC. Size: 1½" x 2" x 2". Shipping weight 3 lbs.

## 10 Step & Reset RELAY

MADE IN U.S.A. BY WESTERN ELECTRIC

★ Gold Plated Contacts



**No. SW-209**

**$6.95**

3 for $19.50

Lots of 6, Ea. $6.00

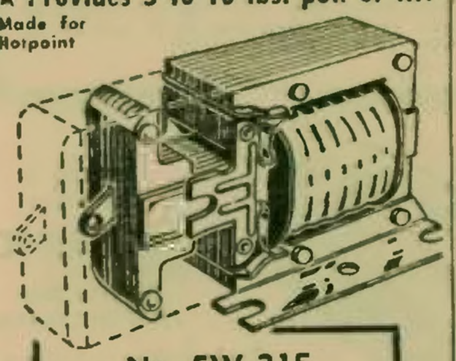
Single pole, 10 position switch contacts. Operates on 6 or 12 volts, D.C. voltage impulses move selector bar one step at a time up to 10. Separate reset coil releases selector bar to starting position. Size: 2½" x 4" x 1¾". Excellent for experimenters, technicians, students, etc. Used but tested and in good condition. Shpg. wt. 2 lbs.

115-VOLT A.C.

## SOLENOID

★ Provides 5 to 10 lbs. pull or lift

Made for Hotpoint



**No. SW-215**

**$1.49** 3 for $4

Lots of 12, Ea. $1.25

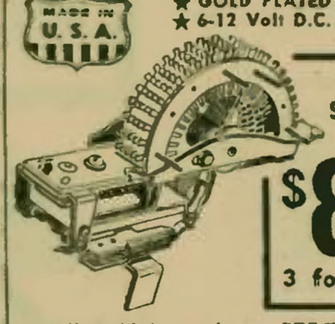
Will intermittently lift or pull weights. Just the thing for operating animated displays, hobby devices, and makes an excellent actuator for a remote power switch. Size only: 2⅛" x 1¾" x 2½". One inch armature travel is more than sufficient for any use. Shipping weight 2¼ lbs.

## 5 Level 22 STEP RELAY

Made by WESTERN ELECTRIC

★ GOLD PLATED CONTACTS
★ 6-12 Volt D.C. Relay

MADE IN U.S.A.



**No. SW-221**

**$8.45**

3 for $24.00

All bridging wipers SPDT interrupter switch. Used but tested, and in good condition. Size: 7½" x 5" x 2". Shipping weight 4 lbs.

## DPDT RELAY



★ 6 Volts D.C.

**No. SW-194 KIT OF 3 $1**

DPDT contacts. Threaded flanges for easy mounting. Ideal for electric trains and moving displays. Size: 1¾" x 1⅛" x 1". Shipping weight ¼ lb.





Sound Powered

## PHONES

★ No Batteries Required

**No. PH-53**

**$5.95**

2 for $10.50

Provides instant 2-way communication up to 25 miles. No batteries required — only two wires to connect! Complete with coil cord attached that extends to 6 feet. As many as 12 phones can be connected. Shipping weight 3 lbs.

**Wire for connecting phones (indoor, outdoor or underground use).**

No. W-398, Per 100' coil ..... $3.00

Telephone Operators

## HEADSET

★ IDEAL FOR CB



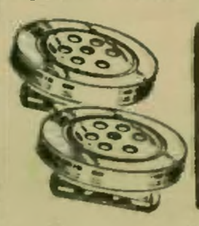
**No. PH-51**

**$19.99**

Consists of boom type mike and earpiece. Reconditioned, with cord and plug. Ideal for citizens band, stage crews, telephones, etc. Frees hands. Shipping weight 2 lbs.

★★ KIT OF 2 ★★

Sound Powered Phone Elements



**No. AS-569**

**99¢**

2 Kits for $1.75

Two standard HA-1 dynamic phone elements. No batteries needed. Just connect the two elements in series. Each element can be used as a receiver or transmitter or both. Four elements make two complete phones. Will operate over hundreds of feet of two conductor cable. Shpg. wt. ½ lb.

Phone Wire, No. W-398, Per 100' coil ..... $3.00



**Phone Dial $1.49**

No. PH-41 3 for $4.00

Lots of 12, Ea. $1

Standard telephone dial units. Shpg. wt. ½ lb.



**TELEPHONE WIRE**

2 conductor twisted No. 20 gauge stranded copperweld. Suitable for indoor, outdoor installations. Shipping weight ¾ lb.

No. W-398, Per 100' Coil ..... **$3.00**



**Coiled Handset Cord**

**99c** No. W-395 4 for $3.50

8 conductors. Works with W. E., A. E., North., St. Carl., Kellog, and Leigh. Expands from 1 to 6 feet. Shpg. wt. ¼ lb.

# DIAL PHONE

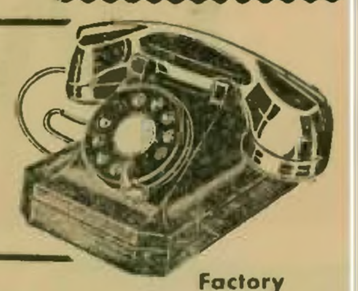
MAKE YOUR OWN PRIVATE INTERCOM

Western Electric ..... No. PH-61
Automatic Electric ..... No. PH-62

Can be used to make complete private systems. Includes handset, dial, bell, induction coil, etc., ready to connect. Used but factory tested. General appearance may vary slightly from catalog illustration. Available in 5 types. Shipping wt. 8 lbs.

**$7.91**

2 for $15.00



CRADLE PHONE With Dial (as removed from Service) No. PH-31 ..... ONLY $5.88

Factory Tested

## WALL TELEPHONE



★ Wall Type, with Dial & Bells

**No. PH-49**

**$8.95**

Self contained wall telephones. Includes bells, induction coil, capacitor, dial and handset. Ready to connect as extension for private systems. (General appearance may vary slightly from catalog illustration.) Used. Shipping weight 8 lbs.

Phone Wire, No. W-398, Per 100' Coil, $3.00
Phone Plug, No. PL-82 ..... Ea. $1.25

## PORTABLE TELEPHONE

Signal Corps EE-8



**No. PH-59**

**$11.75**

3 for $33.00
12 @ $10.00 ea.

Telephone is contained in metal housing which fits into a heavy carrying case. Consists of handset, ringer, generator, induction coil and condenser. Operates on 2 standard flashlight cells. Connect as many together as desired. Used, but in good condition. Shipping weight 14 lbs.

Batteries (2 req'd) No. BA-53 ..... Ea. 13¢



## CRADLE PHONE

**No. PH-76**

**$1.99** (LESS DIAL)

MADE IN U.S.A.

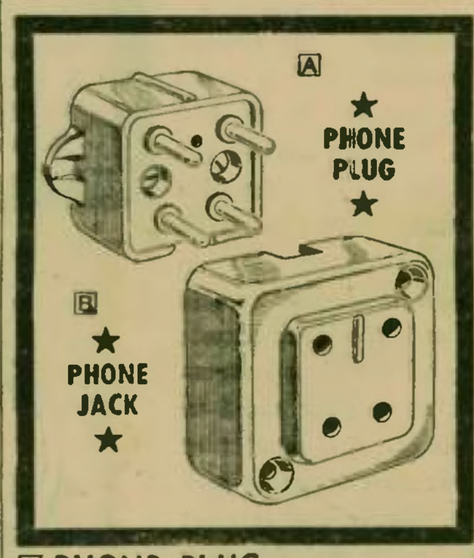
★ Extension to Private System ★ Remote Telephone Intercom

Jones & Jordan Serv., 109 E. Third, Lee's Summit, Mo., wins choice of merchandise worth $5 from Olson's "Treasure Hunt". See back cover for instructions.

Same condition as when removed from service; slightly shopworn, tested but not reconditioned. Less bells and induction coil. General appearance may vary slightly from catalog illustration. Approximate shipping weight 6 lbs.

ACCESSORIES:

PHONE PLUG No. PL-82 ..... Ea. $1.25
PHONE JACK No. PL-81 ..... Ea. $1.40




**A PHONE PLUG**

Shpg. wt. ¼ lb.

No. PL-82 ..... Each $1.25

**B PHONE JACK**

Shpg. wt. ¼ lb.

No. PL-81 ..... Each $1.40

100 ft. 3-cond. wire, No. W-105 ..... $1.50

**C Telephone WALL JACK**

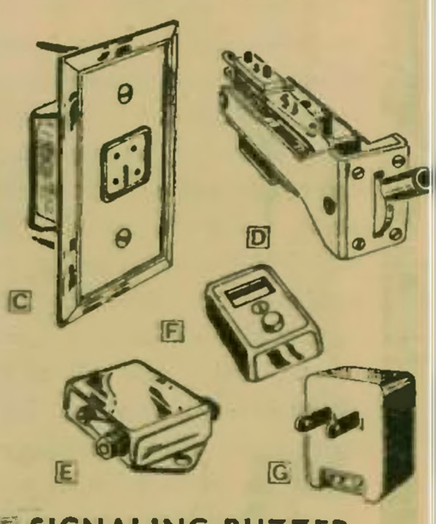
For 2, 3, or 4 wire systems. Fits standard wall conduit boxes. Takes PL-82 plug. Shipping weight ½ lb.

No. AS-558 ..... Each $2.61

**D PHONE LEVER SWITCH**

Single pole, double throw switch. Size: 1⅝"x1¼"x¾". Shipping weight ½ lb.

No. SW-189, 3 for $1.50
Lots of 12, Ea. 44c Ea. 66c




**E SIGNALING BUZZER**

Makes any phone (above) into a private intercom. Use with switch (right). For 6-8 volts A.C. Size: 1⅞"x2"x1½". Shipping weight ¼ lb.

No. EA-64, 3 for $8.50 Ea. $2.95

**F Push-To-Signal SWITCH**

Size: 1⅛"x1¾"x1½"

For use in making phone intercom system. Consists of S.P.S.T. momentary action switch with neutral color case, and space for identification number or name. Shipping weight ¼ lb.

No. SW-199 ..... Ea. $1.19

**G Transformer for use with buzzer**

110V. primary, 6.3V. secondary

No. T-329 3 for $5.50 Ea. $1.99

## 5 DIGIT Electro-Magnetic COUNTER

Turnstiles
Industrials
Drive-In's

★ FOR 110-125 Volts D.C. ★

MADE IN U.S.A.



No. X-896 **ONLY $3.49** 10 for $30

These brand new counters are ideal for many counting operations, such as assembly line counting or door openings or machine operations, etc. Counts 400 pulses per minute. For 110-125 volts A.C. 60 cps. Size: 3" x 2½" x 2". Shipping weight 1 lb.

6 VOLT D.C. ELECTRO-MAGNETIC COUNTER

No. X-897, 10 for $30.00 Ea. **$3.49**

Accurate

## Ammeter—Oil PRESSURE GAUGE



**Non-Illuminated No. ME-117 $5.10**

**Illuminated No. ME-118 $6.10**

Can be mounted in any location that offers easy readability. Eliminates guesswork resulting from red indicator lights now used in most cars. Easy to connect to any car. Complete with all fittings and connectors. Oil pressure range: 0 to 80 pounds. Ammeter range: 60-0-60 amps. Both meters are mounted on a universal mounting, chrome panel. Illuminated model includes socket, bulb, and all necessary hook-up wire. These quality gauges can be used in any car or truck, 6 or 12-volt systems. Shipping weight 3 lbs.

Tung-Sol "dynaquad" TOUCH-CONTROL

## SWITCH TRANSISTORIZED

MADE IN U.S.A.



**No. X-914**

**$10.98**

Build A Magic Lamp

The switch is operated by touching metal touch points with the hand. Touch points are connected, by enamel wires, to switch. Absolutely no shock hazard. This PNPN germanium alloy transistor acts as an electronic switch that remains off until turned on and stays on until turned off. It has two modes of operation: single pole double-throw, or single pole single-throw. Works directly from 105-125 V. AC and can handle up to 100 watts. Self-contained in plastic case, 3" x 1¼" x 1¼", useful for home lighting, appliances, burglar alarms, sorting, counting, control, advertising displays, sick room alarms, key-hole lights, etc. Shipping weight ¾ lbs.

## Compression Horn

# TWEETER

**Horn Tweeter Is Equivalent To Tweeter & Midrange**

- ★ 20 Watts
- ★ Cast Aluminum Horn
- ★ 1,000 CPS to 18,000 CPS



No. S-547

**$7.99**

This genuine horn tweeter, in conjunction with any 8, 12 or 15" speaker, gives you a full range speaker system. You can now add smooth transient-free high frequencies to your Speaker system at a real money saving price. You will thrill to the performance of this compression horn tweeter. Extremely low frequency response eliminates the need for a midrange speaker. New principle provides perfect dispersion of high frequencies through a 120° solid angle, 8 ohms. Size: 4" H x 10½" W x 11½" L. Shpg. wt. 4 lbs.

## GUARANTEED OR MONEY BACK!

. . . if for any reason you are not 100% satisfied with the outstanding performance and excellent craftsmanship of this Horn Tweeter, return it with your order papers or sales slip within six months from date of purchase, to the Olson outlet from which the sale originated (Mail Order or Store) and your $7.99 will be refunded with **NO QUESTIONS ASKED!**

### ELECTRONICALLY EQUIVALENT TO:

Electro-Voice MF1
Jensen ORP201
University 4401

**NEW!**




MADE IN ENGLAND

# 45 RPM Portable TURNTABLE

**No. RP-252**

**$4.99**

- ★ 6 VOLT DC MOTOR
- ★ CERAMIC CARTRIDGE
- ★ DUAL LP STYLUS

D. Damerell, 7820 Meade, Westminster, Colo., wins choice of merchandise worth 15 from Olson's "Treasure Hunt." See back cover for instructions.

The most unusual turntable we have ever offered. Ideal for use in portable or mobile equipments. Motor operates on one 6 volt battery or 4 flashlight batteries. It can also be used on 12 volts DC by inserting a 10 watt 100 ohm resistor in series with the motor lead. Plug-in ceramic cartridge is equipped with 2 sapphire needles. When one side wears out you just unplug the cartridge, turn it over and plug back in and you have a brand new needle. To start changer you flip needle guard back which brings tone arm up to play position, move tone arm to right which turns on power and plays the arm on the record. The motor will turn off automatically at the end of the record. Size: 7⅝" W. x 8⅞" D. x 2¾" H. Shipping weight 2 lbs.

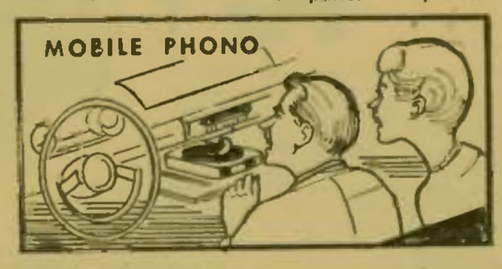
SMOOTH RUNNING 6 VOLT GE MOTOR




### ★ BUILD YOUR OWN PORTABLE PHONO ★




| | |
|---|---|
| 2-Watt All Transistor AMPLIFIER No. AM-218 (page 13) | 8.40 |
| 6-Volt BATTERY, No. BA-90 | 90c |
| 4" PM SPEAKER No. S-564 (Page 10) | 99c |







## CONCORD 550 STEREO 4-Track TAPE RECORDER

- Records Stereo — Plays Stereo
- Transistorized Pre-Amplifiers

The Concord model 550 is the first recorder in its price range to offer transistorized operation. Transistor pre-amp stages are the quietest, coolest and most efficient type of circuitry. Features completely interlocked push-button control panel with instant stop. Completely equipped to make sound-on-sound, sound-with-sound and sound-over-sound recordings. Perfect synchronization for sing-a-long recordings. Has three speeds for greatest tape economy, 1⅞, 3¾ and 7½ I.P.S. Two 6" wide range speakers give full fidelity reproduction. Speakers may be separated as far as necessary to give maximum stereo separation. All accessories are included in the low price. You will get 2 Dynamic microphones, 1-sound-on-sound patch cord, 2-recording patch cords and 1-extension patch cord. Size: 9¾" H x 13¾" D x 14" L. Shipping weight 39 lbs.

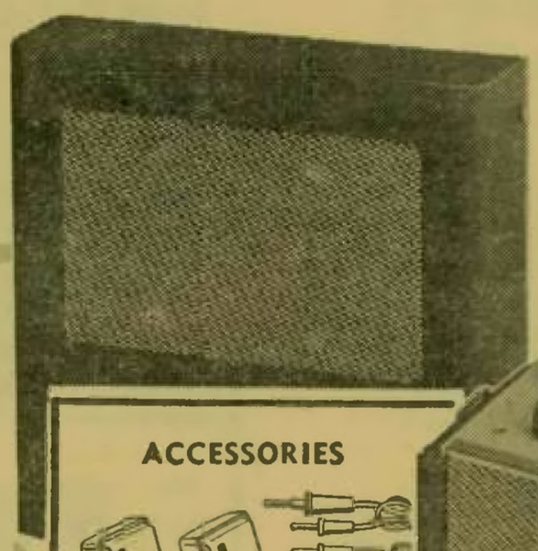
Mfgr's. Suggested List $319.95

Olson's Actual Selling Price Was . . . . **$250**

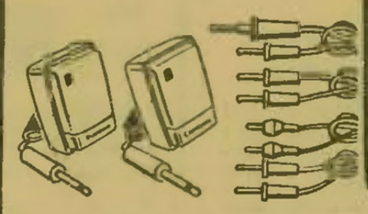
*NOW*

**$199.99 ★**

No. AM-236
$13 MONTHLY

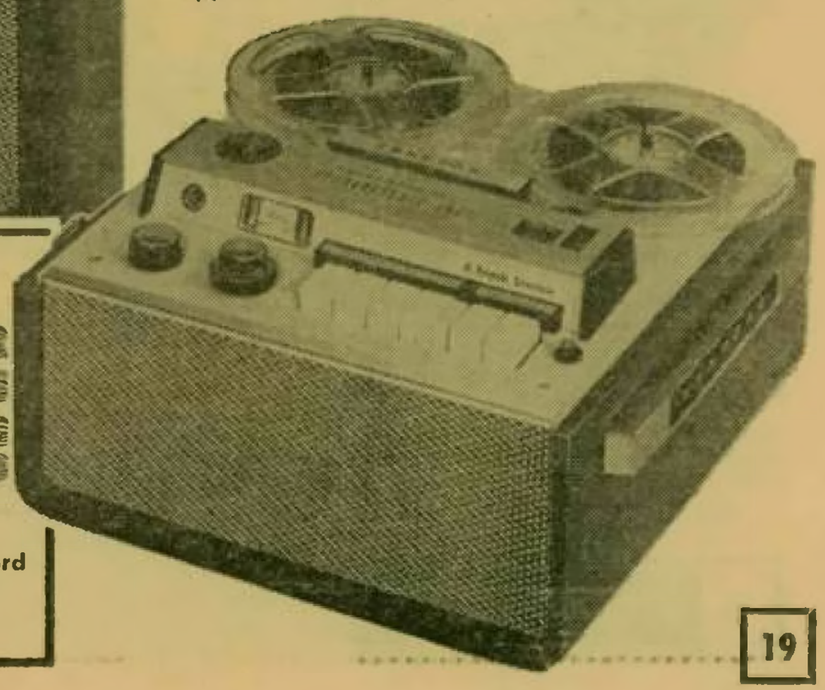


**ACCESSORIES**



2—Dynamic Microphones
1—Sound-On-Sound Patch Cord
2—Recording Patch Cords
1—Extension Speaker Cord

- ★ All Pushbutton Operation
- ★ Sound-on-Sound Operation
- ★ Three Speeds
- ★ Two VU Meters



NEW



# 7" WHEEL

**Semi-Pneumatic**

All steel wheel with semi-pneumatic tire mounted. Ideal for carts, wagons, hand trucks and many other applications. Overall diameter 7", tread width 1", bearing bore ⅜", hub width 1⅝". Shipping weight 7 lbs.

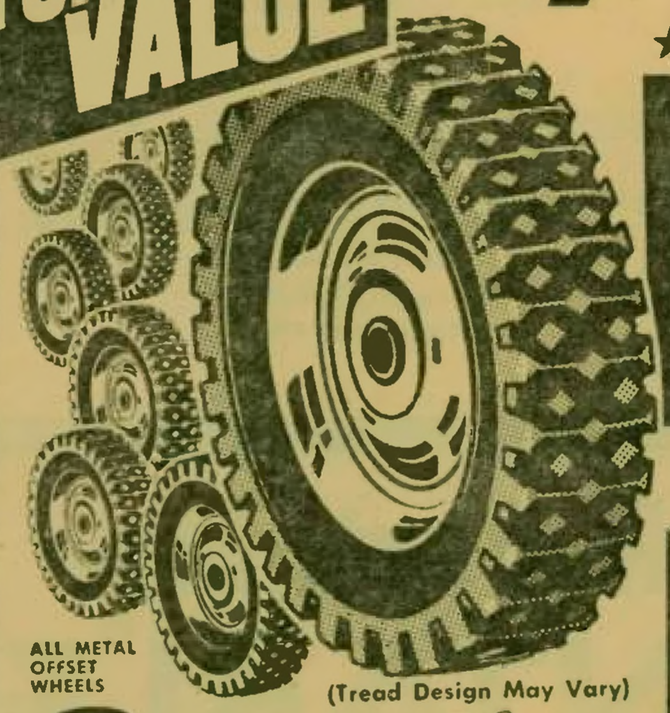
No. X-923

**4 FOR $1**

TOP VALUE

# 7" WHEELS

★ Semi-Pneumatic ★ Deep Tread



ALL METAL OFFSET WHEELS

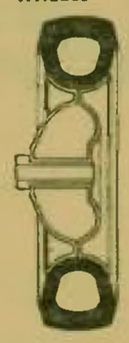
(Tread Design May Vary)

**72¢ EACH**

**No. X-903**

SPECIFICATIONS:

- Self lubricating bearing
- Bearing bore ½"
- Diameter & tire width 7"x1½"
- Hub length 1⅜"





MANY USES: Replacement, Remodeling, Building, etc.

## MORE WHEEL BARGAINS!

### 6"- 7"- 8" WHEELS

● Semi-Pneumatic ● Deep Tread

SELF-LUBRICATING BEARING

| STOCK NO. | BEARING BORE | DIAMETER & TIRE WIDTH | HUB LENGTH | PRICE EACH | LOTS OF 4, EACH |
|---|---|---|---|---|---|
| X-904 | ½" | 6"x1½" | 1½" | .89 | .79 |
| X-903 | ½" | 7"x1½" | 1⅜" | .72 | .72 |
| X-898 | ½" | 8"x1½" | 1⅜" | .99 | .88 |

STEEL BALL BEARING

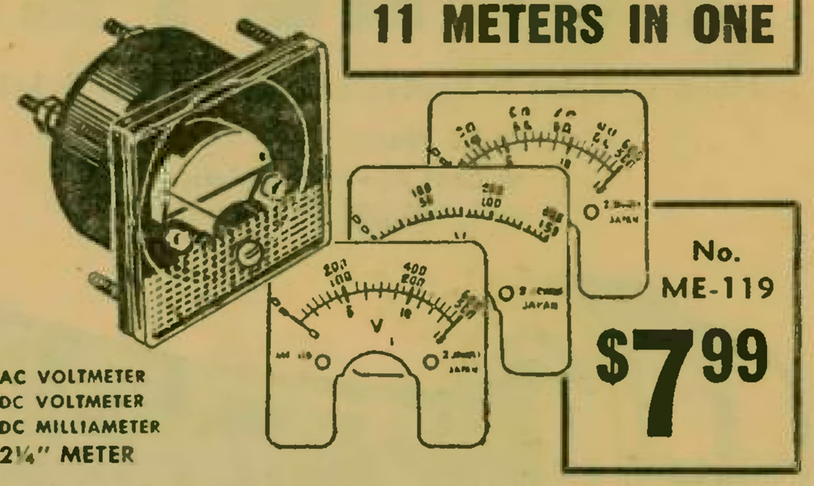
| STOCK NO. | BEARING BORE | DIAMETER & TIRE WIDTH | HUB LENGTH | PRICE EACH | LOTS OF 4, EACH |
|---|---|---|---|---|---|
| X-905 | ½" | 6"x1½" | 1½" | $1.29 | $1.17 |
| X-906 | ½" | 7"x1½" | 1⅜" | 1.39 | 1.25 |
| X-907 | ½" | 8"x1½" | 1½" | 1.49 | 1.37 |

Shipping weight 3 lbs. ea.

Universal

# PANEL METER KIT

**11 METERS IN ONE**



AC VOLTMETER
DC VOLTMETER
DC MILLIAMETER
2¼" METER

No. ME-119

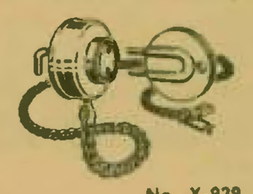
**$7.99**

Olson brings you the most unusual meter kit ever offered. Basically the meter is a precision 2-jewel 0-1 ma. movement. It comes complete with all resistors, adaptor boards, meter faces, hardware and instructions to make 11 different panel meters. Olson even supplies the screwdriver to put it together. The following meters can be made with this kit: AC voltmeter, range: 0-15 V., 0-150V., 0-500 V. DC milliammeter, range: 0-1 ma., 0-50 ma., 0-100 ma., 0-500 ma. DC voltmeter range: 0-15 V., 0-150 V., 0-500 V., 0-600 V. With the simple step-by-step instructions included you can make almost any meter you need. Meter can be changed from one type to another quickly and conveniently. Shipping weight 2 lbs.

Extra Meter for Above Kit, No. ME-115 ..... $4.95

Peg Board

## Lock & Chain KIT



No. X-929

- 3-CHAINS
- 3-LOCKS
- 1-KEY

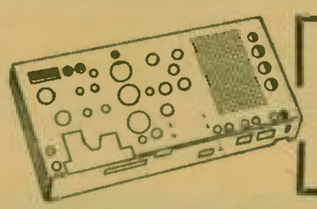
**$3.27**

Securely locks displays and other valuable items to peg board or other similar surface. Special two pin key prevents removal by unauthorized persons. ½" pins are spaced 1" apart. Rugged 18" chain is attached to lock with a swivel connection. Universal clips permit quick and easy attachment to almost any item. Chrome plated. Shipping weight 4 lbs.

PRE-PUNCHED

## ALUMINUM CHASSIS

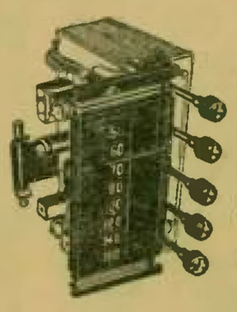
★ Ideal for Experimental Circuits



No. X-927
2 FOR
**99¢**

15⅝" x 7½" x 2⅛" All Aluminum chassis. Pre-punched with holes for tube sockets, transformers, coils, switches and many other parts. Ideal for building power supplies, transmitters, receivers, etc. This super bargain is available in limited supply so stock up now. Shipping weight 4 lbs.

## AM Tuner with Stereo Phono AMPLIFIER



No. RA-538

**$24.99**

- Start Your Stereo System Today
- Use with Any Ceramic Cartridge

A complete AM Tuner Amplifier including separate Bass and Treble controls for each Stereo channel, individual volume controls for each channel, function selector switch, and slide rule style dial. Just plug in stereo changer, hook up two 8 ohm speakers, and your stereo system is ready to play. Approximate size 7" D. x 12½" W. x 6¼" H. Completely self powered for 110-125 V. AC 60 cps. Shipping weight 11 lbs.

### AM TUNER with MONO PHONO AMPLIFIER

Build in to suit your needs. Complete with glass slide rule plate and all controls. Just add speaker and changer to achieve high quality console sound. Size: 7" D x 12½" W x 6¼" H. For 110-125 V. A.C. 60 cps. Shipping weight 11 lbs.

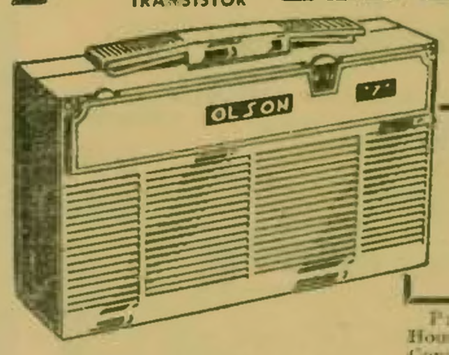
No. RA-542

**$19.95**

# 7 RADIO KIT

RAYTHEON TRANSISTOR

★ Preassembled Printed Circuit
★ Large PM Speaker
★ 7 Raython Transistors




No. KB-137

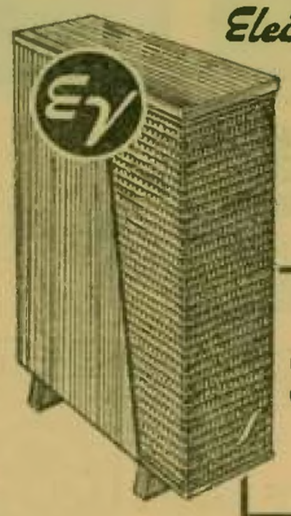
OLSON PRICE . . . **$15**

Pre-wired kit includes 7 Raytheon transistors. Housed in a handsome Hi-impact styrene case. Construction is simplified through use of two pre-wired printed circuit modulars. One modular contains the 4 stage tuner and the other modular a 3 stage push-pull audio amplifier. Oversize output transformer and 5" PM speaker give lots of volume and excellent tone. Takes less than one hour to build and the end result is a sensitive, U.S.A. quality radio that anybody would be proud to own. Oversize keoptick gives excellent sensitivity. Especially suited for group projects in schools, Boy Scouts, Radio Clubs and other organizations. Not a midget—full size 7½" x 4½" x 2" portable. Less batteries. Shipping wt. 2½ lbs.

Batteries (4 req'd.) No. BA-67 ..... 8 for 59c

Electro-Voice

# SPEAKER CABINET



★ SLIM LINE DESIGN ★

No. CA-262

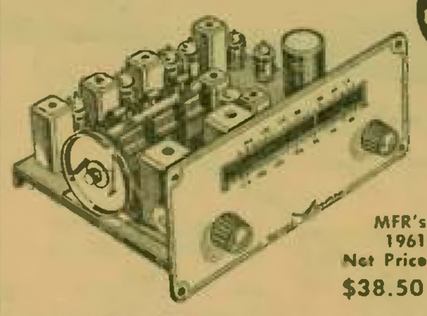
**$9**

Mahogany finish. Will accommodate 6" x 9" woofer and 3" tweeter. Size: 7½" W x 17⅝" D x 24⅝" H. Shipping weight: 20 lbs. Shipped railway express.

Fun To Build!

