

RADIO-TV ELECTRONICS

40TH
ANNIVERSARY

1967

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CATALOG
No. 671

BA

SINCE 1927

INDEX PAGE 250
CATALOG ORDER CENTER
1012 McGEE, KANSAS CITY, MO. 64106
AREA CODE 816 BA 1-4266

BURSTEIN-APPLEBEE

KANSAS CITY, MISSOURI

1012 McGEE & 301 E. 55th

OVERLAND PARK, KANSAS

6808 W. 75th

DENVER, COLORADO

800 LINCOLN

SPRINGFIELD, MISSOURI

1904 S. GLENSTONE



AMPEX VIDEO TAPE RECORDER
SEE PAGE 36



PROFESSIONAL QUALITY RECORDING TAPES

... PRICES DARE COMPARISON



STANDARD
\$1.59
1 1/2 Mil



LONG-PLAY
\$2.49
1 Mil



DOUBLE-PLAY
\$4.95
1/2 Mil

**NOW UP TO 15
TIMES LONGER
WEAR!**

Features a new improved black oxide magnetic coating and a longer wearing binder system to permanently secure the oxide to the tape backing... vastly superior, 15 times longer wearing, compared to other red oxide tapes. Anti-static properties of new black oxide prevent dust particles from accumulating and prevents recording drop outs... truly professional in all respects.

• FINEST QUALITY • FULL RANGE • BY LEADING PRODUCER • SATISFACTION GUARANTEED

STANDARD 1 1/2 MIL ACETATE TAPES

Finest quality, splice-free... better than competitive brands selling for considerably more. Stock up now at B-A's low, low prices. Shpg. wt: 7"-12 oz.; 5"-6 oz.

7"-1200' Reel 11A940. Each.....	\$1.59	5 Lots Each.....	\$1.49
5"-600' Reel 11A941. Each.....	99c	5 Lots Each.....	90c

LONG-PLAY 1 MIL MYLAR TAPES

Extra-play, extra-strength tape providing 50% more recording and playing time than 1 1/2 mil. Super strong polyester (Mylar) not affected by temperature or humidity... retains original characteristics over longer period of time. Shpg. wt. 7"-12 oz.; 5"-6 oz.

7"-1800' Reel 11A942. Each.....	\$2.49	5 Lots Each.....	\$2.25
5"-900' Reel 11A943. Each.....	\$1.69	5 Lots Each.....	\$1.55

DOUBLE-PLAY 1/2 MIL TENSILIZED MYLAR TAPE

Twice the recording and playing time of 1 1/2 mil. tapes. Finest quality, tear resistant... made of super-strong tensilized Dupont Mylar, specially conditioned for best performance always... longer life than plastic tapes. Shpg. wt. 12 oz.

7"-2400' Reel 11A944. Each.....	\$4.95
5 Lots Each.....	\$4.45

EXTRA BIG SAVINGS ON RECORDING TAPE AND ACCESSORIES

**UP TO 50%
SAVINGS FROM
REGULAR
NET PRICE**

1/2 MIL MYLAR BASE

69c

300' on 3" Reel

FULLY GUARANTEED

**ALL FIRST QUALITY PRODUCTS
OF LEADING MANUFACTURER**

**HIGHEST QUALITY MYLAR
RECORDING TAPE**

SPLICE-FREE
1200 FOOT
7-INCH REELS

COMPARE AT \$4.75
MFG. LIST

\$1.69

B-A Buyers discovered a leading recording Tape Manufacturer (we can't mention the name) with an excess inventory of first quality acetate and mylar base recording tape that could be "bought right" and passed along to lucky B-A customers at the lowest price ever! So here it is! Your choice of standard play 1 1/2 mil, 50% longer play 1 mil, or double play 1/2 mil. All top quality. Guaranteed to please you, or your money back.

1/2 MIL MYLAR BASE. 300' on 3" Reel No. 11C676. Each.....	69c	10 @ Each.....	63c
1/2 MIL MYLAR BASE. 600' on 3 1/2" Reel No. 11C677. Each.....	\$1.29	10 @ Each.....	\$1.19
1 1/2 MIL ACETATE BASE. 600' on 5" Reel No. 11A455. Each.....	89c	10 @ Each.....	75c
1 MIL MYLAR BASE. 900' on 5" Reel No. 11A457. Each.....	\$1.29	10 @ Each.....	\$1.15
1/2 MIL MYLAR BASE. 1200' on 5" Reel No. 11C682. Each.....	\$1.79	10 @ Each.....	\$1.59
1 MIL ACETATE BASE. 1800' on 7" Reel No. 11A460. Each.....	\$1.99	10 @ Each.....	\$1.89
1/2 MIL MYLAR BASE. 2400' on 7" Reel No. 11B602. Each.....	\$2.99	10 @ Each.....	\$2.75



A B-A lucky buy! Now, you can put all your recordings on lifetime Mylar at even less than the regular cost of usual acetate base tapes. Really top grade, wide range, uniform output tape. Guaranteed to give the best recording possible with all home type recorders—and you have the advantage of super strength with absolutely no danger of breakage. Can be used again and again or saved for years.
1 1/2 Mil. Mylar. 1200' on 7" Reel.
No. 11A955. **\$1.69** 10 Lots **\$1.49**
Special Ea. Each.....
1 Mil. Mylar. 1800' on 7" Reel.
No. 11A954. **\$1.99** 10 Lots **\$1.79**
Special Ea. Each.....



STOCK UP!



**225-FOOT 3-INCH
1 MIL ACETATE
TAPE**

3 FOR 99c

High quality acetate base, for tape letters, dictation, etc. Standard 3 inch reel fits all recorders. Good for 100's of recordings.
No. 11A953.
Special,
3 For..... **99c**



**B-A's TAPE
RECORDER
ACCESSORY
KIT**

SAVE OVER \$2.50
COMPARED TO
SEPARATE PRICES

ONLY **\$7.35**

Always needed aids for better recordings. Kit contains a fast action tape splicer for professional style editing of tapes, a demagnetizer to quickly rid the recorder heads of noise producing permanent magnetism, a telephone pickup for phone recording, universal patch cord for attachment to radio or TV and a 128 page book. "How to Get The Most Out of Your Tape Recorder". Top quality imports throughout.
No. 11A604. Complete Kit Only..... **\$7.35**

It's The Choice of Professionals



MODEL 861 SOLID STATE COMPLETE STEREO RECORDER

\$299⁹⁵

THE FIRST AMPEX NATIONALLY ADVERTISED FOR LESS THAN \$300.00



8 WATT RMS, 16 W. PEAK POWER STEREO AMPLIFIER

MATCHED SPEAKERS ATTACH EASILY TO FRONT OF RECORDER

2 DYNAMIC MICROPHONES

NO MONEY DOWN

Yes sir, it's really true. . . Now there's a solid state Ampex . . . built to Ampex traditional exceptional standards. Two excellent high-fidelity speakers are included. If you're looking for great stereo recordings and equally fine listening . . . it's a value leader beyond compare. Simplified operation . . . controls are clearly labeled and grouped. Two accurate VU meters constantly monitor recording level. Interlocked tab controls prevent stress and strain on tape. Precise dual Capstan drive is similar to drive system on Ampex video recorders, eliminates wear-producing pressure pads. Lifetime Ampex deep-gap heads are identical to those used on professional Ampex recorders.

Die-cast aluminum construction keeps critical parts in precision alignment . . . takes the abuse of portability. Solid state electronics are trouble-free, include expensive silicon transistors and tantalum capacitors.

Records/plays 4 track stereo or mono at 1 7/8, 3 3/4 or 7 1/2 ips. Features automatic shut-off switch, automatic tape lifter, automatic digital counter, top-mounted microphone inputs, muting switch, push-pull bass attenuator, record safety lock, pilot light, carrying handle. Two dynamic microphones and stands for live recordings are included. Speakers attach to side of recorder. Each wing contains a wide-range 9" oval speaker with response to 10,000 cps. Speaker size 9 1/2 x 6 x 5". Recorder size 18 1/2 x 13 x 6 3/4". With Ampex 815 speakers and 701 microphones. Shpg. wt. 50 lbs. **\$299.95**
No. 49A145. Model 861. Special Each.

NEW MODEL 961 AUTOMATIC REVERSING RECORDER

Identical in appearance to above but has automatic reverse feature. You can add an inaudible electronic reversing signal at any point on your tape. During playback you may play a complete tape in both directions without touching the recorder. Then depending on your desires, the recorder will either shut itself off or replay the tape. There is also a fingertip control which allows you to reverse tape direction at any time. Complete portable system as described under 49A145 above but with 960 recorder. **\$399.95**
No. 40B184. 961 System.

AMPEX

Stereo Recorders!

AMPEX ALL INCLUSIVE ONE YEAR WARRANTY

If your Recorder should fail due to manufacturing or material defects Ampex will repair or replace it at no charge to you.



NEW 2161 PORTABLE STEREPHONIC RECORDER OUTFIT

THREADS ITSELF AUTOMATICALLY — PLAY AND EVEN RECORDS A COMPLETE 4-TRACK TAPE TWO WAYS WITHOUT REEL CHANGING OR REWINDING

\$599⁹⁵

8 WATTS RMS — 16 WATTS STEREO POWER

2 Model 2001 Hi-Imp. Mikes with matching brushed aluminum bases.



2 MATCHED MODEL 2013 SPEAKERS SLIDE ON EASILY

In a class by itself the new ultra-automatic Ampex 2161 portable outfit offers you the ultimate in automatic conveniences-automatic threading, automatic reverse and now, bi-directional recording! Now you can actually record from left-to-right and from right-to-left with no rewinding or reel changing. In addition to ten extra-quality features common to all Ampex Tape Recorders the 2161 incorporates the unique built-in Monophonic Mixer. It permits you to mix both mike and line input together on a single track to create one monophonic recording blended together from two separate sound sources. The 2161 has 3-position record and playback equalization control, adjusts amplifiers for optimum fidelity for record and playback in each of the three speeds. Convenient stereo-phone jack located at top of deck. Vinyl covered top plate adds rich-looking customized appearance to deck. Automatic shut-off switch turns off tape transport at end of tape. Muting switch for record monitoring. Push-pull bass attenuator. On-off pilot light. Safety record lock to prevent accidental erasures of pre-recorded material. "Hidden" external input and output receptacles to eliminate unsightly tangled cords. Friction-loaded volume controls for simultaneous adjustment of individual speakers. Cord storage compartment. Easily accessible microphone inputs. The 2161 portable outfit includes Model 2160 Tape Recorder, two Model 2001 high impedance microphones, complete with matching brushed aluminum bases, and a pair of Ampex Model 2013 slide-on speakers. Each rich-looking speaker enclosure has a 6" woofer, 3 1/2" tweeter and comes with a 10 ft. cord which permits you up to twenty feet of stereo separation. Size of recorder with speakers attached, 11" D. x 19" L. x 13" H. Shpg. wt. 40 lbs. **\$599.95**
No. 40B183. 2161 System as described above. Net.

NEW AMPEX 985 TOTAL MUSIC CENTER FEATURING STEREO TAPE RECORDER FM-AM-FM STEREO RADIO RECEIVER

BEAUTIFUL WALNUT CABINET WITH DISAPPEARING TAMBOUR DOORS

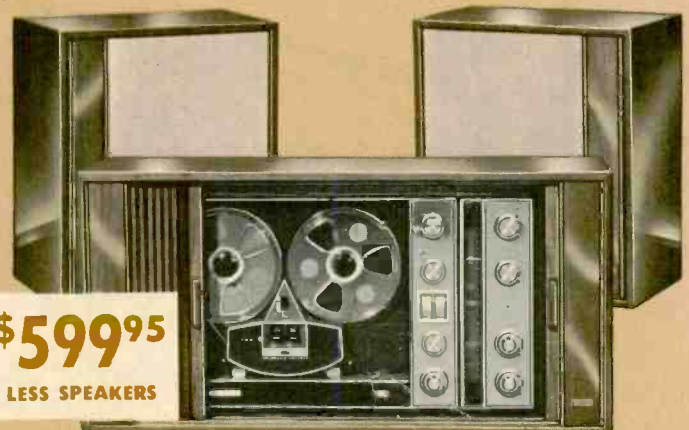
Combines the excellence of an Ampex automatic-reverse Tape Recorder with a fine new AM/FM stereo FM Radio Receiver—all in one smart, compact unit. All you add are speakers and perhaps a record player to have all the components you need for a beautiful, complete stereo high-fidelity system. Has all the features of other Ampex recorders with addition of phono inputs for magnetic cartridge.

AM and FM reception level indicator helps you adjust tuning for clearest station reception. Dual ganged bass and treble tone controls. Individual channel loudness controls. FM stereo Beacon Indicator. System includes two high quality microphones.

Less speakers. Shpg. wt. 60 lbs. **\$599.95**
No. 40B185. Model 985 Music Center.

BEAUTIFUL WALNUT MATCHING 830 SPEAKERS

The perfect match for the 985 music center. Each speaker enclosure has an 8" woofer and acoustically balanced 3 1/2" tweeter. Shpg. wt. 25 lbs. **\$99.95**
No. 40A186. Model 830 Speakers, Pair.



\$599⁹⁵

LESS SPEAKERS

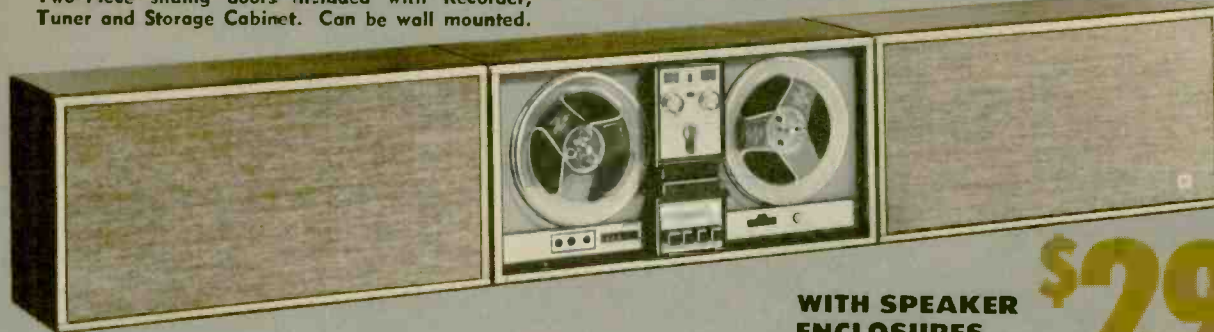
Wollensak

ALL AMERICAN MADE!

Synonymous with Quality, Ruggedness and Reliability. Wollensaks are made by Revere Mincom, of Minnesota Mining & Mfg. Co.

SOLID STATE 5800 FULL STEREOPHONIC TAPE RECORDER

Two-Piece sliding doors included with Recorder, Tuner and Storage Cabinet. Can be wall mounted.



SHOWN LESS SLIDING DOORS WHICH ARE INCLUDED

\$299⁹⁵

WITH SPEAKER ENCLOSURES...

BEAUTIFUL WALNUT WOOD CASES FOR MODULAR USE

OPTIONAL MATCHING AM-FM TUNER WITH TAPE STORAGE

A recorder the tape enthusiast will be proud to show in any room! It's component high-fidelity stereo, housed in fine walnut... at a very modest price.

Separate modular units are compact, size (9" D., 11" H., 21" W.) and lightweight... easy to rearrange with the furniture. Two-piece doors slide on tracks, add to the fine furniture look. Modules may be in-line end-to-end or separated in any arrangement on bookshelves, tables, or wall.

Recorder features the same as Model 5740 (see opposite page). Sound is tremendous from a two-way high-fidelity system in each enclosure, 6x9" elliptical and 3 inch tweeter.

Freq. resp. 40-17,000 cps. \pm 3 db. @ 7 1/2 ips.; 40-10,000 cps. \pm 3 db. @ 3 3/4 ips. NARTB standard equalization.

Model 5800. Recorder with sliding doors, two speaker systems. With microphone, cables, 7" tape and reel. 100 watts, 115 V. AC only. Each unit 9x11x21". No. 31D249. Shpg. wt. 50 lbs. **\$299.95** Net Each.



5800 WITH MATCHING TAPE STORAGE CABINET

STYLE FOR LIVING ROOM... SOUND FOR THE CRITICAL MUSIC LISTENER

5810 FM-AM-FM STEREO MULTIPLEX TUNER. Record FM stereo with the 5800. Matching case. Stereo indicator light, vertical slide-rule dial, automatic frequency control. Meets famous Wollensak standards. Solid state electronics. Includes two matching sliding doors and mounting brackets.

Specifications: FM; 1HF 10 uv, image rejection + 35 db. H.D. under .5% @ 30% mod. Freq. resp. Mono 40-15,000 cps.; Stereo 40-12,000 cps. Stereo separation 25 db. @ 1 KC. IF rejection 70 db. Size 9x11x21" No. 31B250. Shpg. wt. 20 lbs. **\$169.95** Net Each.

WALNUT CABINET



MODEL 5750

WITH DETACHABLE WING SPEAKERS AND RECESSED CARRYING HANDLE

WOLLENSAK 4-TRACK STEREO RECORDER

\$249⁹⁵

Beautiful hardwood oiled walnut case makes this recorder an attractive piece of furniture as well as a superbly designed, functional 4-track, 3-speed stereo recorder. Handsome appearance only surpassed by the high quality engineering and precision operation. Features, electrical and mechanical, are identical to Model 5740 (listed on opposite page). Size: speakers open, 42 1/2" W., 10 3/8" H., 6 3/8" D.; closed, 21 1/4" W., 10 3/8" H., 10 1/8" D. Wt. 28 3/4 lbs. No. 31C211. Shpg. wt. 32 lbs. Net. **\$249.95**



CARTRIDGES LOAD INSTANTLY

ONE HOUR PLAYING TIME

COMPLETE WITH 3 CARTRIDGES

- Single Master Control for unusually simple operation.
- Remote control start-stop switch on ultra sensitive dynamic mike.

Marvelous new concept in tape recorder simplicity... just insert the tape cartridge and start to operate. Actually simpler than loading a movie camera. Affords real advantages for on-the-spot recordings of interviews, lectures, musical performance, etc. Fully transistorized, instant recording/playback. Single "master control" starts, stops, winds, rewinds tape. Has combination recording level/battery life meter to assure finest recordings always. Remote control start-stop switch on ultra sensitive dynamic microphone lets you record interviews and lectures with perfect ease.

Music recordings playback with pleasing fidelity. Freq. response 120-6,000 cps. Has built-in connections for playback through external amplifiers and headphones. Inputs provided to record from microphone, radio, record player, or other recorder. Capstan drive assures constant speed 1 7/8" dual-track operation. Cartridge contains 300 ft. of triple-play tape providing up to 1 hour playing time. Transparent opening shows tape on reels. Cartridge can be snapped in or out of

Wollensak 4100 CORDLESS BATTERY OPERATED ALL TRANSISTOR CARTRIDGE TAPE RECORDER **\$99⁹⁵**

recorder at any time—no need to wind or rewind tape. Uses 5 standard C flashlight batteries. High impact plastic case. 7 3/4 x 4 1/2 x 2 1/4". Weighs only 3 lbs. with batteries. Supplied with black vinyl carrying case, microphone, mike pouch, 3 cartridges (with tape) and patch cord. No. 31A333. Net Each. **\$99.95**

- No. 31B226. Battery Kit..... 69c
- No. 31B225. Extra Tape Cartridges (300 Ft.) Each..... \$2.95
- No. 31B32. Car Bracket converts 4100 to playback through car radio..... \$29.50
- No. 31A334. A-0469. 110 V. 60 cy. AC Adapter. Each..... \$19.90
- No. 31A335. A-0471. Foot Control. Each..... \$17.75
- No. 31A336. A-0470. Dictation Type Earphone. Each..... \$12.75
- No. 31A337. A-0473. Patch Cord. Each..... \$4.10
- No. 31A338. A-0472. Replacement Microphone..... \$14.95

TAPE RECORDERS



3-SPEED 4-TRACK STEREO RECORD AND PLAYBACK

NEW SOLID STATE 5740



CENTER CONTROL PANEL

POWER OPERATED
PUSH-BUTTONS

All Record / Play
Functions at your
fingertips
Separate VU
Meters, Tone and
Volume Controls
for Each Channel.



RECORDS/PLAYS MORE THAN
24 HOURS MONO, 12 HOURS STEREO

\$229⁹⁵

- Detachable speaker wings.
- Compact size: fits smaller bookshelf or table.
- Operates vertically or horizontally.
- Self-contained reel locks.

- Three tape speeds: 7½, 3¾ and 1½ ips.
- Multiplex ready for FM stereo recording.
- Instant pause control.

Superb features . . . priced with the lowest-cost stereo recorders. Sound quality for the most critical music listeners. Vinyl covered wing speakers place anywhere for best stereo, grace any room. Features Wollensak's exciting "Sound with Sound", famous quality and durability. New solid state design compact size. Only Wollensak stereo recorders act as two separate monaural recorders, permitting recording applications never dreamed of before. The 5740 records/plays stereo or mono ¼ track at 7½, 3¾, 1½ ips. Either channel may be used for public address. You can sing or play duets with yourself, call square dances with pre-recorded music, add comments to pre-recorded speeches or language lessons, re-record previous recordings while listening to your first try, etc. Separate volume and tone controls, VU meters for each channel. Other advanced features are fast forward and rewind with interlocking safety controls and automatic tape lifters; monitor facility; self-adjusting brake sys-

tem; built-in reel locks; automatic shut-off at end of tape; digital tape counter. Automatic head demagnetization.

Specifications: Frequency response 40-17,000 cps ± 3 db @ 7½ ips. Wow and flutter 0.25% max. RMS. Signal to noise ratio 48 db min. Power output 10 watts (6 watts EIA). Track width, ¼ track 0.004" wide. Inputs: mike, radio/phone each channel. Outputs: external speakers. Preamps (0.5-1.5 V.), stereo headphone. Size with speakers open 42" W., 10¼" H., 7½" D.; closed 21½" W., 10¼" H., 10½" D. Microphone, blank tape and take-up reel included. Operates on 115 V. 60 cy. AC only.
No. 31C212. Model 5740. Shpg. wt. 35 lbs. Net Each..... **\$229.95**

Model 5720. Deck Version of Model 5740. With stereo recording pre-amplifiers for custom home installation. Less power amplifiers and speakers. No. 31C213. Net Each..... **\$189.95**

Wollensak

NEW 5730 4-TRACK 3-SPEED PORTABLE STEREO RECORDER

A stereo high fidelity portable with professional features. Built for portability, ease of operation and the reliability of operation that has made Wollensak famous. Its low cost is a pleasant surprise. Plays and records 4-track stereo and monaural in either vertical or horizontal position. Features 2-VU meters, easy to use center control panel, digital tape counter, automatic shut-off at end of tape, self-contained reel locks, 3 speeds (7½, 3¾, 1½ ips), instant pause control, power activated push buttons, fast forward and rewind with interlocking safety controls, automatic tape lifters, automatic head demagnetizers, monitor facility, patented self-adjusting braking system. One dynamic microphone, blank tape accessory cords and take-up reel included. Freq. resp. 40-17,000 cps ± 3 db @ 7½ ips. 40-10,000 cps ± 3 db @ 3¾ ips. Wow and flutter 0.25% RMS. S/N 48 db. Power output 10 watts (5 watts each channel). Inputs for 2-mikes and 2-phonos/radio. 2 self-contained 4x6" elliptical speakers. Outputs for 2 external speakers and 2-preamps. Attractive high impact case construction. Size 16" W., 10" H., 7" D. Power consumption 100 watts AC only. Wt. 22 lbs.
No. 31A215. Shpg. wt. 30 lbs. Net Each..... **\$199.95**

\$199⁹⁵
EASY TERMS

LIGHT-WEIGHT
JUST
22 LBS.