Approved

# Imperial FM•AM TUNER KIT



MFR's 1961 Net Price $38.50

No. KB-158

**$33**

12 TUBES

- ★ 5 μV Senstivity
- ★ Slide Rule Dial
- ★ Made in U. S. A.

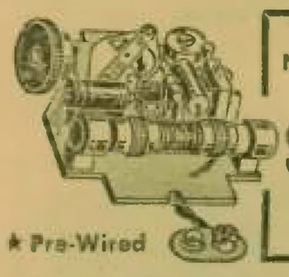
Tuned RF stage plus 2 IF stages and 2 limiter stages result in extremely high sensitivity with maximum noise rejection. Rich gold finished escutcheon panel and matching brass inlay knobs. Shipping weight 8 lbs. FM Specifications: Tuning Range: 88-108 mc. Band Width: 200 kc. Sensitivity: 5 μv - 20 db. Response: 20-20,000 cps. Tubes: 6BC6, 2-6AB4 4-6AU6, 6AL5, 6C4. AM Specifications: Tuning Range: 530-1650 kc. Tuned RF stage. Sensitivity: 5 microvolts. Size: 9½" L x 5" H x 2" W. NOTICE: External power supply requirements: 190 volts DC @ 55 ma. and 6.3 volts AC @ 4 amp. (can be tapped from amplifier power supply).

FM TUNER KIT ★ 9 Tubes ★ Slide Rule Dial
No Drift Temperature Compensated Components
No. KB-157, Shpg. Wt. 9½ lbs. (Mfr's 1961 Price $33.50)

**$25 Ea**

2 Transistor

## TUNER CHASSIS



No. RA-586

**$1.99**

★ Pre-Wired

Add this AM tuner chassis to phono or PA system for news and music. Completely assembled less transistors and diode. Uses ferrite core antenna for maximum sensitivity. Tuner may also be connected directly to an ear phone to make a complete personal, portable. Requires standard 9 volt battery (not included) plus 2 NPN transistors and a 1N34 type diode (not included). Shipping weight ¾ lb.

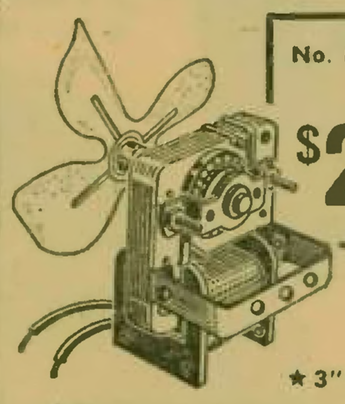
Battery (1 req'd.) No. BA-39 ..... 21c

TRANSISTOR AND DIODE KIT for above. Contains 2 PNP transistors plus one diode for radio chassis No. RA-586 (above).

No. TR-23 ..... **99c**

Ventilation

# MOTOR



No. MO-83

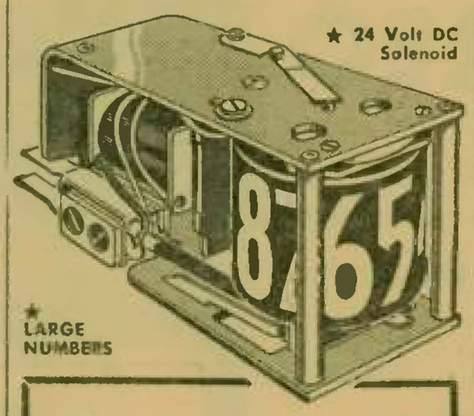
**$2.49**

★ 3" Blade

★ Universal Mounting Bracket

This compact ventilation motor is ideal for mounting in all types of electronic equipment for cooling and circulating air. Tubes and components last much longer when properly ventilated, reducing maintenance costs. Motor is rugedly constructed of laminated steel and features oilite type bearings for cool efficient operation. Universal mounting bracket permits mounting in any convenient location or position. Coil is fully insulated and has 6" wire leads. Order several today. Shipping weight 2 lbs.

## Read-Out COUNTER




★ 24 Volt DC Solenoid

★ LARGE NUMBERS

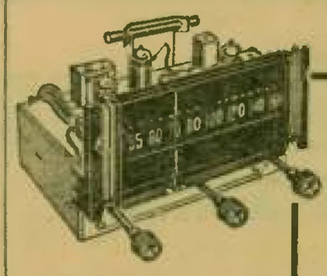
No. X-918

**$1.50**

4 @ $1.25 ea.

Ideal for industrial counting operations, score boards, assembly line counting, etc. Ruggedly built for continuous operation in computers. Large numbers 0 thru 9 are painted on a drum which is rotated by a solenoid. Each number is ⅞" high so that it can easily be read at a glance. Size: 8⅝" x 1⅞" x 1⅜". Shpg. wt. 2 lbs.

# AM TUNER CHASSIS



No. RA-545

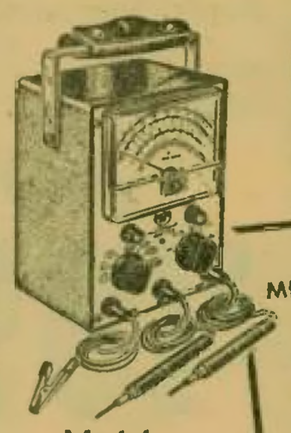
ONLY **$14.99**

Completely assembled AM Tuner Chassis. Tuner has one audio amplifier stage and audio output stage with transformer. Features phono input and large slide rule dial. Shipped complete with four tubes. Less power supply. Size: 12½" x 6½" x 6" high. Schematic diagram included. 110-125 V. AC. Shipping weight 11 lbs.

Jr. Voltohmyst

RCA

# V.T.V.M. KIT



Model WV-77EK

No. KB-80
Mfgrs. 1963 List Price $29.95

**$25**

★ 28 Ranges

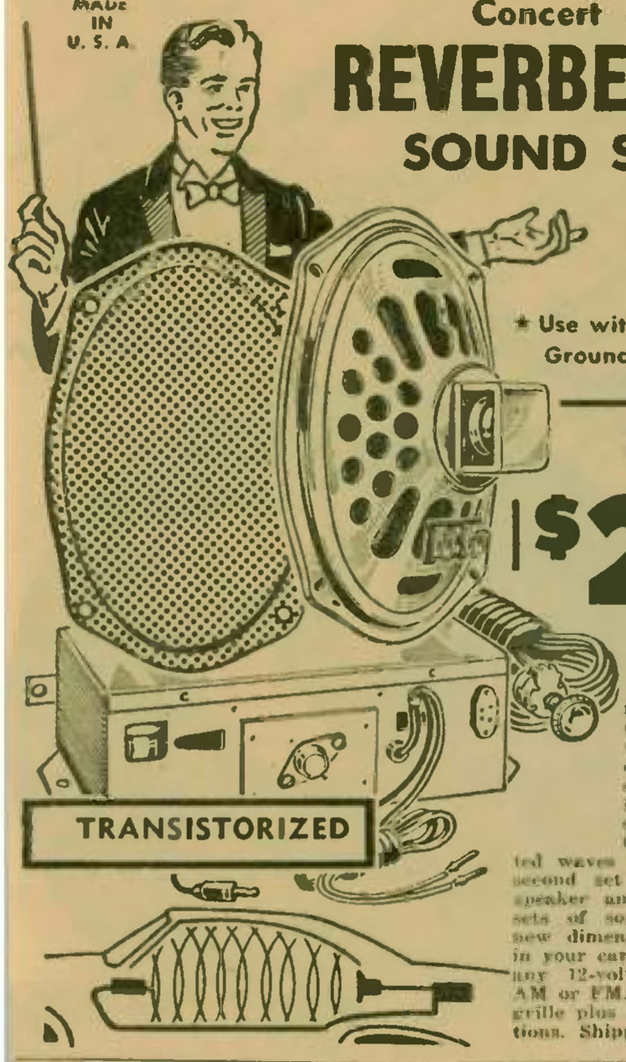
★ Burnout Proof

RCA Model WV-77EK. Volt ranges: 0-1.5, 5, 1 150, 500 and 1500 volts volt, ranges (RMS): 0-1 15, 50, 150, 1500 volts, 7 to peak AC volt ranges: 14, 40, 140, 400 and 1400 peak to peak, 7 overlap ohm ranges: .2 to 1000 m ohms. 1% deposited carbon sistors. Input resistance, megohms. Size: 7¾"x6¾", 8⅝". For 110 to 125 volts AC 50-60 cps. Shipping wt. 6¾ lbs

20 Olson Electronics AKRON, OHIO

MADE IN U.S.A.

## Concert Master
# REVERBERATION
## SOUND SYSTEM




***Creates Concert Hall Sound from Your Auto Radio***

★ Use with Any 12-volt, Negative Ground Auto Radio—AM or FM

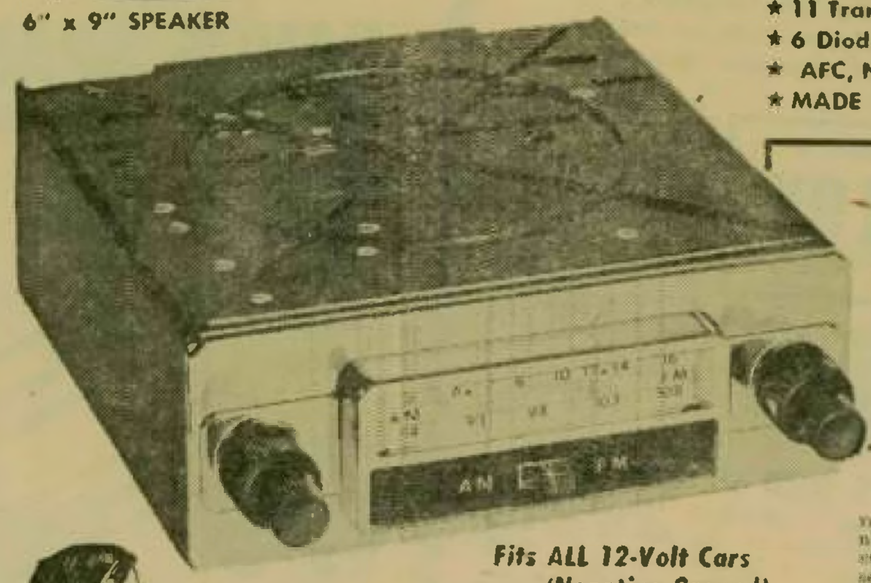
**No. RA-577**

**$26.97**

Add "life" to the sound from your car radio. Concert-Master Reverberation System adds depth and dimension to the sound by electronically creating reflected sound waves. Concert-Master compensates for the absence of these reflected waves in a car by reproducing a second set of waves from a second speaker and acoustically mixing both sets of sound waves to deliver this new dimension in sound reproduction in your car. This unit can be added to any 12-volt negative ground radio—AM or FM. Includes 6x9" speaker with grille plus wiring harness and instructions. Shipping weight 6 lbs.

# Olson FM-AM Transistorized AUTO RADIO

6" x 9" SPEAKER

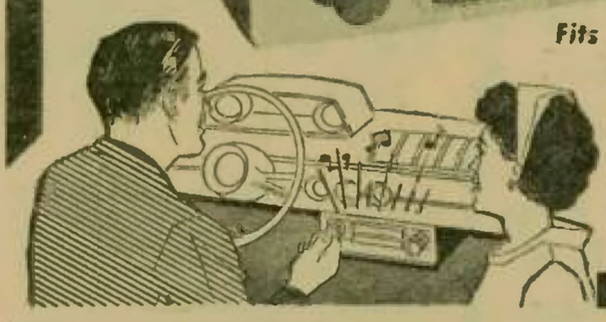



★ 11 Transistors—Instant Warm-Up
★ 6 Diodes Plus 1 Thermistor
★ AFC, No Drift
★ MADE IN U.S.A.

**No. RA-601**

**$89.95**

***Fits ALL 12-Volt Cars (Negative Ground)***



Universal all transistor FM-AM auto radio for installation in all 12 volt negative ground cars. Seven tuned circuits on FM and 5 on AM give superior sensitivity for distant reception on both FM and AM. Features four stages of IF amplification on FM for maximum noise limiting. Push-pull output for maximum distortion free power (10 watts peak power). All transistor circuit means low battery drain and instant play. Automatic gain control protects against fading and distortion. Automatic frequency control (AFC) locks in stations. Operates on 12 volt negative ground (standard on all U.S. cars since 1956). Heavy duty 3.15 oz. magnet external speaker with 8 ohm impedance. Size: 6¼" wide x 2 3/16" high x 6⅞ deep. Shipping weight 8 lbs.




CLIP ON SUNVISOR — READY TO GO

## RAD-A-TEC
## Warns of Radar Zones

★ 8 Transistors & 5 Diodes

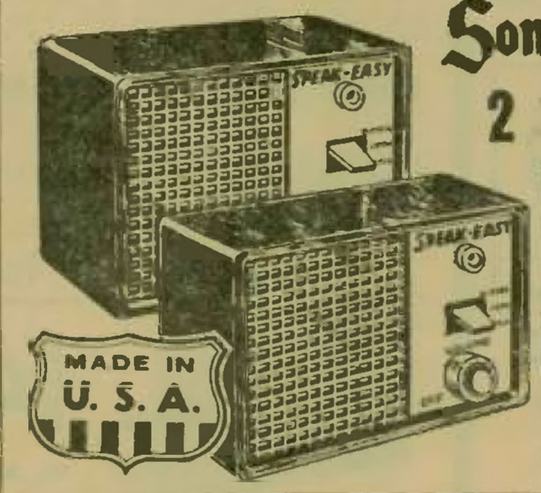
**No. RA-531**

**$22.50**

3 @ $20.00 Each

★ "S" & "X" Bands
★ No External Wires
★ Complete With Built-In Antenna

An electronic receiver which produces an audible signal to indicate the presence of radar signals used for traffic control speed meters and traffic signal control. Constructed of high quality components, including 8 transistors and 5 diodes. The batteries (included) will last hundreds of hours. Size: 6¼" x 2¾" x 3½". Shipping weight 3 lbs.




## Sonora ALL TRANSISTOR 2 STATION INTERCOM

★ SYLVANIA TRANSISTORS
★ RANGE: 2,000 FT.
★ BATTERY POWERED
★ PORTABLE

**No. RA-534**
**BOTH FOR**
**$15.98**

Complete two-way communication system. Can be used anywhere. Operates on one self-contained 9 volt battery (not included). Cabinets are made of attractive high impact styrene. Remotes can call master even with power turned off. Master has built-in tone signal and indicator lamp. Size: 8" x 4" x 3". Complete with 50 ft. of cable. Shipping weight 5 lbs.

**ACCESSORIES**

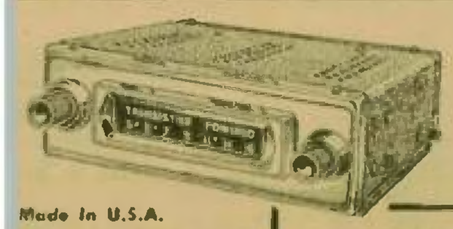
9 Volt Battery (1 req'd), No. BA-89 ____ ea. 21c
Extra 100' of cable No. W-103 ____ 89c

NEW! TWO STATION WIRELESS TRANSISTORIZED INTERCOM

Use anywhere — no wires to connect — just plug-in and use. Transistor circuit for low power drain. For 110-125 v. AC. Shipping weight 6 lbs.

**No. RA-535**
**$29.98**

## 12 Volt Transistor Powered
# AUTO RADIO



Made In U.S.A.

★ With Built-In 4" Speaker
★ Slide Rule Dial Tuning



**No. RA-450**

**$29.95**

3 @ $28.50 ea.

Low silhouette lends itself well to any installation. Excellent sensitivity and stability plus effective AVC assure steady clear reception in any area. 3 tube circuits plus 2 transistors. Latest type 12 volt tubes. Low drain transistorized audio circuit is easy on battery. Compact size: 6½"x2¾"x3¾". Made in U. S. A. With hardware and instructions. Shipping weight 8 lbs.

TRANSISTORIZED
## Portable Intercom



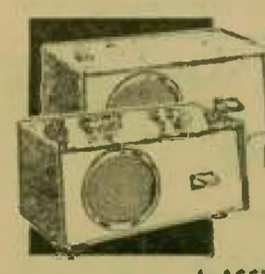
**No. RA-516**
**BOTH FOR**
**$9.45**
3 for $27.00

- Completely Portable!
- Battery Operated!
- 2-Way Signal
- 120 Foot Cable
- Outdoor-Indoor

All purpose, outdoor or indoor 2 way intercom. Uses one 9 volt battery for power, (included) no A.C. cord, no shocks for shocks. Battery saver two way buzzer signal operates even though master is turned off. 120 foot cable has miniature telephone type plug at each end for quick setup or mounting. Clear, loud, tone. Substation is on when master is on so you can hear children without pushing button. Size: 1⅛"x2½"x4". Shipping weight 2 lbs.
Extra battery, No. BA-89 ____ Ea. 21c

## Portable 2-Station INTERCOM KIT

★ Transistorized—3 Transistors



**$11.91** No. KB-95

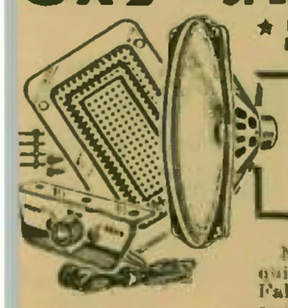
Handsome gold enamel finish. Operates on 4 size "C" cells. Size: 7⅛"x 3½"x3¾". Less batteries and transistors. Shipping weight 7 lbs.

★ ACCESSORIES FOR KB-95 ★

Batteries (4 req'd) No. BA-41 ____ Ea. 13c
Transistors No. X-801 (2 req'd) ____ Ea. 49c
Transistors, No. TR-13 (1 req'd) ____ Ea. 69c
Extra Cable No. W-103 ____ Per 100 ft 89c

## 6x9" Rear Deck SPEAKER KIT

★ No Soldering Required



**No. S-333**
**$3.63**
3 for $10.00

No soldering required. Speaker has Fahnestock clips and wire is pretinned. Fader control enables volume to be adjusted to any desired level. Includes 6x9 speaker, fader control, wire, chromed grille, hardware and easy to follow instructions. Shipping weight 2 lbs.

## Miniature Rear Seat SPEAKER KIT

★ PREWIRED




**No. S-501**

**$2.29**

This prewired kit can be installed in minutes in any car. Selector switch permits selection of front, rear or both speakers. Mirror-finish steel case can be installed in any auto, convertible, foreign car or station wagon. Size: 2¼" sq. x 1¼" deep. Shipping weight ½ lb.

## Bogen ALL MASTER TELEPHONE Intercom System



**No. AM-156**
**$20.95**

Model TQ-6. A total of 7 instruments can be used in a system. Any station can call any other station. (6 combinations). Grey, high impact polystyrene case, with coil-cord. For desk or wall mounting. Less cable and power supply. Shipping weight 6 lbs.

117 V AC Transformer Power Supply (one req'd.)
Shpg. Wt. 4 lbs. No. AM-157 ____ $ 22.50
Complete System (7-AM-156, 1-AM-157). Shpg. Wt. 40 lbs.
No. AS-657, $9 monthly ____ $148.00
Cable (11 conductors) No. W-354 ____ Per Ft. 7c

## Bogen TRANSISTORIZED TWIN-COM



**No. RA-563**
**$23.90**
$39.85 in 363 cat.

This versatile, compact intercom can be used anywhere or even moved from place to place. Operates independently of house current. Uses self contained batteries (not included). Attractively styled to match any decor. Ideal for home, office, work area, sick-room monitoring and many other applications. Sound engineered to give clear, natural sounding voice reproduction. Includes two stations plus 50 feet of cable. Size: 3½x5⅝x6⅝". Shipping weight 6 lbs.

Batteries (4 required) No. BA-67 ____ 8 for 59c

# BATTERIES




Most Popular 9 Volt
## TRANSISTOR BATTERY

**21c** No. BA-89
Lots of 10 Each 20c
Lots of 100, Each 19c

BEST BUY

Fits 90% of the transistor radios on the market today. Replaces Burgess 2U6, RCA VS-312, Eveready 216, and NEDA 1604



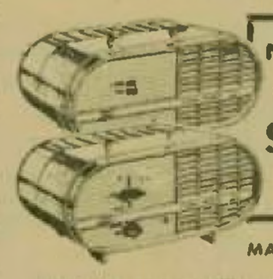

A B C D

| | Stock No. | Volts | Replaces | Each | Lots of 10, ea. | Lots of 100, ea. |
|---|---|---|---|---|---|---|
| A | BA-85 | 9 | Burgess P-6, P-6M, RCA, VS-300, VS-314 and Eveready 226 ¼ lb. | 39c | 34c | 29c |
| B | BA-89 | 9 | Burgess, 2U6, RCA, VS-312, ¼ lb. Eveready 216, and NEDA 1604 | 21c | 20c | 19c |
| C | BA-57 | 67½ | Eveready 467, Burgess XX-45, and RCA VSO-16 3¼ lb. | $1.59 | $1.49 | $1.39 |
| D | BA-53 | 1½ | Burgess 2R, Eveready 950 or RCA VSO-36 ¼ lb. | 13c | 9c | 7c |

Capt. W. J. Molke, 821 St. Medical Group, Ellsworth AFB, S. Dak., wins choice of merchandise worth $5 from Olson's "Treasure Hunt". See back cover for instructions.

FANON MASCO

NEW DELUXE
## TWO STATION INTERCOM
Model FX-2B



**No. AM-211**
**BOTH FOR**
**$23.90**

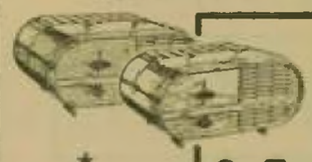
MADE IN U. S. A.

Substation can "originate" calls, or can be left open for baby sitting, dictation etc. or receive calls from master. Cabinet is 9½" W. 4¾" H. 5⅝" D. of high impact styrene. Black and gold trim. Complete with 50 ft. of 3 conductor cable. For 110-125 volts AC. Shpg. wt. 9 lbs.

Extra Cable—100 ft. Shipg. wt. 2 lbs.
No. W-105 ____ $1.50

FANON-MASCO

2 STATION
## Wireless Intercom
★ Model FW 50 B



**No. AM-227**
**BOTH FOR**
**$49.95**

★ 3½" ALNICO MAGNET SPEAKER

No wires to connect, just plug in and use. Features powerful 4 tube plus silicon rectifier amplifier . . . picks up at considerable distances. "Dictate" position on talk-listen switch permits operation as a baby sitter. Noise silencing control eliminates interference of power lines. Several stations may be added to any system. Size: 8¾" W x 4¾" H x 5⅜" D. For 110-125 volts AC. Shpg. wt. 7 lbs.
Extra station for above. Shpg. wt. 3½ lbs.
No. AM-228 ____ $25.45

FANON-MASCO

NEW ALL-MASTER
## 6 STATION INTERCOM
Model FX-6B



**No. AS-729**
**All 6 Units**
**$135.00**

MADE IN U. S. A.

Provides 3 private conversations, or up to six station conference talk. Consists of 6 FX-6B master units. For 110-125 Volts AC. Shipping wt. 29 lbs. Total cost if bought separately, $143.40.

Above Master Station sold separately,
No AM-212, Shpg. wt. 4 lbs. ____ $23.90
11 conductor universal cable No. W-354 ft 7c

Remote station for use with above master unit for master remote intercom. Model FCB. Up to five remotes may be used with a master. Shpg. wt. 2 lbs.
No. AM-226 ____ $8.40

## PEN-LITE CELLS




**No. BA-67**
**8 for 59c**
24 for $1.50

★ Bag of 8

Bag of 8 Replaces Burgess Z, Eveready 915, Ray-O-Vac 7R, etc. 1.5 ____ Shipping weight ½ lb.

Transistor Radio Battery
## Eliminator-Charger



Charge batteries in 1 to 1½ hours. Converts transistor portables to AC. Use with batteries, BL-006P, MV-006P, Burgess 2U6. For 110-125 volts, A.C. Size, design may vary from picture. Shipping weight ½ lb.

No. BA-78, 2 for $6 ____ Ea. **$2.93**

Plug-In
## GERMANIUM TUNER

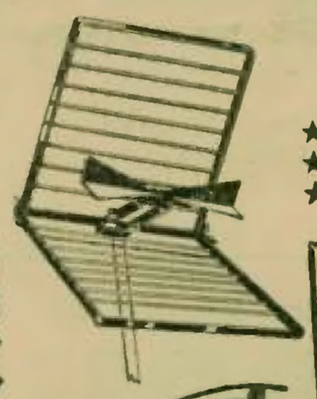



Plugs into any PA or Hi-Fi amplifier to provide radio reception of standard broadcast band 550 to 1600 KC. Size: 5½" long x 1¼" dia.

Shipping wt. ½ lb.

No. BA-367, lots of 12, Ea. $3.50, 3 for $9 Ea. **$3.33**

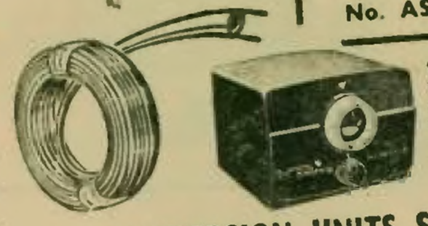
# UHF Conversion SYSTEM



★ Regency UHF Converter
★ UHF Corner Reflector Antenna
★ 100 ft. Oval UHF Wire

COMPLETE
**$19.99**
No. AS-825

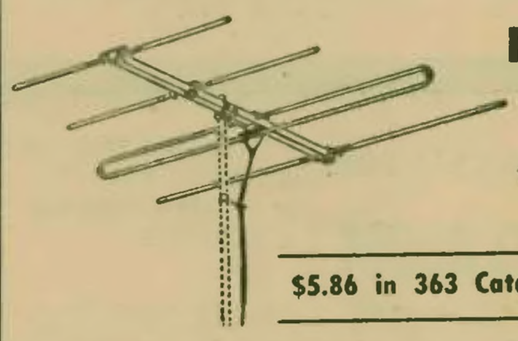
All channel UHF converter connects to any TV set to give you all channel reception. High gain Corner Reflector antenna pulls in UHF stations up to 50 miles away. Conversion package features ultra low-loss oval lead-in for best possible performance. Converter operates on 110 to 125 v. ac. Shipping weight 14 lbs.



**CONVERSION UNITS SOLD SEPARATELY:**

| | |
|---|---|
| Regency UHF Converter (below) No. RA-344 | $17.97 |
| UHF Corner Reflector Antenna (above), No. AA-98 | 4.56 |
| 100 Ft. UHF Oval Wire (below), No. W-461 | 2.41 |
| Total Catalog Price | $24.94 |

4 Element Fringe
# FM ANTENNA



RANGE: TO 60 MILES
★ Ideal for Multiplex
★ All Aluminum construction

$5.86 in 363 Catalog

No. AA-84
**$3.99**

- Preassembled snap-out elements
- For long-distance FM reception
- Sensitive Yagi design. Shipping Weight 4 lbs.

# TV-FM ATTIC ANTENNA



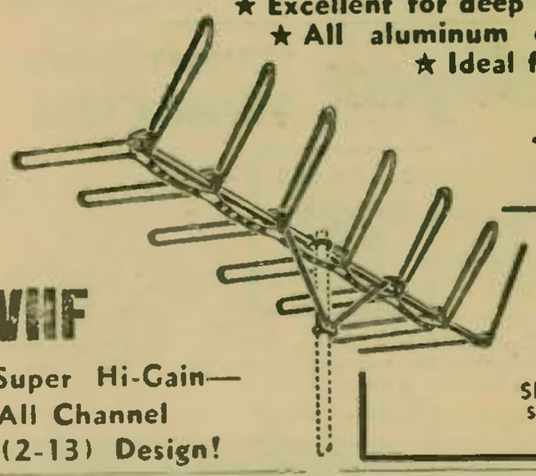
RANGE TO 50 MILES
★ High Gain ★ All Channel (VHF)
★ Factory Pre-assembled

No. AA-36
**$4.88**

All-channel (VHF) yagi-type antenna. If desired, antenna may be installed outside. Kit includes antenna, antenna mast, 50-ft. lead-in wire and hardware. Shipping weight 5 lbs.

# 7 Element Fringe TV-FM Antenna

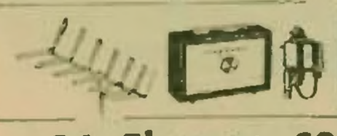
★ Preassembled snap-out elements
★ Excellent for deep fringe areas
★ All aluminum construction
★ Ideal for color TV



Range: To
**150 MILES**

VHF
Super Hi-Gain—
All Channel
(2-13) Design!

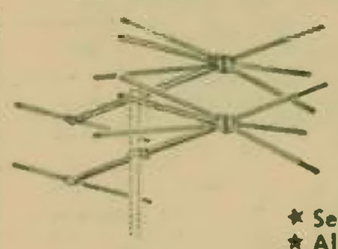
No. AA-88
**$17.50**
Lots of 3, Each $17
Shipping Weight 10 lbs.
Shipped Railway Express For More Careful Handling



**$41.15** No. AS-800

7 Element Antenna No. AA-88 (Above)
Alliance T-20 Rotor No. AU-12 (above-right)

# 16 Element CONICAL TV-FM ANTENNA



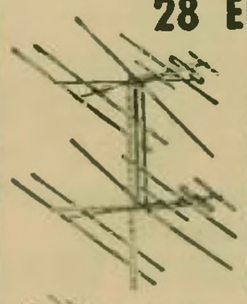
RANGE: TO 75 MILES

**$5.20** No. AA-86
Lots of 3, Each $4.95

★ Semi-fringe all channel (2-13) VHF antenna
★ All aluminum construction
★ Preassembled snap-out elements

Shipping Weight 6 lbs.

# 28 Element ARRAY TV-FM ANTENNA



RANGE: TO 75 MILES

No. AA-28
**$11.83**
Lots of 3, $11.50

★ All channel UHF-VHF Color
★ All aluminum construction
★ Preassembled snap-out elements
★ Hi-gain Conical Yagi Design
★ Stacked array

Shipping Weight 10 lbs.
Shipped Railway Express For More Careful Handling



**$35.78** No. AS-802

28 Element Antenna No. AA-28 (above)
Alliance T-20 Rotor No. AU-12 (above, right)

John G. Fauger, 169 S. Main St., Drew, Miss., wins choice of merchandise worth $5 from Olson's "Treasure Hunt." See back cover for instructions.