MONAURAL MODEL 5710
2-Track monaural version of 5730 listed above. Same specifications except one input and single 4x6" speaker. Wt. 22 lbs.
No. 31B217. Shpg. wt. 29 lbs. Net Each..... **\$159.95**

WOLLENSAK KEYBOARD CONTROL MODEL 1500SS

\$184⁹⁵

IMPROVED SOLID STATE VERSION OF FAMOUS MODEL 1500...
FEATURES RECORDING LEVEL METER PLUS ALL TRANSISTOR
ELECTRONICS—2 TRACK MONAURAL

A marvel of compactness using miniaturized components and all-metal airplane construction. A superior monaural tape recorder. Provides up to 4 hours recording time on 7" reel using long play tape. 12 watts push-pull output is four times greater than ordinary recorders. Features keyboard control. Dual speed, operates at 3¾ ips and 7½ ips; level recording meter, precision index counter. Specifications: Frequency response: 40-15,000 cps ± 3 db @ 7½ ips; 40-8,000 cps ± 3 db @ 3¾ ips. Both speeds, signal to noise ratio 48 db. Wow and flutter less than .3%. Operates from 110-125 V. 60 cy. AC. Size 6½x10¼x11¾". Complete with dynamic microphone, 2 reels (one with tape). No. 31D232. Shpg. wt. 23 lbs. Net Each..... **\$184.95**



RECORDS 4 HOURS
ON 7" REEL

QUANTITY USERS: Schools, Churches, Institutions write for special quotes for any Wollensak recorders in lots of 12 or more.

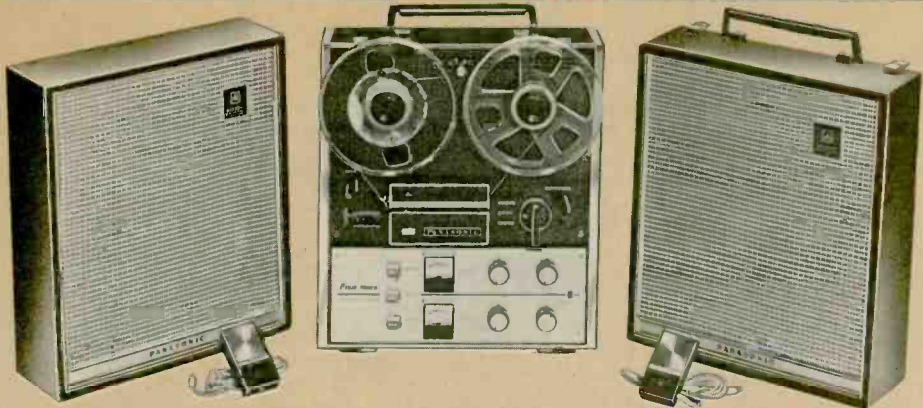
WOLLENSAK FINE ACCESSORIES

- TF404 Foot Control. Starts and stops tape with manual operation. 1500 Series No. 29A419. Each..... **\$17.50**
- A-0458 Earphone with plug. No. 31A54. Each..... **\$10.50**
- A-0455 Microphone Extension Cord. 15 ft. No. 31A55. Each..... **\$7.50**
- A-0456 Carrying Case for 5710, 5730. No. 31B56. Each..... **\$10.95**
- A-0454 Dynamic Mike. No. 39A184. Each..... **\$13.50**
- A-0460 Mike Stand. No. 39A185. Each..... **\$7.95**
- TSC405 Carrying Case for 1500 series. No. 31C296. Each..... **\$7.95**



PANASONIC

STEREO TAPE RECORDERS



PANASONIC TRANSISTOR 4-TRACK STEREO RECORDER

- Sound-on-sound and Pan-A-Trak for language or music study.
- 2-Speeds 7½ and 3¾ ips. Automatic shutoff.
- 2 built-in 3x5" PM speakers.
- Takes up to 7" reels.
- Vertical or horizontal operation.
- AC bias on Record and Erase heads.
- Up to 6 hours mono, 12 hrs. stereo record/play.
- Frequency response 60-15,000 cps.

Provides brilliant stereophonic recording and playback at the lowest price ever. Provides such outstanding features as provision for monitoring while recording, pause lever, separate volume and tone controls for each channel. Inputs, 2 each for microphone and auxiliary. Outputs 2 each for external speaker and for line. 2 VU meters for accurate recording level setting. Conservatively rated output 4 watts EIA stereo, 8 watts music power. Size 13¾" W., 16½" H., 8" D. Cabinet of wood covered with scuff-resistant vinyl. Color charcoal gray, 117 V. AC operation. Accessories included. 2 high-fidelity microphones, 7" reel of tape plus empty reel, splicing tape, 2 radio/TV patch cords,

\$159⁹⁵

WITH
BUILT-IN
SPEAKERS

2 line cords, 2 extra plugs. Wt. 27 lbs. Less extension speakers shown above. Shpg. wt. 32 lbs. No. 39A248. RS7555.

Net **\$159.95**
MODEL RS7555 Recorder with matching extension speakers as shown above. Each side contains 7" PM high-fidelity speaker with 8 ft. cord and connecting plug. Two speaker units lock together for ease of carrying. Size in locked position 15¾ x 16 x 9". Total weight of speakers 15 lbs. Shpg. wt. 20 lbs. Complete system including all accessories described with recorder above plus matching extension speakers. No. 39A249. Shpg. wt. 52 lbs. Net **\$199.50**



PANASONIC 780 PROFESSIONAL AUTOMATIC REVERSE TRANSISTORIZED 4-TRACK STEREO RECORDER

\$299⁵⁰

- 16 watts music power.
- 3 speeds.
- Freq. resp.: 50-18,000 cps @ 7½ ips; 100-7,000 cps @ 3¾ ips; 150-4,000 cps @ 1½ ips.
- Push button operation.
- Separate high-fidelity speakers.

The virtuoso recorder delivers distinctive stereo performance. Features automatic reverse, operates horizontally or vertically. Swing-out detachable 4 stereo speakers (two in each side). Exclusive Pan-A-Trak for language or music study. 4 digit tape counter. Two VU meters. "Cue" button for dubbing. Separate volume and tone control knobs for each channel. AC bias on both record and erase head, 2 mic inputs, 2 aux. inputs. Output: 2-ext. speakers, 2-line, monitor. Dimensions: 18 x 18 x 12". Comes complete with 2 dynamic microphones, 7" standard tape and empty reel. 2 connection cords. 2 reel holders and splicing tape. Operates on 117 V. AC. Wt. 45 lbs. Shpg. wt. 53 lbs. No. 39A247. Net Each **\$299.50**

CONCORD 350 TAPE RECORDER

AUTOMATIC REVERSE
VOICE OPERATED

\$149⁵⁰



RECORDS AND PLAYS UP TO 6 HOURS
WITHOUT INTERRUPTION ON 5-IN. REELS

- 50-10,000 cps frequency range.
- Solid State—9 transistors, 1 diode

Combines in a lightweight portable package advanced features, reliability, and high quality previously found only on the most advanced studio-type recorders. Automatic reverse provides uninterrupted listening through the entire length of tape. Tape direction reverses automatically or may be reversed manually. Voice operation starts the recorder automatically when it picks up sound. When the sound stops, the recorder stops. Positive action push-buttons controls all transport functions. The slice-switch on the microphone starts and stops the recorder.

Plus professional features: 4-pole special platinum-coated governor motor, zero-set digital tape counter, variable tone control, cue button for editing tape, VU meter, earphone or speaker monitoring. Optional 115 V. AC adaptor allows 115 V. AC operation. Records half-track at 1½-3¾ ips. Big 3 x 6" oval speaker, high quality "Flux-Field" heads. Hinged lid with see-through area, recorder operates with lid closed. With start-stop microphone, earphone, self-threading reel, sensing tape, and patch cord. Size only 11½ x 11 x 4". Weighs just 10 lbs. Shpg. wt. 13 lbs.

No. 31A114. Each **\$149.50**
No. 31C112. Battery Kit. 6 "D" Cells **84c**
No. 31B115. 115 V. AC Adaptor **\$19.95**
No. 31B103. FT-2 Foot Switch **\$14.95**
No. 31D105. TP-2 Telephone Pickup **\$7.95**

CONCORD 300

"REVERSE-A-TRACK" AC OR BATTERY
POWERED PORTABLE TAPE RECORDER

\$99⁵⁰



Exclusive Revers-A-Track Allows You to Change Tape Directions Instantly Without Changing Reels.

- High fidelity frequency range 60-10,000 cps. Wide-range oval speaker, tone control.
- Lightweight portability. . . weighs just 6½ lbs.
- Records 3 hours with standard 4" reel.
- Operates on 115 V. AC or 6 type "C" batteries.
- Full features: Start/Stop Dynamic Microphone, VU meter, Dual 1½-3¾ ips speeds, 2-track Record/Play, Fast Forward.
- Fully transistorized, 9 transistors, 1 diode.

A true companion—you'll never go anywhere without your 300. As versatile as it is simple to operate. Easily record lectures, sales meetings, parties, radio or TV programs. Automatic record control allows you to record sounds from different distances at the same level. Concord's exclusive "Reverse-A-Track" enables you to change tape direction instantly without changing reels. Saves valuable recording time, and you'll catch every word of what you want to record. Dual speed—3¾ and 1½ ips. VU meter and battery life indicator. Remote control dynamic microphone. Removable carrying handle. Shpg. wt. 8 lbs. **\$99.50**
No. 31A237. Net Each



PANASONIC

NEW SOLID STATE UNIVERSAL AC-BATTERY MINIATURE TAPE RECORDERS

FEATURE OPTIONAL USE WITH VOICE-ACTUATED MICROPHONE
Operate on 6 Flashlight Batteries or Ordinary House Current

6 Transistors 3 Diodes 1 Thermistor

RECORDS
UP TO 2 HOURS
ON 3-INCH REEL

\$49⁹⁵

MODEL
RQ-102

POSTPAID ANYWHERE
IN U.S.A.

NOTHING
DOWN



**EXCEPTIONAL
NEW MODEL
RQ156 OPERATES
VERTICALLY**

\$69⁹⁵

All the proven wonderful features and specs. of the already popular Panasonic Models RQ-102 and RQ-152 now in desirable vertical style with push-button controls. Provides added simplicity. Other extras include "Easy-Matic" switch which permits making recordings without adjusting the recording level when desired. Handles 5" reel for up to 4 hours recording time. 2 speeds—1 7/8 and 3 3/4 ips. Also 3 digit tape counter, remote pencil mike with stand, VU meter/battery level meter. Accessories include tape, take-up reel, patch cord, earphone, and 4 "D" size batteries. No. 39A250. **Net Each.....\$69.95**



SPECIAL REVOLUTIONARY AUDIO-MATIC MICROPHONE

Automatically starts recorder at sound of voice or music. When sound stops, recorder stops automatically. Leave recorder unattended for zillions of special uses never before possible. No. 31C264. RP950 Microphone. Each..... **\$19.95**

5-IN. REEL RQ152

\$89⁹⁵

RECORDS UP TO 4 HOURS

- One Full Year parts Warranty . . . Your Money Back if you're not more than pleased.
- Constant-speed Capstan drive: 1 7/8-3 3/4 ips.

Tiny in size, and lightweight for easy carrying . . . Masterpieces of miniature construction. Optional Audio-Matic Microphone opens a new world of recorder uses. Record telephone conversations, conferences, meetings, secret conversations, and dictate; hands free . . . without touching the recorder. Big recorder sound . . . superb amplifiers . . . clearest playback with powerful amplifier and speaker. Latest electronic design uses 6 transistors, 3 diodes, AC bias record system, powerful 700 mW amplifier, built-in 115 V. AC power supply. If power fails, batteries take over. Rewinds 200 ft. tape in 1 1/2 min. Signal to noise: 40 db. Includes highly sensitive dynamic microphone with Start/Stop Switch.

- Powerful 3 1/2" dynamic speaker, single lever function control, remote control microphone, VU meter, fast forward, 2-track record/play.

Tape, and Take-up Reel, Patch Cord, Earphone, 6 "D" size batteries. Famous Panasonic Import. 3-In. Reel RQ-102. 9 5/8x8 1/2x3". Weight: 4 1/2 lbs. No. 31B270 **\$49.95**

Postpaid, add no money for shipping. . . . 5-In. Reel RQ-152, with special extra features. Variable tone control, doubles as volume control to monitor recordings with internal speaker, or earphone. Plus digital tape counter with reset button. Weight 7 lbs. Postpaid, add no money for shipping. **\$89.95**

31C275, Net Each. . . . **\$89.95**
31B206. Foot Switch for dictation. Net Ea. . . . \$9.95
31B208. Telephone Pick-Up. Net Each. . . . \$4.95



MODEL
RQ-113 **\$29⁹⁵**

MODEL
RQ-105 **\$39⁹⁵**



PANASONIC SOLID-STATE BATTERY TAPE RECORDERS

- Start-stop remote microphone.
- Constant speed Capstan drive.

- 115 V. AC operation with adaptor.
- Voice actuation with Audio-Matic mike.

Book size with full features like the higher-priced recorders. Ideal for taping letters, for meetings, classrooms, conferences. Quick, easy and fun to make recordings with these low cost recorders. Constant speed Capstan drive, 3 3/4 and 1 7/8 ips, permits interchange of tape with other recorders. Powerful 3 1/2" dynamic speaker for wonderfully clear recordings even with music. Both models complete with tape, take-up reel, batteries and remote control dynamic microphone.

PUSH-BUTTON MODEL RQ-105

Piano-key push-buttons control record, fast rewind, stop, play and fast-forward functions. Operates on 4 "C" size flashlight cells. Size only 10 1/4 x 7 3/4 x 2 1/2". With batteries. Shpg. wt. 7 lbs. No. 31D266. Quality Import. Net Each. **\$39.95**

NEW LOW COST MODEL RQ-113

Operates anywhere—so compact, lightweight. Size only 9 x 3 1/4 x 10". Operates on 6 "C" flashlight cells. Shpg. wt. 6 lbs. No. 39A252 Net Each. **\$29.95**

ACCESSORIES FOR RQ105 & RQ113

No. 31B207. Adaptor for 115 V. AC. Each. . . . \$5.95
No. 31B206. Dictation Foot Switch. Net Ea. . . . \$9.95

No. 31B208. Telephone Pickup. Net Each. . . . \$4.95
No. 31C264. Voice actuated Mike. Net Ea. . . . \$19.95

PANASONIC RQ-3100 SOLID-STATE BATTERY POWERED CARTRIDGE TAPE RECORDER

\$69⁹⁵



NO FUMBLING WITH TAPE! JUST POP A CARTRIDGE IN AND IT'S READY

Easiest to operate tape recorder ever. Just slip a tape cartridge into the recorder and play and record for up to one full hour. Truly portable. Just 3 1/2 lbs. Size only 9 x 4 5/8 x 2 1/4". Powered by 5 standard "C" flashlight batteries. Goes anywhere . . . plays anywhere. Big PM dynamic speaker assures rich, beautiful sound reproduction. Freq. response 100-7,000 cps. Remote dynamic microphone with stand. VU meter recording level indicator. Fast forward and rewind. Tape speed 1 7/8 ips. Complete with mike, private earset, carrying case and shoulder strap, batteries and tape cartridge. Shpg. wt. 5 lbs. **\$69.95**

No. 39A251. Import Special. Each. . . . \$69.95
No. 11A563. Extra Tape Cartridges. Each. . . . \$3.56
No. 31B207. Adaptor for 115 V. AC. Each. . . . \$5.95

*Cartridges are interchangeable with Norelco, Wol-lensak, GE, etc., recorders.

Norelco®

CARRY-CORDER "150" SOLID STATE CORDLESS CARTRIDGE TAPE RECORDER



IT'S SO SIMPLE!

Just snap - in cartridge . . . record or play.

\$89⁵⁰

EASY TERMS

Latest rage in tape recording . . . and little wonder for its rise to fame and unparalleled popularity! Just snap in a tape cartridge, flick on the switch to record or playback. Loads, unloads and reloads in seconds. Single control starts, stops, winds, rewinds. Solid-state for instant use without warm-up. Plays 60 minutes with standard cartridge or 90 minutes with new long-play cartridge. Tape speed 1 7/8 ips, Capstan drive for constant speed dual-track operation permitting interchange of tapes with other cartridge recorders.

Combination recording level/battery life meter to assure finest recordings always. Ultra-sensitive remote control microphone with built-in start/stop switch. Surprisingly fine tone quality with self-contained wide range speaker. Freq. response: 100-7,000 cps ± 3 db. Wow and flutter: 0.35%. Outputs for external amplifiers and headphones. Inputs for mike, radio/phone or other recorder. Operates on just 5 standard "C" flashlight batteries. High impact plastic case. Only 7 3/4 x 4 1/2 x 2 1/4". Weighs only 3 lbs. with batteries. Complete with black vinyl carrying case, mike, mike pouch (doubles as mike stand for conference), tape cartridge and patch cord.

No. 31B224. Model "150". Each. **\$89.50**
No. 31A329. AC Adaptor/Battery Charger. Each. \$19.90
No. 31A299. Tape Mailer. 10 for. 49c

CAR MOUNT FOR MODEL "150"

For using Carry-Corder as tape system for your automobile. Simple to install-mounts under dash. Complete with adaptor to work through auto radio amplifier and speaker conserving recorder batteries. Size 11 1/2" L. x 3" D. x 5 1/2" W. Shpg. wt. 2 lbs.
No. 31B32. Each. **\$29.50**

Norelco® COMPLETELY SELF-CONTAINED STEREO TAPE RECORDER

\$239⁵⁰



3 SPEEDS—1 7/2, 3 3/4, 1 7/8 ips providing up to 16 hours recording/playback on one tape.

PROFESSIONAL QUALITY. FEATURES, PERFORMANCE AND VERSATILITY WITH COMPLETE TAPING CAPABILITIES FOR MIXING, PARALLEL PLAY, DUOPLAY AND MULTIPLAY.

• 4-track stereo record/playback. • 4-track mono record/playback.

An amazing value truly unsurpassed by any other recorder in its price class. Highly desirable from its handsome low silhouette decorator styling to its exceptional performance to please the most critical high fidelity listener. With its unusual versatility, which permits more taping capabilities than ever imagined, it has been designed with operating simplicity in mind.

Push-button control function center for Record, Play, Fast Forward, Rewind and pause. Special bonus feature lets you preset recording level while tape is stationary. Magic eye recording monitor determines proper level to record. Tone control lets you select required bass or treble response. Monitoring facilities permit listening in during recording with headphones or through speakers. 4 digit push-button reset program indicator.

Dual solid-state recording and playback preamplifier and power amplifiers meet professional high fidelity standards. Has necessary power requirements for public address use in auditoriums, etc. Features world-renowned Norelco high efficiency speakers (one in detachable lid, other in cabinet). Freq. response: 40-18,000 cps ± 3 db @ 1 7/2 ips; 60-15,000 cps ± 3 db @ 3 3/4 ips; 60-10,000 cps ± 3 db @ 1 7/8 ips. Wow and flutter: 0.105% RMS @ 3 3/4 ips. Signal to noise ratio: better than -45 db. Inputs: stereo mike, 2 for phono, radio, or tuner (mono or stereo). Outputs: external speakers, external amplifiers, stereo headphones. Supplied with professional stereo microphone—actually 2 mikes in one which automatically separates sound coming from each direction.

Special capabilities include: **Mixing** for recording of two programs simultaneously such as mike with radio or phono. **Parallel playback** for playing two programs recorded on separate tracks simultaneously. **Duo-play** for recording sound on sound. First recording may be monitored while adding second recording. **Multi-play** for simultaneous record and playback. Record on one track, then playback while recording on second track. Playback perfectly balanced combination of both recordings on second track. May be repeated unlimited number of times. Smart teakwood cabinet decorator designed for home as well as professional use. Size 17x14x9". Complete with stereo mike, take-up reel, and demo tape. 117 V. 60 cy. AC. Shpg. wt. 22 lbs.

No. 31A293. Model 420. Each. **\$239.50**
No. 31A294. Foot Control. Each. \$15.90
No. 31B295. Stereo Headset. Each. \$17.15
No. 31A298. Telephone Pickup. Each. \$7.45

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Norelco® CONTINENTAL "101" SOLID STATE CORDLESS PORTABLE TAPE RECORDER

WAS \$99.50
\$79⁵⁰

Surpasses all other battery-operated portable recorders in dependability, durability, and fine quality performance. Long a favorite of broadcasters and other professionals. Simple push-button operation. Bass/Treble tone controls. Combination Recording Level/Battery Life Meter. Capstan drive for constant 1 7/8 ips speed. Dual track operation provides three full hours recording and playback on a 4" reel of tape. Self-contained wide-range Norelco 4" speaker reproduces sound quality far superior to other recorders its size. Freq. response 80-8,000 cps. Ultra-sensitive dynamic mike. Output for external amplifier. Inputs for radio phono, etc. High-impact polystyrene case takes abuse. Size 11x3 3/4x8". Weighs only 8 lbs. with batteries. Operates on 6 "D" flashlight cells.

No. 31A327. Each. **\$79.50**
No. 31A328. Sturdy Fitted Carrying Case. Each. \$7.90
No. 31A329. AC Adaptor/Battery Recharger. Each. \$19.90
No. 31A330. Remote Control Mike Switch. Each. \$3.95

Norelco®

CONTINENTAL "95" TAPE RECORDER



\$79⁵⁰

Precision quality at budget cost! Rugged and dependable, tops in convenience and simplicity. Features automatic record control to electronically set correct volume for recording; foolproof push-buttons for record, playback, wind, rewind, pause and stop; adjustable controls for on/off, volume and tone. Capstan drive, dual track 3 3/4 ips operation provides up to 3 full hours on one reel of tape. High efficiency 4" speaker for fine tone quality. Freq. response 80-12,000 cps. Wow and flutter: less than 0.2%. Inputs for mike, radio/phone. Outputs: Radio/Phono/TV, external amplifier.

Handsome low profile polystyrene cabinet, 14 1/4 x 10 x 5". 117 V. 60 cy. AC. Shpg. wt. 12 lbs.
No. 31C312. Net Each. **\$79.50**

NORELCO ACCESSORIES

C-60 Tape Cartridge. Dual track 1 7/8 ips. Fits Norelco 150, Wollensak, Panasonic, GE, Standard, etc. recorders. No. 31B225 (300 Ft.). Each. \$2.95
C-90 Tape Cartridge. As above. No. 31B300. (450 Ft.). Each. \$3.75
FP-86 Foot Control for 150 and 101. No. 31B301. Each. \$17.75
HP-86 Headset. For 150 and 101. No. 31B303. Each. \$12.75
CTM-86 Close Talking Mike for 150 and 101. Cuts out background noise. No. 31B302. Each. \$29.25
TP-86 Telephone Pick-Up for 150, 95 and 101. No. 31B305. Each. \$7.45

WOLLENSAK

VERY POPULAR MODEL 1288

FULL STEREOPHONIC TAPE RECORDER

COMPLETE 4-TRACK STEREO RECORD AND PLAYBACK

**SAVE \$41.00
WHILE LIMITED
QUANTITY LASTS!**

B-A REG. PRICE WAS \$239.95

\$198⁹⁵

WHILE
THEY
LAST

**WALNUT BOOKSHELF SPEAKERS CONTAIN
6x9" ELLIPTICAL WOOFER, & 3"
TWEETER WITH CROSSOVER NETWORK**

- Studio performance in a living room setting.
- Separate VU meters, tone and volume controls for each channel.
- Operates vertically or horizontally.

**SOUND-
WITH-
SOUND**

REVOLUTIONARY TAB CONTROLS



Designed for ease of operation and flexibility of use. With these four tabs you have all record/playback functions at your fingertips.



**BEAUTIFUL
WALNUT
DECORATOR
STYLING**

Features exclusive Tab Controls, permitting recording and playback simultaneously on separate channels.

Designed for sound reproduction to satisfy even the most critical music listeners, and with the built-in reliability well-known to Wollensak users... plus attractive styling to fit gracefully even in the living room. Wood-cased bookshelf speakers provide the best stereo spacing in any size room. All these superb features for a price that compares with the lowest-cost stereo recorders.

Records and plays 4-track stereo or mono at 3 3/4-7 1/2 ips. Has separate volume and tone controls, with VU meters for each channel. Operates horizontally or vertically. Other advanced features are fast forward and rewind with interlocking safety controls and automatic tape lifters; pilot light; monitor facility; self-ad-

justing brake system; built-in reel locks; automatic shut-off at end of tape; digital tape counter.

Specifications: Frequency response; 50-17,000 cps ± 3 db @ 7 1/2 ips; 50-8,000 cps ± 3 db @ 3 3/4 ips. Wow and flutter 0.3% max. RMS. Signal to noise ratio 45 db. min. Power output, 6 watts (3 watts/channel EIA). Track width, 1/4 track 0.004" wide. Inputs: mike, radio/phone each channel. Outputs: external speakers. Pre-amp (0.5-1.5 V), each channel. Size 7 1/2" D., 16 1/4" L., 13" H. Speaker enclosure size 5 3/4" D., 19" L., 10 1/2" H. Playing time up to 12 hours mono, 6 hours stereo. Accessory storage compartment for 2 dynamic microphones, blank tape and take-up reel, patch cords included. Shpg. wt. 40 lbs.

No. 39A147. Model 1288. While They Last. Net Each..... **\$198.95**

COLUMBIA MASTERWORK SOLID STATE PORTABLE TAPE RECORDER

TAKES 7-INCH REEL FOR
EXTRA LONG PLAYING TIME



\$79⁹⁵

Best buy we've seen for the money. Specially imported by Columbia to provide true precision quality at budget cost.

Simple to operate with push-button controls for Play/Stop/Rewind/Fast Forward. Also On/Off/Volume; Tone; Record Lock; Digital tape footage counter; Recording level meter; and pilot light. Two speeds 3 3/4 and 7 1/2 ips for up to 4 full hours recording. Rich toned sound through fine quality 3x9" oval speaker. Accessory cords for recording from radio, TV or phono. Output jack for monitoring with earphones. Rugged all-wood case covered in two-tone gray leatherette measures 12" wide, 5 1/8" high, 13" deep. Complete with sensitive mike, monitoring earphone, 600 ft. reel of tape, empty 7" reel and alligator clip accessory cord. 110 volt 60 cy. AC. Shpg. wt. 18 lbs.

No. 31B194. Imported. **\$79.95**
Special Each.....

CONCORD HIGH FIDELITY TAPE RECORDERS! ALL SOLID STATE 3-SPEEDS - 7 1/2, 3 3/4 AND 1 7/8 IPS.

MODEL 220T



LIGHT-
WEIGHT
ONLY
22 LBS.

**UNEXCELLED IN PRICE
& QUALITY**

12 HOURS
RECORDING
ON 3600
FT. REEL
117 V.
60 CPS.
OPERATION

\$119⁵⁰

MODEL 122



LIGHT-
WEIGHT
ONLY
17 LBS.

\$99⁵⁰

**BOTH THE MODEL 220T AND 122 FEATURE STURDILY CONSTRUCTED
SCUFF-RESISTANT VINYL COVERED CARRYING CASE**

- Digital counter.
- AC bias on both record and erase, normally found on more expensive recorders.
- Storage for accessories.

MODEL 220T DELUXE PORTABLE

Work horse of the industry. Hundreds in use in language labs and other commercial applications where excellent performance and long time trouble-free operation is absolutely essential. Push-button operations provide easy fool-proof control of every function. Motor is varisync for flutter-free operation. Microphone is advance designed hi-fidelity. Includes automatic equalization, magic-eye level indicator; incorporates features for setting of record level without tape moving, tone control, cue and edit button, 6x4" oval speaker, 1 microphone input 20,000 ohm unbalanced, 1-radio-1,000 ohm unbalanced. Frequency response 40-15,000 cps @ 7 1/2 ips, 40-10,000 cps. @ 3 3/4 ips, 40-5,000 cps @ 1 7/8 ips. Output impedance 3 ohms. Size 12x13x7 1/2". Wt. 22 lbs. Includes dynamic microphone, earphone, 7"

take-up reel, radio, TV recording patch cord. Shpg. wt. 27 lbs.
No. 31A276. Net Each..... **\$119.50**

MODEL 122 PORTABLE

A superb recorder featuring many of the qualities of the 220T listed above. Has VU meter for accurate setting of recording level. Single knob selects speed of 7 1/2, 3 3/4 or 1 7/8 ips. Other controls include volume, tone, fast forward, play, record, rewind. Large 6" high fidelity console type speaker provides highest sound quality. Input for auxiliary microphone. Output 3 ohms for earphone (included) or extension speaker. Size 14x6 1/2 x 11". wt. 17 lbs. Includes dynamic microphone, earphone, radio/TV patch cord and take-up reel.

No. 31B279. Shpg. wt. 22 lbs. Net Each. **\$99.50**



**\$14.95 FREE
EXTRA BONUS**

DELUXE STUDIO QUALITY STEREO HEADSETS—frequency response 25-18,000 cps. Gives the sensation of your own private music hall. With junction box connector.

**B-A's LOW PRICE
\$149⁵⁰**

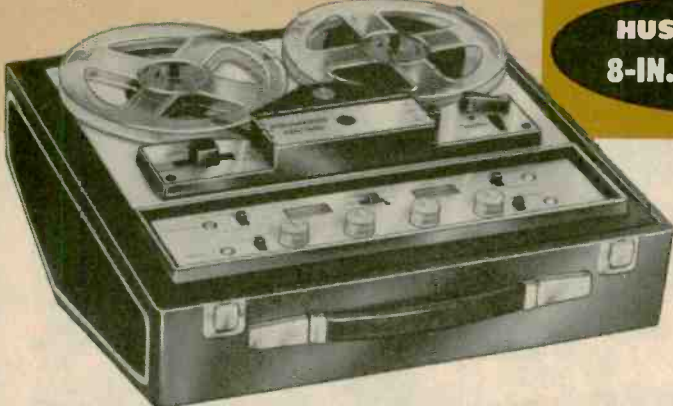
NOTHING DOWN

**HUSKY OVAL
8-IN. SPEAKERS**

B-A DELUXE SOLID STATE FULL STEREO TAPE RECORDER

**4-TRACK STEREO RECORD/PLAY, SOUND-WITH-SOUND, 30° TILT-UP FRONT PANEL
.... PROFESSIONAL FEATURES**

3 Speeds: 7½, 3¾, 1½ ips for up to 16 hours recording



Outclasses and out-performs other recorders selling for many \$\$\$ more. Attractively and expensively styled... it's portable, rugged, and reliable.

Husky 8-inch oval speakers powered by 6 watts of stereo give exceptional tone with a full high-fidelity frequency range of 50-15,000 cps, usable range of 20-20,000 cps. **SOUND WITH SOUND** permits recording one channel while playing the other channel, adding voice commentary to music, language or music practice, etc. One or both channels can be used for public address. Separate VU meters, volume and tone controls, are grouped together for each channel.

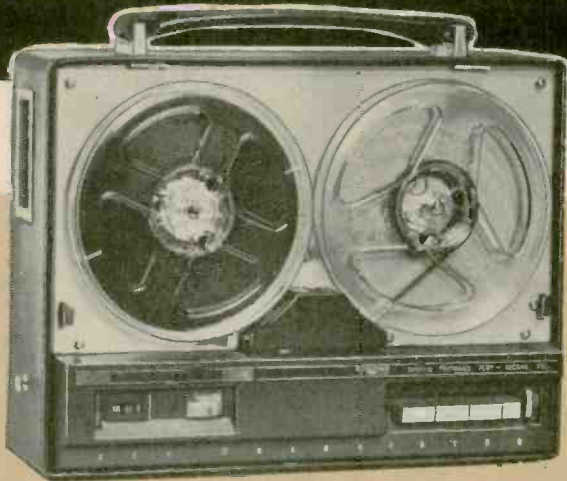
Extremely fast forward and rewind averages 120 ips. Inputs for microphone, radio/phone. Outputs for external speakers. Signal to noise ratio: 45 db. Wow and flutter less than 0.25 RMS @ 7½ ips. Precision digital tape counter

Sturdy wood case covered with charcoal leatherette. Operates with lid closed over 7" reels. With matching sensitive microphones for stereo recording. 110-120 V.-AC. 40 watts. UL listed. Size 15x15¼x9" H. Shpg. wt. 30 lbs.

No. 31C111. With Free Bonus Headphones..\$149.50

HIGH QUALITY POCKETABLE SOLID-STATE TAPE RECORDERS

TAKE YOUR CHOICE OF CARTRIDGE OR REEL



B-A's AMAZING HIGH-FIDELITY SOLID-STATE PORTABLE RECORDER

OPERATES ON 115 VOLT AC OR BATTERIES

\$59⁹⁵

OPERATES VERTICALLY OR HORIZONTALLY



Rugged and dependable with quality and features you would normally expect to pay \$89.95 and up for. Operates upright or in lay-down position. Weighs just 7 lbs. and operates while being carried. 2 mikes: start-stop remote control dynamic mike for "live" recordings; Vacu-mike for direct recording from radio, phono, telephone, musical instrument, etc.—adheres to any resonant surface. Voice-actuated mike optional.

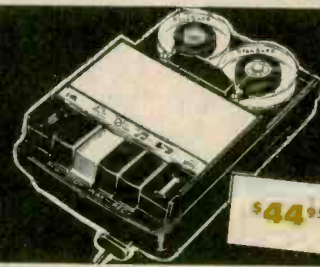
Music recordings playback with astonishing high-fidelity quality. Freq. response 100 to 8,000 cps at 3¾ ips. Voice recordings are unusually natural and clear. Fast, sure-action push button fingertip control of rewind, fast forward, playback and record. Professional VU meter, 3 digit index counter, full 5" reels for up to 4 hours playing time. Dual speed (1½ and 3¾ ips) half-track capstan drive. 4" oval dynamic speaker, jacks for external speaker or earphone. In-expensive operation with 4 "D" flashlight batteries or plugs into 115 V. AC house current. Luxurious leather covered case. Size, 4x8x11". Shpg. wt. 9 lbs. with batteries.

No. 31D288. Import Special, Each.....\$59.95

OPTIONAL VOICE-ACTUATED MIKE. Starts and stops recorder automatically by sound.

No. 31C264. Special Each.....\$19.95

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Here's engineering integrity and high quality without compromise by Standard, a world leader in electronics. Student or businessman, anyone desiring truly miniature size recorders of outstanding dependability and convenience will choose one of these miniature gems. Both feature capstan-drive to permit interchange of tapes with other recorders, remote control dynamic mikes, built-in PM speakers, optional AC operation and are complete with leather carrying cases and shoulder straps.

SR-100 CARTRIDGE TAPE RECORDER

Just insert cartridge and you're ready for 60 minutes of recording and playback. Simple controls for fast forward, rewind, record and play. Professional VU meter, battery-life indicator, private earset, and 8' patch cord are other conveniences. Measures only 4 7/8" W. x 2 1/8" H. x 6 1/8" D. Operates on 6 "AA" pence cell batteries. Complete with 3 tape cartridge.

No. 31B120. Shpg. wt. 4 lbs. Import Special, Each.....\$59.95
No. 11A563. Extra Tape Cartridges. Each.....\$3.56
No. 31C133. Adaptor for AC Operation. Each.....\$7.95

SR-200 PUSH-BUTTON MINI TAPE RECORDER

Our smallest capstan-drive recorder, measures only 2 3/8 x 4 2/5 x 7 2/5" for true pocket-size convenience. Amazingly simple to operate too! Four piano-type push buttons control entire operation—rewind, fast forward, record and play. For extra versatility supplied with telephone pickup and extension speaker jack. Records 50 minutes on 2" tape. Operates on 6 "AA" pence cell batteries. Shpg. wt. 4 lbs.

No. 31B132. Import Special, Each.....\$44.95
No. 31C133. Adaptor for AC Operation. Each.....\$7.95
No. 11A946. 2" Reel Mylar Tape. Each.....49c 10 Each.....45c

SUPER-SENSITIVE 5-TRANSISTOR SOLID-STATE HAND-HELD TAPE RECORDER

WAS \$17.88

NOW

\$14⁸⁸

**RECORDS,
PLAYS
IN ONE
HAND....**



**No Dangling
Wires or
Microphone**

Never fails to make perfect recordings every time. Solid-state electronics, reliable construction throughout, assure years of constant use. Makes 60 min. of faithfully clear recordings, 2-track at 3¾ ips. Fast rewind in 80 sec. Uses low-cost 3" reel of tape and inexpensive batteries. Speed control adjusts tape speed for weak batteries. Also permits use of 2 or more recorders for "talking letters". Sensitive dynamic speaker-mike can be used in-or-out of the modern, attractive case. With 9 volt battery and 2 "D" flashlight cells, tape and 2 reels. Size 10½ x 3¾ x 2½". Imported.
No. 31A332. Shpg. wt. 4 lbs. Super-Special Each.....\$14.88

MAGNETIC SOUND RECORDING TAPES



MINNESOTA MINING "SCOTCH" BRAND TAPES 3M TAPES WITH CELLULOSE ACETATE BACKING

Most widely used of all magnetic recording tapes. Smooth and flexible... provides flawless sound reproduction at lowest cost. Its flexibility allows perfect head conformity, produces excellent wide range response.

TYPE 111 GENERAL PURPOSE STANDARD TAPE—1/2 MIL ACETATE. Regarded as the performance standard of the recording industry. All-purpose, first-choice of most engineers and recording fans for flawless sound reproduction. On easy threading clear plastic reels. 10 1/2" reel is aluminum.

Stk. No.	Fact. No.	Reel	Lgth.	Wt.	Mfg. List Each	Quantity Price
11A551	111-1/4-150	3"	150'	2 oz.	\$0.70	\$0.47 12 @ Ea. \$0.42
11A552	111-1/4-300	4"	300'	4 oz.	1.35	.90 12 @ Ea. .81
11A554	111-1/4-600	5"	600'	6 oz.	2.25	1.50 12 @ Ea. 1.35
11A559	111-1/4-1200	7"	1200'	12 oz.	3.50	2.34 12 @ Ea. 2.10
11A776	111-1/4-2500-RO	10 1/2"	2500'	34 oz.	10.80	7.20 12 @ Ea. 6.48

TYPE 120 "HIGH OUTPUT"—STANDARD PLAY—1/2 MIL ACETATE. Produces 100% more output, results in greater dynamic range, freedom from distortion or signal peaks... brilliant sound reproduction. A must for hi-fi fans.

Stk. No.	Fact. No.	Reel	Length	wt.	Mfg. List Each	Quantity Price
11A556	120-1/4-600	5"	600'	6 oz.	\$2.25	\$1.50 12 @ Ea. \$1.35
11A562	120-1/4-1200	7"	1200'	12 oz.	3.50	2.34 12 @ Ea. 2.10

TYPE 190 EXTRA PLAY TAPE—1 MIL ACETATE. Gives 50% greater time than 1 1/2 mil tapes on same reel size. On clear plastic reels except 10 1/2" aluminum, NARTB type.

Stk. No.	Fact. No.	Reel	Length	wt.	Mfg. List Each	Quantity Price
11A567	190-1/4-900	5"	900'	6 oz.	\$3.50	\$2.34 12 @ Ea. \$2.10
11A568	190-1/4-1800	7"	1800'	12 oz.	5.50	3.67 12 @ Ea. 3.30
11A569	190-1/4-3600-RO	10 1/2"	3600'	34 oz.	12.80	8.53 12 @ Ea. 7.68

NEW 3M HEAVY DUTY "TENZAR" BACKED TAPES

Priced only slightly higher than acetate-backed tapes, yet provides 15 times more wearability. Perfect for educational and language-lab use, for all-weather use and long time storage. Has new black oxide coating. On clear plastic reels.

TYPE 175 "TENZAR"—STANDARD PLAY—1 1/2 MIL BASE.

Stk. No.	Fact. No.	Reel	Length	wt.	Mfg. List Each	Quantity Price
11A755	175-1/4-600	5"	600'	6 oz.	\$2.40	\$1.60 12 @ Ea. \$1.44
11A756	175-1/4-1200	7"	1200'	12 oz.	3.75	2.50 12 @ Ea. 2.25

SCOTCH LEADER AND TIMING TAPE AND SPLICING TAPE



PLASTIC LEADER AND TIMING TAPE

For splicing onto ends of recorded tapes to prevent repeated breakage; or between selections for identification and timing. White. Write-on type. No. 11A578. Type 24-1W. 1/4" x 100 Ft. Each... **60c** 12 @ Each... **54c**

SCOTCH TYPE 41 SPLICING TAPE

Specially compounded, non-oozing. 3/32" is applied lengthwise, others cross-wise, then trimmed.

No. 11A575.	3/8" x 66 Ft. on roll.	Each	57c	12 @ Each	52c
No. 11A576.	1/2" x 150' on dispenser.	Each	39c	12 @ Each	35c
No. 11A780.	1/2" x 66 Ft. on roll.	Each	76c	12 @ Each	69c
No. 11A618.	3/4" x 66 Ft. on roll.	Each	\$1.01	12 @ Each	.91c

CONDUCTIVE CUEING AND REVERSING TAPE. Electrically conductive metal foil on tough Mylar base with non-oozing adhesive back. Attaches directly to either side of recording tape without salicina. Re-usable. Mfg. List \$2.00. No. 11B729. Scotch Type 51-7/32S. 3/8" wide x 150 in. Roll. Net Each... **\$1.89** 12 @ Each... **\$1.70**

EMPTY CLEAR PLASTIC TAPE REELS IN SCOTCH BOXES

Stk. No.	Size	Capacity	Wt.	Each	Quantity Price
11A570	3"	200'	2 oz.	\$1.18	12 @ Ea. \$1.17
11A572	5"	600'	4 oz.	.48	12 @ Ea. .44
11A573	7"	1200'	5 oz.	.55	12 @ Ea. .50

PRST-7 SELF-THREADING REEL

11B728 7" 1200' 5 oz. **\$1.00 12 @ Ea. \$0.90**

TRUE-RUNNING 10 1/2" REELS WITH BOXES

No. 11A603. Aluminum NAB Type with Flanges.
No. 11A549. Plastic EIA Type (with 3 holes).
Choice Each... **\$3.00** 12 @ Ea... **\$2.70**

SCOTCH NO. 12 END-OF-REEL TAPE CLIPS

Clips securely to tape. Fits inside reel, won't distort.
No. 11A186. Package of 10. **35c**



NEW 3M "DYNARANGE" TAPE

Provides brilliant low noise recording at half the normal recording speeds—twice the time, yet total fidelity plus economy. The No. 1 choice of professionals and advanced non-professionals.

TYPE 201 DYNARANGE—1 1/2 MIL ACETATE

Stk. No.	Fact. No.	Reel	Lgth.	Wt.	Mfg. List Each	Quantity Price
11B496	201-1/4-600	5"	600'	6 oz.	\$2.80	\$1.87 12 @ Ea. \$1.68
11B501	201-1/4-1200	7"	1200'	12 oz.	4.40	2.93 12 @ Ea. 2.64
11B520	201-1/4-2500RO	10 1/2"	2500'	34 oz.	12.20	8.14 12 @ Ea. 7.32

TYPE 202 DYNARANGE—1 1/2 MIL POLYESTER

11B497	202-1/4-600	5"	600'	6 oz.	\$2.85	\$1.80 12 @ Ea. \$1.71
11B546	202-1/4-1200	7"	1200'	12 oz.	5.10	3.40 12 @ Ea. 3.06
11B579	202-1/4-2500RO	10 1/2"	2500'	34 oz.	13.90	9.27 12 @ Ea. 8.34

TYPE 203 DYNARANGE—1 MIL POLYESTER

11B499	203-1/4-900	5"	900'	6 oz.	\$4.25	\$2.83 12 @ Ea. \$2.55
11B597	203-1/4-1800	7"	1800'	12 oz.	7.35	4.90 12 @ Ea. 4.41
11B615	203-1/4-3600RO	10 1/2"	3600'	34 oz.	17.15	11.43 12 @ Ea. 10.29

3M POLYESTER (MYLAR) TAPES

Extra strong, extra long lasting Polyester base withstands extremes of temperatures and humidity. The preferred tape for long time storage, for private or business recordings to be played again and again.

TYPE 102—STANDARD PLAY—1 1/2 MIL MYLAR. The most rugged long-lasting recording tape base made. Oxide and recording characteristics are identical to type 111. On clear plastic reels. 10 1/2" reel is aluminum.

Stk. No.	Fact. No.	Reel	Length	wt.	Mfg. List Each	Quantity Price
11A870	102-1/4-600	5"	600'	6 oz.	\$2.65	\$1.77 12 @ Ea. \$1.59
11A871	102-1/4-1200	7"	1200'	12 oz.	4.25	2.83 12 @ Ea. 2.55
11A872	102-1/4-2500-RO	10 1/2"	2500'	34 oz.	11.35	7.57 12 @ Ea. 6.81

TYPE 150 EXTRA PLAY TAPE—1 MIL MYLAR. Same size reel plays 50% longer than 1 1/2 mil base tapes.

Stk. No.	Fact. No.	Reel	Length	wt.	Mfg. List Each	Quantity Price
11A544	150-1/4-900	5"	900'	6 oz.	\$3.60	\$2.40 12 @ Ea. \$2.16
11A545	150-1/4-1800	7"	1800'	12 oz.	6.20	4.13 12 @ Ea. 3.72

TYPE 200 DOUBLE PLAY—1/2 MIL TENSILIZED MYLAR. Specially conditioned tough Dupont Mylar extra thin base, allows twice the normal recording-playing time compared to 1 1/2 mil tapes. 200-48R is plastic EIA reel.

Stk. No.	Fact. No.	Reel	Length	wt.	Mfg. List Each	Quantity Price
11A778	200-1/4-1200	5"	1200'	6 oz.	\$5.45	\$3.83 12 @ Ea. \$3.27
11B594	200-1/4-2400	7"	2400'	12 oz.	9.50	6.33 12 @ Ea. 5.70
11B564	200-1/4-4800-RPS	10 1/2"	4800'	34 oz.	22.00	14.67 12 @ Ea. 13.20

TYPE 290 TRIPLE PLAY—1/2 MIL TENSILIZED MYLAR. Extra long play, with ultra-thin backing and coating. Gives up to three hours at 3 3/4 ips speed.

11B708	290-1/4-1800	5"	1800'	6 oz.	\$6.95	\$4.63 12 @ Ea. \$4.17
11A887	290-1/4-3600	7"	3600'	14 oz.	11.95	\$7.97 12 @ Ea. \$7.17

TYPE 282 "SANDWICH" TAPE—STANDARD PLAY—1 1/2 MIL MYLAR. Out-wears conventional tapes by up to 30 times. Micro-thin protective plastic shield over the recording surface entirely eliminates oxide rub-off, drastically reduces machine head wear. On clear plastic reels.

Stk. No.	Fact. No.	Reel	Length	wt.	Mfg. List Each	Quantity Price
11A873	282-1/4-600	5"	600'	6 oz.	\$3.10	\$2.07 12 @ Ea. \$1.86
11A874	282-1/4-1200	7"	1200'	12 oz.	4.95	3.30 12 @ Ea. 2.97

TYPE 151 SPECIAL LUBRICATED—1 MIL MYLAR. For repeater mechanisms and cartridge tape players. Used in car stereo systems. Has black oxide with black surface lubrication on backing surface only. 11A779. 151-16PR. 1/4" x 1600', 7" Reel. Ea... **\$6.68** 12, Ea... **\$6.01**

SCOTCH "LIVING LETTERS" TAPE 3-INCH REELS IN RE-USABLE PLASTIC MAILER-STORING UNIT

Tough plastic enclosure provides dust-free protection and safe mailing at lowest postage cost. Sized to meet postal regulations. Highest quality tape. Good for 100's of recordings. Average wt. 3 oz.