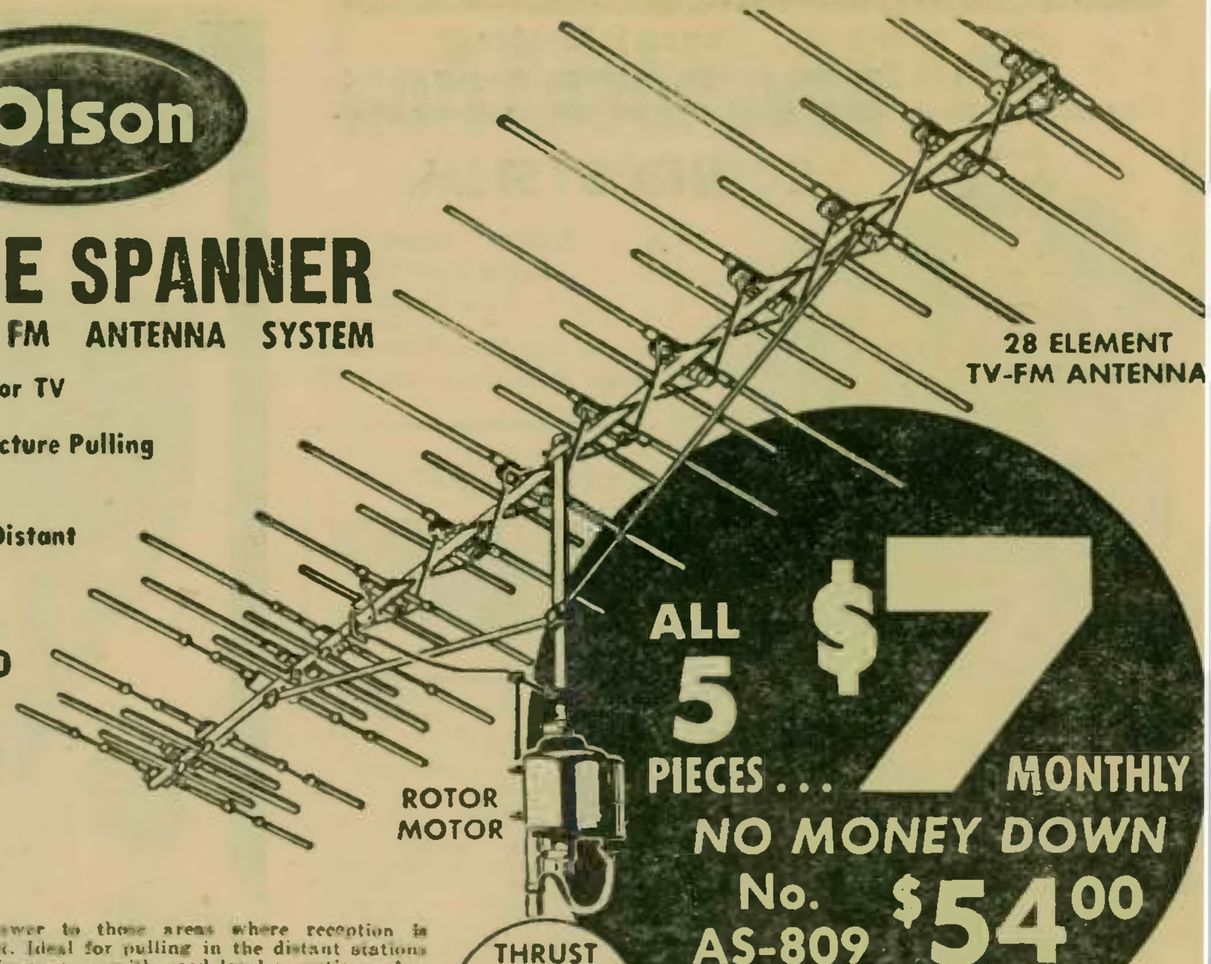
Olson

# RANGE SPANNER

5-Pc. TV-FM ANTENNA SYSTEM

★Ideal for color TV
★Maximum Picture Pulling Power
★Beam-In on Distant Stations

RANGE TO
**175**
MILES



28 ELEMENT TV-FM ANTENNA
ROTOR MOTOR
THRUST BEARING
100 FT. CABLE
CONTROL BOX

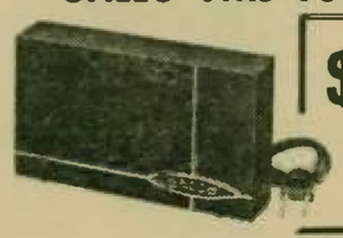
ALL 5 PIECES . . . **$7** MONTHLY
NO MONEY DOWN
No. AS-809 **$54.00**

Here's the answer to those areas where reception is really hard to get. Ideal for pulling in the distant stations even if you live in an area with good local reception. Antenna has extremely high front-to-back ratio to assure clean high gain signal with a minimum of unwanted interference from side and back of antenna. Alliance Deluxe T-20 rotor turns antenna 360° with just a touch of your finger on the control box. Also included at this special price; AU-13 thrust bearing to relieve strain on motor bearings and W-62 100 ft. 4 cond. wire. Shpg. wt. 30½ lbs. Shipped railway express for more careful handling.

**RANGE SPANNER UNITS SEPARATELY:**

| | | |
|---|---|---|
| 28 ELEMENT IN-LINE TV-FM ANTENNA | No. AA-95 | $27.9 |
| ALLIANCE T-20 TENNA-ROTOR COMPLETE WITH MOTOR & CONTROL BOX | No. AU-12 | $25.4 |
| ROTOR THRUST BEARING | No. AU-13 | $2.9 |
| 100 FT. 4 CONDUCTOR CABLE | No. W-62 | $2.9 |

# GALLO FMS-101 Indoor Antenna System



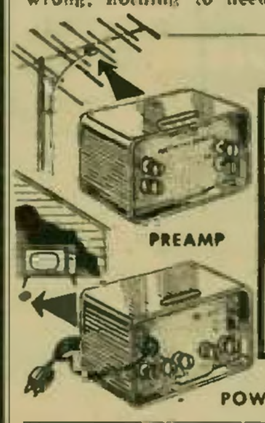
**$14.95** No. AA-107

Mfgr's. March 1963
Net Price $29.95

The Gallo FMS-101 will give you a high-quality, high-gain signal over the entire FM broadcast band. Just sit back and enjoy better music at its best, even from stations you could never listen to before!

The antenna system is compact, handsomely styled, fits into any room decor . . . attaches to your radio or tuner with just a screwdriver. It has an omni-directional antenna, coupled to an all-transistorized pre-amplifier, all completely enclosed in its sturdy case. Nothing to go wrong, nothing to need replacement ever. Shipping weight 2 lbs.

MADE IN U.S.A.



PREAMP
POWER SUPPLY

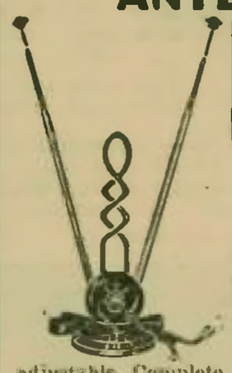
BOTH UNITS FOR **$21.97**
No. AA-96

Olson **Transistorized TV-FM Booster**

USE WITH ANY OF THE ANTENNAS AT LEFT
★ Properly Installed Will Last a Lifetime
★ Couples 2 Sets to Antenna without signal loss

Preamplifier mounts directly on antenna boom for greatest efficiency. For brightest, clearest picture possible. Separate AC operated power supply mounts near set, and includes built in phasing switch. Same 300 ohm lead that brings signal in carries operating current to preamp. No extra wiring, no batteries on roof to worry about. Shpg. wt. 2 lbs.

## Indoor TV-FM ANTENNA

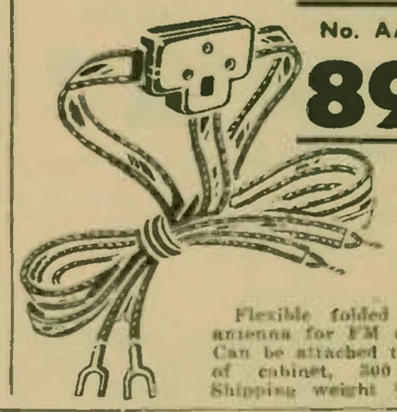


No. AA-25
**$1.91**
3 for $5

★ With 12-position switch

Covers VHF and UHF as well as FM Stereo. Has 12 position phasing switch and stub built into base for clearest pictures on any channel. Three section elements completely adjustable. Complete with 300 ohm lead-in for any set. Shipping weight 2 lbs.

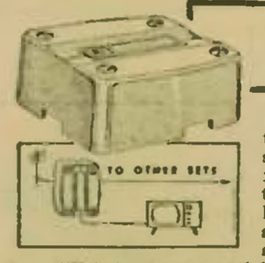
## FM Dipole ANTENNA



No. AA-71
**89c**

Flexible folded dipole antenna for FM or TV. Can be attached to back of cabinet, 300 ohm. Shipping weight ½ lb.

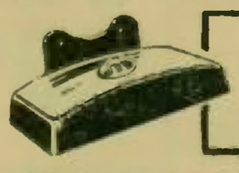
Deluxe Two-Set
# UHF-VHF COUPLER



**$3** No. AA-100

Enables operation of two TV sets or FM radios from single antenna without loss of signal strength. For standard 300 ohm line. With hardware and instructions. Size 3" x 2½" x 1⅝". Shipping weight ½ lb.

## TV-FM ANTENNA SPLITTER

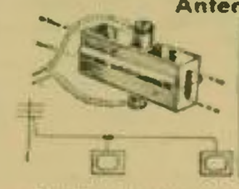


No. AA-30
**$1.69**
3 for $4.50

Balun coil type—operates 2 TV's from one antenna. Uses Balun Coils for maximum efficiency in the distribution and transfer of TV signals from a single antenna to 2 sets. Can also be used with a combination of TV and FM sets. Use with AA-61 and AA-69. 4" x 2¼" x 1½". Shipping weight ½ lb.

# TV-FM MASTER ANTENNA SYSTEM

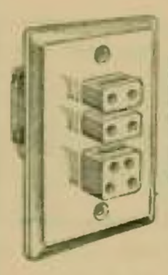
Connect Any Number of Sets to One Antenna



**$1.15** No. AA-69
3 for $3.09
Lots of 12, Ea. $1.00

Operate two or more TV sets or multiple systems. Operates 20 or more sets from one antenna without amplification. Provides clear reception on all channels with no interference between sets. Shipping weight ½ lb.

# WALL PLATE/COUPLER



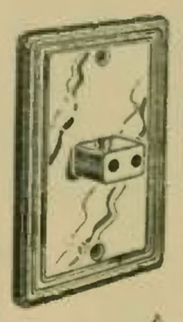
★ 2 TV Sets & Rotor
★ TV & FM plus Rotor

**$2.19** No. AA-99
3 for $6.00

Antenna wall jack combined with a highly efficient two-set coupler. You can connect two TV sets or a TV set and an FM radio to one antenna. A jack is also provided for a tenna rotor plug. This wall plate/coupler is complete with 3 polarized plugs, instructions, and hardware. Shipping weight ½ lb.

# TV-FM Wall Plate

★ Eliminates Unsightly Wires



**99c** No. AA-51
7 for $6
12 @ 65c ea.

Allows you to put an outlet for 300 ohm flat TV lead-in wherever you wish. No more unsightly wires. Comes with polarized plug, mounting hardware and complete instructions. Shipping weight ½ lb.

TWIN LINE



# TV-FM LEAD-IN

Made of pure polyethylene, conductors all stranded copper. Available in two grades:

22 Gauge Copper, 40 Mil Insulation

3 for $3
100' COIL No. W-73
**$1.19**
250' SPOOL No. W-312
3 for $6
**$2.3**
Shpg. wt. 3 lbs. Shpg. wt. 6 lbs.

20 Gauge Copper, 100 Mil Insulation

100' COIL No. W-311
3 for $5
**$1.98**
250' SPOOL No. W-313
3 for $9
**$3.3**
Shpg. wt. 3 lbs. Shpg. wt. 6 lbs.

# TV-FM Plug & Socket



★Kit of 3 Pairs

For TV or FM lead-in. No soldering. Plug size: ⅝" x 1¼". Socket: 1⅝" x 1" x 1⅛". Shpg. wt. ¼ lb.

4 Kits for $3.50
No. PL-59 **99c**

# TV-FM Plug & Socket



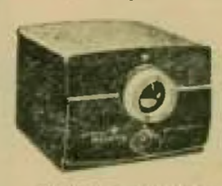
★Kit of 3 pairs

For TV, FM lead-in or speaker wire. No soldering. Plug: 1⅝" x ⅞"; socket: 1" x ⅞". Shpg. wt. ¼ lb.

4 Kits for $3.50
No. PL-60 **99c**

Regency
# UHF CONVERTER

★ Easy To Connect



No. RA-344
**$17.97** 3 for $50

Just put converter between antenna and TV set. Automatically disconnects antenna from converter and sends VHF signal through when not in use. Uses 6AF4-A oscillator tube and low-noise mixer diode. Handsome cabinet in dark mahogany. Size: 5⅝" x 2⅝" x 4". For 110-125 volts A.C. Shipping weight 5 lbs.

# Oval UHF Lead-in Wire

★ Heavy Gauge Insulation
★ 1
★ Lo



**$2.41**

Oval lead-in wire is designed extremely low loss, particularly at the er frequencies. This makes it ide UHF or unusually long lead-in lines. Fine wire, made by one of the nat largest wire manufacturers, feat heavy gauge insulation for long effic service. Shipping weight 5 lbs.

WRH

# ★ SLIDE RULES ★

## 5" Slide Rule




No. TL-424

**$2.29**

★ Vinyl Case
★ Engraved Scales

All plastic slide rule with engraved scales. Each number and marker is etched right into the surface so it will not rub off and become hard to read. Has A, B, C1, C, D, K, S, L and T scales. Also has a 5-inch ruler on one edge and 0-13 centimeter scale on the other edge. Over all size 5⅞" x 1¾", just right to fit your pocket. Shipping weight ¼ lb.

Salyer Radio Co., P. C. Box 460, Whitesburg, Ky., wins choice of merchandise worth $5 from Olson's "Treasure Hunt." See back cover for instructions.

## 10" LOG-LOG DUPLITRIG SLIDE RULE

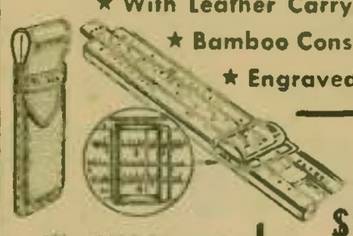


★ Warp-Free Construction
★ Complete with Leather Case

**$10.45** No. TL-373

Laminated, nonhygroscopic bamboo. Scales are engraved on white plastic. Scales are L, LL1, DF, CF, CIF, C, D, LL3, LL2, LL0, LL00, A, B, K, C1, C, D, S, ST and T. A valuable tool for high school and college students, technicians and engineers. With illustrated instruction manual, including sample problems. Shpg wt. ¾ lb.

## 4" SLIDE RULE



★ With Leather Carrying Case
★ Bamboo Construction
★ Engraved Scales

No. TL-366

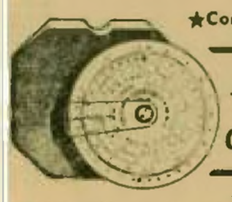
**$3.19**

3 for $9.00

2X CURSOR gives readings equivalent accuracy of an 8" slide rule.

Has A, B, C1, C, D, S, L, and T scales. Also 0 to 4" measuring scale divided into 32nds of an inch plus 0 to 10 millimeter scale. Size overall: 4⅞". Shpg. wt. ¼ lb.

## CIRCULAR SLIDE RULE



★Comparable to 10" Rule

No. TL-397 ONLY **$2**

Has as many subdivisions as a 10" rule. Conversion tables for volume, weight, length, velocity, and energy. Only 3⅛" in diameter. Complete with carrying case. Shipping weight ¼ lb.

## Jeweled Swiss Stop (n' Go) Watch



**$8.99** No. X-531

Scale divided in 1/10 seconds up to 30 seconds on outer dial. Inner dial registers up to 15 minutes. Side and crown push buttons for starting and stopping action, plus continuing action, from point where stopped: 1¾" dial. Shipping weight ½ lb.

## Sumit ADDING MACHINE

★ Adds, Subtracts, Multiplies, to 999,999.99

MADE IN U.S.A.



No. X-861

**$18.95**

SUMIT ideal as an auxiliary adding machine. "Scoop Control" the new system of control fingering that permits fast, accurate calculating. Dimensions—7" x 5" x 6". Durable metal housing. Shipping weight 5 lbs.

## 11-PIECE DRAFTING SET



★ Quality Instrument Made in W. Germany

**$2.49** No. X-472 3 for $7.25 Lots of 12, Ea. $2.20

8 compasses—1 divider, 1 pencil, 1 pen, all 3½". Combination divider, pen and pencil compass 4½". Side screw adjustment. Accessories. All brass nickelplated in felt lined snap case. Shpg. wt. ½ lb.

No. X-553 ★ Center Screw Adjustment
Shipping weight ¾ lb.

3 @ $4.70 ea., 12 @ $4.30 ea. EA. **$4.98**

## ZIP-CORD



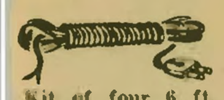
★ 18 Gauge
★ U. L. Approved

100 FOOT
No. W-318 Shipping Wt. 4 lbs. **2.59**

250 FOOT
No. W-317 Shipping Wt. 7 lbs. **4.49**

No. 18 stranded pure copper wire, brown vinyl insulated. For 117 v.

## AC LINE CORDS ..... 99c



Kit of 4
No. W-446

Kit of four 6 ft. AC line cords with standard plug. Ideal for replacing those old worn out electric cords. Shpg. wt. ¼ lb.

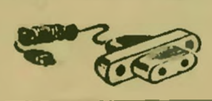
## Intercom CABLE



All copper, insulated and color coded.

| Stock No. | Conductors | 100 ft. | 300 ft. |
|---|---|---|---|
| W-103 | 2 | .89 | $2.50 |
| W-105 | 3 | $1.50 | $3.50 |
| W-354 | 11 | $7.00 | $20.00 |

## TV Interlock Cords ..3 for 99c



No. W-61

Kit of 3 standard TV interlock cords 6' long. Shpg. wt. ¼ lb.

## 18" Cheater Cord



1 end has TV interlock receptacle. Other end stripped and tinned. For connection to most TV receivers. Shipping weight ¼ lb.

No. W-389 6 for $1.00 ..... **19c**

## CRIMPING TOOL WITH TERMINALS



★ Cuts Wire
★ Strips Wire
★ Crimps Terminals

**$1.49** No. TL-369
3 for $4.00
Lots of 12, Ea. $1.25

Made of tempered tool steel, chrome plated with insulated handles. Size: 8⅛" long. Includes generous assortment of terminals. Shipping weight ½ lb.

Package of 41 Assorted Terminals
No. TL-376 ..... Per Pack $1.00

## 8-IN-1 TAP-A-LINE



No. W-278

**$1.47**

Up to 8 appliances can be handled. Ivory color 12" long. Six foot cable. ½ lb.

## STRANDED HOOK-UP WIRE

100' COILS

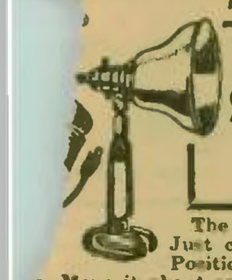


18 Gauge
1½ lbs. No. W-452 **79c**

16 Gauge
1½ lbs. No. W-453 **89c**

## Portable LAMP

Made in U.S.A.



No. X-617

**$1.72**

3 for $5

The handiest lamp ever. Just clamp onto anything. Position it over your work a. Move it about as you move. Has 4½" a. reflector and 6 ft. A.C. cord. Shipping ight 2 lbs.

## Holding FORCEPS

(Bent Tip)




**$2.49** No. TL-358 3 for $7

★ Provides a third hand

Outreaches, outholds needle nose pliers. Approximately 6" long, stainless steel finish. Snap-locks to hold parts while soldering. Used. Shpg. wt. ¼ lb.

Straight Tip Forcep
No. TL-364
3 for $7.00 ..... **$2.49**

# 500 FT. HOOK-UP WIRE

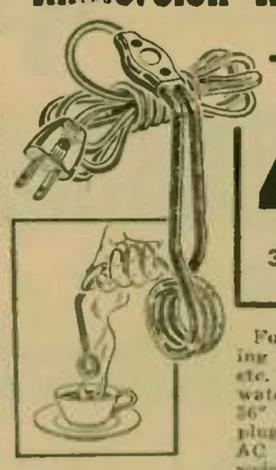
★ Rubber, Cotton or Vinyl Insulation
★ Solid and Stranded Types
★ Five 100 Ft. Coils

You get 5—100 ft. coils of insulated hook-up wire, both solid and stranded types. Each roll is well insulated with rubber, cotton or vinyl insulation. Ideal for kit building and repair work. Color code the circuits in your next kit by using a different color wire in each circuit. This will make future repairs and circuit tracing much easier. You will always have enough hook-up wire when you need it when you take advantage of this Olson bargain now. Shpg. weight 1½ lbs.

**$1.99** ★ No. AS-135



## Immersion HEATER



No. X-761

**49c**

3 for $1.20

For shaving, heating baby's bottle, etc. Gives boiling water in 3 minutes. 36" line cord with plug. For 110 volts AC only. Shipping weight ¼ lb.




Home Wire Assortment

NEW! NEW! NEW!

Olson **WIRE BANK**

A MUST FOR EVERY WORK BENCH

**8** DIFFERENT TYPES OF WIRE 1 ROLL EACH

★ 30' — 22 Ga. Hook-up Wire
★ 20' Miniature Clear Zip-Cord
★ 30' Bell Wire
★ 30' Aluminum Tie Wire
★ 94' Magnet Wire
★ 25' Rosin Core Solder
★ 15' Picture Wire
★ 30' Utility Copper Wire

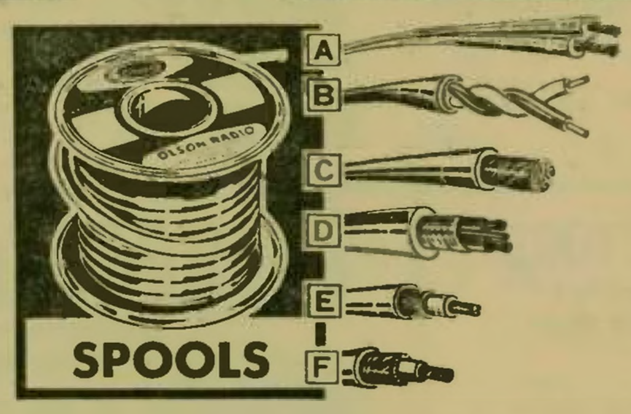
274 FEET
*(Plus Free Dispenser)*

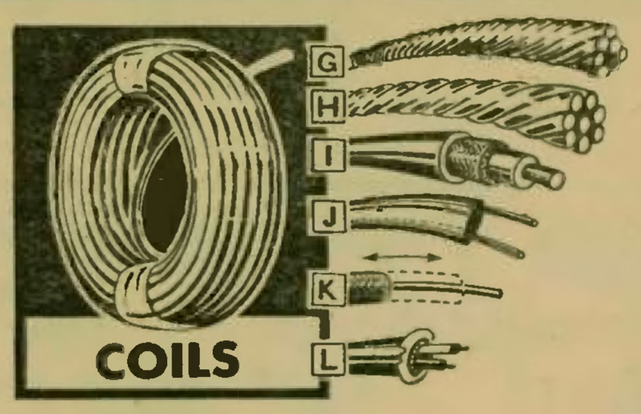
No. W-444

**$2**

Handy despenser box that can be hung on the wall or set on the bench. Now you can have the right type of wire, for every job at your finger tips. Shipping wt. 3 lbs.

# Olson WIRE VALUES




### A SPEAKER CABLE—53 FT.

• 2 Conductor
• Plastic Insulated
• No. 24 Stranded
• Shipping wt. ½ lb.

No. W-361 ..... **99c**

### A Speaker Cable—200 Ft.

• No. 24, Stranded
• Shpg. wt. 3 lbs.

No. W-399 ..... **$2.95**

### A Speaker Cable—100 Ft.

• No. 21, Polarized
• Heavy Duty
• Shipping wt. 3 lbs.

No. W-400 ..... **$1.95**

### B INTERCOM CABLE

No. 20 Stranded

3 COND. 28 FT. With Jacket No. W-366

2 COND. 60 FT. Less Jacket No. W-363

**99c** Shpg. wt. ½ lb.

### C HOOK-UP WIRE

No. 20 Stranded

• 75 Ft. Spool
• Vinyl Insulation
• Tinned Copper
• Shpg. wt. ½ lb.

No. W-375 **99c**

### D 2 Cond. Shielded 80 Ft.

2-No. 22 ga. stranded conductors

With aluminum foil shield. Plastic jacket. Shpg. wt. 3 lbs.

No. W-404 **$2.95**

### E MIKE CABLE—22 FT.

• 15" Diameter
• Gray Plastic Jacket
• Braided Sheild
• Shpg. wt. ½ lb.

No. W-362 ..... **99c**

### E MIKE CABLE—72 FT.

• 15" Diameter
• Lapel Mike Type
• Shpg. wt. 3 lbs.

No. W-401 **$2.95**

### E MIKE CABLE—60 FT.

• Heavy Duty
• .20" Diameter
• Shpg. wt. 4 lbs.

No. W-402 **$2.95**

### F AUDIO CABLE—23 FT.

Wrap shield, stranded center with grey plastic sheath. Shipping wt. ½ lb.

No. W-368 **99c**

75 Ft., No. W-403, Shpg. wt. 3 lbs. $2.95

### G Antenna Wire—50 Ft.

Stranded copper

Ideal for making citizens band and short wave antenna. Shpg. wt. ¾ lb.

No. W-378 ..... **99c**

### H GUY WIRE—100 FT.

Galvanized-Rust Resistant

• Heavy-Duty
• Stranded Steel
• Shpg. wt. 4 lbs.

No. W-380 ..... **99c**

### I COAXIAL CABLE—20 FT.

• Vinyl Insulation
• Shipping wt. ½ lb.

RG-59/U No. W-383
RG-58/U No. W-384 **99c**

### I COAXIAL CABLE—55 FT.

RG-59/U No. W-414
• Shipping wt. 3 lbs. **$2.95**

### I COAXIAL CABLE—55 Ft.

RG-58/U No. W-415
• Shipping Wt. 3 lbs. **$2.95**

### J DELUXE TWIN LEAD

100 FEET

Heavy duty 300 ohm lead-in for finest TV and FM reception. Shipping weight 3 lbs.

No. W-412 ..... **$2.95**

### K PUSH BACK WIRE

Genuine Lenz—100 Ft.

Solid tinned No. 22 gauge wire, with waxed push-back cotton insulation. Shipping weight ½ lb.

No. W-419, 3 for $2.00 **69c**

### L 14/2 ROMEX CABLE

50 Foot Coil

• Standard Electric Cable
• 14 Gauge
• 2 Conductor
• Shpg. wt. 6 lbs.

No. W-445, 3 for $5 **$1.80**

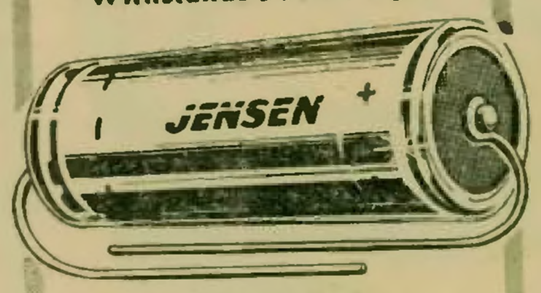
# JENSEN CAPACITORS

## Made In Denmark

Made in Denmark by Jensen's unhurried craftsmen who are proud to produce precision capacitors to exacting specifications. Every bit of insulation is the finest. Every processing standard is painstakingly maintained. Sealed in tubular aluminum cases and insulated overall with colored transparent plastic jacket. Equipped with long tinned leads. Average shipping weight each ¼ lb.



### 450 VOLT
Withstands 500V Surges



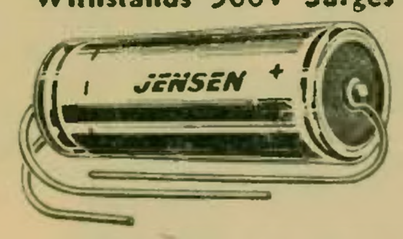

**20 MFD**
1¾" long x ⅞" dia.
6 for $3
No. C-152 ____ EA. **52c**

**40 MFD**
2⅜" long x 1" dia.
5 for $3
No. C-153 ____ EA. **79c**

**80 MFD**
2½" long x 1⅛" dia.
4 for $3
No. C-154 ____ EA. **99c**

**200 VOLT** Withstands 225V Surges
200 MFD, 2¾" long x 1" dia.,
No. C-155, 4 for $3 ____ EA. **99c**

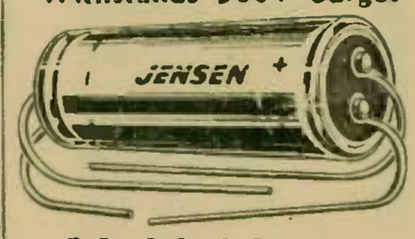
### DUAL
450 VOLT
Withstands 500V Surges




**20-20 MFD**
2⅜" long x 1" dia.
No. C-156
3 for $2
EACH ..... **79c**

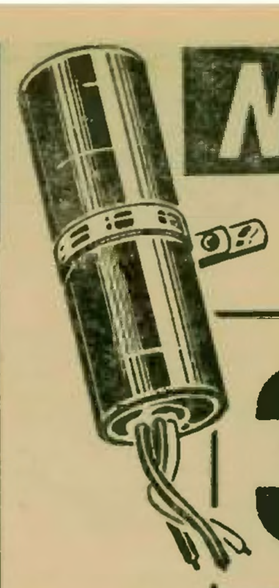
**40-40 MFD**
2¾" long x 1⅛" dia.
No. C-157
4 for $3
EACH ..... **99c**

### TRIPLE
450 VOLT
Withstands 500V Surges




**20-20-20 MFD**
2⅜" long x 1¼" dia.
No. C-158
4 for $3
EACH ..... **99c**

**40-40-40 MFD**
3" long x 1⅛" dia.
No. C-159
3 for $4
EACH ..... **$1.39**



## NEW Electrolytic CAPACITOR

### 50-30 Mfd. @ 150 Volts

**33c** No. C-149
7 for $2
50 for $12.50
Shpg. wt. ¼ lb.

★ Made In U.S.A. ★ Fresh Stock ★ Buy Now, Save

Size 2½" long x ⅞" diameter

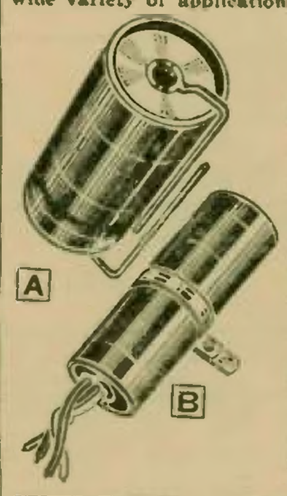
## ELECTROLYTIC VALUES

A new high in value, a new low in cost as Olson offers these two most popular electrolytic tubulars at rock bottom prices. Full insulation protects against heat and humidity. Shipping weight ¼ lb. each.

**50-30 MFD @ 150 WVDC** — **39c** No. C-630, 3 for $1

**40-40-20 MFD @ 150 WVDC** — **75c** No. C-803, 3 for $2

These factory fresh capacitors are all available at low Olson prices. Ideally suited to wide variety of applications where dependable service is required.




| Stock No. | Capacity MFD | WVDC | Size Length | Size Width | EA. | Lots of 100 Each |
|---|---|---|---|---|---|---|
| A C-138 | 20 | 150 | 1¾" | ¾" | 40c | 3 FOR $1 |
| A C-141 | 8 | 450 | 1¾" | ⅞" | 40c | 3 FOR $1 |
| A C-142 | 20 | 450 | 2⅞" | 1⅛" | 50c | 5 FOR $2 |
| B C-143 | 50-50 | 150 | 2¼" | 1" | 35c | 7 FOR $2 |
| B C-144 | 80-40-20 | 150 | 2¾" | 1" | 59c | 6 FOR $3 |
| B C-145 | 50-30-20 | 150 | 2½" | 1" | 49c | 5 FOR $2 |
| B C-147 | 70-30 | 150 | 2½" | 1" | 35c | 7 FOR $3 |
| B C-148 | 100-50 | 150 | 2¾" | 1" | 69c | 3 FOR $ |

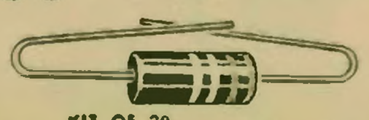
Barlett Engr. Co., 221 W. Exchange St., Providence 3, R. I. wins choice of merchandise worth $5 from Olson's "Treasure Hunt". See back cover for instructions.

## RESISTOR KITS

MADE IN U.S.A.

★ ★ ★ Five new, carefully selected resistor kits to save you time and money. Values selected for kits are the results of years of experience in supplying your needs. Ideal for service technician, student, experimental lab, and anywhere electronic components are used. Manufactured for Olson by a famous U. S. manufacturer. ★ ★ ★

### 30 Most Needed ½-W Carbon RESISTORS



KIT OF 30 **$1.69** No. R-62
6 @ 1.49 ea.
Shpg. wt. ½ lb.

| OHMS | OHMS | OHMS | OHMS | OHMS |
|---|---|---|---|---|
| 10 | 150 | 2.2 K | 33 K | 330 K |
| 15 | 220 | 4.7 K | 47 K | 470 K |
| 22 | 330 | 6.8 K | 68 K | 1 meg. |
| 33 | 470 | 10 K | 100 K | 1.5 meg. |
| 47 | 1 K | 15 K | 150 K | 2.2 meg. |
| 100 | 1.5 K | 22 K | 220 K | 10 meg. |

### 20 Most Common 1 W. CARBON RESISTORS



KIT OF 20 **$1.69** No. R-63
6 @ 1.49 ea.
Shpg. wt. ½ lb.

| OHMS | OHMS | OHMS | OHMS | OHMS |
|---|---|---|---|---|
| 10 | 47 | 470 | 10 K | 150 K |
| 15 | 100 | 1 K | 15 K | 330 K |
| 22 | 150 | 1.5 K | 47 K | 470 K |
| 33 | 330 | 4.7 K | 100 K | 1 M |

### COMBINATION KIT



★ 30-½ Watt/20-1 Watt
**$2.98** No. R-64
6 @ $2.79 ea.
See No. R-62 and No. R-63 for values all in one handy kit at a savings.
Shpg. wt. ¾ lb.

### 18 10 Watt Wire Wound RESISTORS



KIT OF 18 **$1.98** No. R-65
6 @ $1.89 ea.
Shpg. wt. 1 lb.

| OHMS | OHMS | OHMS | OHMS |
|---|---|---|---|
| 5 | 150 | 1500 | 7500 |
| 10 | 200 | 2000 | 10000 |
| 25 | 400 | 2500 | 15000 |
| 50 | 500 | 4000 | |
| 10 | 1000 | 5000 | |

### 10-Watt Wire Wound Resistors



Kit of 27 Most Popular Values PER KIT
**$2.50** No. AS-357
Shpg. wt. 2 lbs.

## MINIATURE CAPACITORS

### MYLAR BYPASS
★ Packaged 10 of a type per kit
Shipping weight ¼ lb.



PER KIT **$1.29**

Miniature (⅜" x ½"), single ended, for easier repair work on transistor circuits.

| No. | MFD | WVDC |
|---|---|---|
| C-971 | .001 | 100 |
| C-972 | .005 | 100 |
| C-973 | .01 | 100 |
| C-974 | .02 | 100 |
| C-975 | .04 | 100 |
| C-976 | .05 | 100 |
| C-977 | .1 | 100 |

### ELECTROLYTICS
★ STOCK UP NOW!



Poly plastic jacket protection. Designed for reliability, and ease of installation. Size approximately ⅛" dia. x ½" long. Shpg. wt. ¼ lb.

| Stock No. | MFD | WV-DC | YOUR PRICE |
|---|---|---|---|
| C-966 | 5 | 10 | 5 FOR 99c |
| C-967 | 10 | 10 | 5 FOR 99c |
| C-968 | 30 | 10 | 5 FOR 99c |
| C-969 | 50 | 10 | 5 FOR 99c |
| C-970 | 100 | 10 | 5 FOR 99c |

### 600 WV DC CONDENSERS



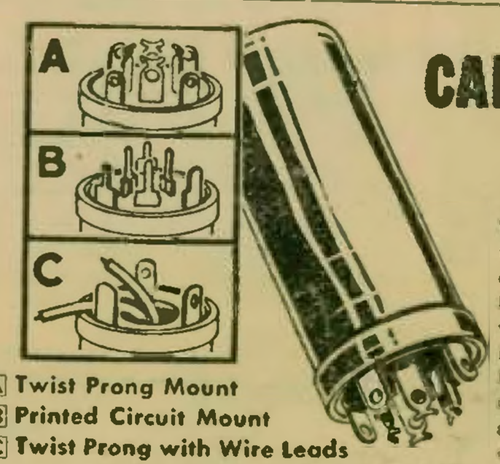
KIT OF 100 **$5.69** No. AS-268

| Q'ty | MFD |
|---|---|
| 10 | .001 |
| 10 | .002 |
| 10 | .005 |
| 20 | .01 |
| 20 | .02 |
| 20 | .05 |
| 10 | .1 |

Shpg. wt. 2 lbs.

## ELECTROLYTIC CAN CAPACITORS

★ MADE IN U.S.A.
★ BRAND NEW!




A Twist Prong Mount
B Printed Circuit Mount
C Twist Prong with Wire Leads

Never before has Olson offered Bargain like this on Metal Electrolytics. Both twist prong and printed circuit types are available. All are popular capacities at standard working voltages. All fresh brand new stock from leading American manufacturers. Buy in standard package quantities and save real money. Ideal for service men and experimenters. Limited quantities on some numbers. Shpg. wt. ¼ lb. each.

| Stock No. | Type | Capacity | Working Volts D.C. | Size | |
|---|---|---|---|---|---|
| C-906 | B | 450/100/50 | 16 | 1"x2" | 5 OF A NUMBER $1 |

| Stock No. | Type | Capacity | Working Volts D.C. | Size | |
|---|---|---|---|---|---|
| C-903 | A | 500/150 | 16 | 1"x2" | 4 OF A NUMBER $1 |
| C-164 | A | 40 | 250 | 2⅛"x1" | |
| C-161 | A | 100/80/60 | 160 | 3"x1" | |

| Stock No. | Type | Capacity | Working Volts D.C. | Size | |
|---|---|---|---|---|---|
| C-982 | A | 40/10/40 | 350/350/350 | 1⅜"x3" | 2 OF A NUMBER $1 |
| C-984 | A | 5/100/200 | 500/300/15 | 1⅜"x4" | |
| C-918 | A | 40/40 | 150 | 1"x2" | |
| C-150 | C | 50-30 | 150 | 2½"x1⅛" | |
| C-163 | A | 40/40/50 | 350/350/50 | 4" x 1" | |

## ATR VIBRATORS



Lots of 3 Ea. 96c
10 for $8.99
EACH... **$1.29**

Popular non-synchronous types in 6 and 12 volt. Size: 1½" x 2⅞".

★ May Be Assorted For Quantity Price

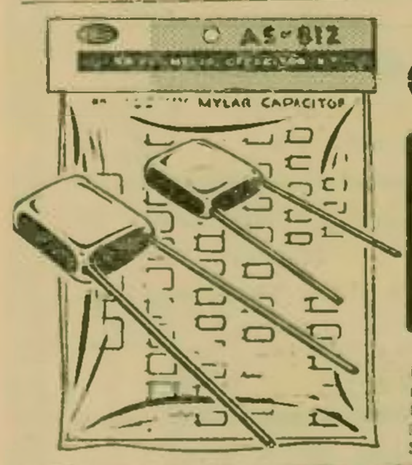
Choose from these

**6-VOLT, 4-PIN No. V8-60**
Replaces Mallory 284, 859, 901 M, Radiart 5500, 5501, Vokar NP-42-V; many others. Shpg. wt. ½ lb.

**12-VOLT, 3-PIN No. V8-61**
Replaces ATR 1349, C-D 6330, Delco 8550, 1220-160, Mallory G874, Radiart 6330. Shpg. wt. ¼ lb.

**12-VOLT, 4-PIN No. V8-62**
Replaces ATR 1340 and Mallory C859, also many others for new 12 V car radios. Shpg. wt. ¼ lb.

## 50-Pc Mylar CAPACITOR KIT




No. AS-812 **$3.50**

★ 600 Volts

| Qty. | Mfd. | Qty. | Mfd |
|---|---|---|---|
| 5 | .1 | 10 | .05 |
| 5 | .005 | 10 | .02 |
| 5 | .002 | 10 | .01 |
| 5 | .001 | | |

Kit of 50 carefully selected mylar capacitors to fill most of your replacement and construction needs. Mylar insulation withstands heat and moisture. All are rated at 600 volts. Ultra compact size makes replacement, even in small spaces, easy. Shipping weight ½ lb.

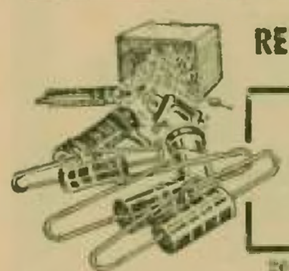
### 600 VOLT TUBULARS



Molded for greater protection. Factory fresh, capacity and working voltage clearly marked. Long, flexible, tinned leads firmly imbedded. Shpg. wt. ¼ lb.

| Stock No. | MFD | SIZE | YOUR PRICE | Lots of 100 ea |
|---|---|---|---|---|
| C-304 | .001 | ¼ x ¾ | 12 for $1.00 | 6c |
| C-305 | .002 | ¼ x ¾ | 12 for $1.00 | 6c |
| C-306 | .005 | ¼ x ¾ | 12 for $1.00 | 6c |
| C-307 | .01 | ¼ x 1 | 11 for $1.00 | 7c |
| C-309 | .05 | ½ x 1¼ | 10 for $1.00 | 7c |
| C-310 | .1 | ⅝ x 1⅜ | 7 for $1.00 | 9c |

### RESISTOR KIT
★ 232 Pieces



No. AS-84
Per Kit **$3.99**
3 kits, $11.50

200 assorted ½, 1, 2-watt carbon resistors; 32 assorted 5 to 25-watt wire-wound resistors. Popular values deliberately chosen to satisfy most replacement needs. Shipping weight 4 lbs.

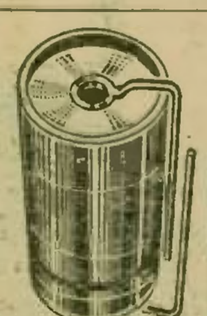
### Kit of 100 CERAMIC CAPACITORS
★ Tubular and Disc



**99c** Kit of 100
No. K-90

Rated at 500 volts or more. Kit contains values worth more than the cost of the kit. A must for every workbench at this low price. Shipping weight ½ lb.

### AEROVOX Electrolytic CAPACITOR
16 MFD • 450V



No. C-137
12 FOR $5.00
2 FOR **$1**
Shpg. wt. ¼ lb.

The most popular value filter condenser for power supplies and experimental circuits. Also a very popular replacement value. These fine hermetically sealed condensers from Aerovox are available for a limited time only at this low price. Shipping weight ½ lb.

### Miniature RESISTORS
UPRIGHT MOUNT FOR TRANSISTOR CIRCUITS
Kit of 28



★ RATED AT ½ WATT

No. R-54 **$1.99**
3 Kits for $5.50

Consists of 2 each: 10, 68, 100, 470, 1000, 3300, 4700, 15,000, 33,000, 47,000, 100,000, 220,000, 270,000 ohms, and 1 meg ohm. Sizes: ⅜"x1¼" dia. Shpg. wt. ½ lb.

### Glo-Bar DROPPING RESISTO



No. R-40
**$2.9**
3 for $8.00

Reduces 12 volts battery to 6 volts D. C. to 10 amps. Changes resistance with load. Shipping weight ½ lb.

# 6 Transistor RADIO

★ With Battery, Earphone & Case

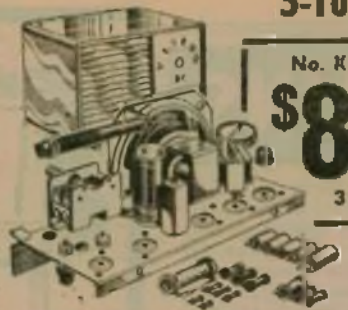


No. RA-544

**$8**

A handsome personal radio with 6 transistors and germanium diode in a powerful superheterodyne circuit—a total of 7 semi-conductors. Features push-pull audio output, built-in FM speaker, personal ear-phone jack and carrying case. Tunes standard broadcast band. Size: 2⅝" W x 4¼" H x 1¼" D. Styles may vary slightly. Shipping weight 2 lbs.

## 5-Tube AC-DC Radio Kit



No. KB-83

**$8.49**

3 for $24

KIT OF 5 TUBES FOR ABOVE
No. AS-533 _____ Per Kit **$2**

**Major Components Preassembled!**

**. . . ANYONE CAN BUILD THIS KIT!**

Consists of prepunched chassis, socket, I.F. transformer and coils, oscillator coil, hi "Q" loopstick antenna, controls, 4" PM speaker, cabinet, output transformer, capacitors and resistors to build a sensitive superheterodyne broadcast band (530-1600 KC) receiver. 8 page instruction manual has 5 full page illustrations to simplify construction. The ideal kit for schools, clubs and other organizations. Size: 6½" x 3⅛" x 4⅝". For 110-125 volts AC or DC. Less tubes. Shipping weight 4 pounds.

## 5 Tube Printed Circuit RADIO KIT



No. KB-150

**$8.98**

(Less Tubes)

The mounting of each part is a simple operation because of the specially designed "Print-a-Board" circuit board layout employed, coupled with the easy to follow "Quick-Step" instructions. The high gain tubes, IF transformers and ferrite bar antenna result in excellent sensitivity. 4" PM speaker. 110-125 volts AC or DC. Shipping weight 3 pounds.

KIT OF 5 TUBES FOR ABOVE
No. AS-533 _____ Per Kit **$2**



Olson

## FM-AM TABLE RADIO

★ NON-DRIFT RECEPTION
★ SLIDE RULE TUNING

No. RA-402

**$21.99** ★

Tunes broadcast band 535 to 1605 KC and FM band 88 to 108 MC. Has built-in ferrotrik antenna for AM band which gives excellent static-free reception and wonderful sensitivity. A length of wire provides superb performance in most areas. However for FM-DX reception an outside dipole should be used. (TV antenna is suitable). Oval 4x6 PM speaker gives full response sound, that surpasses that of much larger and more costly receivers. 6 tubes and 2 diodes and selenium rectifier. Has safety interlock cord plus 3 controls: volume, tuning and band selector. Handsome two tone cabinet. For 110-125 volts AC or DC. 6" x 6½" x 11". Shpg. wt. 8 lbs.

## TRANSISTOR 6 RADIO CHASSIS

★ Chassis Pre-Wired



No. KB-143 **$5.97**

Less Transistors

Miniature 6 transistor radio chassis for custom mounting anywhere. Completely assembled and ready to mount. (less transistors). Powerful push-pull output will drive any size speaker to room filling volume. Has earphone jack. Uses standard 9 volt battery (not included). With transistor mounting instructions. Size: 2¾" x 3" x 1⅝". Standard shirt pocket size. Shipping weight ½ pound.

Set of 6 Transistors, No. TR-20 ... $1.99
2½" PM Speaker No. S-502 ... 1.19
Earphone, No. PH-81 ... .54
Battery, No. BA-89 ... .21

★ Leather Case




★ Telescoping Antenna

★ Earphone with Case

NEW NEW NEW NEW NEW NEW

**$13.81**

No. RA-578

## 9 TRANSISTOR RADIO

An outstanding buy complete with all accessories—genuine top-grain leather case, earphone, earphone cord, telescoping antenna and batteries. Has the look and feel of a fine camera plus the advanced engineering and construction needed for dependable, satisfying listening. Latest superheterodyne circuit with 9 transistors and one diode gives superlative selectivity and sensitivity. Telescoping antenna can be attached to top of radio for really distant stations. Acoustically matched, powerful 2¾ in. PM speaker delivers clear undistorted sound. Operates on 4 standard pen-light cells (included). Size: 5⅞" W x 3½" H x 1½" D. Shipping weight 5 lbs.

Batteries for above (4 req'd.) No. BA-67 ... 8 for 59¢

# Semi-Conductor and Quality Parts BARGAINS

Here's a real "TOP VALUE" for the experimenter or serviceman. Each printed circuit board is made in U.S.A. and loaded with highest quality, standard brand, precision parts! Includes: PNP and/or NPN transistors, 5% resistors, glass diodes, ceramic capacitors, etc. Standard brand names included are: Sprague, General Transistor, Sylvania, General Electric, Pyramid, and others. These parts can easily be removed from the circuit boards for reuse in other circuits. These boards cost the manufacturer many times Olson's low price. Stock up now while our supply lasts. Size of board: 4½x8½x ¾" including sturdy steel frame. Style may vary and you may get extra parts.




**ALL FOR . . . $1.50**

No. X-911

## 6 Transistors (PLUS) 50 Parts

Each board contains at least 6 transistors plus 50 other components, such as resistors, glass diodes, and ceramic capacitors. Styles vary and you may get extra parts. Shpg. wt. 2 lbs.



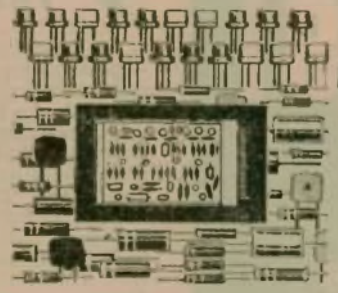

## 12 TRANSISTORS (PLUS) 60 PARTS

**ALL FOR $2.50**

No. X-912

Each board contains at least 12 transistors plus 60 additional parts such as resistors, glass diodes, and ceramic capacitors. Styles vary and you may get extra parts. Shipping weight 2 lbs.

## 20 TRANSISTORS (PLUS) 80 PARTS



**ALL FOR .. $6**

No. X-913

Each board contains at least 20 transistors plus 80 additional components such as resistors, diodes, and ceramic capacitors. Styles vary and you may get extra parts. Shpg. weight 3 lbs.

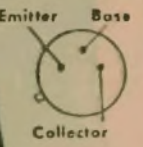
# TRANSISTORS

*Made By A Leading U.S.A. Manufacturer!*



**BRAND NEW**

**YOUR CHOICE**




**$1**

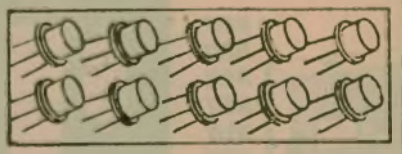
**BAG OF 10**

No. TR-21

**BAG OF 15**

No. TR-22

## PNP High Frequency AUDIO

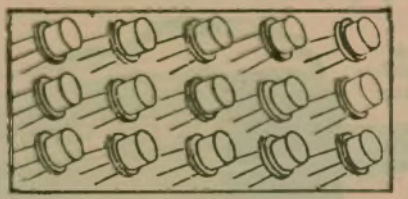


**Save $2 $8**

*10 BAGS (100 Transistors)*

Brand new, first quality transistors with full length leads. Ideal for experimental and replacements needs in high frequency audio circuits. Replaces many popular numbers without circuit changes. These transistors are made by one of the leading U. S. manufacturers. Shipping weight 2 lbs.

## PNP General Purpose AUDIO

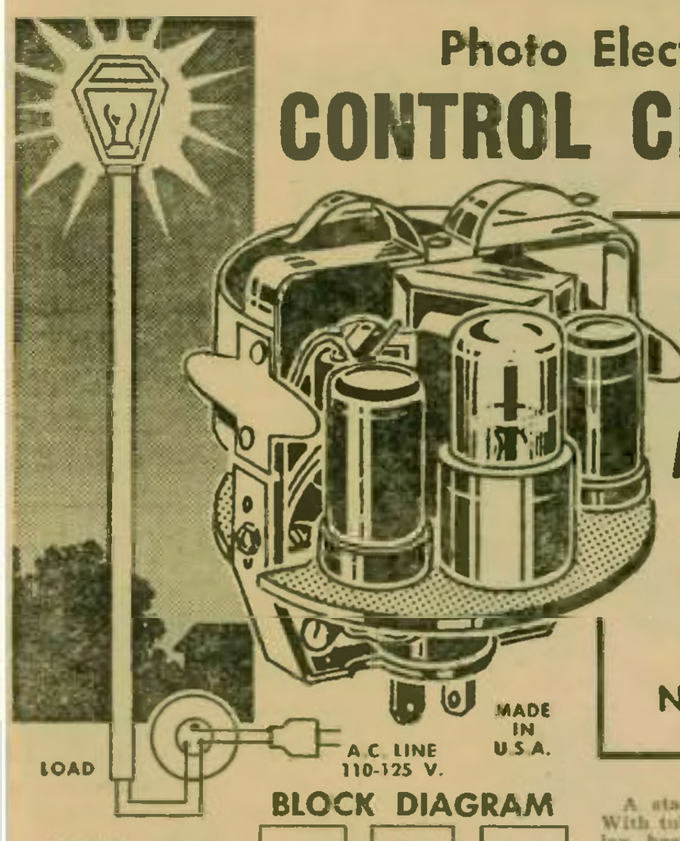


**Save $2 $8**

*10 BAGS (150 Transistors)*

These first quality audio transistors will work in most audio circuits as replacements or use them for 90% of experimental audio applications. Replaces many popular numbers without circuit changes. All are brand new with full length wire leads. Shipping weight 2 lbs.

# Photo Electric CONTROL CHASSIS

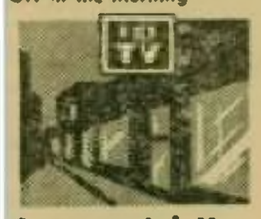





SOLD FOR ~~$5.59~~
IN 163 CAT.
**NOW $2.99**
No. SW-220

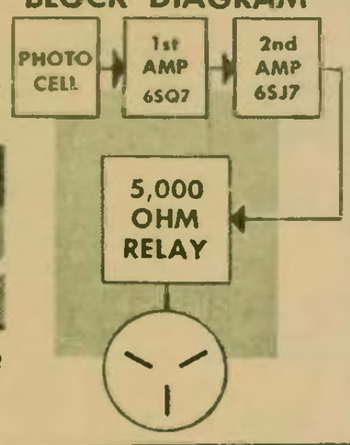
MADE IN U.S.A.

**HOME USE**
Turns Yardlights, Houselights on at Night—Off in the Morning



**Commercial Use**
Turns Display Signs Etc. On at Night—Off in the Morning

**BLOCK DIAGRAM**



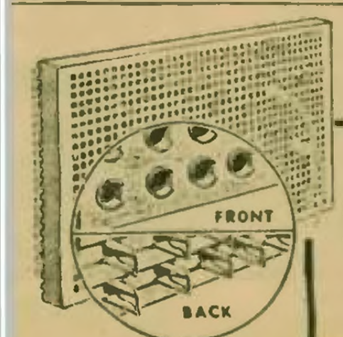

A stable 2-stage photo relay. With tubes and instructions. Relay has double break S.P.S.T. contacts. Especially sensitive to light in the blue portion of the spectrum. Sensitivity can be varied to suit illumination levels. Delay circuit in light amplifier prevents premature triggering of relay due to headlights, lightning, etc. Can be used to turn on display sign at night or turn displays off in morning. Complete with tubes and instructions. Appearance may vary from illustration. Size: 4½" diameter; 3" above chassis, 2½" below chassis. Buy now at a fraction of the mfr's. original cost. Used. 110-125 volts A. C. Shipping weight 4 lbs.

## PARTS VALUE—Photo Electric Control Chassis

A wonderful buy of parts, transformers, relays, controls, etc. All parts OK but units not operable. Buy now & save. Used. Shipping weight 4 lbs.

**SALE 99c** No. X-895 Reg. $1.32

## PATCH BOARD




No. PL-88
**$1.69**
3 for $4.50

700 jacks to a board. Jacks take standard pin plugs. Heavy ⅜" board. Jacks are on ¼" centers. Set up experimental circuits instantly. An excellent item for the experimenter, engineer, student, etc. for multiple connection. Single conductor patching of test circuits. Patch board is 10¼" x 5". Shpg. wt. 4 lbs.

## TWO PATCHBOARDS WITH CORDS $4.41

★ Includes at least 40 Patch Cords — No. PL-90
Shipping Weight 6 lbs. Complete

## SILICON CAPSULE

IOR INTERNATIONAL RECTIFIER




No. RE-51
PER CAPSULE
**$3.99**
3 Capsules $10
Lots of 12 Capsules, Ea. $3

• 1 V. @ 10 TO 16 MA
**5" COLOR CODED LEADS**

Each capsule contains 2 cells already connected in series and ready to deliver .9 to 1 volts @ 10 to 16 MA depending on brilliance of sun. Size: 1⅛" x 1½". Shipping wt. ¼ lb.

## Modular TUBE STACK



No. RA-454
Ea. **19c**
6 for $1
Stack Less Tubes

May contain diodes, capacitors, etc. Units may vary. Used. Shipping weight ¼ lb.

**See Order Blank For Other Fantastic Semi-Conductor & Parts Bargains**

McCook TV & Hi-Fi Center, 417 West McCook, Nebr., wins choice of merchandise worth $5 from Olson's "Treasure Chest". See back cover for instructions.

## MMFD Variable CAPACITOR



⅞" square, with short shaft and 1¾" dia. transparent engraved dial. Shipping weight ½ lb.
No. C-861, 3 for $2 **81c**

## Miniature Volume Control With Switch



For transistor circuits. Complete with switch and knob. Shipping weight ¼ lb.
500 Ohm, VC-258, 4 for $3.50, ea. 99c
500 Ohm, VC-259, 4 for $2.50, ea. 99c

## SELENIUM CELLS



• .5 Volts @ 1-2 M.A.
• 5" Colord Coded Leads
No. RE-50
**69c**
3 for $2
12 for $6.95
Lots of 100, Ea. 50c

Given up to .5 volts to 2 M.A. in average sunlight. Size: 1⅛" x ⅝". Shipping weight ¼ lb.

## SOLAR CELL KIT



8 assorted selenium photo cells. Output from ⅛ to ½ volts. Current output from 250 micro-amps to 5 MA. Made by International Rectifier. Shpg. wt. ¼ lb.
No. RE-77 ..... KIT OF 8, **$1.98**

## FERRI-TENNA



Use with any 365-410 MMF variable condenser. Coil tapped for properly matching transistor input. With instructions. Shipping weight ¼ lb. Lots of 100. Ea. 35c.
No. L-73, 2 for $1 ..... Ea. **71c**

## FERRITE BAR ANTENNA COILS



★ KIT OF 3
Replaces most antenna coils in transistor radios. Size: 2¼" x ½", 2⅜" x ¾", and 1⅝" x ⅝". Shpg. wt. ⅝ lb.
No. L-82 ..... **79c**

## 2-Gang Variable Condenser

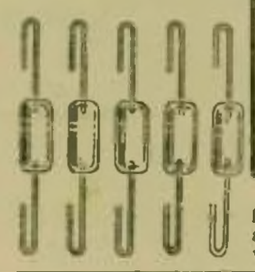


No. C-995
**$1.49**
3 for $4.00

Two gang variable condenser for superhet transistor radios. Use for replacement or new construction. Can be used in printed circuit board or standard wiring. Size: ⅞" x 1⅝" x 1½" long. Shipping weight ¼ lb.

# 88c TRANSISTOR - DIODE BARGAINS!

## GERMANIUM DIODES



No. DI-18
10 FOR **88c**

Replaces 1N34, 1N34A, 1N60 and 1N51. Shp. wt. ¼ lb.

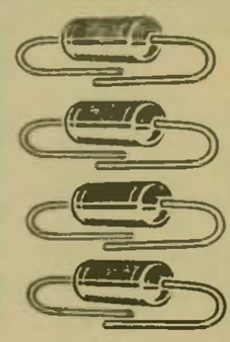
## SILICON DIODES



No. DI-19
6 FOR **88c**

Replaces general purpose types 1N34, 1N34A, 1N51, 1N456, 1N625, 1N482, etc. Forward current 100 MA. Reverse current 25 UA. Shipping weight ¼ lb.

## 500 MA Silicon DIODES



★ RMS 280 Volts
★ PIV; 400 Volts
Shpg. wt. ¼ lb.
No. RE-76
4 FOR **88c**

## TOP HAT Silicon Diode



★ 500 MA
★ RMS 280 Volts
★ PIV; 400 VOLTS
Shpg. wt. ¼ lb.
No. RE-73
3 FOR **88c**

## Sylvania TRANSISTORS

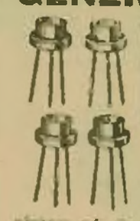


Your Choice 2 for **88c**

SYLVANIA 2N1265—PNP AUDIO
No. X-801
Similar to General Transistor GT-222, G. E. 2N107 and Raytheon CK-722.

SYLVANIA 2N233 NPN RF AMPLIFIER
No. X-802
Similar to General Transistor GT-229, G. E. 2N170 and Sylvania 2N229. Shipping weight ¼ lb.

## GENERAL PURPOSE



No. TR-16
4 FOR **88c**

Pkg. of 4 PNP junction transistors similar in characteristics to GE 2N-107. A high quality transistor at a low price suitable for experimenters and hobbyists. Shipping weight ¼ lb.

## POWER TRANSISTORS



**69c**
3 for $2.00
Lots of 100, Each 59c
Shpg. wt. ¼ lb.

**No. TR-13 Low Wattage Type**
A general replacement for low wattage types such as —2N176, 2N178, 2N179, 2N255, 2N256, 2N257, TS176.