Stk. No.	Fact. No.	Base	Length	List Each	Quantity Price
11B623	111-1/4-150-LL	1/2 Mil Acetate	150'	\$0.90	0.60 12 @ Ea. 0.54
11B635	200-1/4-300-LL	1/2 Mil Polyester	300'	1.85	1.23 12 @ Ea. 1.11
11B637	290-1/4-600-LL	1/2 Mil Polyester	600'	2.95	1.97 12 @ Ea. 1.77

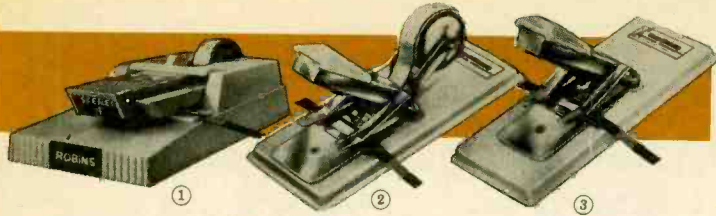
SCOTCH RECORDING CARTRIDGES



Self-storing plastic cartridge loaded with silicone lubricated tensilized polyester backed tape having high potency oxide. Type 271 is used on the following cartridge or cassette type tape recorders; Wollensak 4100, Norelco Cordless 150, Concord F100, Panasonic RQ3100, Standard Radio SR100, Mercury 8000 and GE M8300. Type 270 is used on Wollensak M automatic and 7000 series. Type 8000 is for RCA cartridge recorders. Playing time given is monaural.

Stk. No.	Fact. No.	Description	Each	12 @ Ea.
11A563	271	1 1/2" 1 Hr. Tape	\$3.56	\$3.16
11B660	270	1 1/2" 90 Min. Tape	4.28	3.90
11B619	8000	1 1/4" 1 Mil-560'	3.00	2.70

ROBINS TAPE RECORDING ACCESSORIES



GIBSON GIRL "STEREO 4" TAPE SPLICERS

Rapid, accurate splicing of 4 track, 2 track and single track tapes. Makes diagonal cut. "Gibson Girl" trim prevents splicing tape adhesive from contacting critical parts of recorder. All units feature blade centering adjustment and replaceable cutter for lifetime accuracy.

① **TS-8D STEREO 4 DELUXE TAPE SPLICER**
"See thru" windows indicate "Cut" and "Trim" positions. Tape guide and fingers secure tape. Easy threading, integral tape dispenser with 100" roll of 1/2" splicing tape. Made of super-strong Implex. With instructions. Wt. 1 lb.
No. 11A704. Mfg. List \$12.75. Net Each **\$7.65**

② **TS-4S STEREO 4 STANDARD TAPE SPLICER**
Same features as TS-8D except no "See-thru" windows. Made of plated steel and plastic. Easy threading, integral tape dispenser has roll of 3/8"x100" splicing tape. Wt. 12 oz.
No. 11A638. Mfg. List \$9.50. Net Each **\$5.70**

③ **TS-4J STEREO 4 JUNIOR TAPE SPLICER**
Same as TS-4S without tape dispenser and splicing tape. Uses 3/8" splicing tape. Wt. 8 oz.
No. 11A407. Mfg. List \$7.25. Net Each **\$4.35**

REPLACEMENT CUTTER KITS FOR ROBINS SPLICERS
No. 11B158. Type RK-8. For TS-8D. Mfg. List \$1.50. Net Each **90c**
No. 11B192. Type RK-3. For TS-4S, TS-4J. Mfg. List \$1.50. Net Each **90c**



④ **TK-9 TAPE EDITING WORKSHOP**. Edit, splice, repair and combine tapes easily. Workshop consists of two tape winders and "Stereo 4" Deluxe Tape Splicer on sturdy base. Handles all reels up to 7". Integral tape dispenser, 1/2"x100" tape. Size 7x14x5 1/4" H. Wt. 1 lb.
No. 11A987. Mfg. List \$24.00. Net Each **\$14.40**

⑤ **TS-6 "CUT-N-SPLICE" TAPE SPLICER**. Dual control knob permits cutting of tapes at 40° or 90°. 25 self-stick, easy to apply patches in tray built into the splicer base. Wt. 5 oz.
No. 11A988. Mfg. List \$5.00. Net Each **\$3.00**

⑥ **TS-5 "CUT-N-SPLICE" TAPE SPLICING BLOCK**. Metal tape guide. 25 self-stick patches. Patches and hand-held blade are in sliding tray built into base of the block. Wt. 5 oz.
No. 11A989. Mfg. List \$3.00. Net Each **\$1.80**

ROBINS MYLAR SPLICING TAPE
Special formula Mylar. Tackiness, thickness, strength and cold-flow controlled for perfect, permanent splices. Use with "Stereo 4" splicers and Tape Editing Workshop above.

Stk. No.	Mfg. No.	Width	Length	Net Each
11A990	TST-235	1/4"	x 300"	59c
11A991	TST-376	3/8"	x 275"	59c
11A992	TST-501	1/2"	x 250"	59c
11A993	TST-750	3/4"	x 150"	59c

SELF-STICK PATCHES. Use with TS-5, TS-6 Splicers
No. 11A994. TST-233. Package of 25 For **59c**



MAGNETIC BULK TAPE ERASERS. Better erasure without using your recorder. Reduces tape background noise. Takes only seconds to erase entire reel.

⑦ **ME-99**. Erasure 3 to 6 db below normal erase head level. Handles reels up to 10 1/2" dia. x 1/2" wide. Size 3 3/4 x 5 1/4 x 6 3/8". 110 V. 60 cy. AC. UL listed. Wt. 8 1/2 lbs.
No. 11B409. Net Each. Mfg. List \$46.00. **\$27.60**

⑧ **ME-77**. Erasure 2 to 4 db below erase head level. For reels up to 7" dia. x 1/4". Size 2 3/8 x 3 3/4 x 6 1/4". 110 V. 60 cy. AC. Wt. 5 lbs.
No. 11C126. Mfg. List \$26.50. Net Each **\$15.90**

⑨ **ME-66**. Hand-held bulk tape eraser. Erases tapes by moving unit over each side of reel. For 1/4" tapes, any size reel. Size 4 x 2 1/2 x 4 1/4". 110 V. 60 cy. AC. 4 amps. Wt. 4 lbs.
No. 11A996. Net Each. Mfg. List \$19.95. **\$12.00**

⑩ **ME-55**. Low cast hand held eraser for 1/4" tapes. Size 4 1/2 x 2 3/8 x 2". 110 V. 60 cy. AC. 4 amps. Wt. 4 lbs.
No. 11A997. Net Each. Mfg. List \$16.66. **\$9.99**

⑪ **HEAD DEMAGNETIZERS**. A "must" for recorder owners. Removes residual magnetism that accumulates in all recorder heads causing excessive noise and hiss during recording and playback. Easy to use. For 110 V. 60 cy. AC.
HD-6 Standard Model. U/L listed. 4 5/8 x 1 1/2" dia.
No. 11A794. Wt. 1 lb. Net Each **\$6.00**

HD-3 Economy Model. 3 1/2 x 1 1/2" dia.
No. 11A998. Wt. 8 oz. Net Each **\$3.60**

⑫ **HEAD CLEANING TAPE**. Chemically treated. Just run through recorder to clean recording heads, tape guides, etc.
No. 11B41. HC-5. 5" Reel. Net Each **\$1.49**
No. 11B404. THC-3. 3" Reel. Net Each **99c**

⑬ **ROBINS TAPE ACCESSORY AND "KARE" KITS**
TK-8DLX DELUXE TAPE ACCESSORY KIT. Contains TS-8D Deluxe Splicer, 1/2" Splicing Tape, Tape Threader, Head Cleaner, Head and Guide Lubricant, Tape Jockey Cloth, Tape Clips, Title Labels, Reel Holders and Tape Editing and Splicing Guide Book. Wt. 2 lbs.
No. 11B153. Mfg. List \$16.75. Net Each **\$10.05**

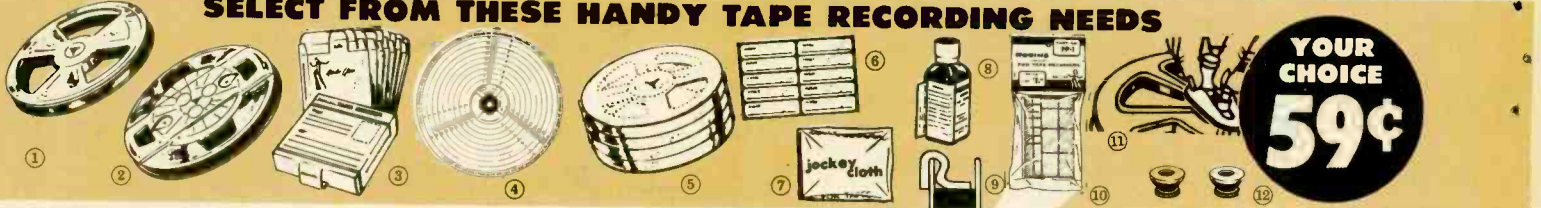
TK-2 TAPE KARE KIT. Head Cleaner and Tape Jockey Cloth.
No. 11B406. Wt. 6 oz. Mfg. List \$1.90. Net Each **\$1.14**

TK-6 TAPE HEAD CLEANER AND LUBE KIT. 2 oz. bottles Head Cleaner and Head and Guide Lubricant.
No. 11B154. Wt. 6 oz. Mfg. List \$1.90. Net Each **\$1.14**

TK-7 CHEMICAL TAPE KARE KIT. 2 oz. bottles Head Cleaner, Head and Guide Lubricant, Tape and Phono Drive Oil, Non-Slip for Tape and Phono Drives and 50 Swabs for Cleaning and Oiling. Wt. 1 1/2 lbs.
No. 11C124. Mfg. List \$3.50. Net Each **\$2.10**

TK-5 TAPE STROBE AND LIGHT KIT. (Not Illus.) Checks tape speed, flutter and wow at 15, 7 1/2, 3 3/4 and 1 7/8 inch speeds. Consists of Mylar Strobe Tape and 110 V. AC neon glow lamp.
No. 11B408. Mfg. List \$2.25. Net Each **\$1.35**

SELECT FROM THESE HANDY TAPE RECORDING NEEDS



① **EMPTY TAPE REELS OF EVERY SIZE**. Perfectly molded of clear plastic. Standard hub. Average wt. 8 oz.

Stk. No.	Size	Net Price	Stk. No.	Size	Net Price
11A973	2"	6 For 59c	11A977	4"	4 For 59c
11A974	2 1/2"	6 For 59c	11A978	5"	2 For 59c
11A975	3"	6 For 59c	11A979	7"	2 For 59c
11A976	3 1/4"	4 For 59c			

② **LOW TORQUE 7" REEL**. Larger hub reduces the effect of variable pull on tape caused by recorder take-up drive. Reduces wow and flutter, winds tape evenly. Capacity 1600 ft. 1/2 mil tape, 1200 ft. 1 mil, 800 ft. 1 1/2 mil.
No. 11A980. With Box. **59c**

③ **3-INCH TAPE MAILING BOXES**. For tape correspondence
No. 11A981. 12 Boxes For **59c**

④ **TAPE LOG DISCS**. Easy indexing of 7" tapes. Space for titles, tape speed, reel numbers, date, etc.
No. 11A982. Pkg. of 15 For **59c**

⑤ **"REEL-NEET" PLASTIC REEL HOLDERS**. Holds 7" tape reels in upright position. Prevents warping. Two Tape Log Discs included.
No. 11A983. Pkg. of 2 For **59c**

⑥ **TITLE LABELS**. Write or type. 2x1 1/2", self-sticking.
No. 11A984. Pkg. of 150 For **59c**

⑦ **TAPE "JOCKEY CLOTH"**. Cleans and lubricates tapes. Silicone impregnated. Washable and reusable.
No. 11A769. Pkg. of 3 For **59c**

⑧ **HEAD CLEANER**. Removes accumulated oxides from recorder.
No. 11A768. 2 Oz. Bottle. Each **59c**

⑨ **TAPE CLIPS**. Keeps reels of tape from unwinding. Reusable.
No. 11A985. Pkg. of 75 For **59c**

⑩ **REPLACEMENT TAPE RECORDER PRESSURE PADS**. Pre-cut and U-cut felt pads to fit all recorders.
No. 11B75. Non-Adhesive. Large Assortment **59c**
No. 11A986. Self-Stick. Large Assortment **59c**

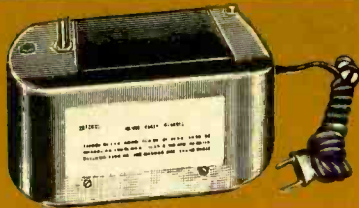
⑪ **FAST TAPE THREADER**. Starts tape on reel easily.
No. 11A587. Net Each **59c**

⑫ **REEL HOLDERS**. Holds reel on spindle. Prevents wobble.
No. 17A737. Per Pair **59c**

YOUR CHOICE
59c

BULK TAPE ERASER

\$16.95



IMPORT SPECIAL AT BIG \$\$\$ SAVINGS

Professional quality! Erases a complete reel of tape quickly, easily and with greatest efficiency without rewinding. Simply place tape on reel on spindle of Eraser—takes just seconds. Permits improved, distortion free recordings by "quieting" tapes 3 to 6 db. Far better than erasing on the average recorder. Accommodates tape reel from 3" to 10 1/2". Size of unit 7 1/2 x 4 3/8 x 3 5/8" H. Operates on 117 V. 60 cy. AC. Also will demagnetize screwdrivers and other tools. Shpg. wt. 8 1/2 lbs. **\$16.95**
No. 17A628. Special Each.



\$3.19

COMPARE AT OVER \$6.00

Extra fast action gives you perfect professional results

RECORDING TAPE SPLICER

Produces speedy high quality splices with minimum effort. Has convenient spring positioned clips and guides to hold standard 1/4" recording tape in perfect alignment. Two position cutter first trims ends of tape diagonally, then after applying splice, makes slightly curved edge cut removing all excess material without extra knife or scissors operations. On molded plastic base, 2x3 1/8". Requires 1/2" splicing tape for best results. Shpg. wt. 8 oz. **\$3.19**
No. 11C610. Special Import Value.



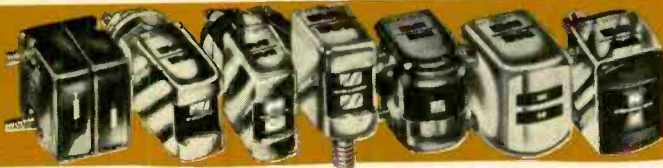
NEW LOW PRICE

\$3.95

SAVE AT LEAST HALF!

SAVE! TAPE HEAD DEMAGNETIZER
EASY-TO-USE AID FOR BETTER TAPE RECORDING

Quickly rids recorder of one common cause of high noise . . . the accumulation of permanent magnetism in the recording, erase and playback heads. Simple to operate, with instructions. For 115 V. AC. **\$3.95**
No. 17A415. Import Special.



ROBINS MICHIGAN MAGNETICS TAPE RECORDER HEADS KEEP YOUR RECORDER IN TOP CONDITION

Precision made, for replacement and stereo-conversion in hundreds of tape recorder models. Original equipment in approx. 90% of all U.S.A. made recorders; many are improved models of the original heads.

To Order, specify make and model of recorder and whether record, playback or erase head is needed; or by using the **FREE ROBINS HEAD TAPE REPLACEMENT GUIDE**. Ask for it. No. 16A371. 14 pages, illustrated. Cross-reference and instructions.

Stk. No.	Robins No.	Description	Net Each
11A1011	HRE-1	1/2 Track Mono Record, Playback & Erase	\$13.20
11A1012	2FM20-500	1/2 Track Mono Record, Playback & Erase	13.20
11A1013	3F20-301	1/2 Track Stereo Record, Playback	19.20
11A1014	3F20-305	1/2 Track Stereo Record, Playback	19.20
11A1015	3FM20-304	1/2 Track Mono Record, Playback	8.70
11A1016	3FM20-308	1/2 Track Mono Record, Playback	8.70
11A1017	3FM20-502	1/2 Track Mono Record, Playback & Erase	23.10
11A1018	3L20-301	1/2 Track Mono Record, Playback	6.80
11A1019	5AV17	1/4 Track Stereo Record, Playback & Erase	21.30
11A1020	5P17	1/4 Track Stereo Record, Playback	15.00
11A1021	5QT17	1/4 Track Stereo Record, Playback	10.50
11A1022	5QT17-305	1/4 Track Stereo Record, Playback	14.40
11A1023	5S1	1/2 Track Mono Erase	4.80
11A1024	5S1-303	1/2 Track Mono Erase	4.80
11A1025	5S51	1/2 Track Stereo Erase	8.70
11A1026	6AV17-200	1/4 Track Stereo Record, Playback & Erase	15.90
11A1027	6AV17-203	1/4 Track Stereo Record, Playback & Erase	15.90
11A1028	7B17	1/2 Track Stereo Record, Playback	9.90
11A1029	7EM12A	1/2 Track Mono Erase	5.40
11A1030	7H17	1/2 Track Mono Record, Playback	6.80
11A1031	7H40	1/2 Track Mono Record, Playback	5.70
11A1032	7HV17-302	1/2 Track Mono Record, Playback & Erase	8.70
11A1033	7HV40-301	1/2 Track Mono Record, Playback & Erase	8.70
11A1034	7L17	1/2 Track Mono Record, Playback	6.80
11A1035	7L17-308	1/2 Track Mono Record, Playback	6.80
11A1036	9QTE3	1/2 Track Stereo Erase	6.60
11A1037	10H25	1/2 Track Mono Record, Playback	6.80
11A1038	10L17-304	1/2 Track Mono Record, Playback	6.60
11A1039	40EM12A	1/2 Track Mono Erase	5.40
11A1040	40EQ3-301	1/2 Track Stereo Erase	5.70
11A1041	50HE6-201	1/2 Track Mono Erase	4.80

TAPE RECORDING ACCESSORIES



TELEPHONE PICKUP COILS FOR RECORDING

BIG PRICE REDUCTION!

For Recording Conversations, Etc.
Requires No Wire Tapping. No Special Circuits
Makes possible recording phone conversations or loud speaking telephone when used with a standard recorder or mike amplifier. Connects in place of regular microphone. Highly sensitive and efficient magnetic induction coil picks up both sides of telephone conversations. Installs by slipping under base of desk phone or by laying on top of ringer box of wall phones. Size 4 1/2" L, 1 1/2" W, only 1/4" thick. Shielded cable 56" long. **\$1.95**
No. 17B257. Net Each.

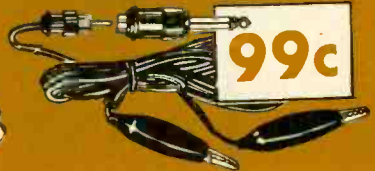
WITH JIFFY RUBBER SUCTION CUP
As above except conveniently attaches with suction cup to rear of any desk phone or on side of ringer box. Only 1" max. dia., 2" long with 5 ft. shielded cable **\$1.69**
No. 17A811. Special Each.



HANDY ADAPTOR PLUGS



TAPE RECORDER PATCH CORD



- ① RCA Pin Plug to 1/4" Phone Plug. Fully shielded. Highest quality. No. 17B879. 10 Lots, **59c** Special Each **69c**
- ② RCA Pin Plug to Miniature Phone Plug. Adapts audio cords (like 17A321 at right) for miniature battery type recorders. Imported. No. 17A334. 10 Lots, **49c** Special Each **59c**
- ③ RCA Pin Plug Junction. Connects two cables together quick and easy. No. 17A216. **39c** Special Each

BIG VALUE

For Recording Direct from Radio, Phono or TV. Flexible 72" two conductor cable with attached insulated alligator clips and RCA pin plug. Perfect for direct electrical connection from radio, phono or TV speaker voice coil to input of recorder. Assures much better results than from the usual sound coupling between speaker and microphone. Comes with pin plug to phone plug adaptor to fit any recorder. No. 17A321. Special Each **99c**

INFORMATIVE BOOKS FOR THE TAPE RECORDIST

- How To Get The Most Out of Your Tape Recorder.** 128 pages, illustrated. Includes tips on how to select and use a portable recorder for business and pleasure, learning with your recorder, taping shorthand, adding sound to 8 MM film and slides, sound effects, joining or forming a tape club. No. 16C370. TE-129. Net Each **81c**
- 16B367 TE-24 Editing & Splicing, 24 Pages. . . **24c**
- 16B368 TE-96 Troubleshooting, Remedies, 96 Pages. . . **59c**
- 16C369 TE-127 Taping Sound Around You, 128 Pages. . . **81c**

TAPE STORAGE STEEL CHEST AND REEL CANS

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Title and Artist	Mfg.	Tape No.	List	Net
The Music Man, Original Broadway Cast	Cap.-7	ZO-990	\$8.98	\$7.16
My Fair Lady, Original Broadway Cast	Col.-4	OQ310	9.95	7.96
Around The World in 80 Days, Soundtrack	Decca-4	9046	7.95	6.36
South Pacific, Motion Picture Soundtrack	RCA-16	FTO-5001	8.95	7.16
Oklahoma, Motion Picture Soundtrack	Cap.-2	ZW-595	7.98	6.36
Exodus and Other Great Themes, Mantovani	London-9	70042	6.95	5.56
West Side Story, Motion Picture Soundtrack	Col.-24	OQ417	9.95	7.96
How The West Was Won, Soundtrack	MGM-8	4201	7.95	6.36
Pink Panther, Henry Mancini	RCA-54	FTP-1236	6.95	5.56
Hello Dolly, Original Broadway Cast	RCA-55	FTO-5028	8.95	7.16
Lawrence of Arabia, Soundtrack	Col-Pix-1	603	7.95	6.36
Mary Poppins, Motion Picture Soundtrack	Buena-Vista-1	4026	7.95	6.36
Goldfinger, Motion Picture Soundtrack	Un. Art.-1	5117	7.95	6.36
The Sound of Music, Soundtrack	RCA-71	FTO-5033	8.95	7.16
Your Cheatin' Heart, Hank Williams, Motion Picture Soundtrack	MGM-9	4260	7.95	6.36
That Darn Cat, Motion Picture Soundtrack	Buena Vista-2	*3334	5.95	4.76
Dr. Zhivago, Motion Picture Soundtrack	MGM-10	4343	7.95	6.36
The Singing Nun, Motion Picture Soundtrack	MGM-11	4345	7.95	6.36
Zorba The Greek, Motion Picture Soundtrack	Fox-1	4167	7.95	6.36
Thunderball, Motion Picture Soundtrack	Un. Art.-9	5132	7.95	6.36
Themes from James Bond Thrillers	London-40	70091	6.95	5.56
Yellow Rolls Royce, Soundtrack	MGM-14	4292	7.95	6.36
From Russia With Love, Soundtrack	Un.-Art.-10	5114	7.95	6.36
Dr. No, Motion Picture Soundtrack	Un.-Art.-11	5108	7.95	6.36
The Ten Commandments, Orig. Score/ Bernstein	Un.-Art.-12	6495	7.95	6.36
The Fantasticks, Original Cast	MGM-12	3872	7.95	6.36

CLASSICAL

Tchaikovsky Swan Lake, Complete, Ansermet (Twin-Pak)	London-14	80028	11.95	9.56
Rhapsody In Blue, Fiedler-Boston Orch.	RCA-13	FTC-2004	7.95	6.36
Tchaikovsky: Nutcracker (complete) Ansermet and Orchestra	London-13	80027	11.95	9.56
My Favorite Chopin, Van Cliburn	RCA-26	FTC-2091	7.95	6.36
Beethoven: Syms. 1 & 9, Reiner, Chicago Sym.	RCA-39	FTC-3005	9.95	7.96
Grand Canyon Suite, Stanley Black, London Festival Orchestra	London-31	75002	7.95	6.36
1812 Overture—Ravel's Bolero, Morton Gould	RCA-66	FTC-2005	7.95	6.36
Beethoven: Sym. 2, 6, Berlin Phil. (H. VonKarajan)	D.G.G.-1	8805	8.95	7.16
Verdi: Favorite Arias, Grace Bumbry	D.G.G.-2	8987	7.95	6.36