**No. TR-14 Med. Wattage Type**
A general replacement for medium and low wattage types such as—2N155, 2N156, 2N230, 2N250, 2N301, 2N301A, 2N307, 2N325, 2N350, 2N350A, 2N351, 2N351A, 2N376, 2N376A, 2N554, 2N555, CTP 1104, CTP1108, CTP1109, CTP1117, CTP1137.

**No. TR-15 High Wattage Type**
A general replacement for high, medium and low wattage types such as—2N176B, 2N176G, 2N234, 2N234A, 2N235, 2N235A, N235B, 2N236, 2N236A, 2N236B, 2N242, 2N285, 2N285A, 2N307A, 2N352, 2N363, 2N399, 2N400, 2N401, 2N669.

**Motorola Power Transistor MOUNTING KIT**
No. X-773 ..... 4 for 99c



## PNP Audio TRANSISTOR

No. TR-12
**$1.99**
3 for $5

2N173, 2N174, 2N277, 2N278, 2N441, 2N442, 2N433. Shpg. wt. ¼ lb.

## TRANSISTORS

YOU CAN RELY ON **RCA Quality**

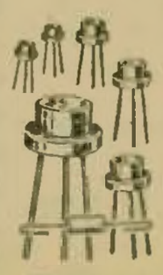


| Stock No. | RCA No. | Description | Net Each |
|---|---|---|---|
| X-745 | 2N412 | Mixer-oscillator | 89c |
| X-748 | 2N408 | Audio Output | 66c |
| X-746 | 2N410 | I. F. Amplifier | 86c |

**INDUSTRO TRANSISTORS**

| Stock No. | RCA No. | Description | Net Each |
|---|---|---|---|
| X-857 | 2N633 | Audio Output | 88c |
| X-858 | 2N482 | I. F. Amplifier | 88c |
| X-859 | 2N485 | Mixer-oscillator | 88c |

## TRANSISTORS



★ MATCHED SET OF 6
Plus one diode
No. TR-20
PER SET ... **$1.99**
3 Sets, $5.50

Consists of: 1—mixer, 2—IF's, 1—driver and 2 output PNP transistors. Plus diode. Shipping weight ¼ lb.

## SEMI-CONDUCTOR ASSORTMENT

11 PIECES
1—TRANSISTOR
1—CONTROLLED RECTIFIER
8—DIODES
1—SILICON SOLAR CELL
★ Diagrams Included

**NEW**



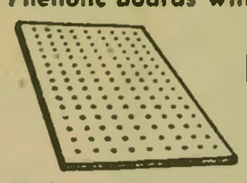
No. RE-82
**$2.98**

Here's an Olson "Top-Value" for experimentors and hobbyists. Kit contains 11 semi-conductor devices including controlled rectifier, transistor, diodes, and a silicon solar cell. Diagrams are included to make the following: Audio oscillator, transistor preamplifier, photo cell light meter, photo electric relay, power supplies, automatic tachometer, and many others. Shipping weight ¼ lb.

# Olson PERF-BOARD

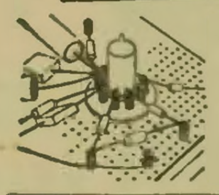
**COMPLETE—Fast and Simple To Use—Solderless Breadboard Circuit Components**

**BUILD, DESIGN, CONSTRUCT RAPIDLY—Experimental or Permanent Electronics Circuits. Accepts OLSON Miniature Components (at right) for rapid set-up. May be easily cut with saw, to size you desire. Phenolic Boards with 3/32" holes punched on .265 centers, 1/16" thick.**
Shipping weight ¼ lb.

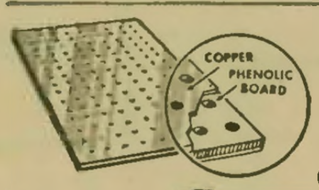


## UNCLAD PERF-BOARD

★ For Experimental & Design



| No. | Size (Punched) | Ea. | 3 for | Lots of 100 Ea. |
|---|---|---|---|---|
| K-116 | 3 23/32" x 6 7/8" | .43 | 1.20 | .35 |
| K-118 | 6 7/8" x 9 13/16" | 1.00 | 2.85 | .90 |

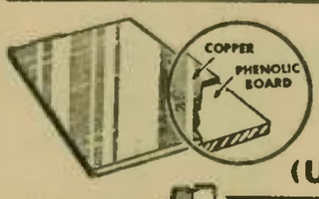



## Copper Clad Perf-Board

★ For Design of Printed Circuits



| No. | Size (Punched) | Ea. | 3 for | Lots of 100 Ea. |
|---|---|---|---|---|
| K-120 | 3 23/32" x 6 7/8" | .53 | 1.50 | .48 |
| K-122 | 6 7/8" x 9 13/16" | 1.50 | 4.00 | 1.20 |




## Copper Clad Perf-Board

★ For Making Your Own Printed Circuits



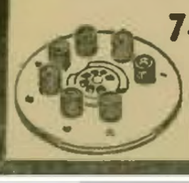
| No. | Size (Unpunched) | Ea. | 3 for | Lots of 100 Ea. |
|---|---|---|---|---|
| K-124 | 3 23/32" x 6 7/8" | .43 | 1.20 | .38 |
| K-125 | 6 7/8" x 8" | .85 | 2.50 | .70 |
| K-126 | 6 7/8" x 9 13/16" | 1.35 | 4.00 | .90 |

## Etchant Solution

This concentrate, mixed with water, etches copper laminated surfaces on printed circuit boards.
16-oz. btl., No. X-919 **$1.25**

## TAPE RESIST

Use to protect areas of printed circuit board from etchant. 1/16" x 320".
No. TA-16 ..... **75c**



## 7-Pin Tube Socket

Binding posts premounted. With mounting hardware.
No. HW-41 ..... 99c



## Transistor Socket

Binding posts premounted. With mounting hardware.
No. HW-43 ..... 99c

## ALLIGATOR CLIPS With Jacks



★ KIT OF 10
Color coded 5 red—5 black. 1¼" long. Shpg. wt. ¼ lb.
No. HW-32 ..... 99c

## SPADE LUGS With Jacks



★ KIT OF 10
Color coded 5 red—5 black. 13/16" long. Shpg. wt. ¼ lb.
No. HW-33 ..... 99c

## BINDING POSTS With Jacks



★ KIT OF 10
Color coded 5 red—5 black. 5/8" long. Shpg. wt. ¼ lb.
No. HW-34 ..... 99c

## BANANA PLUGS



★ KIT OF 10
Color coded 5 red—5 black. 13/16" long. Shpg. wt. ¼ lb.
No. HW-35 ..... 99c

## SPRING TYPE Banana Plugs



★ KIT OF 10
For quick and easy connections. 1⅜" long. Shipping weight ¼ lb.
No. HW-36 ..... 99c

## Volume Control Holder



★ KIT OF 10
Right angle bracket with 2 mounting holes. 1⅝" H x 1" W. Shpg. wt. ¼ lb.
No. HW-37 ..... 99c

## Banana Plug CORD SETS



★ Kit of 10 Sets
13" wire with plug on each end. 10 different colors. Shipping weight ¼ lb.
No. HW-42 ..... $1.99
Banana Plug Cord Sets No. HW-38 Same as above but with 6" wire **$1.49**

## OCTAL SOCKET



Binding posts premounted. With mounting hardware. Shipping weight ¼ lb.
No. HW-40 ..... $1.19

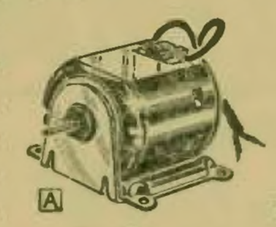
## 9-Pin Tube Socket



Binding posts premounted. With mounting hardware. Shpg. wt. ¼ lb.
No. HW-39 $1.29

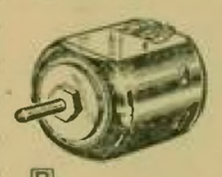
# Miniature HOBBY MOTORS

★ Oilite Type Bearings
★ Reversible



These high torque, mininture motors are perfect for all kinds of hobby applications. Because of their high efficiency and small size they are ideal for racing cars, boats and many other working models. All have permanently lubricated bearings. Threaded mounting hole on bottom of case makes mounting to any surface easy. Shipping weight ½ lb.

A 3 to 4 volts DC. Current (no load) .190 amp. Torque 9.92 gr./cm @ 8100 RPM. With 1½"x1¼" mounting stand. MO-106, 3 for $2.00 ____ Ea. **79c**

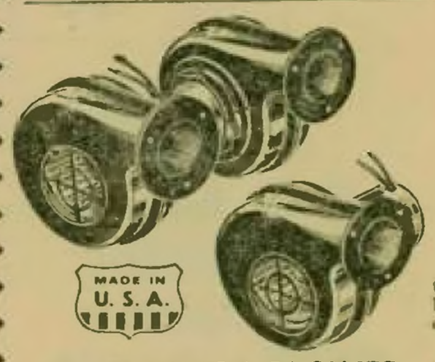


B 3 to 4 volts DC. Current (no load) .190 amp. Torque 9.92 gr./cm @ 8100 RPM. MO-105, 5 for $3.00 ____ Ea. **69c**



C 1.5 to 3 volts DC Current (no load) .210 Amp. Torque 6.41 gr./cm @ 5900 RPM. MO-104, 3 for $1.25 ____ Ea. **49c**

# Heavy Duty BLOWERS



★ TORRINGTON FANS
★ HIGH SPEED MOTORS

Ideal for ventilating or cooling all types of electronic equipment such as ham gear or commercial broadcast equipment.

## HEAVY DUTY BLOWER

★60 Cubic Ft. Per Min.

For use where continuous circulation of air with minimum noise is required. Two pole, Shaded-pole motor for cool, efficient, continuous duty. Size: 6½" x 6". 110-125 v. AC 60 cps. Shipping weight 5 lbs.

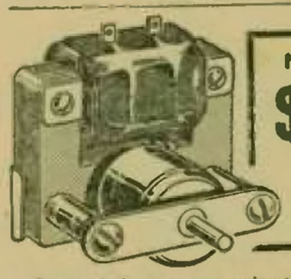
NO. MO-79 ____ **$7.95**

## DUAL BLOWER

★ 120 Cubic Ft. Per Min.

A versatile blower unit for use where quiet circulation of a large volume of air is required. Features cool running, two pole motor. Size: 10⅝" x 6½". Flange mounting. 110-125 v. AC 60 cps. Shpg. wt. 9 lbs.

NO. MO-78 ____ **$10.95**



No. MO-108 **$1.19** 3 for $3

# TELECHRON 1 RPM Timing MOTOR

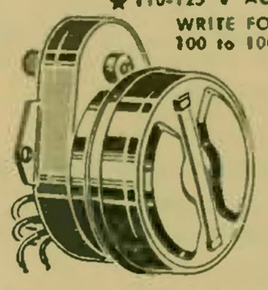
★ MADE IN U.S.A.

One revolution per minute, ideal for displays and timing devices. This rugged motor is built for continuous use. Features heavy duty gear box and motor frame plus fully insulated coil for long efficient life. Bearings require little or no lubrication. Power connections are conveniently located on the side of the coil. Overall Size: 2¼" x 2⅝" x 2½". The gear box has a ⅛" diameter shaft extending ⅝". For 115 V. AC 60 c.p.s. Shipping weight 2 lbs.

## TIMING MOTORS

★ 110-125 V AC.

WRITE FOR SPECIAL 100 to 1000 PRICES!



MADE IN U.S.A.

1/37.5 RPM MOTOR, No. MO-72 2 for $1.00 ____ Ea. **59c**

1/20 RPM MOTOR, No. MO-88 2 for $1.00 ____ Ea. **59c**

1/60 RPM MOTOR, No. MO-71, 3 for $1.00 ____ Ea. **39c**

5 RPM MOTOR, No. MO-74, 3 for $2.00 ____ Ea. **69c**

1 RPM MOTOR, No. MO-89, 2 for $1.00 ____ Ea. **59c**

## KIT of 7 MOTORS

Kit contains 7 assorted motors of various speeds and voltages. A rare opportunity to stock up for your every experimental need. Shpg. wt. 4 lbs.

**$2** No. AS-767

LUX

## 5 Hr. TIMER

With Bell

★ Heavy Duty Switch



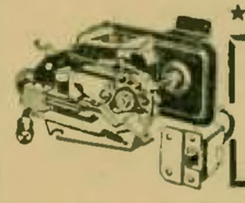
No. SW-281 **$1.99** 3 for $5.00

Heavy duty D.P.S.T. Switch is turned on by rotating shaft fully clockwise. At the end of the time cycle (5 hr.), the switch turns off and a bell begins to ring. Switch may also be operated manually. Rated at 50 amps. @ 250 volts. Motor operates on 110-125 volts A.C. 60 C.P.S. Size: 4⅛" x 2¾" x 2⅝". Shipping wt. 2 lbs. Write for Special Large Quantity Price.

## Switching Motor

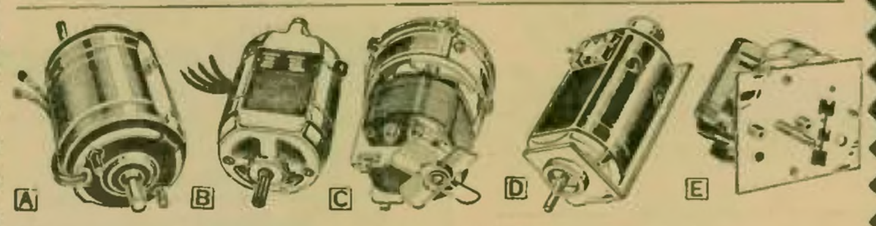
★ 13 RPM Gear Mechanism

★ 117 Volts AC



No. MO-107 **$1.99**

Rugged self starting motor with attached gear train. Stepping mechanism on end of gear box shaft rotates at 13 RPM. This stepper operates a leaf type switch opening a set of normally closed contacts at the rate of 15 times per revolution. Once each RPM a second set of normally closed contacts opens. For 110-125 v. AC 60 cps. Shipping weight 2 lbs.



A B C D E

## A Heavy Duty 12V Motor

This high-speed, high torque 12v. DC motor is perfect for fans and blowers in mobile equipment. Motor case is 4½" x 3½". Motor shaft is ¾" x ⅜" dia. Shpg. wt. 6 lbs.

NO. MO-80 ____ **$2.00**

## B BODINE 1/25 HP

High speed 3300 RPM motor for intermittent use in home or shop. ¼" shaft has geared face and extends ¾" from motor housing. Easily gear-coupled to any application. Operates on 115 volts A.C. or D.C. Size: 4" x 2¼". Made in U.S.A. Shpg. wt. 4 lbs.

No. MO-64, 3 for $5.50 Ea. **$1.98**

Wm. W. Wilson, 1028 Hooksett Rd., Manchester, N. H., wins choice of merchandise worth $5 from Olson's "Treasure Hunt". See back cover for instructions.

## C 24 RPM MOTOR

High torque 24 RPM motor features permanently lubricated bearings in rugged cast housing. Gear reduction ratio 157-1. Operates on 110-125 volts AC. Motor size 4½" x 3½". Shaft size ¾" long x ⅜" dia. Shipping weight 5 lbs.

NO. MO-81 3 for $10 ea. **$3.50**

## D 3-6 V. MINIATURE MOTOR

Operates on 3 to 6 volts D.C. Current drain only .200 amperes. 9 gr/cm torque @ 3500 RPM. Self aligning oilite bearings. Shaft: ⅛" long by .070 dia. Overall size: 1⅝" x ⅞". With mounting bracket. Shpg. wt. ¼ lb.

No. MO-65, 3 for $2.50
12 @ 75c Ea. ____ Ea. **89c**

## E Telechron TIMER MOTOR

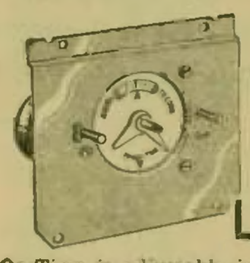
Synchronous motor with multiple gear train. Front panel shaft sets timer for up to one hour. Buzzer sounds at end of time cycle. Size: 2⅞" x 2½" x 3⅛" including 1½" shaft. 110v AC 60 cps. Shipping weight ¾ lbs.

NO SW-254 Plus 10% F.E.T. **99c**



GE—Telechron—International Register

## Automatic TIME SWITCH



★ 25 AMP. CONTACTS

No. SW-249 **$1.99** Plus 10% F.E.T.

On-Time is adjustable in intervals of 15 minutes up to 8½ hours. Size of basic timer mechanism is 4½" x 3¼". Size and style of face plate may vary from illustration. Switch contacts are rated at 25 amps at 230 volts. Motor is for 110-125 volts AC 60 cps. Less knobs. Shipping weight 3¼ lbs.

Veeder—Root

## Deluxe TIMER SWITCH



No. SW-253 **$2.99** Plus 10% F.E.T

This deluxe timer switch can be used for hundreds of timing applications. Timer will turn-on at any pre-set time and remain on for durations up to 6 hours. On-Time is adjustable in 15 minute intervals. Clock face is finished in handsome brushed brass. Use to turn on and off any electronic equipment automatically. Size: 4½" x 5½" x 3". (less Knobs). Contact rating 25 amps. at 230 v AC. Motor 110 to 125 volts AC 60 cps. Shipping weight 3 lbs.

Minneapolis-Honeywell

## THERMOSTA



Heating or Cooling Typ
★Mounts on Wallplate
★Operating Range 50 -8

**$5** No. SW-250

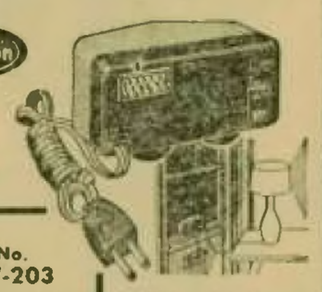
This double action thermostat activat a heating system on a temperature fall activates cooling system on temperatu rise. Thermostat consists of a single-po double-throw mercury switch, operated a coiled bimetal element. It mounts on wall plate which may be fastened direct onto the wall. Size: 3½" x 5⅞". Shippi weight ½ lb.

# Automatic NIGHT LIGHT Switches

★ Turns Lights On and Off Automatically at Dusk and Dawn
★ Keeps Prowlers Away at Night When Occupants are Away

## PHOTO-EYE

Olson



No. SW-203 **$3.66** 3 for $10.50

Turns lights, signs, appliances and displays on and off at dusk and dawn automatically. Keeps prowlers away from your home when you are away by turning lights on at night. Size: 3½" x 2⅝" x 1½". For 117 volts A.C. Cap. 500 watts. Shipping weight ½ lb.

Fisher-Pierce

## NIGHT LIGHTER

Made In U. S. A.

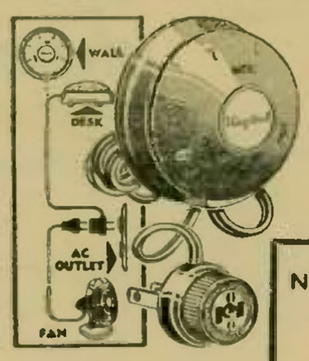


No. X-638 **$11.08**

Turns on lights or signs at dusk and off at dawn. Just plug Nightlighter into 115 volt AC socket and plug appliance into Nightlighter adaptor cord. Max. load 300 watts. Shipping weight 4 lbs.

Temptrol

## Automatic FAN CONTROL




★ Thermostatic Operation
★ MADE IN U.S.A.

No. SW-280 ONLY **$4.99**

STARTS fan when room gets warm.

TURNS FAN OFF when room cools.

New automatic temperature control for all types of fans. No wires to connect, just plug "Temptrol" into any wall outlet and plug your fan into the outlet on the "Temptrol". Dial desired temperature and let "Temptrol" keep you cool automatically. Move from room to room wherever you use a fan, bedroom, kitchen or family room. 110-125 volts A.C., 60 cps. Shipping weight 1½ lbs. Limited Supply.

Telechron

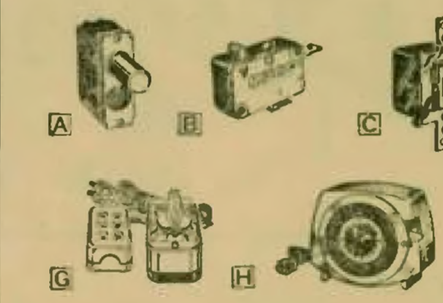
## TIMER-ALARM CLOCK

★ MADE IN U.S.A.
★ Controlled Outlet



**$8.80** No. X-901 Plus 10% F.E.T.

Can be used as timer only or timer with alarm. Has 60 minute timer for automatic shut-off of radio or appliance. Appliance will come back on at any pre-set time, with or without alarm. For 110-125 volts 60 cps. Shipping weight 3 lbs.



A B C D E F G H I J

## A MICRO SWITCH

Heavy duty Microswitch normally closed 10 amp. 125 V AC. 5 amp 250 V AC. Screw type terminals. Rugged heavy duty metal supported switch. Made in U.S.A. Shipping weight ½ lb.

No. SW-208, 3 @ 25c Ea.
100 @ 20c Ea. ____ Ea. **29c**

## B MICRO SWITCH

Made in U.S.A. Normally closed micro switch miniature size 1" x ⅝" with solder terminals. Brand new individually packed. 10 amp at 125 Volts AC or 250 Volts AC. Shipping weight ½ lb.

No SW-205, 3 @ 33c Ea.
100 @ 25c Ea. ____ Ea **39c**

## C ELECTRONIC LIGHT DIMMER

Easily installed in place of any standard switch without wiring changes. 300 watt capacity for incandescent lamps only. Fused silicon diode rectifier control unit. With mounting hardware. 3 positions: bright, dim and off. Replaces existing switch. Made in U.S.A. Shipping weight ½ lb.

No. SW-169 ____ **$1.97**

## D MAGNETIC SWITCH

For burglar alarms, position indicators. Contact rating: 15 watts resistive up to 1 amp up to 250 volts DC. Use with relay for heavier load. Shipping wt. ½ lb.

No. SW-229, $1.79 in 363 cat. ____ **99c**

## E TRIGGER SWITCH

★ With Push-button Lock

Heavy duty. Used as original equipment in power tools made by Rem, Pet, Black & Decker, McGraw Edison, Porter, Cable & others. Switch rating is 10 amp at 125 v. or ½ HP at 125 volts. Size: 3⅜" x 1⅞". Shipping weight ½ lb.

No. SW-251, 3 for $2 ____ Ea **80c**

## F DELAY SWITCH

Made in U.S.A.

Lights remain on for about 60 seconds then turn off automatically. Easily installed like any regular switch. Ideal for use when you go to the car, etc. Shipping weight ½ lb.

No. SW-179, 3 for $6 ____ Ea. **$2.1**

## G TIMER EXTENSION CORD

★ Automatically Turns Lights Off

Heavy duty extension cord with mechanical timer. Time cycle 0-4 hours. Extension cord has three outlets. Ideal for turning off fans, motors, radios, lights etc. You will have many uses for this. Shipping weight ¾ lb.

No. SW-178
Lots of 3, Ea. $4.50 ____ **$5.1**

## H TIME SWITCH

★ Turns Appliances ON-OFF

Makes any radio a clock-radio. Turns on and off coffee makers, lights, fans etc., for as little as 15 minutes or as long as 24½ hours. Manual control for manual switching. Capacity 15 amps: 1650 watts. For 117 volts, AC only. Size: 5" W x H x 2¼" D. Shpg. wt. 4 lbs. Made in U.S.A.

No. X-706 ____ **$7.9**

## I Telechron Clock Movement

Made in U.S.A. Turns on TV set, radios, phonos and or other appliances at any pre-set time within a 12 hour period. Has sweep second hand. A 60 minute slumber switch, manual on-off switch. For 117 volts A.C. Size: 6¾" x 4" x 2" Less knobs. Shipping wt. 3 lbs.

No. X-879
3 for $11.50 ____ Ea. **$3.9**

Add 10% F.E.T. to Price

## J SPDT Miniature Toggle Switch

1.5 amps. 125 V. Size: 1⅝" x ½" x 1 Shipping weight ¼ lb.

No. SW-211, 4 for $3.50 ____ Ea. **99**

## J DPDT Miniature Toggle Switch

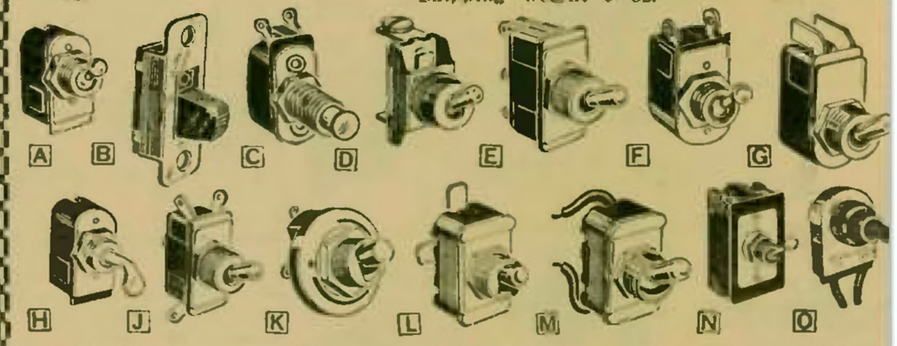
No SW-212, 3 for $3.75 ____ Ea. $1

# Carling SWITCHES

UL MADE IN U.S.A.

★Heavy Duty AC and AC-DC
★Slide Switches
★Toggle Switches
★Push Button Switches

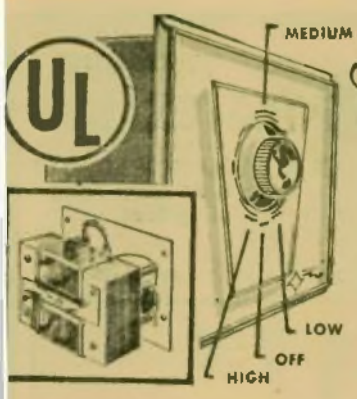
A special purchase by Olson Electronics makes possible this variety of high quality switches at real money-savings prices. Heavy duty construction for dependable trouble free service made to the rigid specifications of this U.S.A. manufacturer. U.L. approved. Shipping weight 3 oz.



A B C D E F G H J K L M N O

| Stock No. | Fig. | Action | Amps. @ 125V | Amps. @ 250V. | Each 1-9 | Each 10-99 | Each 100-499 |
|---|---|---|---|---|---|---|---|
| SW-238 | A | SPST | 6 | 3 | .29 | .25 | .20 |
| SW-256 | A | SPST** | 6 | 3 | .29 | .25 | .20 |
| SW-248 | B | SPST | | | .15 | .09 | .08 |
| SW-267 | B | SPDT | 4 | | .29 | .25 | .20 |
| SW-239 | B | SPST | 6 | 3 | .49 | .40 | .35 |
| SW-237 | C | SPST* | 1 | | .29 | .25 | .20 |
| SW-265 | C | DPST* | 1 | | .29 | .25 | .20 |
| SW-236 | D | SPST | 3 | | .29 | .25 | .20 |
| SW-244 | E | DPDT | 3 | 1 | .69 | .60 | .50 |
| SW-276 | E | SPDT | 3 | 1 | .49 | .40 | .35 |
| SW-247 | F | SPST | 6 | 3 | .39 | .35 | .30 |
| SW-242 | G | SPST | 6 | 3 | .39 | .30 | .25 |
| SW-243 | H | SPST* | 6 | 3 | .59 | .50 | .40 |
| SW-279 | J | SPDT | 6 | 3 | .69 | .60 | .50 |
| SW-271 | J | DPST | 3 | 1 | .59 | .50 | .40 |
| SW-270 | J | DPST | 6 | 3 | 69 | .60 | .50 |
| SW-245 | K | SPST | 15 | 7½ | .48 | .40 | .35 |
| SW-277 | K | SPST* | 3 | | .39 | .35 | .30 |
| SW-274 | K | SPDT | 15 | 7½ | .48 | .40 | .35 |
| SW-246 | L | SPST | 15 | 10 | .48 | .40 | .35 |
| SW-272 | M | SPDT** | 15 | 10 | .79 | .59 | .50 |
| SW-275 | M | SPDT* | 3 | | .59 | .50 | .40 |
| SW-273 | M | DPDT* | 6 | 3 | .69 | .60 | .50 |
| SW-268 | M | DPDT* | 15 | 6 | .79 | .70 | .65 |
| SW-235 | M | SPST* | 15 | 10 | .48 | .36 | .30 |
| SW-259 | N | DPST | 12 | 6 | .39 | .35 | .30 |
| SW-257 | O | SPST | 3 | 1 | .29 | .25 | .20 |

† Indicates momentary action * Indicates wire leads †† momentary one way
* Indicates center-off ** Indicates one terminal to mounting lug




PROGRESS WEBSTER

## Variable TRANSFORMER

**500 WATT POWER CAPACITY**

★ Front Panel & Knob Included
★ New! Factory Sealed Carton

**$8** Was $9.99 in Cat. 363
No. T-353
Mfgr's 1962 List, $29.95

A heavy duty variable transformer designed to give variable control of light intensity, for to create beautiful and unusual lighting effects. Can be used with incandescent or fluorescent lights with dimmer ballast. Included are knob and front panel with two color inserts to match any decor. This ruggedly built transformer also has many applications on the service man's or experimenter's bench. Use for any application where an adjustable AC voltage is desired. Voltage range from 42 volts to 125 volts. Power capacity 500 watts. Rugged transformer housing size: 6¾" x 7½" x 3½". Front panel size: 7½" x 8" for 110-125 volt AC 60 CPS. Shipping weight 17 lbs.

**700 WATT CAPACITY VARIABLE TRANSFORMER**

★ WITH 4-POSITION SWITCH

**$10**

Similar to 500 watt model but with increased power capacity to 700 watts. Also has four position switch, off, on, variable, and 35V fixed. Shipping weight 17 lbs.

No. T-352 (Mfr's. 1962 List $39.95)

## SILICON RECTIFIERS

**500 MA**

No. RE-30 Ea. 47¢ 10 for $4.25
PIV: 200 volts RMS: 140 volts Size: ⅜"x⅜" Shpg. wt. ¼ lb.

**500 MA (MINIATURE)**

★ 24 Karat Gold Plated

No. RE-70 PER KIT 99¢ 4 Kits $3.50
KIT OF 4 PIV: 100 volts RMS: 70 volts Size: ¼"x⅜" Shpg. wt. ¼ lb.

**750 MA**

No. RE-29 Ea. 57¢ 10 @ 51c
PIV: 400 volts RMS: 280 volts Size: ⅜"x⅜" Shpg. wt. ¼ lb.

**750 MA**

No. RE-32 69¢ 3 for $2.00

SPECIFICATIONS: Mfgrs. Type: SD-500-90; RMS A.C. Input: 280 Volts; Peak Inverse Voltage: 400 Volts. Output: D. C. 500 MA @ 100° C; Current: 750 MA @ 50° C. Shpg. wt. ¼ lb.

**2 AMPERE**

No. RE-66 Ea. 99¢ 4 for $3.50
400 PIV ¼" Hex-Stud Mount Shpg. wt. ¼ lb.

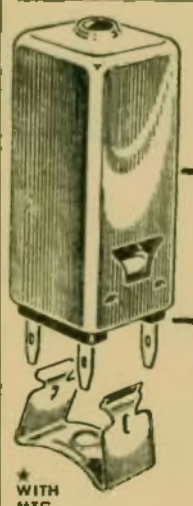
Same as above with wire leads on both ends. Shpg. wt. ¼ lb.
No. RE-81, 4 for $3.50 ea. 99c

**15 AMPERE**

No. RE-65 EA. $2.79 3 for $8.00
400 PIV ¼" Hex-Stud Mount Shpg. wt. ¼ lb.

**50 AMPERE**

No. RE-71 EA. $3.50 3 for $9.75
50 PIV ¼" Hex-Stud Mount Shpg. wt. ¼ lb.

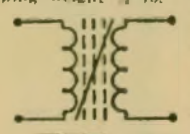


Olson

**IF TRANSFORMER**

No. I-32 **59¢** 10 for $4.90

456 KC Universal. Size: ⅝" x ⅝" x 2". For all input and output circuits. Shipping weight ¼ lb.



★ WITH MTG. BRACKET




WITH MTG. BRACKETS

**Matched Pair 455 kc IF TRANSFORMERS**

No. I-83 ONLY **99¢** PER PAIR

Consists of one each, input and output transformer. Size: ⅝" x ⅝" x 2". Complete with instructions. Shipping weight ¼ lb.

Olson

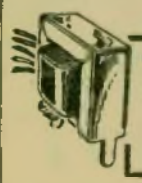
**Audio TRANSFORMERS**

Your Choice **79¢**

¾" square for miniature circuits Shpg. wt. ¼ lb.

| Stock No. | Use | Primary Imp. Ohms | Secondary Imp. Ohms |
|---|---|---|---|
| T-230 | driver | 10,000 | 2,000 |
| T-231 | output | 500 | 3.2 |

**AUDIO Transformers ULTRA-MINIATURE**



**79c** 2 for $1.50

Only 7/16" square overall. Tab mount. Long insulated leads. Especially suited for printed circuit transistor applications. Shpg. wt. ⅛ lb.

| Stk. No. | Use | Primary Imp. Ohms | Secondary Imp. Ohms |
|---|---|---|---|
| T-332 | Driver | 10,000 | 2,000 CT |
| T-333 | Output | 500 CT | 3.2 |

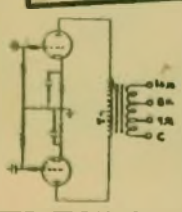
Olson

**15 Watt Hi-Fi Output TRANSFORMER**

• Response ±1 DB 15 to 50,000 CPS




**$4.95** No. T-275 2 for $9.50



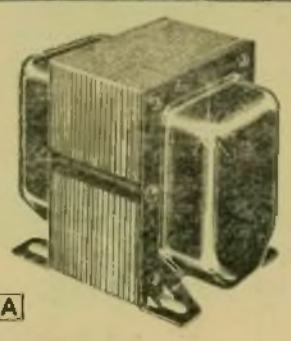
Matches most popular output tubes in push-pull circuit to most speakers. All internal leads brought out to terminals at bottom. Primary impedances: 5,000, 8,000, and 10,000 ohms. Secondary impedances: 4, 8, and 16 ohms. Size: 2½"x2½"x3". Shipping weight 3 lbs.

**NEW! STEREO OUTPUT TRANSFORMER**

Two high fidelity output transformers in one compact case. Primary windings are tapped for ultra-linear operation. Primary impedance is 5,000 and 10,000 ohms with center tap which will match most popular output tubes in push-pull. All internal leads are brought out to terminals at the bottom of the transformer. ± 1 DB 15 to 50,000 CPS. Power rating: 20 watts. Size: 4¼"x2½"x3" Shpg. wt. 4 lbs.

No. T-355 **$7.99**

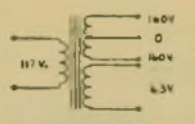
## • AUDIO OUTPUT • FILAMENT • POWER TRANSFORMERS



A

### A POWER

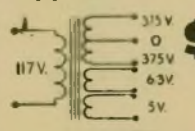
SECONDARY: 160-0-160 Volt @ 40 MA.—6.3V. @ 1 AMP.
SIZE: 2⅞" x 2" x 2⅝"
Shpg. Wt. 3 lbs.




**$1.99** No. T-356

### A POWER

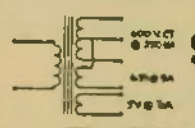
SECONDARY: 375-0-375 V. @ 160 MA. 6.3 volts @ 3.5 Amp. 5 volts @ 3 Amp.
SIZE: 3½" x 3⅞" x 3"
Shpg. Wt. 7 lbs.




**$2.99** No. T-366

### A POWER

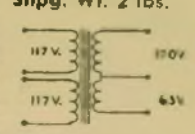
★ WITH COOLING FINS
SECONDARY: 300-0-300 Volt @ 250 MA., 6.3 V. @ 9A, 5 V. @ 3A
SIZE: 4½" x 4½" x 4¾"
Shpg. Wt. 8 lbs.




No. T-377 **$3.69** 3 for $10.50

### A POWER

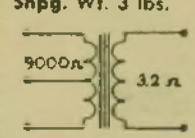
SECONDARY: 170 Volt @ 45 MA 6.3 Volt @ 1.1 Amp.
SIZE: 2⅜" x 2⅝" x 2"
Shpg. Wt. 2 lbs.



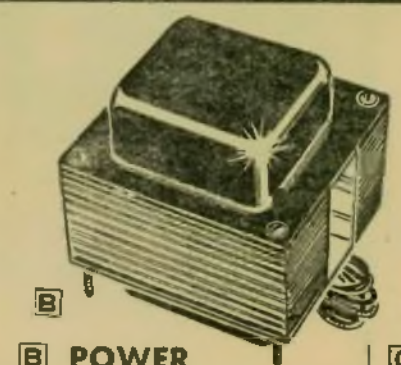

**$1.99** No. T-359

### A OUTPUT

PRIMARY: 9000 OHM C. T. 25 Watt
SECONDARY: 3.2 OHM
APPLICATION: P. P. 50L6GT
SIZE: 3¾" x 2½" x 2¼"
Shpg. Wt. 3 lbs.



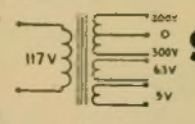

**$1.99** No. T-373



B

### B POWER

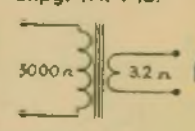
SECONDARY: 300-0-300 v. @ 265 MA. 6.3 volts @ 4 amps 5 volts @ 3 amps
SIZE: 3¼" x 3¾" x 3½"
Shpg. Wt. 8 lbs.




No. T-318 **$3.59** 3 for $10.00

### C OUTPUT

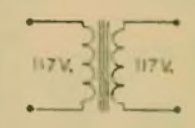
PRIMARY: 5000 OHM
SECONDARY: 3.2 OHM
APPLICATION: 50C5, 50L6GT
SIZE: 1¾" x 1⅜" x 1⅜"
Shpg. Wt. 1 lb.




**49¢** No. T-362

### C ISOLATION

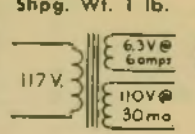
SECONDARY: 117 Volts @ 30 MA.
SIZE: 2" x 1⅜" x 1⅜"
Shpg. Wt. 1 lb.




**99¢** No. T-363

### C POWER

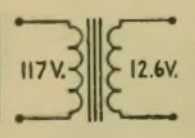
SECONDARY: 6.3 volts @ .6 amps 110 volts @ 30 MA.
SIZE: 1⅜" x 1⅜" x 2"
Shpg. Wt. 1 lb.




No. T-173 **$1.32** 3 for $3.50 100 @ 86c ea.

### C FILAMENT

SECONDARY: 12.6 volts @ 1 amp.
SIZE: 2" x 1⅜" x 1¼"
Shpg. wt. 1 lb.

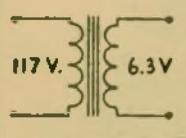



No. T-304 **$1.49** 3 @ 1.29 ea.

### C FILAMENT

PRIMARY: 110-125 volts A. C.
SECONDARY: 6.3 v @ 1 amp.
SIZE: 1¼" x 1¾" x 1⅜"
Shpg. Wt. 1 lb.

No. T-76

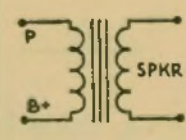



**89¢** 3 @ 80c ea. 100 @ .69 ea.

### C AUDIO OUTPUT

PRIMARY: 2500 ohms; 2 watts
SECONDARY: 3.2 ohms
APPL.: 50C5, 50L6, etc.
SIZE: 1½"x1¼"x1"
Shpg. Wt. ¼ lb.

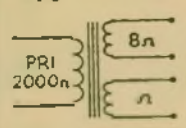
No. T-334




**39¢** 3 @ 33c 100 @ 28c

### C AUDIO OUTPUT

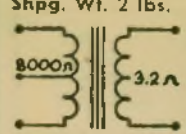
PRIMARY: 2000 ohms
SECONDARY: Dual 8 ohms
APPL.: 50C5 to 2 8 ohm speakers
SIZE: 2" x 1⅜" x 1¾"
Shpg. Wt. ¼ lb.




**69¢** No. T-372

### C AUDIO OUTPUT

PRIMARY: 8,000 ohm C.T.
SECONDARY: 3.2 ohm
APPLICATION: P.P., 6BQ5, EL84
SIZE: 2⅜"x1¾"x2"
Shpg. Wt. 2 lbs.




**89¢** No. T-374

### C AUDIO OUTPUT

PRIMARY: 2,500 ohms; 3 watts
SECONDARY: 3.2 ohms
APPLICATIONS: 50C5, 50L6, etc.
SIZE: 1½" x 1¾" x 1"
Shpg. Wt. ¼ lb.

No. T-92



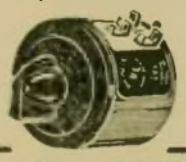

**49¢** 3 @ 45c ea. 100 @ 39c ea.

## MADE IN U. S. A. OHMITE Variable TRANSFORMERS

Delivers variable AC voltage from 0 to well above 115 volts when connected to standard 110-125 volt 60 cycle current. Ideal for regulating incandescent lights, motor speeds, input voltage for radios and TV to locate intermittent components and many other industrial and experimental uses. Angle of rotation 320°. Complete with reversible direct reading dial and knob. Delivers full current at any dial setting.

### 1½ AMP

Output 0-132 volts



No. T-300 **$8.50**

VT-2 delivers 1½ amps. 198 watts. size; 2¹³⁄₁₆" x 2¼" Shpg. weight 3 lbs.

### 3½ AMP

Output 0-140 volts

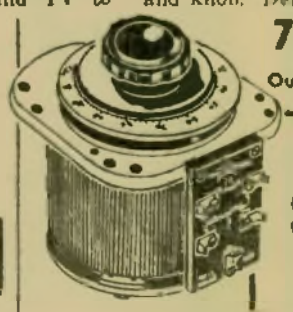


No. T-301 **$12.50**

VT-4 delivers 3½ amps. 490 watts, size; 4⅝" x 3½" Shpg. weight 7 lbs.

### 7½ AMP

Output 0-140 Volts



No. T-302 **$18**

VT-8 delivers 7½ amps. 1050 watts, size 7⅜" x 4⅝". Shipping wt. 13 lbs.

### 20 AMP

Output 0-140 V.



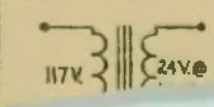
No. T-328 **$45**

VT-20 delivers 20 amps. 2400 watts. Size: 8¼" x 7½" x 6⅝". Shpg. weight 28 lbs.

### 24 Volt Transformer



No. T-290 **$1.49** 3 for $4 12 @ $1.25




SECONDARY: 24 v. @ 1amp
SIZE:




H. D. Bardack, 85 M... Pine ...

### 500 WATT VARIABLE VOLTAGE CONTROL



**$12.93** No. T-279 3 for $38.50 Lots of 6, Ea. $11.00

Variable auto-transformer of toroidal core design delivers variable A.C. voltage from 0 to 130 volts. Maximum rating applies over full range of output voltage. Ideal for schools, service shops, laboratories, etc. Can be used to dim lights, experimental applications or to adjust for low or high

## Superior AC VOLTMETER

MADE IN U.S.A.




LARGE ★ Full-View METER ★ Mirrored Scale

No. TE-176

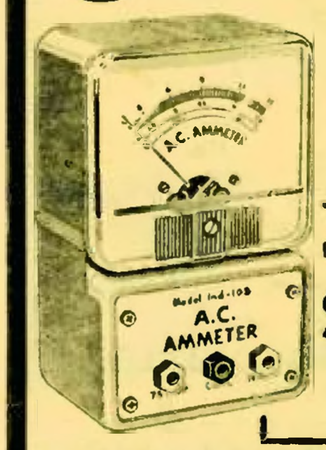
**$5**

Large full-view meter with big clear numerals. This fine meter is made even more accurate by a mirrored scale. Reflection of meter hand gives accurate readings even when viewed from an angle. Features three most often used ranges: 0-150 volts AC, 0-300 volts AC, and 0-750 volts AC. Meter size 3⅝" wide x 3¼" high. New streamlined case has four standard pin jacks on front panel for quick and easy connection. Size: 3⅝" wide x 5¾" high x 2½" deep. Shipping weight ¾ lb.

**12-pc. Test Lead Kit for Above Meter**
No. W-348 ..... $1.79

## Superior AC AMMETER

MADE IN U.S.A.




★ JUMBO METER ★ Mirrored Scale

No. TE-177

**$7**

This rugged ammeter is an ideal companion to the AC volt meter above. Features extra-large mirrored scale for greater accuracy. Two scales cover every application. 0-7.5 amp. AC and 0-15 amp. AC. Meter size: 3⅝" wide x 3¼" high. The streamlined case has three standard pin jacks on the front panel for quick and easy connection. Size: 3⅝" wide x 5¾" high x 2½" deep. Shipping weight ¾ lb.

**12-pc. Test Lead Kit For Above Meter**
No. W-348 ..... $1.79

## Superior Self-Serve TUBE TESTER

MADE IN U. S. A.

**NEW!**

LET YOUR CUSTOMERS CHECK THEIR OWN TUBES!



No. TE-178

**$33**

***. . . converts to Portable too!***

An exclusive feature of this unusually flexible tester is the rigid panel that slips into the back of the tester to convert into a self-service tester. Set this tester up in your store or shop and start making money today. The use of multiple sockets permits elimination of element switches thus reducing testing time and the possibility of incorrect switch settings. To test any tube, you simply insert it into a numbered socket as designated, turn the filament switch and press down the quality switch —That's all! Read quality on meter. Inter-element leakage, if any, indicates automatically. Tester is mounted in portable leather case. Tests over 600 tube types. 7 and 9 pin straighteners mounted on panel for your convenience. For 110 to 125 v. AC. Size: (closed) 13½" w. x 8¼" h. x 9" d. Shipping weight 11 lbs.

## NEW! MULTITESTER

★30,000 Ohms Per Volt



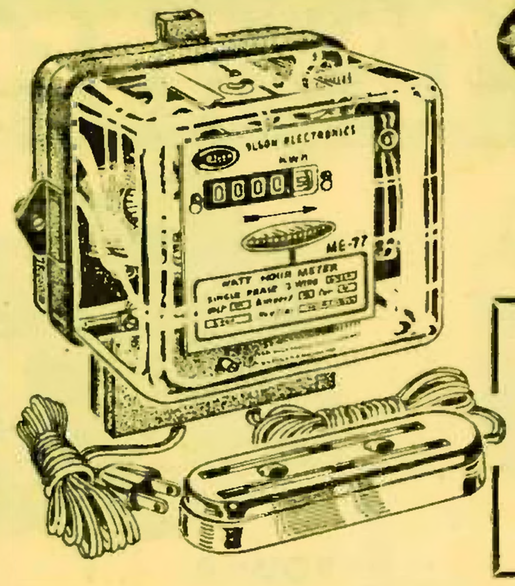
COMPACT SIZE

No. TE-179

**$13.92**

★ Self Shielded Magnet

Self shielded magnet minimizes outside interference to the extent that it is negligible. Unique single deck rotary switch gives instant positive selection of desired range. Specifications: DC volts: 0-250 mv — 1v 10v-50v-250v-500v-1000v at 30,000 ohms per volt. AC volts; 0 — 10v-50v-250v -500v at 12,000 ohms per volt, DC Current: 0—50ua — 10 ma — 250ma. Resistance; 0—




## Olson Watthour METER

- 117 VOLT 60 CPS
- 10 AMPERES
- SINGLE PHASE

**Ideal For: Hotels, Motels, Apartments, Rental Service**

No. ME-77

**$11.50** ★

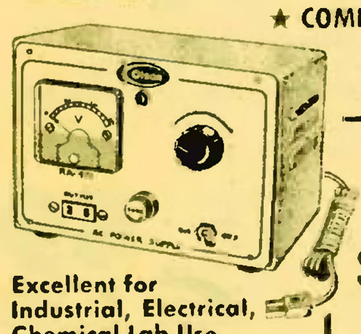
3 for $33

Measure the power consumed by power tools and electrical appliances. Ideal for amateur radio operators, to determine operating costs. This meter is completely assembled with cords and plugs. Just plug power tool or appliance into the handy extension cord and plug the watt-hour meter into any electrical outlet. Read power consumed in kilowatt hours directly on the front of the meter. Know how much of your electric bill is for power tools, etc. More than one tool or appliance can be plugged in at a time. For 110-125 volt AC 60 cps. Size: 4½x8⅝x4¼". This fine meter will pay for itself many times in savings to you. Shipping weight 6 lbs.

## Olson Variable A.C. POWER SUPPLY

★ COMPLETELY WIRED ★ STEP TYPE SWITCHING

**300 WATT CAPACITY**



- ★ Excellent for Industrial, Electrical, Chemical Lab Use
- ★ Perfect for TV & Radio Service Men

No. RA-471

**$10.98** ★

Six step switch and front panel mounted meter allow accurate setting of output voltage from 110 volts to 135 volts in 5 volt steps. Assists in locating sources of intermittents. Provides accurately calibrated voltage for experiments. Front panel mounted fuse, AC receptacle pilot light, control and meter. Housed in attractive grey metal case. 110-125 volts AC 50-60 cps. Size: 5½" x 4½" x 4½". Shpg. wt. 8 lbs.

## Olson Transistor D.C. POWER SUPPLY

★ FOR MOST TRANSISTOR DEVICES

- Completely Wired
- 6-9-12 Volt Outputs
- Vernier Voltage Control
- 0-15 DC Meter

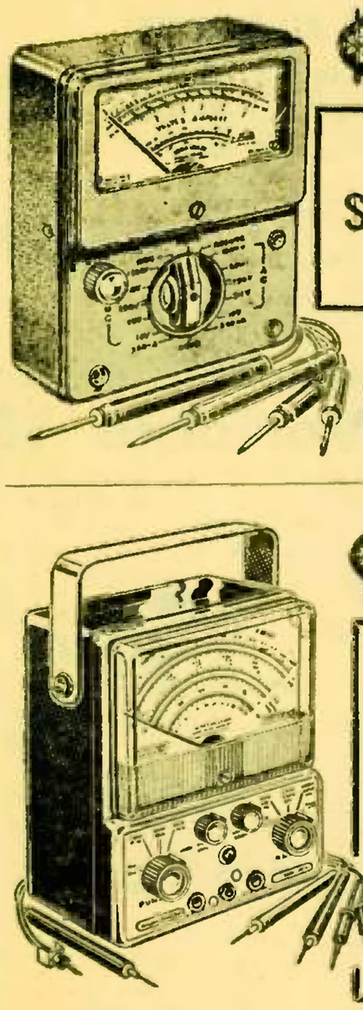


**Everyone working with transistors or other low voltage, low current DC devices, will find this an extremely useful tool.**

No. RA-472

**$13.98** ★

Alligator clips, which are included, can be connected as desired in circuit, voltage set-up from 5½ to 15 volts, as desired for test. All controls, leads, fuse and meter readily available on front panel. Easily controlled 12 step tapped transformer source of DC voltage. 110-125 volts AC, 50-60 cps. Size: 5½" x 4½" x 4½". Shipping weight 6 lbs.



20,000 Ohms per Volt

## Olson METER

- 1% PRECISION RESISTORS
- 50 Micro Amp Movement

No. TE-168

**$17.97**

Simple, easy to use single control knob for all ranges. This compact lightweight but rugged multimeter, for service man, hobbyist or student. Meter is complete with probes, batteries, and instructions. Specifications: DC volts: 0-10-50-250-500-1,000 at 20,000 ohms per volt AC volts; 0-10-50-250-500-1,000 at 5,000 ohms per volt, DC current 0-50 Micro A, 0-25-500 MA, Resistance 0-50,000 ohms, 0-0.5 megohms, 0-5 megohms (Decibels: —20 to +36db (2 ranges). Size: 5⅜"x5⅜" x 1⅝". Shipping weight: 5 lbs.

Batteries (2 reqd.) No. BA-67 ..... 8 for 59c



## Olson 6½" VTVM

MADE IN U.S.A.

No. TE-158

**ONLY $29.95**

D. C. Ranges: 0 to 3, 30, 150, 300, 1500 volts. A. C. R.M.S. Ranges: 0 to 5, 30, 150, 300, 1500 volts. Peak to Peak Ranges: 0 to 8, 80, 400, 800 volts. OHMMETER Ranges: 0 to 1000 meg. (5 ranges). 110-125 volts A. C. 50-60 cps. Shpg. wt. 6 lbs.

White's Radio Shop, J. A. White, 507 Prince George St., Williamsburg, Va., wins choice of merchandise worth $5 from Olson's "Treasure Hunt". See instructions back cover.

## 12-Piece TEST LEAD KIT



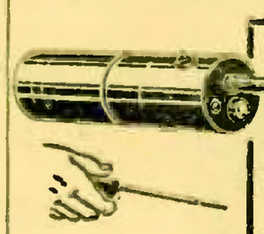
No. W-348

**$1.79**

3 for $5

Consists of two 36" red and black test leads with banana plugs [illegible] heavy-duty spade

## Olson Transistorized SIGNAL INJECTOR



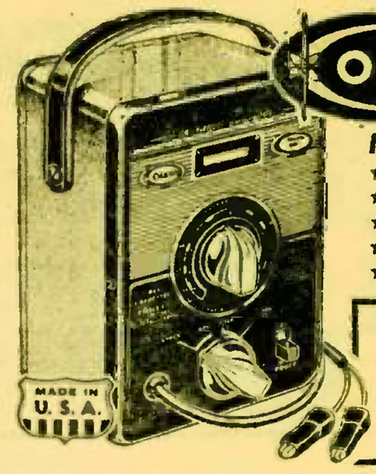
NO. TE-150

**$3.94**

3 for $11

Produces an audio signal, suitable for signal tracing in A.F., I.F., and R.F. circuits. Operates on 4 standard penlite cells. Size: 4¾" x 1⅜" x 1¼". Includes batteries. [illegible] lb.

59c




IN-CIRCUIT CAPACITOR

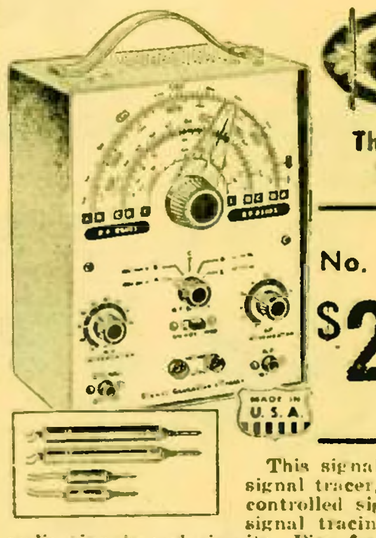
## Olson TESTER KIT

**MEASURES ELECTROLYTICS IN-CIRCUIT**

- ★ EASY TO READ Light Bar Indicator
- ★ Sharp, Non Confusing Readings
- ★ Electrolytic Dial
- ★ Direct Reading Dial
- ★ Low Loss Coaxial Test Leads

**$17.98** ★ No. KB-147

Instantly reveals opened and shorted capacitors without removing them from circuit. Checks by-pass, coupling, blocking, and filter capacitors of all types including electrolytics. Also finds dried out electrolytics, as well as opened and shorted electrolytics, by directly indicating capacitance on new easy-to-read EM-84 eye tube. Indicates in-circuit electrolytic capacity from 2 mfd to 400 mfd in two ranges. Condenser is automatically proven non-shorted and not open if capacity reading can be read. Rugged ripple finish steel cabinet with easy-to-read two color panel. Complete with leads, detailed assembly instructions and operating manual. Size: 7½" x 5⅝" x 4¼". For 110-125 volts AC, 60 cps only. Shipping weight 7 lbs. Order today.



Combination

## Olson SIGNAL GENERATOR AND TRACER KIT

**This Kit Has All Major Components Premounted & Tested At Factory.**

No. KB-141

**$24.95** ★

PRE FAB KIT CONSTRUCTION

- ★ High Stability Electron Coupled Oscillator
- ★ Most Used Frequencies Marked in Color
- ★ Separate RF+ & Audio Signal Probes

This signal generator and tracer, unlike any standard signal tracer, first injects its own signal then traces that controlled signal to locate the trouble spot by standard signal tracing technique. Designed for use with RF or audio signals and circuits. Five frequency ranges available with an attenuator switch which controls both the RF signal (modulated or unmodulated) or the 400 cps audio tone. Front panel jacks can be used for earphones, V.T.V.M. or scope. Easy to follow Olson construction manual with large, easy-to-read diagrams make building this kit pleasant. Housed in a steel cabinet with etched aluminum panel. For 110-125 volts 60 CPS. Size 7½"x9½"x5¾" complete with probes. Range: 250 KC-120 MC in 5 bands. AUDIO: 400 CPS audio signal. TUBES: 5965, 5687, 6350, 6AG5. SHIPPING WEIGHT: 12 lbs.




## Olson V. T. V. M. KIT

- ★ GIANT 6" METER
- ★ Two Color Scales

No. KB-140

**$25.95**

A highly accurate DC voltmeter, AC voltmeter, and ohmmeter, with a large 6" 400 microampere meter with easily read black and red scales. It will measure AC peak-to-peak voltages to 2,000 volts any wave form, from 30 cps to above 6 MC with no accessory probes. AC RMS can be read up to 1500 volts if a sine wave. Resistance can be read directly from 0.2 ohms to 1,000 megohms. Direct reading decibel scale is calibrated from —10 to +18 DB, reference 1.73 volts, 6 MW into 500 ohm line. Zero center measurements can also be made.

SPECIFICATIONS—DC voltage ranges: 0-3, 15, 75, 150, 300, 750, 1500 volts. Input resistance: 11 megohms (1 megohm in probe) on all ranges. AC voltage: RMS ranges 0-3, 15, 75, 150, 300, 750, 15000 volts. Peak to peak ranges 0-8, 40, 200, 400, 800, 2000 volts. Decibel ranges: —10 to +18 DB +10 to +38 DB, +30 to 58 DB response 30 cps to above 5 megacycles. Ohmmeter ranges: 0-1000, 10,-000, 100,000 ohms, 0-1 meg, 10 meg, 1000 megohms center scales 10, 100, 1000, 10,000, 100,000 ohms 1 megohm 10 megohms. TUBES: 1—12AU7 twin triode balanced bridge, 2—9006 peak to peak rectifiers, 1 power supply selenium rectifier. Power: 110-125 volts AC 60 cps. Size: 7½" x 6½" x 5". Shipping weight 8 lbs.

**Accessories:**

RF Probe for KB-140, No. TE-167 ..... ea. $3.75
Carrying Case for KB-140, No. CA-253 ..... ea. $2.95
Battery, (1 req'd) No. BA-53 ..... ea. 13c




Portable

## Olson TUBE TESTER KIT

PRE FAB KIT CONSTRUCTION

All Major Components Premounted and Tested at Factory

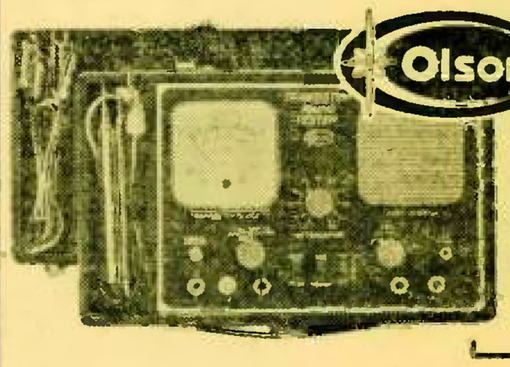
- ★ Checks All Modern Tubes
- ★ Checks Shorts & Leakage Between all elements
- ★ A Pleasure To Build

No. KB-142

**$17.95**

Designed to test modern tubes in radio, TV and Hi-Fi equipment. Single rotary switch speeds operation over slow cumbersome single slide switches. Simply plug tube into appropriate socket, set filament switch for proper voltage and rotate element switch, shorts show on leakage indicator. Tube emission is read on large easy to read meter face as good ?, bad. Olson's easy to read step-by-step instruction manual with large, clear diagrams assure professional style construction and performance. Housed in handsome, rugged carrying case with removable cover. For 110-125 volts AC 60 CPS. Size: 10½" x 8¾" x 3½". Shipping weight 6 lbs.

OLSON TUBE TESTER (NOT A KIT wired & ready to use) No. TE-153 ..... $21.95
Picture Tube Test Adaptor No. TE-154 ..... $3.83



Transistor Radio

## Olson TESTER KIT

- ★ Signal Generator and Tracer
- ★ Large easy to read meter

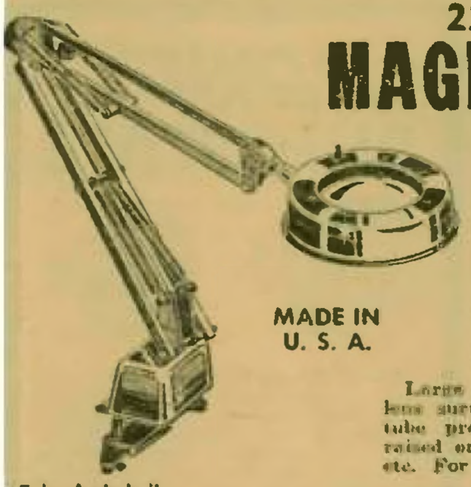
MADE IN U. S. A.