BEAUTIFUL MOOD MUSIC

Gems Forever, Mantovani	London-2	70001	6.95	5.56
Film Encores, Vol. 1 & 2, Mantovani (Twin-Pak)	London-4	70003	11.95	9.56
Songs To Remember, Mantovani	London-7	70034	6.95	5.56
Dream Time, Wayne King	Decca-3	8663	7.95	6.36
Music For Lovers Only, Jackie Gleason Orch.	Cap.-1	ZW-352	7.98	6.36
Malaguena, Percy Faith Orchestra	Col. 9	QK334	7.95	6.36
Strauss Waltzes, Mantovani	London-3	70002	6.95	5.56
Star Dust, Fiedler, Boston Pops	RCA-51	FTC-2137	7.95	6.36
Charade, Henry Mancini	RCA-57	FTP-1221	6.95	5.56
Incomparable Mantovani	London-38	70088	6.95	5.56
The Sweetest Music This Side Of Heaven, Guy Lombardo	Decca-13	4328	7.95	6.36
Dear Heart and Other Songs About Love, Henry Mancini	RCA-69	FTP-1292	6.95	5.56
Hawaiian Paradise, Leo Addeo	Camden-9	CTR-853	4.95	3.96
The Concert Sound of Henry Mancini	RCA-77	FTP-1271	6.95	5.56
The Waltzes of Irving Berlin, Melachrino	RCA-78	FTP-1147	6.95	5.56
Mantovani Magic	London-42	70107	6.95	5.56
Film Hits For Everyone, Mantovani	London-44	*70113	5.95	4.76
A Taste Of Honey, Living Brass	Camden-10	CTR-949	4.95	3.96
The Second Time Around, Henry Mancini	Camden-11	CTR-928	4.95	3.96
Mexican Pearls, Billy Vaughn	Dot-1	25628	7.95	6.36
Moon Over Naples, Billy Vaughn	Dot-2	25654	7.95	6.36
Today's Great Hits, Lawrence Welk	Dot-3	25663	7.95	6.36
Pearly Shells, Billy Vaughn	Dot-4	25605	7.95	6.36

MUSIC FOR DANCING

Fabulous Thirties, David Rose (Twin-Pak)	Kapp-4	45004	11.95	9.56
Pick A Polka, Lawrence Welk	Coral-8	57067	7.95	6.36
Discotheque Dance, Dance, Enoch Light	Command-18	873	7.95	6.36
Songs Everybody Knows, Lawrence Welk	Coral-11	57439	7.95	6.36
Music For Dancing, Living Strings	Camden-7	CTR-835	4.95	3.96
South Of The Border, Tijuana Brass	A&M-1	108	6.95	5.56
Whipped Cream & Other Delights, Tijuana Brass	A&M-2	110	6.95	5.56
Going Places, Tijuana Brass	A&M-3	112	6.95	5.56
What Now My Love, Tijuana Brass	A&M-4	114	7.95	6.36
Ellington '65	Reprise-10	RS6122	7.95	6.36
A Go-Go, The Ventures	Dolton-2	8037	7.95	6.36
Where The Action Is, The Ventures	Dolton-3	8040	7.95	6.36
The Paul Butterfield Blues Band	Elektra-3	7294	7.95	6.36
The Batman Theme, The Marketts	War. Bros.-8	*1642	5.95	4.76

INSTRUMENTAL GROUPS

Title and Artist	Mfg.	Tape No.	List	Net
Mister Guitar, Chet Atkins	RCA-3	FTP-1002	\$6.95	\$5.56
Pete Fountain's New Orleans	Coral-2	57282	7.95	6.36
Guitar Country, Chet Atkins	RCA-61	FTP-1230	6.95	5.56
Guitar Genius, Chet Atkins	Camden-2	CTR-753	4.95	3.96
The Best Of Al Hirt	RCA-68	FTP-1293	6.95	5.56
My Favorite Guitars, Chet Atkins	RCA-73	FTP-1299	6.95	5.56
Standing Room Only, Pete Fountain	Coral-12	57474	7.95	6.36
Licorice Stick, Pete Fountain	Coral-13	57460	7.95	6.36
They're Playing Our Song, Al Hirt	RCA-79	FTP-1323	6.95	5.56
The "Pops" Goes Country, Chet Atkins				
Arthur Fiedler, Boston Pops	RCA-82	FTC-2220	7.95	6.36

ORGAN AND PIANO

Honky-Tonk Piano, Tiny Little	Coral-1	54049	7.95	6.36
Honky Tonk Piano, Del Wood	Camden-3	CTR-684	4.95	3.96
Magic Touch Of Floyd Cramer	Camden-4	CTR-874	4.95	3.96
I Wish You Love, Carmen Cavallaro	Decca-15	4566	7.95	6.36
Fly Me To The Moon, Earl Grant	Decca-16	4454	7.95	6.36
Only The Big Ones, Floyd Cramer	RCA-81	FTP-1327	6.95	5.56
The Popular Previn, Andre Previn	Col.-50	CQ719	7.95	6.36

POPULAR VOCALISTS

Belafonte At Carnegie Hall	RCA-19	FTO-6000	12.95	10.36
The Barbra Streisand Album	Col. 38	CQ-593	7.95	6.36
Good N'Country, Jim Reeves	Camden-1	CTR-784	4.95	3.96
The Return of Roger Miller, King of the Road, Etc.	Merc.-3	67061	7.95	6.36
Wondrous World Of Sonny & Cher	Atco-1	*1410	5.95	4.76
Crying Time, Ray Charles	ABC-1	*852	5.95	4.76
Go Latin, Caterina Valente	London-43	*70108	5.95	4.76
The Shadow Of Your Smile, Johnny Mathis	Merc.-5	*61073	5.95	4.76
The New Scene, Sarah Vaughn	Merc.-6	*61079	5.95	4.76
The Nat King Cole Story	Cap.-26	*Y3W-1613	14.98	11.98
The Best Of Buck Owens	Cap.-28	Y2T-2227	9.98	7.98
Judy Garland & Liza Minnelli	Cap.-29	Y2W-2295	9.98	7.98
Living A Lie/Spanish Eyes, Al Martino	Cap.-30	Y2T-2493	9.98	7.98
My World, Eddy Arnold	RCA-80	FTP-1325	6.95	5.56
Strangers In The Night, Frank Sinatra	Reprise-1	FS1017	7.95	6.36
September Of My Years, Frank Sinatra	Reprise-2	FS1014	7.95	6.36
A Man And His Music, F. Sinatra (Twin-Pak)	Reprise-3	W2S-1016	12.95	10.36
Trini Lopez At PJ's	Reprise-4	S96093	7.95	6.36
Everybody Loves Somebody, Dean Martin	Reprise-5	RS6130	7.95	6.36
Dean Martin Hits Again	Reprise-6	RS6146	7.95	6.36
I'm The One Who Loves You, Dean Martin	Reprise-7	RS6170	7.95	6.36
Houston, Dean Martin	Reprise-8	RS6181	7.95	6.36
What Kind Of Fool Am I, Sammy Davis, Jr.	Reprise-9	S96051	7.95	6.36
If I Ruled The World, Sammy Davis, Jr.	Reprise-11	RS6159	7.95	6.36
Golden Hits Vol. 2, Jan & Dean	Liberty-13	7417	7.95	6.36
Blood, Sweat & Tears, Johnny Cash	Col.-49	CQ565	7.95	6.36
Jealous Heart, Connie Francis	MGM-15	*4355	5.95	4.76
Roger Miller's Golden Hits	Smash-1	*67073	5.95	4.76
Downtown, Petula Clark	War.-Bros.-5	*1590	5.95	4.76
My Love, Petula Clark	War.-Bros.-7	*1630	5.95	4.76

DEMONSTRATION & OTHER FAVORITES

Sousa Marches, Band of Grenadier Guards	London-5	70016	6.95	5.56
Railroad Sounds	Aud-Fdl.-1	1843	8.95	7.16
A Journey Into Stereo, Exciting Sounds	London-1	70000	6.95	5.56
London Popular Sampler	London-20	66000	3.95	3.19
London Classical Sampler	London-21	66001	4.95	3.96
Popular Sampler, 10 Selections, 7 Labels	UST Sampler-1	401	3.95	3.19
Classical Sampler, 10 Excerpts, 6 Labels	UST Sampler-2	402	3.95	3.19
Jazz Sampler, 10 Selections, 7 Labels	UST Sampler-3	403	3.95	3.19
Sounds Sampler, 10 Selections, 7 Labels	UST Sampler-4	404	3.95	3.19
Sound Effects In Stereo	Aud-Fdl.-4	7006	8.95	7.16
Moods Sampler, 26 Selections (Twin-Pak)	UST Sampler-7	407	7.95	6.36
The United States Marine Band	RCA-48	FTP-1190	6.95	5.56
Dance Beat, 23 Selections, 14 Tempos (Twin-Pak)	UST Sampler-6	405	7.95	6.36
Moods Two, 26 Selections, 15 Artists and orchestras (Twin-Pak)	UST Sampler-8	408	7.95	6.36
Victory At Sea, Robert Russell Bennett	RCA-11	FTC-2000	7.95	6.36
Railroad Sounds (A Farewell To Steam)	Hi-Fi-3	901	7.95	6.36
Play It Straight, The Smothers Bros.	Merc.-4	*61064	5.95	4.76

VOCAL GROUPS

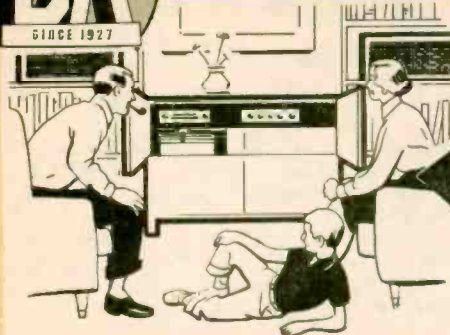
Presenting: The New Christy Minstrels	Col.-30	CQ514	7.95	6.36
In The Wind, Peter, Paul & Mary	War.-Bros.-3	1507	7.95	6.36
The Lord's Prayer Vol. 1 & 2, Mormon Choir	Col.-48	M2Q579	11.95	9.56
A Choral Spectacular, N. Luboff Choir	RCA-75	FTP-1136	6.95	5.56
Where Did Our Love Go, The Supremes	Motown-1	*621	5.95	4.76
More Hits By The Supremes	Motown-2	*627	5.95	4.76
Out Of Our Heads, Rolling Stones	London-41	*70098	5.95	4.76
The Animals	MGM-13	4264	7.95	6.36
See What Tomorrow Brings, Peter, Paul & Mary	War.-Bros.-6	1615	7.95	6.36
Meet The Beatles!	Cap.-27	*Z4-2047	4.98	3.98



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Matchless performance and styling at a price only B-A can offer.

B-A custom 30S-6 . . . all new stereo high fidelity amplifier. Features engineering design and quality of construction worthy of use in the finest stereophonic high fidelity music system.

Versatility of controls assure matchless performance from all program sources, whether records, tape or radio. Preamplifier properly equalized for all magnetic cartridges. Phono inputs (2) provided for magnetic, crystal or ceramic cartridges. Beautiful gold anodized extruded panel with matching gold with brown inset knobs add elegance found only in the highest price amplifiers. Provides 30 watts of sustained stereophonic power with 16 watts of music power from each channel.

Specifications: Sustained Power Output . . . 30 watts IHF (16 watts each channel). Music Power: 15 watts each channel. Frequency response: ± 1 db 20 to 20,000 cps at one watt. Power bandwidth: 45 to 20,000 cps at half power. Harmonic distortion: .5 (1000 cps). Intermodulation distortion: .2% at 10 watts. Damping factor 4.5. Controls (7): 1-Power Off-On, 2-Mode Switch, 3-Rotary Selector Switch, 4-Balance, 5-Loudness Volume Control, 6-Bass, 7-Treble. Input sensitivity: aux., tuner 0.25 volt, mag. phono .003 volt; crystal phono .25 volt for rated output (1000 cps). Outputs: 4, 8, 16 ohms and high impedance for tape recorder. Hum and noise 72 db tuner input and 52 db phono input below rated output.

Tubes (9) 4-6EU7, 4-EL84/6B05, EZ81/6CA4. Fused line with 2 AC outlets for 110-120 V. 60 cps. AC. 13 1/2" W. x 4 3/4" H. x 9" D. Shpg. wt. 17 lbs. Less Cover. No. 33B41. Model BA30S-6. Net Ea. . . . \$64.95
Oiled Walnut Wood Cabinet for above (as illus.). No. 33B43. Each. . . . \$12.95

- Brushed Gold Anodized Extruded Panel
 - Beautifully Designed Cover
- FREQUENCY RESPONSE 20-20,000 CPS**

CHECK FEATURES AGAINST AMPLIFIERS COSTING UP TO \$100.00
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POWERFUL PUSH-PULL EL84/6B05 IN OUTPUT
12 1/2 WATTS PER CHANNEL

PRECISION MATCHED GANG LOUDNESS BASS AND TREBLE CONTROLS

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MODEL B-A 44S-6

**HIGHEST QUALITY
AT LOWEST COST**

Beautiful design and quality of construction far superior to amplifiers selling for considerably more. B-A's purchasing "know-how" brings you this exclusive amplifier with all the controls and basic requirements to provide the finest music reproduction regardless of program source. Not only outstanding in appearance but with specifications second to none. Read and compare.

Specifications: Power output 44 watts stereo, 22 watts per channel. Frequency response: ± 0.5 db, 20-20,000 cps at 1 watt. Harmonic distortion: .6% at 1000 cps, 18 watts. Intermodulation: 2% at 18 watts. Damping factor: 8. Controls (11): (1) Selector, Tape, Phono, Tuner, Aux. 1, Aux. 2; (2) Balance; (3) Loudness; (4) Bass; (5) Treble; (6) Stereo-Mono Switch; (7) Filter Switch; (8) Contour Switch; (9) Off-On Switch; (10) Speakers off-on, (11) Phones (stereo).

Input sensitivity: Tape 0.003 volt, Mag. phono 0.002 volt, Tuner, Aux.-1 and Aux.-2 each 0.15 volt. Outputs 4, 8, 16 ohms and high-impedance for tape recorder—stereo phone jack on front panel. Hum and noise: tuner input —75 db and phono input —50 db below rated output. Tubes (9) 5-12AX7, 4-6BQ5, 4 silicon rectifiers. Size 13 1/2" W. x 4 3/4" H. x 10" D. Shpg. wt. 20 lbs. Beautiful gold anodized extruded panel with matching knobs.

No. 33B46. Less Cover.

Net Each..... **\$89.95**

Oiled Walnut Wood Cabinet for above (as illus.).

No. 33B48. Net Each..... **\$14.95**

FREQUENCY RESPONSE 20-20,000 CPS

- Beautiful Gold Extruded Panel
- Matching Gold Knobs
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WITH OTHERS
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B-A CUSTOM AM-FM STEREO MULTIPLEX TUNER

MODEL B-A 400S-6

**WITH MULTIPLEX
AND BUILT-IN
ANTENNA**

FM Freq. Range
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High Sensitivity
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Rich elegant styling, magnificent performance are blended into this superb quality tuner to provide optimum listening pleasure for even the most critical ear.

Carefully designed and brilliantly engineered for outstanding range, sensitivity and drift-free operation. Offers many features found only in much higher priced tuners . . . another perfect example of B-A purchasing "know-how" for providing greater value for the dollar.

Smooth, effortless flywheel tuning, "Magic Bar" tuning indicator for precise, visual "on station" tuning, AFC for lock-in tuning on FM stations . . . these are just a few of the many fine features built into this unit. FM section has an extra stage of RF amplification for use in extreme fringe areas. Custom built-in multiplex section for receiving stereo FM broadcasts.

Specifications: Frequency response: FM ± 0.5 db, 20-20,000 cps.; AM, ± 3.0

db, 20-6,000 cps. Bandwidth: FM, IF 300 KC, balanced disc. 650 KC; AM, 10 KC overall. Distortion: FM, 0.5% harmonic or intermodulation; AM, 1.0% harmonic or intermodulation. Sensitivity: FM, 2mv; AM, 10 mv. Multiplex separation: 30 db or better. Hum and noise 60 db below 100% modulation. Outputs: A-monaural FM-AM; B-FM multiplex stereo. Antenna: FM, 300 ohms nominal; AM, Litzwound ferrite rod. Controls: 1-power off-on; 2-AFC off-on; 3-selector for AM-FM Mono, FM Stereo, 4-tuning. Tubes/semi-conductors: 3-12AT7, 3-6AU6, 1-6BE6, 1-12AX7A, 7 germanium diodes, 1 silicon rectifier. Size overall 13 1/2" W. x 10 3/4" D. x 4 3/4" H. Shpg. wt. 12 lbs. Finish, gold anodized with inset gold knobs.

No. 33D92. AM-FM Stereo Tuner (Less Cover). Net Each..... **\$89.95**

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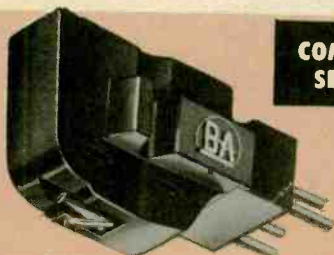
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**COMPARE WITH CARTRIDGES
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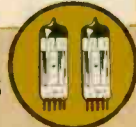


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YOU MUST BE SATISFIED OR YOUR MONEY BACK.

- Frequency Response 20-20,000 cps \pm 1 db.
- Separate full range bass and treble control.
- Built-in preamplifier.
- Fine for Hi-Fi System at low cost.
- Inexpensive means for stereo conversion.
- Use in pairs for a new stereo system.

USES FAMOUS EL84 AUDIO TUBES



The buy of a lifetime! Full 20 watts of power using the famous EL84 tubes in push-pull for the output. Strictly a sign of modern design and quality. Plus completely equalized preamplification to handle your sound source be it magnetic cartridge or tape head, with inputs for ceramic cartridge or tuner. Popular "Low Boy" styling with rich brush brass finished face plate makes handsome appearance to fit any decor. Custom mounts in cabinet or wall, or sets in bookcase or on table top.

Specifications: Power output: 20 watts. Harmonic distortion: 1% at 1000 cps. Intermodulation distortion: less than 3% at 12 watts. Frequency response: \pm 1 db 20-20,000 cps. Power bandwidth: 10 watt 35-20,000 cps. Hum and noise: tuner input -72 db; phono -52 db below rated output. Damping factor

4.5. Controls (5): 1-selector-aux-tuner-NARTB tape, R1AA phono, crystal phono; 2-loudness contour on-flat; 3-loudness; 4-bass -12 db to flat to +8 db at 50 cps; 5-treble -12 db to flat to +8 db at 10,000 cps. Input sensitivity: Aux, tuner, -.55 volt, mag. phono -.0045 volt, tapehead -.0055 volt, crystal phono -.25 volt at rated output. Output impedances: 4, 8, 16 ohms and high impedance for tape recorder. Tubes: 2-12AX7, 2-EL84/6BQ5, 1-6BW4. Fused output AC outlets. For 110-120 volts AC 50-60 cycles. Size 11" W, 4" H, 7 1/2" D. Shpg. wt. 10 lbs. **No. 33A123. Net Each (Less Cover) \$29.95**
No. 33A124. Brown Metal Cover for above Net \$4.95

FISHER MATCHED TUBE COMPONENTS!



MODEL FM-90B

FM STEREO TUNER

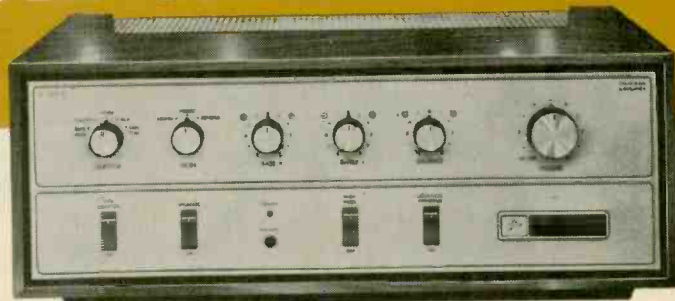
- Wideband Stereo, perfectly matches X100-C at right.
- Automatic Stereo Indicator.
- D'Arsonval tuning Meter.

\$119⁵⁰

LESS CABINET!

An extremely fine tuner featuring high sensitivity and high fidelity FM stereo reception at an extremely low price. Features 3 IF stages and 2 wide-band limiters for excellent sensitivity and selectivity. "Stereo-Scan" indicator, signals when tuned to a station broadcasting in stereo. Precision D'Arsonval tuning meter provides accurate pinpoint center-of-channel tuning. Switchable stereo filter reduces noise on weak or distant stations. Dual audio level controls. Tape outputs. Sensitivity 2.0 uv. Channel separation: 35 db. 8 tubes, 9 diodes. Size, 4 1/2 x 15 1/8 x 11 7/8". 110-120 V. 60 cycles AC. Shpg. wt. 18 lbs. **\$119.50**

No. 31A63. Less Cabinet. Net Each \$119.50
No. 31B11. Oiled Walnut Cabinet. Net Each \$22.45



MODEL X100-C

50 WATT STEREO AMPLIFIER

- Powerful enough to handle the lowest efficiency speaker systems.
- Highest - Fidelity sound at lowest price!

\$119⁵⁰

LESS CABINET!

Professionally engineered to give you the finest high fidelity stereo reproduction. Provides 50 watts of pure music power over the entire audio range. Ample power to give fullest bass response from a 20 cycle to a full treble response to 70,000 cycle.

Inputs, outputs and controls accommodate all stereo and mono sources. Derived center channel; tape monitor, high and low-cut filters; loudness control, dual concentric bass, treble. Impedance 4, 8, 16 ohms, headphones. Size 4 1/2 x 15 1/8 x 11 7/8". Shpg. wt. 25 lbs. **\$119.50**

No. 31A62. Less Cabinet. Net Each \$119.50
No. 31B11. Oiled Walnut Cabinet for above. Net Each \$22.45

FISHER'S MOST FAMOUS RECEIVERS

FAMOUS FISHER 400 65-WATT FM-MULTIPLEX STEREO RECEIVER



\$229⁵⁰
LESS COVER
FISHER'S BIGGEST SELLING RECEIVER

Never before so much for so little! Combines the tuner amplifier and controls of an advanced stereo system on one compact chassis. Simply connect a pair of speakers and you are ready to play — and outplay other systems.

FM section employs three tuned circuits for increased selectivity and rejection of unwanted signals. Tuned front end is completely shielded. Following the front end are three wide band IF stages, with two stages of limiting (including the ratio detector). The ratio detector, which utilizes a matched pair of germanium diodes is linear over an extremely wide range. This results in accurate detection of even the most complex multiplex signals and in the lowest distortion or monophonic FM. Multiplex demodulator utilizes superior time-division method and incorporates Stereo Beam indicator, plus a stereo filter to eliminate background noise on weak multiplex signals without impairing the treble portion of the stereo program material. Stereo beam tube is also used as a tuning indicator, for microaccurate tuning on both mono and stereo broadcasts.

Audio center includes all the most-wanted features, including tone controls, balance control, loudness compensation, a sharp cut-off high frequency filter, a speaker on-off switch and tape monitoring facilities. Separate bass and treble controls with the Fisher friction lock system, are provided for each channel. Monitored tape

recording and immediate playback, with unrestricted use of all audio controls are made possible by the exclusive Fisher Direct Tape Monitor system. A single selector switch combines all the functions normally incorporated in separate and mode selectors, thus greatly increasing the convenience and simplicity of operation.