**$26.95** No. KB-143

A highly versatile tester for transistors or transistor circuitry. Completely portable, operates on self-contained batteries (included). Housed in an attractive rugged carrying case. Tests PNP and NPN transistors for leakage and relative gain. Signal generator produces an audio modulated RF signal which may be applied to any stage, can be traced and heard through amp and speaker in tracer. Complete with all necessary probes and leads plus large easy to follow instructions. Shipping weight: 8 lbs.

EXTRA BATTERY (3 req'd.) ..... No. BA-67 ..... 8 for 59c

## 22 Watt Illuminated
# MAGNIFIER LIGHT



MADE IN U. S. A.

No. EA-52
**$22.99**
3 for $68.50

- Tube Included!
- Turns In A Full Circle!
- Distortionless Magnification!

Large lens 5" diameter, four power magnification lens surrounded by a 22 watt circline fluorescent tube provides cool shadowless lighting. Can be raised or lowered: extends to 45". Mounts to desk, etc. For 110-125 volts A.C. Shpg. wt. 8 lbs.

Dwight Lamm, 405 Henry St., Wilson, N. C., wins choice of merchandise worth 25 from Olson's "Treasure Hunt". See back cover for instructions.



## SAFETY GOGGLES
**$1.19** No. TL-412
3 for $3.30
12 for $12.00

Protect your eyes from serious injury with these adjustable goggles. Can be worn over regular glasses. Shipping weight ¼ lb.

## 10-PC. RATCHET SOCKET SET



Five popular sockets: ¼, 5/16, 3/8, 7/16, ½". Two screwdriver blades plus phillips. Pistol grip handle. Shpg. wt. 4 lbs.
No. TL-413, 3 For $6.00 ____ Ea. **$2.29**

## 'ADJUST-A-LITE' KIT
**ASSEMBLE IT YOURSELF AND SAVE!**

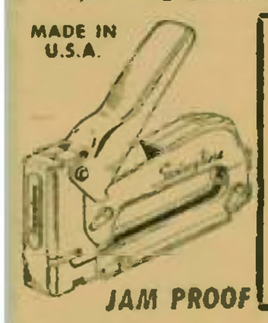


**$9.95** No. EA-69

Incandescent lamp with shade. Swings full 360°. Extends to 45". Clamps to desk or horizontal surface. Less bulb. For 110-125 volts A.C. Shipping weight 5 pounds.

Same as above but completely assembled,
No. EA-53, 3 for $38.50 ____ Ea. $12.88

## Swingline STAPLE GUN



MADE IN U.S.A.

No. TL-398
**$3.88**
3 for $11.50
Lots of 12, Ea. $3.50

JAM PROOF

Simply place stapler against surface and squeeze. Special jam proof construction. Handle locks in place for easy carrying. Shipping weight 3 lbs.

Box of 1000 ¼" Staples
No. TL-399, 5 boxes $2.50 ____ PER BOX **59c**

## HAND NIBBLING TOOL



★ Cut squares, circles or complex designs in metals or plastic.

No. TL-161
**$3.85**
3 for $11

Bites through 18 gauge steel or 3/16" aluminum, copper or plastic. Sharp angles and tight curves cut effortlessly. Edges remain smooth after cut. Shpg. wt. 1½ lb.
EXTRA PUNCH
No. TL-162, 3 for $5.50 ____ **$1.87**

## SAVE! GET BOTH
No. AS-328 **$24.00**
BOTH FOR ____
Shipping wt. 22 lbs.

## 2" FORMING BRAKE
...ns 16 Ga. Metals up to 90°



TL-169
**4.95**

...ms and bends metals ...ake boxes, covers, trays, ...1" deep slots in brake bar permits ...ers to fold in. Handles up to 18" ...ith stock. Provides flange edge to 1" ...ght. Ruggedly constructed, accurate ...t adjustable. Shipping weight 12 lbs.

## POCKET HOIST



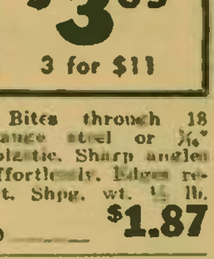
- ★ Lifts or Pulls up to 2000 lbs.
- ★ Lubricated for Life

**$6.95** No. TL-327
3 for $20

Miniature block and tackle with 7 to 1 ratio is small enough to fit in pocket but lifts or pulls up to 1 ton of weight. Perfect for hunters, boaters, airplane owners, motorists, etc. Comes with 100 ft. multi-strand Dupont nylon rope that tests at 2000 lbs. per strand. Made of high grade aluminum with stainless steel axles. Weighs less than 1 lb. Rustproof. Shpg. wt. 2 lbs.

## METAL WORKSHOP

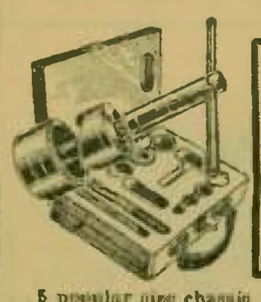
★ Punches, Shears, Forms, Rivets



Stock No. TL-170
**$9.55**

Punches holes in metals up to 16 gauge, 1" from edge of stock. Three round inch sizes included — ¼", 5/16" and ⅜". Shears metals up to 1" width. 16 gauge thickness. Forms rod or bar stock up to ½" width. Bends and forms up to 90°. Bends or forms up to 14 gauge thick. Rivets with any tye solid or hollow rivet. Shipping weight 6 lbs.

## CHASSIS PUNCH SET
★ 11-Piece Set



No. TL-246
**$6.95**
3 sets for $20.44

5 popular size chassis punches and deluxe reamer commonly used in most radio work. Makes mounting of jacks, switches, pilot lights and sockets easy. No extra tools necessary. Chassis size are: ½", 5/8", 1", 1⅛" and 1⅜". Reamer cuts ⅛" to ½". Handsome wood box. Shpg. wt. 4 lbs.

## 29-PC. DRILL SET



- ¼" Shanks
- Sizes 1/16" to ½"

No. TL-185
**$6.69**
Lots of 3, Ea. $6.00

Drill holes up to ½" diameter with any ¼" drill. Shipping wt. 4 lbs.

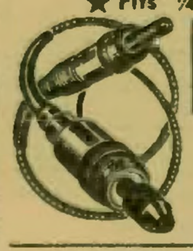
## Genuine Jacobs ¼" DRILL CHUCK



**$2.98** No. TL-326
3 for $8.00

Fits most ¼" electric drills. Polished finish. Complete with key. Shpg. wt. ¼ lb.

## 36" FLEXIBLE SHAFT
★ Fits ¼" or ½" Drill



No. TL-211 **$2.39**

Transfers power from stationary power tools for precision work. Capacity ½" to ¼" size drill. Shipping wt. 2 lbs.



7-PIECE
## DRIVER SET
**$2.19** No. TL-174

Insulated, color size keyed shafts. In sizes: 3/16", ¼", 5/16", 3/8", 7/16", ½", and 9/16". Shipping weight ¼ lb.

## Weller SOLDERING KITS



WELLER
MODEL 8200K
**DUAL HEAT 100/140 WATTS**
No. TL-243 **$5.83**

Instant dual heat soldering gun with trigger switch and prefocused light. Comes with supply of solder, wire brush, and soldering aid. For 110-125 volts A.C. 50-60 CPS only. Shipping weight 4 lbs.
Tips for 8200K, Pkg. of 2
No. TL-244 **35c**



WELLER
MODEL D550PK
**DUAL HEAT 240/325 WATTS**
No. TL-183
**$10.99**
Lots of 3, ea. 9.71

Instant heat trigger switch and dual prefocused lights. Includes solder, carrying case, and tips. For 110-125 volts A.C., 50-60 CPS only. Shipping wt. 6 lbs.

Energized Rosin Core Solder, 1-lb.
No. X-620, 3 for $3.50
Shipping Wt. 1½ lbs. ____ **$1.39**

# SALE DYMO LABELMAKER
Model M-4

★ NOW! INSTANT SELF-STICKING PLASTIC LABELS

Makes permanent, colorful, embossed labels instantly! Just dial the letters or numbers, they come up white on colored self-sticking vinyl, ready to apply on radios, brief cases, books, files, tools, drawers, albums, doorbells, shelves, etc. So easy to operate, anyone can use it. Embossing wheel has 44 characters: A-Z, 0-9, plus $ ¢ & ½ + —. The Dymo embossing tape comes in magazines 72" x ¼". All tapes have high gloss finish which resists dirt, water, oil and grease and most acids. Finished labels will stick to any clean smooth surface. Includes 6 ft. roll of tape. Size 6⅛" x 6". Shipping wt. 1 lb.

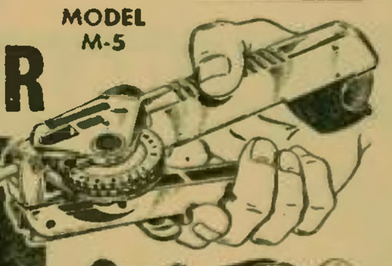


No. TL-414
Reg. $9.95
SALE PRICE
**$6.88**
WITH 6 FT. ROLL OF TAPE

**Extra 6 Foot TAPE Cartridges**

| | | |
|---|---|---|
| Yellow | No. TL-416 | 75c |
| Black | No. TL-417 | 75c |
| Red | No. TL-418 | 75c |
| Clear | No. TL-419 | 75c |
| Blue | No. TL-420 | 75c |
| Gold | No. TL-421 | 75c |

# SALE DYMO 3/8" TAPEWRITER
Professional
MODEL M-5



★ Makes Professional Looking Labels

Make your own embossed name plates. Easy to operate, just dial letters and numerals. Crisp white letters against a colored background. Cut off label with built-in cutter, apply pressure sensitive label anywhere. Tape is supplied in a new quick change throw away cartridge. Shipping weight 3 lbs.

★ EXTRA 6 FT. TAPE MAGAZINES
5201-9 Black M/5 Tape Magazine, No. TL-395 $1.25
5201-2 Red M/5 Tape Magazine, No. TL-405 $1.25
5201-5 Green M/5 Tape Magazine, No. TL-406 $1.25

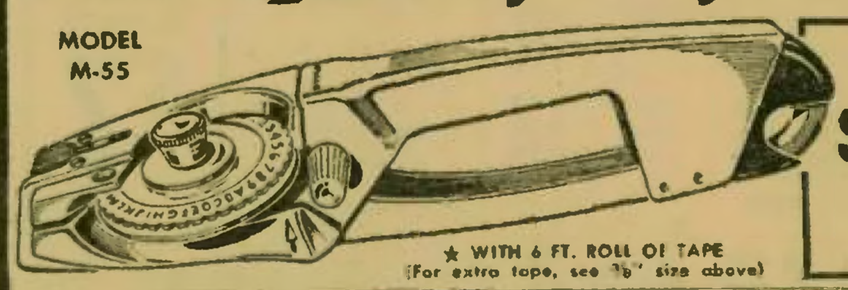
No. TL-393
Reg. $19.95
**$10.99**



★ Label Luggage, Sports Eqm'nt, Office Files etc.

# NEW DYMO Heavy Duty 3/8" TAPEWRITER

MODEL M-55

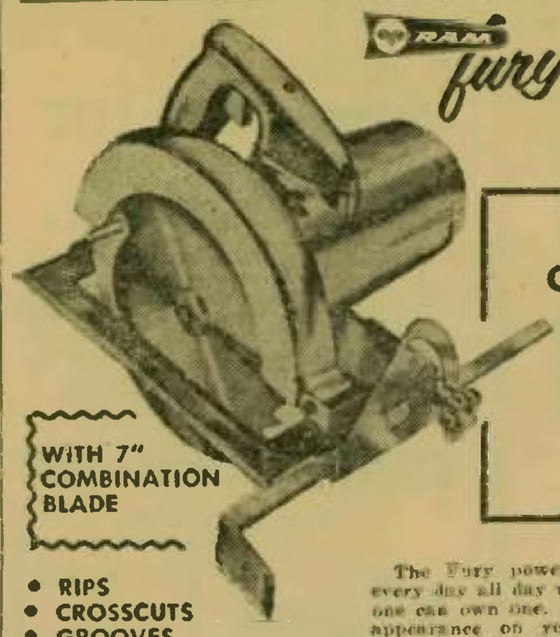


★ WITH 6 FT. ROLL OF TAPE
(For extra tape, see "b" size above)

No. TL-422
**$29.95**

Rugged industrial version of ⅜" tapewriter. Chrome plated for lasting good looks. Featuring new pull-pin for easy change of embossing wheels. No tools required, just pull the pin and slip in new wheel. Has cutter lever that cuts tape and forms a pull tab to peel backing material from label tape. Shipping weight 3 lbs.

## fury 7" POWER SAW



★ 1¼ H. P. MOTOR

No. TL-390
OLSON PRICE
**$19.88**
3 for $59

WITH 7" COMBINATION BLADE

- RIPS
- CROSSCUTS
- GROOVES
- DADOES
- RABBETS
- BEVELS
- ANGLES
- MITERS

The Fury power saw is designed for rugged every day all day use, but priced so low that anyone can own one. YOU can get that professional appearance on your "do it yourself" projects. Universal shrouded, 1¾ H.P. motor with 3 conductor cable. Heavy duty die cast aluminum housing, maximum depth of cut 2⅜" maximum depth of cut at 45 degrees 2⅛". No-load speed 5000 rpm. Comes with combination blade, other blades available. Rips, crosscuts, grooves, dadoes, rabbets, bevels, angles, and miters. 110-125 volts AC/DC. Shipping weight 14 lbs.

### 7" Power Saw Accessories



**CARRYING CASE**
Deluxe, heavy duty quality, all steel fitted. Center balanced steel handle with piano hinged lid. For 7" and 8½" Ram saws. Shpg. wt. 7 lbs.
No. CA-118 ____ $6.45
Shipped PP except to 1st Class Post Office

**EXTRA 7" BLADES**



Combination — No. TL-202
Shpg. wt. ½ lbs. ____ $2.25



Flooring Cut Off — No. TL-203
Shpg. wt. ½ lbs. ____ $2.25



Planer Blade — No. TL-204
Shpg. wt. ½ lbs. ____ $5.00

SAVE All 3 Blades — No. AS-406
Shpg. wt. 2 lbs. ____ $7.95



**SAW TABLE**
Converts Ram 7" power saw to table saw. Includes miter gauge and rip fence. Angles between 45° and 90°. 9¾" high, 16" x 16" square. (225 sq. inches). Shpg. wt. 12 lbs.
No. TL-205, 3 for $25.00 ____ $8.75

SAVE—GET ALL 5 UNITS ABOVE
No. AS-426 (Ship. wt. 26¼ lbs.) ____ $21.00

Symbol of SW Excellence
## Stewart-Warner RPM INDICATOR

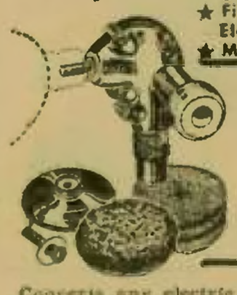


**99c** No. X-854
$3.49 in Cat. 661
4 for $3.50

Easy to use- Simply place RPM Indicator on any running motor—slide needle to peak vibration point —read RPM's!

An accurate device for checking vibrations or RPM's within a range of 1,500 to 15,000. Indispensable to those who operate or repair power lawnmowers, outboards, electric motors, etc. Shipping weight ¼ lb.

## 2-Speed Angle BUFFER



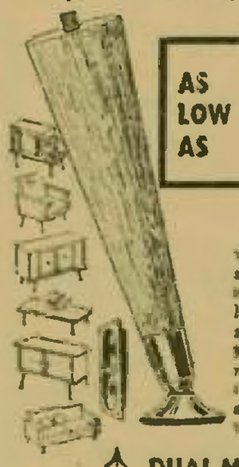
- ★ Fits Any Electric Drill
- ★ Made in U.S.A.

No. TL-344
**$4.95**
3 for $14.50
Lots of 12, EA. $4.50

Converts any electric drill into powerful right angle buffer and sander. 2 speed drive: buffs at ½ drill speed; sands at double drill speed. Includes 5" flexible molded rubber head, 6½" lambswool polisher and 3 sanding discs. Shipping weight 3 lbs.

## FURNITURE LEGS

- ★ Finish to Match Furniture
- ★ Self-leveling Swivel Glides



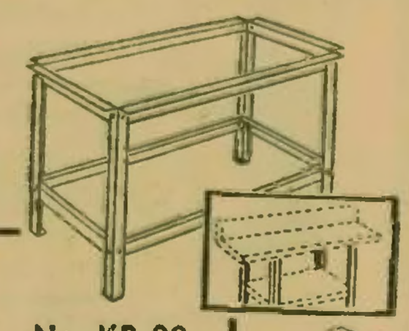
AS LOW AS **$1.79**

Tapered wood legs with brass ferrules and self-leveling swivel glides. Each kit contains 4 legs and 4 dual mounting plates. Legs can be mounted straight up and down or at slight angle. Includes hardware. Shpg. wt. 5 lbs.

DUAL MOUNTING PLATES

| Stock No. | Length | PRICE PER SET OF 4 | Shpg. Wt. |
|---|---|---|---|
| TL-407 | 4" | $1.79 | 1½ lbs. |
| TL-408 | 6" | 2.09 | 1¾ lbs. |
| TL-409 | 12" | 2.39 | 2¼ lbs. |
| TL-410 | 14" | 2.79 | 2¾ lbs. |
| TL-411 | 17" | 3.21 | 3¼ lbs. |

## STEEL BENCH FRAME



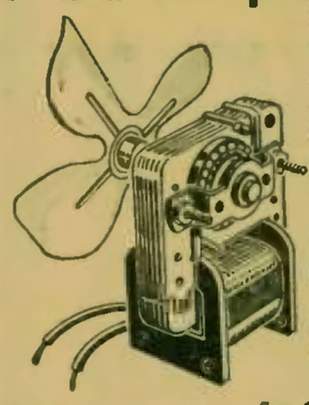
No. KB-98
**$5.50**
3 for $15



EASY TO ASSEMBLE

Sturdy all steel construction, pre-drilled ready for easy assembly. Just add top and shelf. Two or more frames may be combined. Size: 22½" x 47½" x 34" high. Grey finish. May be shipped parcel post to all cities. Shipping weight 17 lbs.

# 1 and 2 Speed FAN MOTORS & BLADES



## YOUR CHOICE OF MOTORS

| 1-SPEED | | 2-SPEED | |
|---|---|---|---|
| 4" BLADE No. MO-98 | $1.98 | 4" BLADE No. MO-101 | $2.96 |
| 6" BLADE No. MO-99 | $2.59 | 6" BLADE No. MO-102 | $3.31 |
| 8" BLADE No. MO-100 | $2.98 | 8" BLADE No. MO-103 | $3.97 |

Motors deliver up to 1500 rpm. Ideal for cooling and ventilating all types of electronic equipment. Motors are of the squirrel cage induction type with shaded poles for self starting. Your choice of one or two speed motor with 4", 6" or 8" blade. Shpg. wt. 4 lbs. For 110-125 volts AC 60 cps.

SWITCHES FOR ABOVE: For One Speed Motor, No. SW-275 ..... 59c
For Two Speed Motor, No. SW-238 ..... 29c
A.C. Line Cord, No. W-43 ..... 29c



**No. MO-75**
1¾"x2½"x2¾"
Shaft: ⅜"x⅛" dia.
95 V AC @ 60 cps.
Shpg. Wt. 4 lbs.



**No. MO-76**
2"x2¾"x2⅞"
Shaft: ⅜"x⅛" dia.
90 V AC @ 50 cps.
Shpg. Wt. 4 lbs.

**Experimenter's Special!**

**YOUR CHOICE 99c**

These rugged heavy duty motors are ideal for experimenters and students. Oilite type bearings and extra heavy magnetic core result in smooth quiet operation. Standard squirrel cage induction type design. Shaded poles for self starting.

# Olson PANEL METERS

★ JEWELED FOR EXTENDED LIFE



A


B


C

A complete line of high quality meters at a "value-plus" price. Each meter is carefully packed complete with mounting and operating instructions. These fine meters can be used whenever a rugged compact meter is required. Order now! Shipping weight ¼ lb ea.

| TYPE | STYLE | SIZE | RANGE | INT. RES. | STK. NO. | PRICE |
|---|---|---|---|---|---|---|
| DC Microammeter | A | 1⅝x1¾x1⅞" | 0-50 DC μa | 900 ohms | ME-100 | $5.95 |
| | A | " | 0-500 DC μa | 195 ohms | ME-101 | 4.95 |
| DC Milliammeter | A | " | 0-1 DC ma | 75 ohms | ME-97 | 3.95 |
| | A | " | 0-50 DC ma | 3.1 ohms | ME-98 | 3.95 |
| | A | " | 0-100 DC ma | 3.1 ohms | ME-99 | 3.95 |
| DC Ammeter | A | " | 0-20 DC amp | 3.1 ohms | ME-96 | 3.95 |
| DC Voltmeter | A | " | 0-15 DC V. | 15K ohms | ME-102 | 3.95 |
| | A | " | 0-150 DC V. | 150K ohms | ME-103 | 3.95 |
| | A | " | 0-300 DC V. | 300K ohms | ME-104 | 3.95 |
| AC Voltmeter | A | " | 0-15 AC V. | 15K ohms | ME-105 | 4.50 |
| | A | " | 0-150 AC V. | 150K ohms | ME-106 | 4.50 |
| | A | " | 0-300 AC V. | 300K ohms | ME-107 | 4.50 |
| "S" Meter | A | " | 500 μa | XXXX | ME-108 | 4.50 |
| | B | 1¹⁵⁄₁₆x1¼x1⅛" | 500 μa | | ME-109 | 4.95 |
| "VU" Meter | A | 1⅝x1⅝x1⅞" | 100 ma | 3.9K ohms | ME-110 | 5.95 |
| | B | 1¹⁵⁄₁₆x1¼x1⅛" | 100 ma | 3.9K ohms | ME-111 | 5.95 |
| FM Tuning Meter | C | ⅞ x ⅝ x 1⁹⁄₁₆" | XXXX | 1.3K ohms | ME-112 | 3.95 |

IOR INTERNATIONAL RECTIFIER

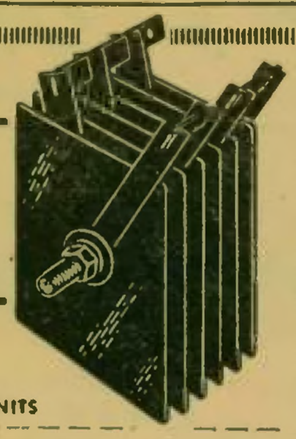
## Battery Rectifier

★ FOR 6 AND 12 VOLT

Mfg. Type No. JD4346B. Exact replacement for all fast charge 6 and 12 volt battery chargers. Delivers up to 100 amps. Brand new, heavy duty selenium rectifiers made by a nationally famous manufacturer. Size of plates 5" x 6" x 3" thick. Equipped with mounting stud. Shpg. wt. 4 lbs.

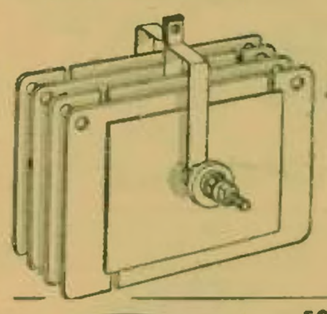
**100 Amp**

No. X-499
**$14.47**
3 for $40.00
12 @ $12.50 Ea.



IDEAL FOR REPLACEMENT OR DO-IT-YOURSELF UNITS

## 100 AMP BATTERY RECTIFIER—FOR 6 AND 12 VOLT



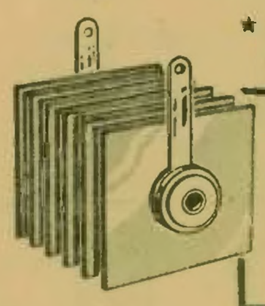
No. RE-68
**$8.93**
3 for $24

Similar to above except has smaller plate area. Brand New Factory Boxed. Size: 4½" x 6" x 3". Shpg. wt. 5 lbs.

Walter Levy M.D., Veterans Adm. Hosp., Ft. Howard, Md., wins choice of merchandise worth $5 from Olson's "Treasure Hunt." See back cover for instructions.

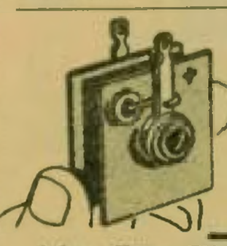
500 MA Selenium
## RECTIFIER

★ Fills 90% of All Needs



No. RE-67
**89c**
3 for $2.50
10 @ 73c ea.

New tri-density selenium gives greater current output and smaller physical size. (Only 1¾" x 1¼" x 1"). Individually factory boxed. Shipping weight ½ lb.



## Silicon "UNISTAC"

**$168** No. RE-34

Mfgrs. Type: TV-500. RMS A.C. Input: 280 Volts. Peak Inverse Voltage: 400 Volts. Output D.C. Current: 750 MA. Size: 1½" x 1½" x 1". Shipping weight ½ lb.

Hi-Density
## SELENIUM RECTIFIERS



★ Provide More Power in ½ The Size

★ RMS A.C. Input 130 Volts

Mfgrs: Type: TO65/075 Size: 1¹⁵⁄₁₆x1¹⁵⁄₁₆x½"
Replaces: Any Rectifier up to 75 MA
Shipping weight ¼ lb.
No. RE-35 ..... Ea. **44c**

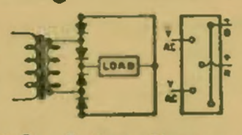
Sarkes Tarzian
## SILICONE DIODE



1.5 amp. 200 PIV. AC RMS 140. ½" dia. x ⅝" deep. With 1½" leads. Shpg. wt. ¼ lb.
2 for $1.00
No. RE-79 ..... Ea. **59c**

## Selenium Bridge Rectifiers






- For Battery Chargers, Electro-Plating, etc.
- High Current Low Voltage Rectifier

Mfgrs. Type: M1B
A.C. Input Voltage: 25 volts
D.C. Current Output: 1.2 amps
Size: 2"x2"x3¾"
Shpg. wt. ¼ lb.
No. RE-2, 3 for $4.50 ..... **$1.69**


Olson Electronics
AKRON, OHIO



## No. 47 PILOT LAMPS

• 6-8 Volt • 15 Amps.

**59c** No. PL-53
3 Boxes Box of 10 for $1.75

## No. 51 PILOT LAMPS

6 Volt @ .25 Amps.
3 Boxes, $1.75
No. PL-89 Box of 10, **59c**

## No. 44 PILOT LAMPS

6-8 Volts @ .25 Amps
3 Boxes, $1.85
No. PL-92 Box of 10, **63c**

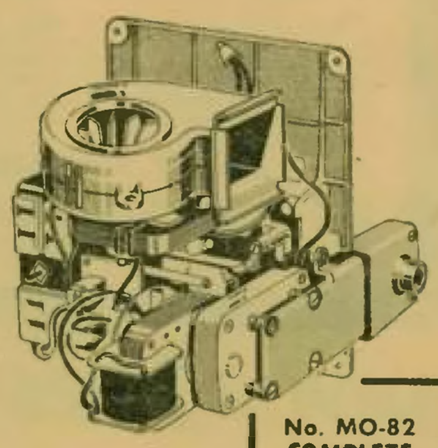


## NE-2 NEON LAMP

Use with dropping resistor of 56,000 to 100,000 ohms. 1/25 watt.
15 for $1.00
No. PL-51, 100 for $5.88 ..... Ea. **9c**

## KENMORE
### Rotisserie Control Center

★ Blower Motor ★ Self Timer



No. MO-82
COMPLETE
**$7**

Each unit has a motor with gear train to turn the spit plus a squirrel cage blower with independent motor. The blower is used to blow air on the charcoal to help it start burning. There are three heavy-duty toggle switches plus two leaf-action switches and three AC receptacles. The entire unit is mounted on a rugged cast aluminum panel with knobs and indicator lamp and heavy-duty 6-ft. AC power cord. Size: 7½" x 8" x 8½". For 110-125 v. A.C., 60 CPS. Shipping weight 8 lbs.

## Sylvania NITE LITE

Mfgrs. 1963 List Price $1.19.



**63c** No. X-850

Gives soft green light. Lasts for over 5 years—costs less than 1c a year to operate. Ideal for child's room, hall, bedroom or bath. Safe and easy to use. Size: 3½" diameter x ¼" thick. Shpg. wt. ½ lb.

## GIANT SURPRISE KIT

★ Parts, Motors, Etc.




No. AS-700
ONLY
**$5**

A deluxe HIGH VALUE Surprise Kit worth MANY TIMES Olson's low, low price! Kit consists of transformers, motors, relays, capacitors, resistors, controls, wire and countless other valuable components. Shipping weight 20 lbs.

5-LB. SURPRISE KIT
Shipping Weight 7½ lbs.
No. AS-137 ..... **$1.98**

LUX
MARINE Accessory
## CLOCK

★ Luminous 24-hr. Dial



No. EA-70
Plus 90c F.E.T.
**$9**

Lux Precision movement with jeweled balance stud and screw. This handsome clock is moisture and shock resistant. Practical and nautical, at home, in runabout, cruiser, or landlubber's den. Can be surface or flush mounted. Requires 3¼" hole for flush mounting. Sweep second hand. Shpg wt. ½ lb.

GENERAL ELECTRIC
## High Brightness NEON LAMPS

★ 20 Times Brighter

These new GE neon lamps are up to 20 times brighter than the standard NE-2. Can be used in areas where high level general illumination reduces the effectiveness of the standard brightness lamps. Shipping weight ¼ lb.

**NE-2H**



No. PL-105
**12c** ea.
10 for $1
100 for $7.50

High brightness model with same physical appearance as the standard NE-2. Bulb size ¾" long with 1" wire leads. Operates on 95 to 135 volts.

**NE-2P**



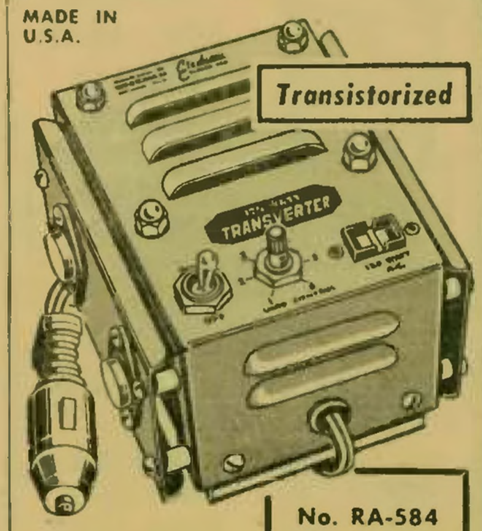
No. PL-106
**15c** ea.
10 for $1.45
100 for $12

High brightness model with new rounded end design. Provide better illumination at the top. Bulb size: ¾" long with 1" wire leads. Operates on 95 to 135 volts.

## WORKMAN TRANSVERTER

CONVERTS 12 VOLTS DC ▶ 117 VOLTS AC

MADE IN U.S.A.




No. RA-584
**$29.95**

Supplies 117 volt AC 60 cycle voltage at 125 watts continuously from 12 V. DC battery. Highly efficient, no vibrators, uses four TXB-9 transistors. Has three foot cord with plug to fit into lighter receptacle and standard electrical female output. Size: 5½" x 5½" x 4". Shipping weight 5 lbs.

Rubber
## A.C. PLUGS

★ KIT OF 5



**99c** No. PL-107

Kit contains 5 standard plugs and 2 right angle plugs. Ideal for power tools and appliances. Shipping weight ½ lb.

## AC SOCKETS

★ KIT OF 10



**$1** No. KB-154

Kit of 10 snap-in AC sockets. ⅝" x 1⅜" mounting hole required. 15 amp. at 125 V. Less screws. Shpg. wt. ½ lb.

## Electric Range SWITCH

★ Snap-In Switch




No. KB-153 **$1**
2 FOR . . .

20 amp. at 125 volts. Mounts in ⅝" x 1⅜" hole. Shpg. wt. ½ lb.

## BEACON LANTERN

★ With Red Flasher



No. X-784
**99c**
3 for $2.70
Lots of 12, Ea. 85c

★ Use as lantern, flasher - beacon or both. Shipping wt. 1 lb.

Batteries (4 req'd) No. BA-53 ..... Ea. 13c
Extra Lantern bulb No. PL-45 ..... Ea. 15c
Extra Flasher bulb No. PL-44 ..... Ea. 15c

## TV Transformers & Coils 66c



KIT OF 10
No. L-77

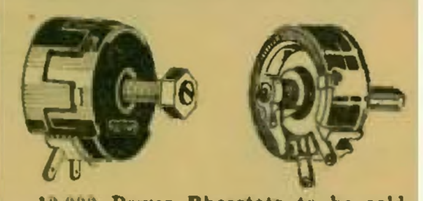
Assorted TV I.F. transformers, discriminators, peaking coils, and chokes. Shpg. wt. ½ lb.

## FUSE HOLDERS ..... 67c



No. FU-6
99c in 662 Cat.
Kit of three standard fuse holders for chassis mounting. Shpg. wt. ¼ lb.

# POWER RHEOSTATS



10,000 Power Rheostats to be sold fast! Famous makes included, Clarostat, Ward-Leonard, Hardwick-Hindle, Dejur, etc. STOCK UP NOW. Ideal for regulating lights, adjusting speeds also for model railroads. Shipping weight ¼ lb.

**49c** 10 FOR $4.50 EACH
MAY BE ASSORTED

### 15 OHMS—25 WATTS
No. VC-270

Screwdriver shaft. Mounting stud: ⅜" dia. x ½" long. Size: 1½" dia. x 2" deep.

### 60 OHMS—25 WATTS
No. VC-271

¼" round shaft. Mounting stud: ⅜" dia. x ½" long. Size: 1½" dia. x 1¾" deep.

### 100 OHMS—25 WATTS
No. VC-272

¼" round shaft. Mounting stud: ⅜" dia. x ½" long. Size: 1½" dia. x 1¾" deep.

### 125 OHMS—25 WATTS
No. VC-265

¼" Round shaft ½" long. Mounting stud: ⅜" dia. x ½" long. Size: 1½" dia. x 2⅛" deep.

### 250 OHMS—25 WATTS
No. VC-260

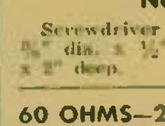
Heavy ceramic housing. 1½" dia. Shaft ¼" dia. x 1" long.

### 20,000 OHMS—25 WATTS
No. VC-268

Screwdriver Shaft. Mounting stud: ⅜" dia. x ⅝" long. Size: 1¹⁵⁄₁₆" dia. x 1⅞" deep.

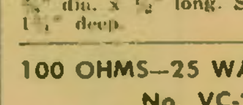
**Write For Special LARGE QUANTITY PRICES!**

## CLAROSTAT 8 OHM L PAD



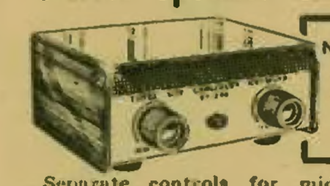
Provides separate control of speaker volume. dia. Shaft ¼" dia. x long. Shpg wt. ¼ lb.
No. VC-261, 3 for $2 ..... Ea. **79**

## CLAROSTAT ROTARY SWITCH



★UL APPROVED
Size: 1⅜" Shaft ¼" dia. 1¼" L.
No. SW-231, 6 for $1 ..... Ea. **19**

## 3-WAY Speaker Crossover



No. VC-20 **$8**

Separate controls for midrange tweeter. Crossover frequencies 500 3500 CPS. Size: 6" x 4½" x 3". Shipp weight 5 lbs.

Stephens Tru-Sonic
## 3rd Channel Control Cente



**$4** No. VC-23

Takes a portion of the signal from channel and blends them to produce phantom 3rd channel. Shpg. wt. 6 lbs

## 5 POWER FLASHLIGHT MAGNIFIER



No. X-900
3 for $4.50
12 @ $1.25 EACH
**$1.71** ★

Polish chrome w ivory pla trim. Us two cells (n include Size: 6 long. ⅝ li

Batteries (2 req'd) No. BA-41 .....

## 65 MA Selenium REC



No. RE-75 RMS AC 13
**39c**
3 for $1.00
Size ¾"x Extremely as a repl problem. S weight ¼ l

## BINDING PO

★ Kit of 28



Mounted on b Have insulation pierc pins. Shpg. wt. 5 lbs

No. X-850, 2 Kits—$1.00 ..... Ea. **59**

# CLOSE OUTS

**STROMBERG CARLSON,** Model 486, 12" Woofer. Aluminum voice coil, heavy magnet and free edge cone. Response: 25 to 11,000 cps. Voice coil dia: 1" Impedance: 8 ohms. Free Air Res: 40 cps. Size: 12¼" x 4¾". Shipping weight 3 lbs.
No. S-497 ..... **$9.99**

**STROMBERG CARLSON,** Model RF-486W, 8" Woofer, Aluminum voice coil, extra heavy magnet and free edge cone. Response: 50 to 5000 cps. Impedance: 8 ohms. Size: 3" x 8¼". Shipping wt. 2 lbs.
No. S-511 ($9.99 in 163 cat.) ..... **$6.99**

**AM TUNER CHASSIS.** With stereo phono amplifier. Horizontal slide rule dial and seperate bass and treble tone controls. Size: 7" x 12½" x 6¼". Shipping weight 11 lbs.
No. RA-539 ..... **$16**

**SELENIUM BRIDGE RECTIFIER.** 25 volts 1.2 amps. Shipping weight ¼ lb.
No. RE-80 ..... **$1**

**4 VOLT RELAY.** Hermitically sealed. SPST contacts. Has 1 foot of 4 conductor cable. Shipping weight 3 lbs.
No. SW-197 ..... Kit of 4 for **66c**

**NEON INDICATOR LAMPS,** kit of 10 snap-in neon indicators. Mounts in ⅝" x 1⅜" hole. 117 volts AC. 1 lb.
No. AS-811 ..... **$1**

**CARBON MICROPHONES,** kit of four push button carbon microphones with 18' connection wire. 1 lb.
No. M-166 ..... **$1**

**MECHANICAL TIMER,** 60 minute mechanical timer with bell that rings at end of time cycle. 1½ lb.
No. X-920 ..... Kit of 2 for **$1**

**PILOT LAMP SOCKETS,** kit of 20 standard screw base pilot lamp socket. ¼ lb.
No. PL-98 ..... **50c**

**TRANSISTORS,** RCA type 2N406. For medium power audio applications. ¼ lb.
No. X-747 (61c in 762 catalog) 3 for **$1**

**BILLING KADDY,** aluminum kaddy holds a supply of billing forms. Size: 10x6½". Has self storing compartment. 2 lb.
No. F-2 ($3.49 in 163 catalog) ..... **$2**

**SONOTONE STA 4-S STEREO CARTRIDGE,** with complete stereo conversion kit. Includes wire, plugs, sockets, adaptor, and instructions for converting mono phono to stereo. ¾ lb.
No. PC-108 ..... **$5**

**WEBCOR EXTENSION SPEAKER.** 4-in. PM speaker mounted in portable carrying case. Storage space for 7" records or tape reels. 8 lb.
No. S-543 (was $4.99 in 1162 Cat.) ..... **$3**

**GENERAL ELECTRIC NE-2,** Neon Lamp. Requires 50,000 OHM Resistor for 117 Volt operation.
No. PL-51 ..... 100 for $5.88 ..... Pkg. of 15 **$1**

**PRINTED CIRCUIT SOCKETS.** Kit of 10. 9 pin sockets for printed circuit boards. ½ lb.
No. KB-155 ..... 2 kits for **$1**

**ILLUMINATED STYLUS INSPECTOR.** Slightly irregular. ½ lb.
No. N-148 (82.98 in 162 cat.) ..... **$1**

**TELEPHONE LAMP.** Attractive old style upright telephone, brass plated and made into lamp (less shade). 6 lb.
No. PH-78 ($19.95 in 562 cat.) ..... **$14**

**MALLORY ½ WAVE RECT.,** selenium AC input 130 volts. DC output 300 MA. ¼ lb.
No. RE-52 (69c in 761 cat.) ..... 3 for **$1**

**MALLORY ½ WAVE RECT.,** selenium AC input 175 volts. DC output 250 MA. ¼ lb.
No. RE-54 (59c in 761 cat.) ..... 4 for **$1**

**MALLORY ½ WAVE RECT.,** selenium AC input 160 volts. DC output 100 ma. ¼ lb.
No. RE-57 (49c in 761 cat.) ..... 4 for **$1**

**DUAL SPEAKER SYSTEM,** for stereo. Two complete 2-way systems with crossovers. Contains two 6x9" spkrs. and two 3x5" tweeters. 6 lb.
No. S-508 ..... **$10**

**EIGHT DIGIT VEEDER ROOT COUNTER,** with reset. Counts up to 700 pulses per minute. 117 volts A.C. ½ lb.
No. X-891 ($8.98 in 762 cat.) ..... **$6.50**

**MOTOR & SPEED CONTROL,** Delco 4500 RPM motor 1/15 hp. with speed control. For 110-125 volts AC. 5 lb.
No. AS-641 ($4.59 in 861 cat.) ..... **$3**

**6" PM SPEAKER,** extra heavy duty magnet for greater power capacity. 3 lb.
No. S-536 ..... **$1.49**

**PATCHCORDS,** kit of 20 assorted patchcords with pin plugs. ½ lb.
No. AS-578 ..... **99c**

**FUSE KIT,** 6 assorted fuses. Slow blow, ¼ lb.
No. FU-7 (99c in 563 cat.) ..... **76c**

**ELECTROLYTIC CAPACITOR,** dual 10 mfd. @ 450 V. DC. Screw mounting. ½ lb.
No. C-948 ..... **5 for $1**

**ELECTROLYTIC CAPACITOR,** miniature 10 mfd. @ 15 V. Poly jacket ¼" x ¾". ½ lb.
No. C-970 ..... **8 for $1**

**ELECTROLYTIC CONDENSER** 40-40 MFD x 450 v.
No. C-997 (Tubular type) ..... **2 for $1**

**ELECTROLYTIC CONDENSER** 60-40 MFD x 150 v.
No. C-996 (Tubular type) ..... **3 for $1**

**ELECTROLYTIC CAPACITOR,** can type 3 prongs. 15 + 15 @ 350 volts. ¼ lb.
No. C-527 (89c in 162 Cat.) ..... **3 for $1**

**ELECTRONIC PARTS BARGAIN,** Kit contains: tubes, tube sockets, resistors, coils, and terminal boards. 4 lbs.
No. AS-688 ($2.91 in 162 cat.) ..... **$1**

# YOUR CHOICE 66¢

ALL SENSATIONAL BARGAINS!

**2% Precision Resistors ..... 66c**
Kit of 25 — No. R-52
Each marked with resistance. Values from low, low ohms to many million ohms. Shipping weight ¼ lb.

**Volume Control Kit ..... 66c**
Kit of 15 — No. VC-233
Assorted lengths and types of shafts. Includes carbon and wirebound elements. For radio & TV repair work. ¼ lb.

**9'x12' Dropcloth ... 66c**
No. TL-253
Sturdy seamless, transparent plastic can be used for table spread, to protect indoor and outdoor furniture. ¼ lb.

**Inline ¼" Jacks ... 66c**
Kit of 3 — No. PL-61
Inline ¼" phone jacks. Fit all standard ¼" phone plugs. Size: ⅝" x 1½" long. ¼ lb.

**Mike Transformer 66c**
No. T-348
Miniature mike transformer. Primary 5 ohm, secondary 300 ohms with 30 ohm tap. Size: ¾"x¾"x1½". ¼ lb.

**Dynamic Earphone 66c**
2000 Ohms — No. PH-77
5 ft. of cord and plug. Response to 4,000 cycles. Shipping weight ¼ lb.

**Assorted Knobs 66c**
★ Kit of 25, No. AS-482
25 assorted knobs for radio and TV replacement. Variety of styles and colors. Shipping weight 2 lbs.

**Microswitches ..... 66c**
KIT of 5 — No. SW-166
Kit of 5. May be assorted. ⅛ lb.

**7 Pin Sockets ... 66c**
Kit of 15 — No. AS-570
Kit of 15 — 7 pin miniature tube sockets. Wafer type construction. Shipping weight ⅛ lb.

# YOUR CHOICE 99¢

4 FOR $3.50

**SAFE-T-GLUE ..... 99c**
★ 1 Pint — No. TL-423
Cements wood, leather, cloth, china, etc. In handy poly-squeeze bottle with applicator top. Dries clear. 1 pint bottle. ¼ lb.

**Calibrated Knobs ... 99c**
Kit of 4 — No. KN-14
Grey finish with black numerals. Dial diameter: 1½" Fits ¼" shaft. ¼ lb.

**Clock Radio Knobs 99c**
Kit of 25 — No. KN-12
Various colors for all makes and models of clock radios. 25 assorted colors. ¼ lb.

**MATCHED KNOBS 99c**
No. KN-8 — Kit of 5
Matched set of 5 white knobs with polished gold inlay. Set screw type for ¼" dia. shaft. ¼ lb.

**Dial Cord ..... 99c**
100 Feet — No. X-182
Finest nylon glass core. Standard thin .028 dia. ¼ lb.

**PENLIGHT BATTERY HOLDERS ... 99c**
Kit of 3 — No. BA-91
Easy snap together construction. One each 4, 6 and 8 cell holders ¼ lb.

**Battery Holders 99c**
Kit of 10 — No. BA-55
3 penlite, 3 miniature penlite 3 flashlight and one 4 penlite cell holders Shipping weight ¼ lb.

**Loopsticks 99c**
Kit of 3
No. L-75
Kit of 3. All directional radio antenna. Pulls in distant radio stations with remarkable ease. ¼ lb.

**Speaker Control 99c**
No. SW-133
Reduces volume of one speaker while gradually increasing volume of other speaker. With hardware. ¼ lb.

**BOTTLE LIGHT ..... 99c**
No. X-867
Make your own lamp. Socket, cord, plug and switch. Press-on fitting fits snugly into bottle. ¼ lb.

**Speaker Faders ..... 99c**
Kit of 3 — No. VC-231
Permits control of both set speaker and remote speaker. 1⅝" diameter x 1" long. With instructions. Shipping weight ½ lb.

**Switches & Controls 99c**
Kit of 12 — No. AS-485
12 assorted selector switches and volume controls. Shipping weight 3 lbs.

**ALLIGATOR CLIPS ..... 99c**
★ Kit of 14 — No. AS-447
Kit of 14 insulated Alligator clips, 7 red clips and 7 black clips. Asst. sizes. ¼ lb.

**Transistor Sockets 99c**
Kit of 10 — No. AS-444
Takes transistors with three contacts in line or triangle (JEDEC). Size: ⅜" x ⅛" ⅛ lb.

**Tube Sockets ..... 99c**
Kit of 6 — No. AS-479
Kit of 6. Consists of 3 each miniature 7 pin and 9 pin tube sockets. Shipping weight ¼ lb.

**A.C. Connectors ... 99c**
5 Pairs — No. PL-67
Rated at 125 volts, 2 amperes. Size 1" x ½" x ¾". ¼ lb.

**Terminal Strip Kit 99c**
No. AS-506
48 Pieces, 12 ea. 1 through 4 lugs. Solder type with mounting lug. ½ lb.

**Plugs & Sockets ... 99c**
6 Pairs — No. PL-68
Assorted colors, ivory, red and black. Plug size: ¾" x 1½". Receptacle. ½"x½". ½ lb

**A.C. Chassis Sockets 99c**
Kit of 8 — No. X-803
Bag of 8. Rated for 117 volts, 10 amps. Mount in ½" x 15/16" hole. ½ lb.

**A.C. Plugs ..... 99c**
Kit of 12 — No. PL-58
Brown, black and grey rugged plugs. Rated for 117 volts 10 amps. ½ lb.

**12 A.C. Plugs ..... 99c**
6 Sets — No. W-349
6 male and 6 female sockets. Grey bakelite 10 amps, 117 Volts. ½ lb.

**Knife Switches ... 99c**
Kit of 5 — No. SW-155
Double pole, double throw knife switches with screw terminals. Size: 1½" x 2½". ½ lb.

**Toggle Switches ... 99c**
Kit of 3 — No. SW-154
(SPST and DPDT). Rated @ 3 amps 125 volts. Size: 1⅛" x ⅝" ½ lb.

**Center-Off Toggle ... 99c**
Kit of 2 — No. SW-156
DPDT center off toggle switches. Rated 6 amps @ 125 volts or 3 amps @ 250 volts. Size: ⅝" x 1 5/16" x ⅞". ½ lb.

**Slide Switches ... 99c**
Kit of 6 — No. SW-153
Assorted SPST, SPDT, DPST and DPDT. 1 amp. 125 volts. Size: ½" x ⅜" x 1½". ¼ lb.

**Push Switches ... 99c**
Kit of 5 — No. AS-473
Five S. P. S. T. miniature push switches, spring returns. Size: ¾"x⅝" Shpg. wt. ½ lb.

**Clip Leads ..... 99c**
Kit of 10 — No. X-804
10 leads 14" long with insulated miniature alligator clips attached one to each end. ¼ lb.

**Binding Posts ... 99c**
Kit of 10 — No. AS-439
Will take alligator clip, banana plug, tip plug, spade lug, or wire. ½ lb.

**Phono Cable ..... 99c**
35 Feet — No. W-355
35 feet of shielded, extra flexible phono cable. Single center conductor. Shipping weight ½ lb.

**AUDIO CABLE KIT ..... 99c**
No. AS-481
Consists of 3' audio lead with pin plug, other end tinned and stripped; 6' audio lead with pin plugs; 1 dual inline jack. ½ lb.

**FLEXIBLE "Y" ADAPTOR KIT ... 99c**
Kit of 2, No. W-423
Both have 1 male and 2 female connections with 3¾" flexible leads. Total length 5⅝". ¼ lb.

**Dual Inline Jacks 99c**
Kit of 4, No. AS-476
Dual inline phono jacks allow connection of two audio cables having phono pin plug ends. Size: ½" diameter x 1½" long. ¼ lb.

**Lug Terminals ... 99c**
Kit of 13 — No. AS-438
Size: ⅜" x ⅝" lengths: 1½" 2¼" & 2¾". ½ lb.

**Phono Pin Plugs 99c**
Kit of 5 — No. PL-57
All metal. New design makes soldering easy. Size: ⅜" diameter x 15/16" long. ½ lb.

**Phono Pin Plugs & Jacks ..... 99c**
3 Pairs
No. AS-440
3 plugs and jacks for making audio connections. Size: ⅜" diam. x 1⅝" long. ¼ lb.

**Pin Plugs & Jacks ..... 99c**
4 Pairs — No. PL-70
2 red, 2 black.
Knurled nut tightens against wire making soldering unnecessary to pin plugs. Jacks mount in ⅜" hole. ½ lb.

**Phone Plug Sets ..... 99c**
2 Pairs — No. PL-91
Two pair of male and female ¼ inch phone jacks and plugs. Color coded black and red identification. ½ lb.

**Phone Plug Adaptors 99c**
Kit of 2 — No. AS-471
Convert standard ¼" phone plugs to RCA type phono plug. Size: 1" diameter x 2½". ¼ lb.

**Phono Pin Jacks ... 99c**
Kit of 6 — No. AS-441
Kit of 6. Takes RCA type pin plug. Mount on single ¼" hole. Plated. Size: ⅜" x ⅝" Shipping weight ½ lb.

**"Y" Adaptor Kit ... 99c**
Kit of 2 — No. X-817
One has 3 female connections, other has 2 female and 1 male connection. For many hi-fi uses. Size: 1⅝"x1⅝". ½ lb.

**Miniature Plugs & Jacks 99c**
6 Pairs — No. AS-442
6 assorted pairs. Jacks are closed circuit type. Ideal for transistor earphones and receivers. ½ lb.

**PLUGS & JACKS 99c**
Kit of 4 pairs — No. PL-63
Kit of 4 pairs banana plugs and jacks. 2 red pairs and 2 black pairs With soldering lug. Shipping weight ½ lb.

**Miniature Phone Plugs & Jacks 99c**
3 PAIRS — No. AS-642
Kit of 3 pairs of miniature, shielded, phone type plugs, and shorting jacks. Ideal for remote speaker hookups, small microphones and many other uses. ½ lb.

**SHIELDED Phone Plugs ... 99c**
Kit of 2 — No. AS-477
Kit of 2 shielded standard ¼" phone plugs. Plated all metal barrel. Screw terminals. ¼" shaft. Barrel 1⅛" x ½". ¼ lb.

**Phono Plug Adaptors ..... 99c**
Kit of 3, No. AS-470
Kit of 3 inline adaptors to convert RCA type phono plug to standard ¼" phone plug. Size: ½" dia. x 2⅛". ¼ lb.

**¼" PHONE PLUGS ..... Per Kit 99c**
★ KIT OF 4
No. X-253 — 4 for $3.50
Plugs into ¼" phone jack. ½ lb.

**¼" PHONE JACKS 99c**
★ Kit of 5 — No. AS-445
Open and closed circuit. Takes any standard ¼" phone plug. ½ lb.

**Goodyear Pliobond 99c**
No. TL-276
Cements anything, metals, woods, glass, fabrics, etc. Also can be used as a liquid "Spaghetti." ½ pint can. ¼ lb.

**Push Button SWITCH KIT**

66¢ No. SW-173

INCLUDES:
- CABLE
- CONNECTORS
- MOUNTING PLATE
- HARDWARE
- INSTRUCTIONS

For rear seat speaker installations.

**Grille Cloth Kits 66c**
6-Pc. Kit — No. K-104
Different patterns and sizes in mahogany and blonde from 7" x 10" to 12". ½ lb.

**Wedge Grip LAMP & SOCKET**
12 v. @ .24 amps.
KIT OF 4
NEW

No. PL-99 **99¢**

New all glass lamp with wedge grip contacts. GE number 158 bulb. Ideal for hard to reach places. Shipping weight ¼ lb.

**Panel Indicators ..... 99c**
No. PL-65—KIT OF 2 (1 red, 1 green) with 6 volt bulbs. ⅝" dia. x 1" long. ½ lb.
Extra Lamps, No. PL-66, 10 for 99c

**NEON PILOT LIGHTS ... 99c**
Kit of 3 — No. KB-90
With neon lamp, jewel and socket. Operates on 115 volts. ⅝" dia. x 1¼". Requires dropping resistor 100,000 ohms. Shipping weight ½ lb.

**Pilot Lights ..... 99c**
Kit of 5 — No. PL-64
Jeweled pilot light assemblies with bayonet base sockets. 2 with red jewels, 2 with green and 1 amber. ¼ lb.

**15-Ohm Earphones ..... 99c**
Kit of 2 — No. PH-36
Response 50 to 4,000 CPS. Size: ¾" x ¾"diameter. ½ lb.

**Midget Soldering Iron ..... 99c**
30 Watts No. TL-119
Only 8½" Long
Only ⅝" dia. 5-ft. cord with molded plug. For printed circuit. 110-125 volts AC or DC. ½ lb.

**Jeweler's Screwdrivers 99c**
No. TL-118
Five-piece set. 7 blades measuring .080, .070, 055, 040 and .025. ½ lb.

**6" Diagonal Cutters 99c**
No. TL-7
6-in heavy duty; cuts the finest to the toughest wire. Shpg. wt. ¼ lb.

**Needle Nose Pliers ..... 99c**
6" Bent
No. TL-247
Nose is bent 90° to get into small spaces and corners. ½ lb.

**6" Needle Nose Pliers 99c**
No. TL-5
With side cutters. For Radio and TV repair. 6 inches long. ½ lb.

**Insulated Tube Puller 99c**
Bent Type
No. TL-295
7¼" long. Removes tubes from cramped areas. Shpg. wt. ¼ lb.

**Insulated Tube Puller 99c**
Straight Type
No. TL-294
7½" long for cramped areas. ½ lb.

**Insulating Tape ... 99c**
★ Two 33' Rolls No. TA-5
2 rolls of ¾" wide, self-sticking plastic insulating tape. 2 colors: one roll red, one roll black. ¼ lb.

**ELECTRICIAN'S TAPE ..... 99c**
66-ft. roll — No. TL-268
¾" plastic self-sticking electricians tape. Shipping weight ½ lb.

Chester E. Morey, 1046 Adams St., Lapeer, Mich., wins choice of merchandise worth $5 from Olson's "Treasure Hunt". See back cover for instructions.

★ Made By A Leading U. S. A. MANUFACTURER

# Sensational!



NAME BRAND

## Recording Tape

# 1200 Ft. MYLAR

★ Factory Boxed

**99¢** EACH, LOTS OF 10

No. TA-75

Lots of 3, Ea. $1.19

Single Ea. $1.29

Olson purchased the entire lot of this top quality U.S.A. manufactured, recording tape and now passes the savings on to you. Features a uniform coating of oxide bonded to a tough mylar base. High signal to noise ratio, low distortion and uniform output. Standard ¼" width for all recorders. Shipping wt. 1 lb.

## Marvel FM • AM Transistor Radio




9 TRANSISTORS

★

11 Section Telescoping Antenna

★

Dual Slide-Rule Dial

★

With Case Battery & Earphone

No. RA-588

**$22.97**

3 FOR $66

You will enjoy pleasurable FM programs anywhere in the house or wherever you go outdoors, with this handsome 9 transistor radio. Powerful audio system plus large 3" Alnico V speaker delivers full-bodied sound, distinct radio tuning much more. Thirteen semi-conductors provide the ultimate in sensitivity. Circuit employs 9 transistors, 2 diodes and 1 thermistor. Eleven section telescoping antenna brings in even the weakest FM stations with ease. Efficient ferrite rod antenna provides maximum sensitivity on AM. Dual slide-rule dial makes tuning of both AM and FM quick and easy. Radio is complete with attractive leather carrying case, earphone for private listening and batteries. Size: 4" H x 1⅝" D x 6¾" L. Shipping weight 3 lbs.

EXTRA BATTERIES (4 Req'd.) No. BA-67 ..... 3 for 39¢

## How To Get OLSON Catalogs Regularly

Anyone who places one or more orders in each six-month period will continue to receive the Olson catalogs (similar to this one). Otherwise, because of increased printing and postage costs, we will be forced to drop your name from our mailing list.

Please be sure that your orders are placed under the exact same name as this catalog is addressed so our records will be correct.

Your friends and relatives can also qualify for Olson catalogs by ordering from this or any Olson catalog.

Thank you

## 24 HOUR Phone Service

Direct Dial Area Code 216
Akron, Ohio

**Phone: 535-9191**

If you can't phone during the day, you can phone ANYTIME at night and give your order to our night operator. Your order will be shipped the next day.

## Treasure Hunt

OFFER EXPIRES OCT. 31, 1963

★Look for your name—you may win $5 in merchandise.

Somewhere throughout this catalog are the names of 32 Olson customers. Your name may be there! If it is, write us giving the page number and OLSON will send you FREE from the catalog, $5 worth of merchandise of your choice.

## FREE



Westinghouse NITE LITE

(See Below)

Are You Getting More Than One OLSON FLYER Each Time We Mail ?

Please help us correct our mailing list. If you will tear out the address panel which appears at right and send in the two or more duplications, we will send you as a gift, a Westinghouse Nite Lite absolutely FREE! You will there after receive one Olson flyer regularly.


OLSON ELECTRONICS, INC.
260 S. Forge St., Akron, Ohio 44308
RETURN REQUESTED


Catalog 963

BULK RATE U. S. POSTAGE PAID AKRON, OHIO PERMIT No. 240

# OLSON ELECTRONICS

260 S. FORGE ST. AKRON, OHIO 44308

NEW

## Transistorized 2-WAY WALKIE-TALKIE




No. RA-583

**$9.70** 2 FOR $18.45

★ EASY TO BUILD KIT FORM ★

Anyone can build and operate this fully transistorized Space Age transceiver that transmits with the same power as America's "Explorer" Satellites! All you do is press to transmit—release to listen, and you can communicate, under ideal conditions, with family or friends up to ½ mile away. For hunting, fishing, hiking, or around the home—it's great for the family! In the office, around the plant and on the job, for police, firemen, search parties—there's nothing like it to keep everyone instantly informed! 27 MC CITIZEN'S BAND SPACEPHONE REQUIRES NO LICENSE—NO EXAMINATION—NO AGE LIMIT! High impact, shock resistant case. Uses standard 9-volt transistor battery available everywhere. (less battery). Shipping weight 1½ lbs.

Battery (1 req'd) No. BA-89 ..... ea. 21¢

★ SEE PAGE 4 FOR MORE CB UNITS

## 6 Transistor RADIO



★ With Battery, Earphone & Case

**$8**

No. RA-544

A handsome personal radio with 6 transistors and germanium diode in a powerful superheterodyne circuit—a total of 7 semi-conductors. Features push-pull audio output, built-in PM speaker, personal ear-phone jack and carrying case. Tunes standard broadcast band. Size: 2⅝" W x 4⅛" H x 1¼" D. Styles may vary slightly. Shipping weight 2 lbs.

★ SEE ORDER BLANK PAGE FOR MORE RADIOS!

## Westinghouse 5 PACK Tube Kit




★ Brand New

Each kit contains 5 brand new Westinghouse tubes—1 each as listed: 35W4, 50C5, 12BA6, 12AV6, 12AT6. Most common types for AC DC home radios. Weight ¼ lb.

**$2.50** No. AS-817

Single Kit, Ea. $2.99

Ea. Lots of 3 Kits

John Peplan, 6 Denison Rd., Middletown, Conn., wins choice of merchandise worth $5 from Olson's "Treasure Hunt." See instructions above.