Specifications: HD at 1 KC and rated output .5%. RMS power (.7% harmonic distortion at 1 KC, left/right) 26/28 watts. IM distortion (60 cps +7 KC 4:1) .8% at 30 watts both channels. Frequency resp. overall 25-25,000 cps ± 1 db. Freq. resp. Power Amplifier Section 10-40,000 +0, -2 db. Hum and Noise 80 db below rated output. Channel separation (at 1 KC) 50 db. Bass controls (total variation at 50 cps) 22 db. Treble controls (total variation at 10 KC) 22 db. Input sensitivity (for rated output): Phono, low 4.4 MV; Phono, high 14 MV; Tape Head 2.8 MV; Aux. 280 MV. FM Tuner Section: usable sensitivity (IHF standard) 1.8 uv. S/N Ratio (100% mod.) 70 db. Selectivity (alternate channel) 60 db. IF rejection (at 100 MC) 85 db. Image rejection (at 100 MC) 57 db. FM HP (400 cps, 100% mod.) .5%. FM stereo separation (at 1 KC) 35 db. Capture ratio (2.5 db). Calibration accuracy .2%. Drift .01%. Size 17½" W. x 5¼" H. x 13" D. Wt. 30¾ lbs. Shpg. wt. 37 lbs.

No. 31C8. Special..... **\$229.50**
 No. 31B12. Walnut Cabinet for above..... \$21.20

FISHER 500C 75-WATT FM-MULTIPLEX STEREO RECEIVER



\$269⁵⁰
LESS COVER
BUY ON B-A's EASY PAYMENT PLAN

The industry standard . . . incorporating the most advanced principles not only of electronic design but also of "human engineering." Capable of achieving maximum performance in the hands of novice and audio connoisseur alike. FM section features new Nuvistor-Golden Synchrode front end, which affords far higher sensitivity, a wider overload margin and better rejection of spurious and image signals. Low-noise nuvistor triodes, used for both mixer and oscillator, provides a higher degree of mechanical and electrical stability, and a better signal to noise ratio. Signal is amplified by four wide-band IF stages and is converted to an audio signal by a wide-band ratio detector that utilizes two balanced germanium diodes. The high amplification of these IF stages, combined with the progressive action of three limiters (including the ratio detector), assures a maximum degree of freedom from noise and interference.

Automatic stereo Beacon senses whether signal is monophonic or stereophonic. Tuning meter provides pin-point accuracy, also indicates the point of lowest distortion, greatest separation and highest AM suppression. Pre-amplifier section offers a full complement of audio controls, including separate friction-lock bass and treble controls, high and low sharp-cut off filters, plus a front-panel headphone jack. A four-position speaker selector switch is provided, permitting the receiver to act as the control center for both the main set of speakers and one or more remote speaker installations. The same switch silences all speaker systems for completely private listening with headphones. The exclusive Fisher Direct Tape Monitor permits

monitoring while a tape is being recorded, followed by immediate playback with full use of all audio control facilities, without any change in cable connections. Advanced circuitry is combined with superior, oversize output transformers to make this performance possible. A derived "third" power output is provided in addition to the left and right speaker connections for either center-channel use or an extension speaker.

Specifications: HD at 1 KC .5%. RMS power (.7% harmonic distortion at 1 KC, left/right) 32/32 watts. IM distortion (60 cps +7 KC, 4:1) .7% at 35 watts each channel. Freq. resp. 25-25,000 ± 1.5 db. Freq. resp. power amp. section, 5-45,000 cps. +0, -2 db. Hum and noise 80 db below rated output. Channel separation (at 1 KC) 5 db. Bass controls (total variation at 50 cps) 23 db. Treble separation (total variation at 10 KC) 23 db. Input sensitivity for rated output: phono, low 3.3 mv; Phono, high 13 mv; Tape head 2.5 mv; Aux. 230 mv.

FM Tuner Section: usable sensitivity (IHF) 1.8 uv S/N 70 db at 100% mod. Selectivity alternate channel 60 db. IF rejection 90 db (at 100 MC). Image rejection 65 db (at 100 MC). FM harmonic distortion (400 cps, 100% mod.) .5%. FM stereo separation (at 1 KC) 35 db. Capture ratio 2.5 db. Calibration accuracy .2%. Drift .01%. Size 17½" W. x 5¼" H. x 13½" D. Wt. 36½ lbs.

No. 31B5. Shpg. wt. 40 lbs. Special..... **\$269.50**
 No. 31B12. Walnut Cabinet for above..... \$21.20

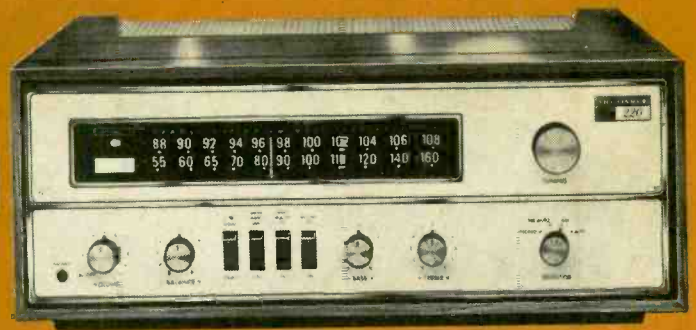
NEW FISHER SOLID STATE RECEIVERS!

MODEL 220T 55-WATT AM-FM STEREO RECEIVER

- Frequency response 25 to 20,000 cps \pm 1.5 db.
- All Solid-State Front End.
- Stereo Beacon.
- Tuning Meter.

\$280⁰⁸
LESS CABINET

PAY \$14.00 MONTHLY!



Never before such a high quality, outstanding solid-state receiver for such a phenomenal low price! Quality and specifications are equal to or better than comparable units of other manufacturers selling for far more. Features all new solid state construction.

Specifications: Amplifier Section: Frequency response 25 to 20,000 cps \pm 1.5 db. Harmonic distortion .8% at 1,000 cps. IM distortion (60-7,000 cps) 1.0%. Power bandwidth, IHF (at 8 ohms) 28 to 30,000 cps. Sensitivity (for rated output). Phono low/high 3 mv/7 mv. Aux. 330 mv. Monitor 330 mv. Hum and noise (below rated output), volume at minimum —80 db. Phono low (6 mv reference) —55 db. Aux. (400 mv reference) —65 db. Frequency resp. 25 to 20,000 cps \pm 1.5 db. Input impedance phono low 50,000 ohm. Aux. high 220,000 ohm. Damping factor: greater than 10, volume control tracking (0 to

—50 db) better than 2 db. Separation (at 1,000 cps) phono and aux. greater than 45 db. Bass control range 17 db at 50 cps. Treble control range 16 db at 10,000 cps. Subsonic rumble filter 12 db per octave below 20 cps. **FM Tuner Section:** useable sensitivity, IHF 2.5 uv. H.D. less than .5%. S/N ratio 70 db. Selectivity, alternate channel, IHF: 50 db. Spurious response rejection 85 db. Image frequency rejection 60 db. IF frequency rejection 85 db, FM stereo separation 35 db. Capture ratio IHF 2.2 db. **AM Tuner Section:** Sensitivity (ferrite antenna) 40 uv. Selectivity 55 db. Image frequency rejection 80 db. IF frequency rejection 85 db. Dimensions: 15 $\frac{1}{8}$ " W., 4 $\frac{3}{8}$ " H., 11" D. Shpg. wt. 20 lbs.

No. 31B24. Less Cabinet. Net Each.....**\$280.08**
No. 31B28. Walnut Cabinet. Model 50UW. Net Each.....**\$22.46**

FISHER MODEL 500T 90-WATT FM STEREO RECEIVER

**HIGHEST QUALITY,
EXTRAORDINARY
FULL FEATURED!**

- All the Benefits of Solid State Circuitry.
- Finest Realistic FM Stereo Reception.
- Automatic Stereo Beacon.
- Tuning Meter.

\$339⁵⁸
LESS CABINET

PAY \$16.00 MONTHLY!



Famous Fisher precision craftsmanship assures years of listening pleasure. Provides finest reproduction. Modern rocker switches control loudness contour, muting, remote speaker control. Other front panel controls include on-off volume control, bass, treble, balance. Mode selector control for: Mono, Stereo Filter, Stereo, Stereo Tape, Tape L, Tape R, Tape Monitor. Selector switch for Tape Heads, Phono, FM Auto, FM Mono and Aux.

Specifications: Amplifier Section—Music power 90 watts, H.D. .8% at 1,000 cps. Distortion 60-7,000 cps .8%, power bandwidth IHF 22 to 30,000 cps.

Sensitivity: at rated output, phono low/high 3.5 mv/10 mv. Tape Head: 2.5 mv, aux. 200 mv, monitor 260 mv. Hum and noise (below rated output) phono low (6 mv reference) —55 db. Aux. high (400 mv reference) —65 db. Freq. resp.; phono low 30 to 15,000 cps \pm 1.5 db. Aux. 32 to 20,000 cps \pm 1 db. Power amplifier section —15 to 60,000 cps \pm 1 db. Input imp. phono low

50,000 ohms, tape head 100,000 ohms. Aux. high 220K ohms. Damping Factor greater than 12. Volume control tracking (0 to —50 db) better than 2 db. Separation (at 1,000 cps) phono greater than 45 db. Tape head greater than 45 db. Aux. greater than 45 db. Recorder output 250 mv. Bass control range 26 db at 50 cps. Treble control range 22 db at 10,000 cps. Rumble filter 12 db per octave below 20 cps. High frequency filter (12 db per octave) —3 db at 5500 cps. **FM Tuner Section:** useable sensitivity IHF 1.8 uv. H.D. (at 400 cps 100% modulation). Less than .5% S/N at 100% modulation (and 1 mv input) 50 db. Selectivity, alternate channel IHF: 50 db. Spurious response rejection 90 db, image frequency rejection 80 db. IF freq. rejection 95 db. FM stereo separation greater than 35 db. Capture ratio, IHF. 2.2 db. Size 16 $\frac{3}{4}$ " W., 5 $\frac{1}{8}$ " H., 12 $\frac{1}{2}$ " D. Shpg. wt. 25 lbs.

No. 31B26. Less Cabinet. Net Each.....**\$339.58**
No. 31D14. Walnut Cabinet. Model 100JW. Net Each.....**\$22.46**

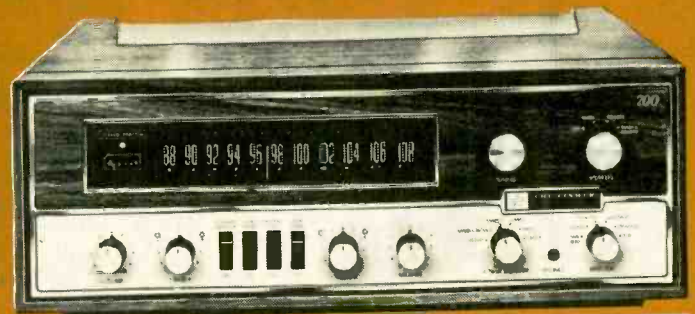
FISHER MODEL 700T 120-WATT FM STEREO RECEIVER

**FINEST QUALITY
SOLID STATE MODEL
UNEQUALLED IN
PERFORMANCE AND
EASE OF OPERATION**

- Exclusive Super Synchrode Front End with Field Effect Transistors.
- Two RF Stages.
- Six Tuned Circuits.
- Four IF Stages.
- Four Gang Variable Capacitor.

\$424⁵⁸
LESS CABINET

PAY \$19.00 MONTHLY



The first all-solid-state receiver to incorporate engineering advancements developed for and now used exclusively in aerospace technology. Magnificent control panel features a 24-carat gold plated casting with contrasting walnut-textured and anodized panel designations.

The 700T provides 120 watts of music power, employs twenty-two low level and power silicon transistors, including an exclusive group of silicon Field-Effect Transistors (FET). Through use of the F.E.T. front end the sensitivity of the tuner section has been increased to its theoretical limit. This not only makes it possible to receive very weak signals but also makes it possible to enjoy program signals, or that on ordinary receivers may have been blanketed out by stronger signals, or were "hidden" in noise. Four IF stages, three limiters and a wide-band ratio detector have been incorporated for maximum freedom from noise and interference. The time-division multiplex section has an exclusive Four-Diode Coincidence Circuit to eliminate triggering caused by spurious signals. The "Stereo Beacon" can only be actuated by the true stereo signal and automatically switches to stereo

mode. Stereo separation reaches the limits of perfection. Between 400 cps and 1 KC it is more than 40 db at 15 KC better than 30 db. Full versatility of control of functions from front panel include new Boxandall-type feedback networks in the dual bass and treble controls, removing all possibility of "boem" or harshness. Six position source control (Tape Head, Phono, FM Auto, FM Stereo, FM Mono, Aux) permits complete selection of program source. Five-position Mode Selector (Mono, Stereo Filter, Stereo, Stereo Tape, Tape L & R) provide for maximum listening pleasure. Unique Direct Tape Monitor feature permits use of all controls during tape monitoring without changing of cable connections. In last two positions Tape L and Tape R, permit playback of each of the "our tracks of a monophonic tape through both loudspeakers simultaneously. Dimensions, 16 $\frac{3}{4}$ " W., 5 $\frac{1}{8}$ " H., 12 $\frac{1}{2}$ " D. Shpg. wt. 30 lbs.

No. 31A27. Less Cabinet. Net Each.....**\$424.58**
No. 31D14. Walnut Cabinet. Model 100UW. Net Each.....**\$22.46**

NEW *Electro-Voice*® STEREO HIGH FIDELITY COMPONENTS!



- 1177 50-WATT FM STEREO RECEIVER
- 1178 50-WATT AM-FM STEREO RECEIVER

BEAUTIFUL STYLE... CAN BE PLACED ANYWHERE

SOLID STATE

50-WATT SMALL, COMPACT STEREO RECEIVERS

\$238⁰⁰ MODEL 1177

SOLID STATE SMALL COMPACT SIZE—MAY BE STACKED OR SET SIDE BY SIDE



FM STEREO TUNER

MODEL 1155

\$136⁰⁰

AM-FM STEREO TUNER

MODEL 1156

\$165⁷⁵

50-WATT STEREO AMPLIFIER

MODEL 1144

\$105⁸²

Over a decade of transistor research and application engineering by Electro-Voice contributes to the refinements offered in the 1100 Series components. Highest musical standards at very practical cost. Features all transistor design with military type etched-circuits. Direct coupled output eliminates transformer and capacitor limitations.

MODEL 1177 50-WATT FM STEREO RECEIVER

Computer-type program lights on front panel indicate source. **Amplifier Section:** 25 watts per channel IHF music power. Freq. resp. at rated output 20-20,000 cps. $\pm 1\frac{1}{2}$ db.; at 1 watt 20-30,000 cps. $\pm 1\frac{1}{2}$ db. H.D. less than 1%. Hum and noise -70 db. below rated output. Channel separation 40 db. minimum at 1,000 cps. Input sensitivity -3 mv.; tuner, auxiliary and tape -60 mv. Output damping factor 35 at 8 ohms. Inputs phono (Mag.) tuner, Aux., Tape (high level). Controls: Selector (Phono-Tuner-Aux.), Bass, Treble, Balance, Volume and on/off switch, Stereo/Mono, Tape Monitor, Loudness On/Off, Speaker On/Mute. Outputs: 4-16 ohms per channel, stereo tape, headphones (on front panel). One switched, one un-switched AC outlet. **Tuner Section:** FM, see specs. on 1155 opposite column. Size 3 $\frac{3}{8}$ " H., 15 $\frac{7}{8}$ " W., 10 $\frac{1}{4}$ " deep (including case).

No. 33A287. Shpg. wt. 20 lbs. Net Each. **\$238.00**

MODEL 1178 50-WATT AM-FM STEREO RECEIVER

As above but with AM tuning AM/FM Switch, and built-in loopstick AM antenna. Shpg. wt. 23 lbs. No. 33A288. Net Each. **\$267.75**

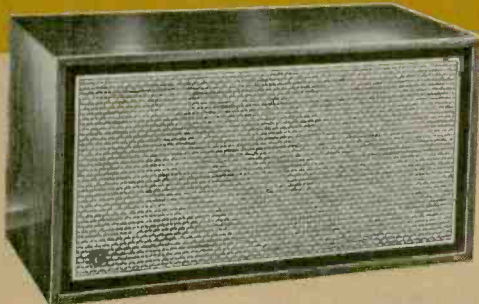
1155 FM STEREO TUNER
Sensitivity 2 uv. IHF. Selectivity, alternate channel down 60 db. Response, ± 1 db. 30-15,000 cps. Hum and noise, better than 60 db. below 100% modulation for full quieting. HD, less than 1 $\frac{1}{2}$ % at 100% modulation. Capture ratio 2.5 db. IF bandwidth, 250 KC. Channel separation, better than 30 db. at 1 KC. SCA rejection better than 40 db. Controls: tuning on/off, stereo/mono, AFC on/off. Size: 3 $\frac{3}{8}$ " H., 8 $\frac{3}{8}$ " W., 10 $\frac{1}{4}$ " D. Shpg. wt. 8 lbs. No. 33B285. Net Each. **\$136.00**

1156 AM/FM STEREO TUNER
Features FM section described above, plus AM tuning, AM/FM switch and built-in loopstick AM antenna. Same size as Model 1155. No. 33B286. Shpg. wt. 10 lbs. Net Each. **\$165.75**

1144 50-WATT STEREO AMPLIFIER
Identical specifications as amplifier section of Model 1177 Receiver described at left. Same physical size as matching 1155 FM Stereo Tuner. No. 33B284. Shpg. wt. 15 lbs. Net Each. **\$105.82**

Electro-Voice®

FM STEREO-PHONO SYSTEM WITH 1177 RECEIVER, GARRARD CHANGER AND E-V SEVEN SPEAKER SYSTEMS



E-V SEVEN SPEAKER SYSTEM

NO MONEY DOWN

COMPLETE SYSTEM ONLY

\$379⁰⁰

NO MONEY DOWN



E-V SEVEN SPEAKER SYSTEM

BUY ON B-A's EASY PAYMENT PLAN



SOLID STATE
1177 50-WATT FM STEREO RECEIVER



MODEL 40MKII GARRARD RECORD CHANGER WITH SHURE M3D CARTRIDGE & BASE

THE E-V SEVEN
Entirely new, ultra-compact two-way acoustic suspension system. High compliance 8-inch bass driver for exceptional low-frequency response. 3 $\frac{1}{2}$ " cone tweeter employs unique polyurethane cone damping to prevent "break-up" and insure silky-smooth highs. 2,000 cps. electrical crossover with continuously variable high-frequency level control to permit matching to individual room acoustics. Response 50-15,000 cps. 50 watts peak. 8 ohms impedance. Size: 10" H. x 19" W. x 9" D. Finished in oiled walnut on all four sides. Net weight 19 lbs. Shpg. wt. 24 lbs. No. 33A289. Net Each. **\$59.85**

Everything you need for the finest reproduction of sound from FM Stereo and Phono. **FEATURES:** 2 "Top Rated" E-V Seven Speaker Systems, E-V Model 1177 50-Watt FM Stereo Receiver, Garrard Model 40MKII Changer with Shure M3D Cartridge and Matching Base, all plug-in cables and 50 ft. speaker cable. Shpg. wt. 93 lbs. No. 49A161 B-A Special. **\$379.00**

As above but with Model 1178 50-Watt AM-FM Stereo Receiver. No. 49A162. Shpg. wt. 100 lbs. Complete System, B-A Special. **\$408.75**



MODEL 342-65 WATT FM-STEREO RECEIVER \$259⁹⁵
 LARGEST SELLING SOLID STATE RECEIVER IN THE ENTIRE HIGH FIDELITY INDUSTRY!

SCOTT SOLID-STATE STEREO COMPONENTS

... FEATURING NEW (FET) FIELD EFFECT TRANSISTORS!

FIELD EFFECT TRANSISTORS LETS YOU HEAR MORE STATIONS MORE CLEARLY!

Provides unbeatable performance. Direct coupled silicon output transistors give rugged, full range performance; all-silicon IF strip provides three stages of IF amplification plus three stages of limiting action for optimum selectivity and stereo separation.

Specifications: Music Power Rating 65-watts. Freq. resp. 18-25,000 cps. \pm 1 db. Power bandwidth 25-20,000 cps. Usable sensitivity 2.2 uv. Hum and noise phono —55 db. Tuner —80 db. Cross modulation rejection 75 db. S/N 70 db.

Capture ratio 5 db. Features dual loudness level control, separate bass and treble controls. Inputs for phono low, phono high plus auxiliary switch for automatic stereo, mono; switch for left or right channel for separate balancing; noise filter switch. Speakers, off-main-remote switch, power on-off switch, low level headphone output. Tape monitor switching. Precision tuning meter. Operates on 110-120 V. 60 cy. AC. Size 4 $\frac{1}{8}$ " H., 15 $\frac{3}{8}$ " W., 12 $\frac{1}{4}$ " D. Shpg. wt. 36 lbs.

No. 31A83. Less Cabinet. Net Each..... **\$259.95**

PREDICATED TO BECOME THE WORLD'S LARGEST SELLING SOLID STATE RECEIVER!

MODEL 382-65 WATT AM-FM STEREO RECEIVER \$299⁹⁵
 LESS CABINET!



Recent improvements in AM broadcasting equipment plus the FCC's decision to split AM and FM programming have provided new interest in superior AM reception. The 382 provides all the qualities and specifications of the 342 listed above plus extremely high quality AM. Dimensions, same as Model 342. Shpg. wt. 36 lbs.

No. 31A88. Less Cabinet. Net Each..... **\$299.95**

No. 31B90. Oiled Walnut Cabinet for Model 342 and 382. Net Ea..... **\$22.50**

NEW SCOTT SOLID STATE STEREO COMPACT A COMPLETE AM-FM PHONO \$339⁹⁵
 COMPLETE

- AM AND FM STEREO RECEPTION.
- HEADPHONE JACK. • MICROPHONE INPUT.
- GUITAR INPUT. • TAPE MONITOR OUTPUT.

Most feature-packed compact on the market today. With new improvement of AM broadcasting, the AM reception is truly a must. Now, Scott brings you all the quality of a component system with truly matched speaker systems for the output of the amplifier is a must and here Scott has provided the exact match. The entire receiver has all the features of a high quality AM-FM Stereo Receiver and the changer is manufactured by a world renowned maker. No place has quality been sacrificed. Shpg. wt. 45 lbs.

No. 31B76. Model 2502. Net Each..... **\$339.95**

A COMPLETE AM-FM PHONO SYSTEM ACCEPTABLE TO THE MOST CRITICAL ENTHUSIAST WITH FURNITURE TO MATCH THE FINEST DECOR.



MODEL 2502



MATCHED COMPONENT SYSTEMS SAVE YOU EXTRA \$\$\$

B-A'S 30-WATT CUSTOM STEREO SYSTEM



SAVE
\$2901

\$139⁹⁵

LESS AMP. COVER

New COMPACT HIGH COMPLIANCE SPEAKER SYSTEMS



B-A's 30-WATT STEREO AMPLIFIER

NO. 49A166. COMPLETE SYSTEM AS LISTED, LESS COVER \$139.95

- Garrard Model 40MKII, Shure M3D Cartridge & Base
- 1—30-Watt Stereo Amplifier, less cover (see 33B41, page 15 for complete description).
 - 1—Garrard 40MKII Automatic Turntable with Shure M3D Cartridge and Base (30B216 & 30C198, page 30).
 - 2—Compact High Compliance Speaker Systems (see 34B275, page 24).

50 Ft. of Speaker Cable.

No. 33B43. Oiled Walnut Cover for above Amplifier. Each.....\$12.95

B-A'S 44-WATT CUSTOM STEREO SYSTEM



SAVE
\$2351

\$169⁹⁵

LESS AMP. COVER

NEW COMPACT HIGH COMPLIANCE SPEAKER SYSTEMS



B-A's 44-WATT STEREO AMPLIFIER

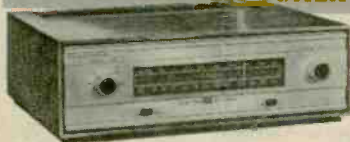
NO. 49A163. COMPLETE SYSTEM AS LISTED, LESS COVER \$169.95

- Garrard Model 40MKII, Shure M3D Cartridge & Base
- 1—44-Watt Stereo Amplifier, less cover (see 33B46, page 16 for complete description).
 - 1—Garrard 40MKII Automatic Turntable with Shure M3D Cartridge & Base (30B216, 30C198, page 30).
 - 2—Compact High Compliance Speaker Systems (See 34B275, page 24).

50 Ft. of Speaker Cable.

No. 33B48. Oiled Walnut Cover for above Amplifier. Each.....\$14.95

B-A'S CUSTOM AM-FM STEREO MULTIPLEX TUNER



\$89⁹⁵

LESS COVER

Matches above two systems. (See 33D92, page 16 for details).

No. 33D94. Cover for Multiplex Tuner above. Each.....\$14.95

FISHER 500C 75-WATT FM STEREO SYSTEM



SAVE
\$5446

\$439⁹⁵

LESS RECEIVER COVER

B-A DELUXE 4-WAY SPEAKER SYSTEMS



FISHER 500C 75-WATT FM STEREO RECEIVER

NO. 49A165. COMPLETE SYSTEM AS LISTED, LESS COVER \$439.95

- Garrard Lab 80MKII, Shure M44E Elliptical & Base.
- 1—Fisher 500C 75-Watt Stereo Receiver, less cover (see 31B5, page 18 for complete description).
 - 1—Garrard Lab 80 MKII Automatic Turntable with Shure M44E Elliptical Cart. & Base (30B227, 30C197, page 30).
 - 2—Deluxe 4-Way Speaker Cables (40C198, page 26).

50 Ft. of Speaker Cable.

No. 31B12. Oiled Walnut Cabinet for Receiver. Each.....\$21.20

FISHER X100C 50-WATT STEREO SYSTEM



SAVE
\$\$\$

\$239⁹⁵

LESS AMP. COVER

B-A DELUXE 4-WAY SPEAKER SYSTEMS



FISHER X100C 50-WATT AMPLIFIER

NO. 49A164. COMPLETE SYSTEM AS LISTED, LESS COVER \$239.95

- Garrard Model 50MKII, Shure M3D Cartridge & Base
- 1—Fisher X100C 50-Watt Stereo Amplifier, less cover (See No. 31A62, page 17 for complete description).
 - 1—Garrard 50MKII with Shure M3D Cartridge and Base (see 30C188 & 30C198, page 31).
 - 2—Deluxe 4-Way Speaker Systems (40C198, page 26).

50 Ft. of Speaker Cable.

No. 31B11. Oiled Walnut Cabinet for Amplifier. Each.....\$22.45

FISHER FM-90B FM STEREO MULTIPLEX TUNER



\$119⁵⁰

LESS COVER

Matches 50-watt stereo system above (No. 31A63, page 17 for details).

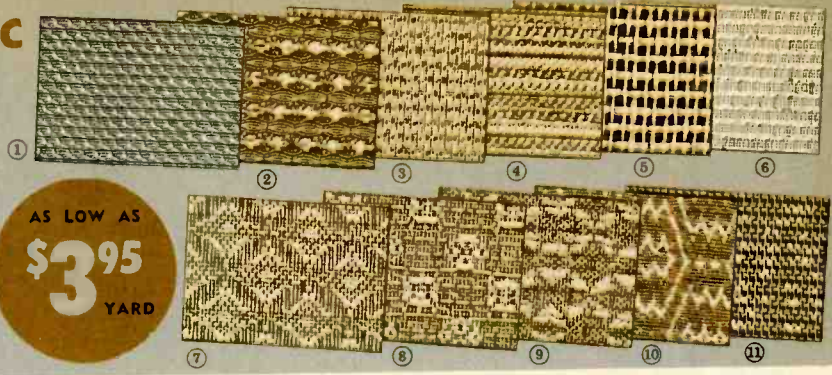
No. 31B11. Oiled Walnut Cabinet for FM-90B Tuner. Each.....\$22.45

DECORATOR GRILLE FABRIC

WOVEN ESPECIALLY FOR B-A BY ACOUSTONE

Now, for the first time the same specially woven grille fabrics used by the nation's leading manufacturers of sound equipment are available for your own hi-fi, TV or other sound installations at B-A's low prices.

These are not ordinary materials! Each was created by the finest designers, made of the highest quality materials, and woven especially for the transmission of sound. The patterns described below were carefully chosen from hundreds of fabrics to give you just the right selection to blend with any furniture style or wood tone. For your convenience suggested furniture styles and cabinet woods are noted with each pattern.



AS LOW AS
\$3.95
YARD

- ① **Black Diamonds.** Striking design of closely woven diagonal silver strands on field of midnight black. Recommended for use with ebony. Furniture style—modern.
No. 32A303. 18x24". Net Each \$2.15 No. 32A302. 36x36". Net Each \$3.95
- ② **Cinnamon Royal.** Distinguished design of dark brown horizontal yarns with interwoven metallic threads of glistening gold. Background delicate dark brown and white. Use with mahogany. Furniture style—traditional.
No. 32A305. 18x24". Net Each \$2.15 No. 32A304. 36x36". Net Each \$3.95
- ③ **Golden Glow.** Rich golden horizontal stripes against a muted background of creamy tan. For use with all furniture styles. Woods—walnut, maple, cherry, fruitwood.
No. 32A307. 18x24". Net Each \$2.15 No. 32A306. 36x36". Net Each \$3.95
- ④ **Colonial Homespun.** Warm tans and browns with thin pencil type of dark brown make this fabric an ideal selection for early American furniture. Woods—walnut, maple, cherry, fruitwood.
No. 32A309. 18x24". Net Each \$2.40 No. 32A308. 36x36". Net Each \$4.75
- ⑤ **Tahiti Cane—Natural.** One of our most popular patterns. Looks almost exactly like expensive natural cane. For use with all furniture styles, all woods.
No. 32A317. 18x24" Net Each \$2.40 No. 32A316. 36x36" Net Each \$4.75
- ⑥ **Tahiti Cane—White.** Vertical fibers resemble natural cane. Pure white horizontal fibers edged with golden metallic threads produce gleaming highlights. For use with all furniture styles, all woods.
No. 32A319. 18x24". Net Each \$2.40 No. 32A318. 36x36". Net Each \$4.75
- ⑦ **Tahiti Cane—Dark.** Rich chocolate brown yarns used for horizontal weave. For use with all furniture styles, all woods except ebony.
No. 32A321. 18x24". Net Each \$2.40 No. 32A320. 36x36". Net Each \$4.75
- ⑧ **Egg-Shell White.** Luxurious white suran yarn in a honeycomb design, with just a trace of Gold thread running horizontally for background. Ideal for light woods and modern furniture styling. Also used by decorators for wall paneling.
No. 32A333. 18x24". Net Each \$2.40 No. 32A332. 36x36" Net Each \$4.75

- ⑨ **Some Honeycomb Design as bottom left** but has light silver grey background with beige threads running horizontally to form top and bottom edge of honeycomb.
No. 32A339. 18x24". Net Each \$2.40 No. 32A338. 36x36". Net Each \$4.75
- ⑩ **Some Honeycomb Design as above** but rich beige background with silver threads running horizontally to form top and bottom edge of honeycomb.
No. 32A341. 18x24". Net Each \$2.40 No. 32A340. 36x36". Net Each \$4.75
- ⑪ **Rich Gold Diamond Pattern.** Gives effect of rich gold diamonds with brown tone background. Best suited for provincial furniture. May be used with either side out. Reverse side flat gold diamond effect surrounded by raised gold pattern.
No. 32A343. 18x24". Net Each \$2.15 No. 32A342. 36x36". Net Each \$3.95
- ⑫ **Same as above** but with prominent beige diamonds and gold threading surrounded by brown background. Reverse side has flat beige and brown diamonds surrounded by raised beige and gold. Best suited for use with Early American furniture.
No. 32A345. 18x24". Net Each \$2.15 No. 32A344. 36x36". Net Each \$3.95
- ⑬ **Raised Circular Pattern.** Predominant rich brown background highlighted by beige and gold horizontal threads. For use with all furniture styles, ideal with medium or dark woods.
No. 32A347. 18x24" Net Each \$2.15 No. 32A346. 36x36" Net Each \$3.95
- ⑭ **Contemporary Pattern of all Modern Design** has gold horizontal threads intermingled with light beige on background of brown.
No. 32A349. 18x24". Net Each \$2.15 No. 32A348. 36x36" Net Each \$3.95
- ⑮ **Contemporary Pattern** has light beige design on brown background, two gold threads run horizontally at intervals of approximately 1/2" spacing.
No. 32A351. 18x24". Net Each \$2.15 No. 32A350. 36x36". Net Each \$3.95
- ⑯ **Nubby Effect.** Beautiful gold and tan background highlighted by light beige nubby pieces spotted at random over entire area.
No. 32A353. 18x24". Net Each \$2.15 No. 32A352. 36x36". Net Each \$3.95

SWITCHCRAFT MOLDED HI-FI CABLES



High quality connecting cables for use with audio and high fidelity equipment, tape recorders, speaker extensions, or wherever jumper cords are needed. Connectors are molded in plastic directly to cable, with molded-in finger grip for easy removal from socket. Wire is attractive chrome-gray. All are shielded except # which are unshielded.

Stock No.	One End	Other End	Length	Each	Stock No.	One End	Other End	Length	Each
20A276	(1)	(1)	6 Ft.	\$1.71	20A373	(5)	(6)	6 Ft.	\$0.75
20A277	(1)	(2)	6 Ft.	1.32	20A374	(5)	(6)	10 Ft.	1.08
20A284	(1)	(3)	6 Ft.	1.44	20A331	(2)	(2)	18 In.	.69
20A289	(1)	(4)	6 Ft.	1.71	20A332	(2)	(2)	3 Ft.	.78
20A290	(1)	(5)	6 Ft.	1.32	20A333	(2)	(2)	6 Ft.	.99
20A291	(8)	(8)	6 Ft.	1.71	20B245	(2)	(2)	10 Ft.	1.32
20A105	(8)	(8)	10 Ft.	2.31	20A110	(2)	(2)	25 Ft.	2.31
20A106	(8)	(8)	25 Ft.	3.06	20A336	(2)	(3)	3 Ft.	.90
20A330	(8)	(2)	6 Ft.	1.32	20A337	(2)	(3)	6 Ft.	1.17
20A107	(8)	(2)	10 Ft.	1.80	20B246	(2)	(3)	10 Ft.	1.32
20A292	(8)	(3)	6 Ft.	1.44	20A111	(2)	(3)	25 Ft.	2.31
20A311*	(8)	(7)	6 Ft.	1.26	20A375	(2)	(4)	6 Ft.	1.62
20A109*	(8)	(7)	20 Ft.	1.98	20A376	(2)	(5)	6 Ft.	.99
20A313	(5)	(5)	18 In.	.69	20A377	(2)	(5)	10 Ft.	1.32
20A323	(5)	(5)	3 Ft.	.78	20A379*	(2)	(6)	6 Ft.	.60
20A324	(5)	(5)	6 Ft.	.99	20A112	(2)	(6)	18 In.	.54
20A325	(5)	(5)	10 Ft.	1.32	20A334	(2)	(6)	3 Ft.	.63
20A326	(5)	(3)	18 In.	.84	20A335	(2)	(6)	6 Ft.	.75
20A327	(5)	(3)	3 Ft.	.90	20A380	(2)	(6)	10 Ft.	1.08
20A328	(5)	(3)	6 Ft.	1.17	20A113	(2)	(6)	25 Ft.	2.16
20A365	(5)	(3)	10 Ft.	1.32	20A381*	(2)	(7)	6 Ft.	1.17
20A372	(5)	(6)	3 Ft.	.63					



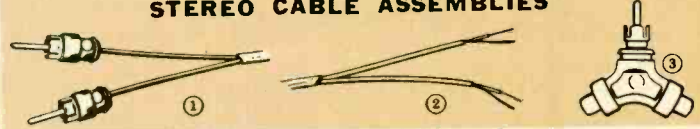
① **WOVEN GRILLE CLOTH**
Modern design. Finest quality with beautiful tapestry effect pattern.
Size Brown Ivory Price
18x20" 11A45 16A434 \$0.96
9x18" 11A46 16A435 .44



RCA PHONO CONNECTORS

Stk. No.	Description	Each	10 Ea.
① 12A1087	Phono Plug	5c	4c
② 12A1088	Phono Jack	6c	5c
③ 12A676	Double Jack	12c	11c
④ 12A543	Easy Grip Plug	12c	11c

STEREO CABLE ASSEMBLIES



Two shielded insulated cables inside a common chrome gray plastic jacket provide for two completely isolated channels. Separately insulated jackets minimize ground loop. Both inner jackets are color coded for easy channel identification. Gray stereo cable. Available in combinations listed below.

- ① and ① **Two Phono Plugs at each end.**
No. 20A340. 3 ft. length. Net Each \$2.16
No. 20A445. 6 ft. length. Net Each 2.49
No. 20A462. 10 ft. length. Net Each 2.97
- ① and ② **Two Phono Plugs on one end and two stripped and tinned leads on other.**
No. 20A463. 3 ft. length. Net Each \$1.92
No. 20A466. 6 ft. length. Net Each 2.16
No. 20A467. 10 ft. length. Net Each 2.49
- ③ **Y-Adapter, with 2 phono jacks connected in parallel to single phono plug. Completely shielded.**
No. 20A469. Net Each \$1.17

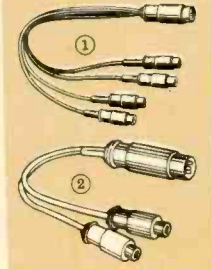
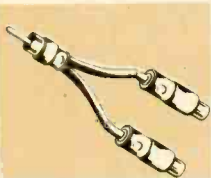
FLEXIBLE "Y" CONNECTORS

Ideal for connecting stereo source to monaural amplifier. Also used on some tape recorders. Gray shielded cable 4" long.

- Phono Plug to Two Phono Jacks.**
No. 20A481. Type 330F1. Net Each \$1.35
- Phono Plug to One Phono Plug and One Phono Jack.**
No. 20A482. Type 330F2. Net Each \$1.35
- Phono Plug to Two Phono Plugs.**
No. 20A483. Type 330F3. Net Each \$1.35

ADAPTOR CABLES FOR FOREIGN BUILT TAPE RECORDERS, RADIOS

- ① **Stereo Adaptor Cable.** Plugs directly into European-type 5 hole sockets usually found on Norelco, Korting, Grundig, Sony, Elber tape recorders; Grundig radios, Models 50-240-U, TM42, TM45 and many others. Permits use with American made microphones, headphones, earphones, extension speakers. 1 ft. shielded cables, color coded, 5-pin plug one end, 4 phono sockets other end.
No. 20B263. Type 330G. Each \$3.60
- ② **Flexible Y-Adaptor.** Converts Norelco, Grundig, Uher, Korting tape recorders using European-type 3 hole sockets for use with American made microphones, extension speakers, etc. 4 inch shielded cable, 3-pin plug one end, 2 color coded phono jacks other end.
No. 20B264. Type 330H. Each \$2.25



WORLD'S FINEST SPEAKER SYSTEM AMERICAN-MADE FOR B-A BY UNIVERSITY LOUDSPEAKERS

EXCEPTIONAL VALUE

99⁹⁵
NOTHING
DOWN

NEW, IMPROVED
Maestro
**A 3-WAY SYSTEM
WITHOUT COMPARISON**

- Freq. resp. 25-40,000 cps.
- Power handling capacity 40 watts.
- Impedance, 8 ohms.
- Size 24 x 17 x 11 1/4" deep.



*Beautiful
Hand-
Rubbed
Oiled
Walnut
Enclosure*



Here is a speaker system that puts you on the conductors podium.

A system for those who will settle for nothing less than the finest.

Bass is handled by high compliance 12" woofer engineered specifically for the enclosure. Provides extended bass as low as 25 cps with less than 10% harmonic distortion an achievement, up to now, considered impossible even for a speaker system of enormous proportions. Power handling capacity 40 watts music power, but it is of such high efficiency that optimum response is realized with amplifiers capable of no more than an undistorted 10 watt output.

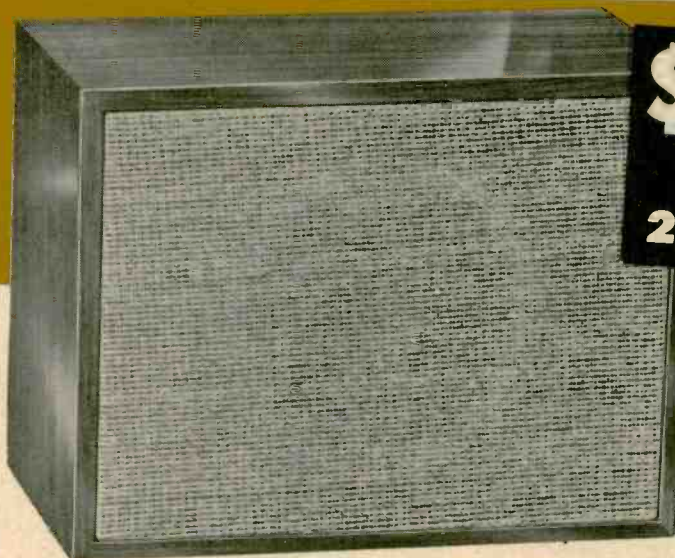
Mid-range is a specialized 8" direct radiator speaker for the reproduction of frequencies in the 500-5000 cps range. Perfectly matches the efficiency and response characteristics of the woofer and sphericon super tweeter. It provides excellent projection and dramatic presence. Viscous treated, it rolls off unwanted high frequencies, and "makes-way" for the unique tonal purity of the sphericon. Equipped with an airtight, sub-enclosure "basket" assembly, it also prevents distortion due to woofer-generated pressures inside the cabinet.

The high frequency end is handled by world's finest high-frequency reproducer "The Sphericon Super Tweeter". Acknowledged by audio engineers as the finest of its kind. Provides smooth response up to 40,000 cps. with a wide 120° dispersion in all planes for uniform highs to all parts of the room. With its precisely engineered conoidal ring and spherical diffractor, the sphericon produces smooth, on axis response, creating true realism. Enclosure is beautiful oiled walnut.

5 YEAR GUARANTEE See Page 28 No. 40C91. Shpg. wt. 43 lbs. Net..... **\$99.95**

**SPECTACULAR
NEW
COMPACT
HIGH
COMPLIANCE
SPEAKER
SYSTEM!**

**IDEAL FOR
USE WITH
SOLID STATE
AND
TUBE
AMPLIFIERS!**



\$29⁹⁵
2 FOR \$55.00

**FULL
SMOOTH
RESPONSE OVER
ENTIRE
AUDIO
SPECTRUM!**

- 20-20,000 cps frequency response.
- Handles up to 25 watts power without break-up.
- Handsome solid walnut enclosure.
- Beautiful decorator grille cloth blends with any decor.
- Compact, only 13" H. x 10" W. x 7" D. A true bookshelf enclosure.
- American made.

Judged by B-A's audio experts as the most outstanding speaker value at this fantastic low price. True full range high fidelity quality, a compliment to any stereo system. Also ideal as extension speaker to any console or component system. Compact, only 13" H. x 10" W. x 7" D. Heart of system is wide range 8" high compliance speaker with heavy duty ceramic magnet and long throw voice coil. Handles up to 25 watts power giving true bass, exceptional mid-range and clean crisp highs. High

efficiency design permits fullest response from even the lowest powered amplifier. Magnificently styled solid walnut enclosure in oiled finish. Small size permits use on standard bookshelf, end table or any other confined area. Output impedance 8 ohms. Easy to hook-up, has standard RCA pin plug with 8 ft. speaker cable. Shpg. wt. 11 lbs.

No. 34B275. **\$29.95** 2 **\$55.00**
Each..... For.....

NEW B-A 12-INCH THREE-WAY DIFFAXIAL SPEAKER

ONLY SINGLE SPEAKER ASSEMBLY CAPABLE OF RESPONSE FROM 28-40,000 CPS



TWEETER FREQUENCY IN CYCLES PER SECOND

Far superior to any 12" speaker we have seen or heard at anywhere near this amazing low price. Made expressly for B-A by University; a leader over the years in the production of audio products. This amazing speaker utilizes newest acoustical developments including the exclusive diffusicone principle and the fabulous new sphericon super tweeter.

Entire audio spectrum from 28 to 40,000 cps are reproduced with rich deep true bass, full mid-range and sparkling highs. High efficiency permits full "Concert" volume without distortion using amplifiers of only modest power, yet speaker is so rugged it can be used safely with high-power amplifiers as well.

Specifications: Frequency response 28-40,000 cps. Sphericon tweeter is flat within 2 db to 22,000 cps. Power rating: 35 watts integrated program material. Impedance 8-16 ohms. Crossover 1000 cps (mechanical), 3000 cps (electrical). Dimensions: 13" overall dia., 6 5/8" deep. Mounting: front or rear of baffle. Special features: rigid, die-cast frame. Rigid cup baffle to eliminate tweeter-woofer interference. High compliance suspension with exclusive University critical edge damping. Shpg. wt. 11 lbs. **\$49.95** No. 34A61. *Guaranteed 5 Full Years (See Page '28)

\$72.00 VALUE

B-A SPECIAL PRICE

\$49.95

NO MONEY DOWN

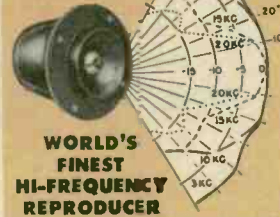
AMERICAN MADE FOR B-A BY UNIVERSITY LOUDSPEAKERS



FULL 5 YEAR GUARANTEE

WITH BRILLIANCE CONTROL

UTILIZES FAMOUS SPHERICON TWEETER



WORLD'S FINEST HI-FREQUENCY REPRODUCER

ABOVE SPEAKER IN BA'S FAMOUS DUCTED PORT "DIRECTOIRE" ENCLOSURE

Outperforms All Others of Comparable Size, Price

Enclosure is famous engineered ducted port developed to provide true big system response from bookshelf size enclosure. Reinforces bass end to give the deep rich sound from even the lowest bass notes of a pipe organ.

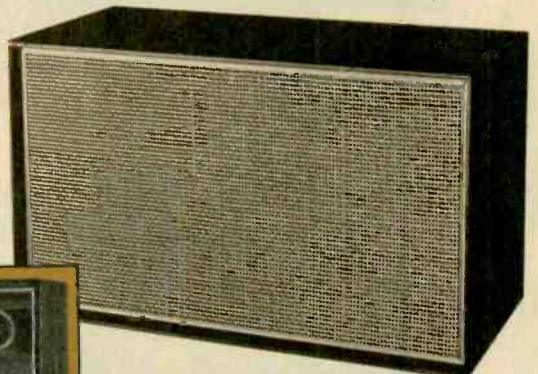
Rigidly constructed of 3/4" American walnut veneer for resonance free performance. Furnished with long heavy ducted tuned port. All four sides are elegantly finished in Swedish oil walnut. Front is covered in attractive grille of interwoven cane, highlighted with gold strands. Size of enclosure is only 14" H. x 24" W. x 12" D. Speaker is famous BA-12" 3-way diffaxial, made exclusively for B-A by University Loudspeakers. When incorporated with the "Directoire" every outstanding feature of this speaker is permitted to perform at its optimum. The 28-40,000 cps range is reproduced with its fullest presence. Rigid diecast construction of speaker when mounted to heavy 3/4" baffle board eliminates any possibility of distortion, often a problem with lighter weight type of enclosures. Handles full 35 watts of integrated program material without breakup, while still providing exceptional full range sound with even the lowest powered amplifiers.

No. 49A135. Shpg. wt. 40 lbs. Net Each. **\$82.00** For **\$159.95**
 "DIRECTOIRE" ENCLOSURE only as listed above. Handles 8" or 12" speakers. No. 40C98. Shpg. wt. 28 lbs. Net Each. **\$39.95**

COMPLETE **\$82.00** EACH

TWO FOR

\$159.95



BEAUTIFUL AMERICAN WALNUT ENCLOSURE

THE KARLSON ENCLOSURE KITS

FOR 8, 12 AND 15-INCH SPEAKERS

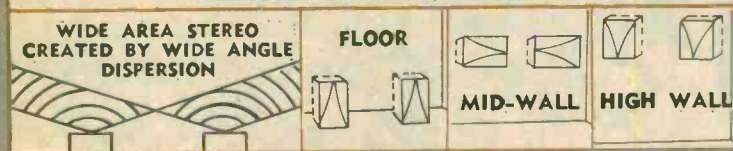
MADE EXCLUSIVELY FOR B-A

REQUIRES LESS POWER, PROVIDES MORE DYNAMIC RANGE

- Ordinary systems 10 times their size cannot produce sound with such enormous panoramic presence.
- Actually better than a horn enclosure 30 ft. long and 12 1/2 ft. in diameter at the mouth.

CHOSEN FOR USE AT N.Y. WORLD'S FAIR

SUGGESTED SPEAKER PLACEMENTS



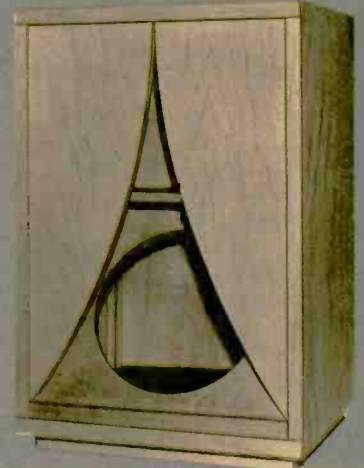
IF FACTORY ASSEMBLED WOULD COST \$42.60

\$19.95 Complete with grille fabric

8-IN.

SAVE 50% ASSEMBLE IT YOURSELF

EASY-TO-BUILD



Truly the connoisseurs choice. Small enough to fit the average bookshelf yet gives a quality of reproduction and extended bass response totally beyond the normal capabilities of a one foot enclosure. With any good 8" speaker produces a bass range normally attributed to large 15" systems. Their wide-area stereo presentation and tonal definition are also typical of the Karlson transducer perfection. When placed on their backs near a wall, sound seems to come from the entire wall. Small size and big performance of these enclosures makes them adaptable to almost any use. Uses Karlson transducer front loading combined with special back loading. Provides fundamental coupling to 1/2 speaker resonance. No tuning required. Matched loading provides very smooth rich bass and practically eliminates cone break up and rim resonances. Also minimizes cone motion giving true to pitch bass and unexcelled transient response. Amplifier loading is resistive efficiency 40% with average speaker. A dynamic range up to 100 db without distortion is normal. Fundamental loading extends down to 2/3

the speaker free field resonance. Smooth response down to 40 cps obtainable with B-A's quality speakers. Dispersion for all speakers is uniform for all frequencies within a solid angle of 120° tilted 30° upwards. Size 17 1/4" L. x 11 3/4" W. x 10" D. 1/2" panels. Wt. approx. 14 lbs. **\$19.95**
 No. 40B223. Deluxe Karlson Unfinished 8" Enclosure Kit. Net.....
 FOR 12" SPEAKER. Size 24 3/4 x 16 3/4 x 13 3/4". Similar to 8" Unit above but with 3/4" panels. Dynamic range of 110 db without distortion is normal. If factory assembled would cost \$99.95. Shpg. wt. 50 lbs. **\$49.50**

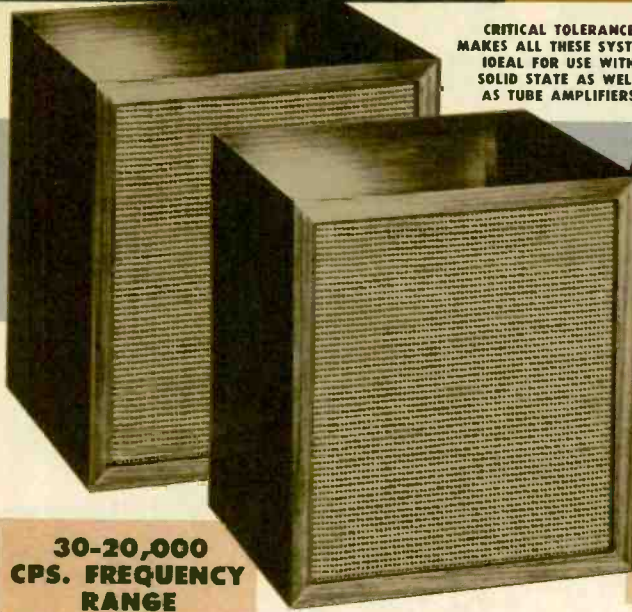
No. 40A221. Net Each.....
 FOR 15" SPEAKER. Size 22 1/2" W. x 33" H. x 18" D. Similar to 8" Unit above but with 3/4" panels. Actually better than a horn enclosure 30' long and 12 1/2' in diameter. Dynamic range up to 120 db without distortion is normal. May be adapted for 12" or 10" speakers. If factory assembled would cost \$129.95. Shpg. wt. 60 lbs. **\$69.50**
 No. 40A222. Net Each.....

B-A's NEW 3-AND 4-WAY SPEAKER SYSTEMS

CUSTOM MADE BY ONE OF AMERICAS LEADING HI-FI SPEAKER MAKERS

B-A EXCLUSIVE

THESE FANTASTIC LOW PRICES MADE POSSIBLE ONLY BY B-A's GIANT PURCHASING POWER!



CRITICAL TOLERANCE MAKES ALL THESE SYSTEMS IDEAL FOR USE WITH SOLID STATE AS WELL AS TUBE AMPLIFIERS

B-A SPECIAL
\$39⁹⁵
 NOTHING DOWN

NEW 8-INCH 3-WAY SPEAKER SYSTEM

- Heavy 3/4" hardwood cabinetry.
- Engineered to B-A's exacting specifications.
- 3 1/2" hard back tweeter and brilliance control.
- Beautiful oiled walnut finish.

An incomparable value! Superior in performance to speaker systems selling for much more than this low, low price. Not to be confused with low price systems selling anywhere near this price. Provides amazing highs from the 3 1/2" hard back tweeter, smooth mid-range from the whizzer and inimitable bass from the heavy duty 8-inch speaker.

Enclosure of heavy 3/4" oiled walnut hardwood is tuned to provide the optimum performance over the entire frequency range. Compact size only 16" H. x 11" D. x 11" W. Ideal for bookshelf, table top or for use anywhere fine quality sound is required in a small space.

Specifications: Frequency range 30-20,000 cps. Voice coil impedance 8 ohms. Power handling capacity 15 watts. Shpg. wt. 17 lbs. No. 40C196. Special Each.....**\$39.95**

**30-20,000
CPS. FREQUENCY
RANGE**

**IT'S REALLY
COMPACT, ONLY...**

**16 INCHES HIGH
11 INCHES DEEP
11 INCHES WIDE**

NEW B-A's 12-INCH 4-WAY SPEAKER SYSTEM

FREQUENCY RESPONSE 25CPS TO BEYOND AUDIBILITY!

- Heavy 3/4" hardwood enclosure.
- Compact 24" W. x 17" H. x 11" D.
- Beautiful oiled walnut finish.
- Brilliance control.

B-A SPECIAL
\$49⁹⁵
 NOTHING DOWN



NEW B-A's DELUXE HEAVY-DUTY 12-IN. 4-WAY SPEAKER SYSTEM

**THE ULTIMATE IN
HIGH FIDELITY SOUND**

- Power handling capacity 30 watts.
- Frequency response 20 to 25,000 cps.
- Brilliance control for personalized listening enjoyment.
- Beautiful oiled walnut enclosure.

B-A SPECIAL
\$59⁹⁵
 NOTHING DOWN



Heart of system is famous makers 12 inch speaker providing fine bass, whizzer supplies upper mid-range with lower end of mid-range supplied through specially designed 6 inch mid-range speaker. Super 3 1/2" tweeter provides finest high range coverage. Brilliance control permits adjustment to personal listening requirements. All of these precision components have been assembled into a specially tuned enclosure to provide the fullest response possible. Compact size with absolutely no compromise in quality was accomplished through special engineering techniques. Would be a fantastic value even at considerably more than this low, low B-A price! Beautiful oiled walnut cabinetry... a plus attraction to any decor, a complement to any high fidelity stereo system. For shelf or floor use, finished on all four sides. Specifications: Frequency range 25 cps to beyond audibility. Impedance 8 ohms. Shpg. wt. 40 lbs. Power handling capacity 20 watts. No. 40C197. Special Each.....**\$49.95**

B-A's sound specialists have done it again! Our engineering associates couldn't believe it possible... but our own sound men came up with it... the most fantastic speaker system yet for only \$59.95 Our management was so impressed by this unit that they have permitted us to make the following offer: If you don't believe this is the best speaker system for anywhere near this low, low price after hearing it, B-A will refund your purchase price plus transportation charges both ways.

Extra heavy duty 12 inch woofer, low mid-range heavy duty 6 inch speaker, high frequency whizzer, and super 3 1/2" ultra high frequency tweeter in a 3/4" solid wood tuned enclosure. Brilliance control adjusts for personalized listening. Beautiful oiled walnut finish on four sides makes this enclosure suitable for use on shelf or floor. Dimensions: 24" W. X 17" H. X 11" D. No. 40C198. Shpg. wt. 50 lbs. Special Each.....**\$59.95**

B-A SAVES YOU MORE ON SPEAKER SYSTEMS!

BOOKSHELF 3-WAY SPEAKER SYSTEM



- Extended bass.
- Full mid-range.
- Crisp highs.
- 20 watts power capacity.
- High Efficiency.

AMERICAN MADE
\$24⁹⁵
 NO MONEY DOWN

By popular demand a 3-way system to give even greater performance than B-A's exceptional value 2-way system listed below. Larger size 11" H. x 24" W. x 6" D. cabinet plus 8" heavy duty Alnico V woofer, 6" mid-range and 4" tweeter provide smooth response over audio spectrum of from 20-20,000 cps. Ideal size lends itself for use in bookshelves, on table or on floor, either vertically or horizontally. Extra strong heavily reinforced enclosure is made of 1/2" solid wood in oiled walnut. Internal bracing is screwed and glued in to eliminate any possible vibration. Construction is of quality usually found only in the much more expensive systems. Back is 1/2" chipwood scientifically ported for optimum response. Full 20 watt handling capacity yet operates excellently on even the smallest amount of power.

Beautiful cone grille fabric is enriched by gold threads running through it. Readily connected to any 8 ohm source by 2 terminal strips on back. American made. No. 34A323. Shpg. wt. 18 lbs. Net Each.....**\$24.95**

FANTASTIC NEW MINI HI-FI SPEAKER SYSTEM

NO MONEY DOWN

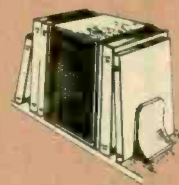
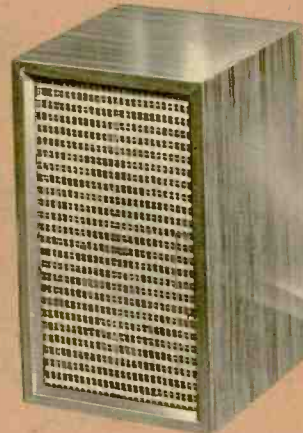
\$19⁹⁵

PAIR \$38.50

A NEW DIMENSION IN SOUND

SOUND QUALITY
 UNSURPASSED
 BY COMPACT SPEAKER
 SYSTEMS SELLING FOR
 OVER \$55.00

- Small size, only 10" H. x 6" W. x 6 5/8" D.
- Fits anywhere!
- Frequency response 40-20,000 cps.



Only 10" H. x 6" W. x 6 5/8" D. . . fits anywhere, bookshelf, table, etc. Provides depth and brilliance never before possible in a speaker system this small. High efficiency requires small power to drive. Works perfectly with any tube or solid state component. True bass response from the specially designed heavy magnet woofer. Clear crisp highs provided from highly efficient tweeter. Ideal for wide range mono, perfect for compact stereo systems. Freq. resp. 40-20,000 cps. Designed for 8 or 16 ohms input.

348110 \$19.95 Pair \$38.50
 Spec. Ea. For...

HI-FI 8-IN. SPEAKER & ENCLOSURE

\$11⁹⁵ WITH VOLUME CONTROL

FITS ANYWHERE—HANGS ON WALL OR SITS ON TABLE

- Amazing bass.
- Picture frame front.
- Lightweight and easily movable.

**GENUINE HARDWOOD CABINETS
 IN OILED WALNUT FINISH**



Sounds much bigger and more expensive than it is. Slim, unobtrusive enclosure fits anywhere . . . on floor, wall, bookshelf or table. Lightweight and portable, it is easily carried from room-to-room. B-A's audio experts were amazed by its truly high-fidelity performance—bass with impact, clear mid-range, and clean highs. High efficiency type not to be confused with similar low efficiency speakers. Includes 8" speaker with Alnico V magnet. Front mounted volume control permits stereo balance and room level adjustments. Distinctive picture frame front styling. Oiled walnut finish matches cone grill cloth. 10 watt power capacity covers even large rooms. 20-12,000 cps, 8 ohms. 4 3/8" thin x 11 3/4" x 11 3/4". 8 1/2" cable. American made. Shpg. wt. 6 lbs. No. 34A73. B-A Special, Net Each.....**\$11.95**

COMPACT 2-WAY SPEAKER SYSTEM

Use Horizontally or Vertically **\$16⁹⁵**

- True Hi-Fi, 20-20,000 cps.
- High efficiency type.
- Easily movable.
- Solid construction.



Concert hall "Big Sound" from a genuine two-way speaker system in a compact enclosure . . . all at B-A's special budget price. Selected by our own audio specialists for its smooth, pleasing 20-20,000 cps high-fidelity range. Gives realistic high-efficiency performance even with low power sound sources. Use horizontally or vertically on floor, bookcase, or table. Easily carried from room to room, or outdoors. Consists of powerful 8" bass reproducer and 3 1/2" tweeter in a scientifically engineered enclosure. Port in 3/8" hardwood chip-board back, accentuates bass response. Decorous slim line styling. Cabinet is solidly constructed with 1/2" hardwood and glued joints. Fine grain cone grill cloth complements oil walnut finish. Size 5 3/4 x 9 3/4 x 18". 8 ohms. 8 1/2" cable. American made. Shpg. wt. 9 lbs. No. 34A72. B-A Special, Net Each.....**\$16.95**

NOISELESS 4-INCH "WHISPER FAN"

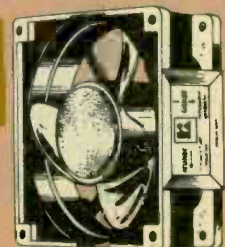
Beat the heat that wrecks the set! At last a truly silent air mover. Mounts in cabinet or compartment of hi-fi, stereo, TV, ham gear, studio or industrial equipment, etc.—circulates cool currents of air through chassis. Reduces costly failures of "hot" components such as tubes, transformers, filter condensers; minimizes drift; stabilizes overall performance; prevents rust formation and settling of dust. A low-cost investment that saves \$\$\$, time, and annoyance.

Noiseless and static-free, it does not interfere with sound reproduction or radio reception. Compact (4 1/2" sq. x 1 1/2" D.) to fit any enclosure, requires only 4 1/8" round mtg hole. Mounts to either push or pull air. Economical 7 watt motor has long-life pre-lubricated bearings, operates for pennies a year. Sturdy reinforced plastic frame. Complete with mounting hardware. 1800 RPM. 60 CFM. 115 V. AC, 60 cycles. No. 5C125. wt. 3 lbs. Each.....**\$14.95**

CIRCULATES COOL AIR THRU HI-FI, TV, STEREO, ETC.

\$14⁹⁵

- Reduces service troubles.
- Prevents rust or dust.
- Speech interference level—18 db.
- Unbelievably thin 1 1/2" venturi block mount.



MORE BIG MONEY-SAVING VALUES . . . LATEST DESIGN . . . FINEST QUALITY SPECTACULAR NEW HIGH FIDELITY SPEAKERS

MADE FOR B-A BY UNIVERSITY LOUDSPEAKERS

B-A 8-INCH 2-WAY HIGH FIDELITY SPEAKER

\$17⁹⁵

Best 8-In. Buy
COMPARE THE PRICE
... THE SPECS ...
AMAZING QUALITY
& PERFORMANCE



Powerful $\frac{3}{4}$ lb. ceramic magnet.
Freq. response 70-12,000 cps.
30 watts power handling capacity.

BUILT

TO PRECISE B-A REQUIREMENTS

Fantastic 8" 2-way speaker features an unusually smooth wide band response. Custom built to B-A's exacting specifications by University Loudspeakers, a foremost manufacturer of the finest high fidelity speakers.

A 2-inch diameter voice coil is coupled to a dual cone system. The low frequency section utilizes a curvilinear diaphragm which has a controlled response to 1500 cps. The high frequency radiator is driven through a mechanical crossover to provide smooth response throughout the treble range. Voice coil precision working clearances are protected against corrosion by electroplating. It is extremely shallow only $2\frac{1}{2}$ " overall depth. Being of such design it can either be front or rear mounted in an enclosure or in walls using standard dimension studding.

Specifications: Freq. resp. 70-12,000 cps. Power handling capacity, 30 watts. Imped 8 ohms. Nominal resonant freq. 55 cps. Crossover freq. 1500 cps. Dimensions: $8\frac{1}{4}$ " dia., $7\frac{1}{8}$ " baffle opening, $2\frac{1}{2}$ " deep. Shpg. wt. $5\frac{1}{2}$ lbs.

No. 34B261. *Guaranteed 5 Full Years. **\$17.95**

NEW B-A 12-INCH COAXIAL HIGH FIDELITY SPEAKER

B-A SPECIAL
\$21⁹⁵



TWO FOR STEREO COSTS LESS THAN A SINGLE COMPETITIVE SPEAKER

FREQUENCY RESPONSE 35-14000 CPS HANDLES 20 WATTS PROGRAM MATERIAL

Designed to provide the finest full range reproduction at the lowest possible price. Has heavy duty die-cast frames, the hallmark of fine loudspeakers. Two cones divide the sound, one for maximum bass reproduction and a second smaller cone for efficient mid-range to high-frequency performance. A unique feature is that 2-in. dia. electroplated voice coil. Contains deep voice coils, conductor remains in air gap even on longest excursions, preventing non-linear operation characteristics of wide diameter, short throw coils. Low silhouette frame for easy mounting in walls or ceilings.

Specifications: freq. resp. 35-14,000 cps. Program capacity 30 watts; 40 watts peak power. Resonance 45 cps in free air. Sensitivity rating: 43 db EIA. Crossover: mechanical, at 1500 cps. Imp. 8 ohms; Mounting: $4\frac{1}{4}$ " holes equally spaced on $11\frac{1}{2}$ " circle. Fits $11\frac{1}{8}$ " baffle opening.

Size $12\frac{1}{8}$ " dia. x $3\frac{5}{8}$ " deep behind panel. Net Wt. $5\frac{1}{2}$ lbs. Shpg. wt. $7\frac{1}{2}$ lbs. No. 34B262. *Guaranteed 5 Full Years. **\$21.95**

NEW B-A 12-INCH 3-WAY HIGH FIDELITY SPEAKER

B-A SPECIAL
\$28⁹⁵



EXCEPTIONAL SOUND REPRODUCTION AT SURPRISING LOW COST

FREQUENCY RESPONSE 35-40,000 CPS HANDLES 30 WATTS PROGRAM MATERIAL 40 WATTS PEAK

WITH SPHERICON TWEETER

Deep rich bass and clean clear treble from two cones . . . plus smooth peak-free highs from the famous sphericon tweeter. Such frequency response with easy to listen to sound was previously only available in higher priced speakers. The impressive list of "high-priced" features includes a new ceramic magnet, plus 2" voice coil on the woofer for larger excursions of the diaphragm with low distortion . . . rugged die-cast frame to ensure perfect alignment of all moving parts. Versatile: mounts in high fidelity speaker enclosures, in the wall or even in a closet. Its wide dispersion makes placement far less critical than ordinary speakers—even for stereo!

Specifications: Freq. resp. 35-40,000 cps. Power handling capacity 30 watts IPM. Crossover frequencies: mid-range—1500 cps; tweeter—4500 cps.

Imp. 8 ohms. Nominal resonant freq. 45 cps. Dimensions $12\frac{1}{8}$ " dia., $11\frac{1}{8}$ " baffle opening, $3\frac{7}{8}$ " deep. Shpg. wt. 9 lbs. No. 34B263. *Guaranteed 5 Full Years. **\$28.95**

***5-YEAR GUARANTEE ON ALL B-A LOUDSPEAKERS MADE BY UNIVERSITY, AGAINST DEFECTS IN MATERIALS OR WORKMANSHIP JUST RETURN TO US FOR FULL REPAIR OR REPLACEMENT.**

B-A'S NEW ELEGANT SPEAKER ENCLOSURE



BLENDS BEAUTIFULLY WITH MODERN MEDITERRANEAN OR PROVINCIAL DECOR

\$89⁹⁵ EACH

IDEAL FOR END TABLE USE

TAKES ANY 12" SPEAKER

AMAZING SOUND REPRODUCTION

A MASTERPIECE OF CRAFTSMANSHIP

Truly a work of art . . . so richly styled it will add prestige to any furniture setting. Only the finest selected solid woods have been used. Grilles are made from the finest fret-work produced anywhere. Walnut enclosure is made of solid walnut with an oiled finish. The fruitwood unit is finished in a rich pecan finish. Every enclosure is a hand made product by one of America's finest manufacturers of cabinetry. Horn type interior takes any 12" speaker. Ideally suited for use with either of the 12" speakers listed above or any other 12" speaker of your preference. Size 22" high by $20\frac{1}{2}$ " wide. Shpg. wt. 75 lbs. No. 40A43. Choice of Walnut or Pecan Finish. Less Speaker. Each **\$89.95**

**BENJAMIN
MIRACORD**

**PRESENTING THE VERY ULTIMATE
IN MODERN RECORD
PLAYBACK EQUIPMENT**

the **MIRACORD 50H**

\$149⁵⁰
LESS BASE
AND
CARTRIDGE

**CONCEIVED WITH THE IDEA OF
CREATING THE FINEST AUTO-
MANUAL TURNTABLE EVER PRODUCED**



The Miracord 50H was designed exclusively for those who want the very finest in record playback instruments. Every known design feature and facility has been included in the Miracord 50H. Its greater distinction is the many exclusive features added to the design to raise its standard of performance above the accepted norm for automatic units.

Automatic or Manual is an easy one-step operation. You can play one record side continuously or play stack of up to ten. The motor starts when the tone arm is moved toward the record, whether you do it manually or by simply pressing the button marked with the record size.

The **push-button console** is the gentlest ever developed, and the easiest to operate. Only the lightest touch of a single button selects and starts the automatic function desired. For instance, when you push the "12" button the turntable starts revolving at 33 $\frac{1}{3}$ RPM, and the tonearm moves exactly to the starting groove on your "12" record.

Tonearm—new balanced design and bearing suspension reduces total lateral friction to less than 0.4 gram. Resonance is sharply reduced by the use of square cross-sectional contour and acoustically isolated counterweight. Movement of the tonearm is actuated by a vernier drive which provides convenient non-slip control for balancing tonearm and cartridge mass.

Interchangeable cartridge insert accepts all standard cartridges, no soldering required. Cartridge makes positive contact with internal spring-loaded terminals. **Stylus overhang adjustment** allows the 50H to locate the stylus at the exact distance from the pivot prescribed for optimum tracking accuracy and playback performance. The tonearm will track any cartridge at its recommended stylus force setting to less than 1/2 gram.

Papst hysteresis motor assures you of broadcast studio quality by providing "locked-in" speed accuracy. It drives the turntable and record at the correct playing RPM, maintaining constant motion regardless of voltage variation.

Built-in cueing device permits the stylus to be located in any selected groove in the record. Operation is simple and precise, totally independent of the tonearm and turntable mechanism.

Illuminated speed indicator on the push-button clearly shows which of the 4-speeds (78, 45, 33 $\frac{1}{3}$ and 16 $\frac{2}{3}$ RPM) you are using.

No. 30A136. Miracord 50H. Less Cartridge and Base. Net Each..... **\$149.50**
No. 30A137. Miracord 50H with Shure M44E Elliptical Stylus. Net Ea..... \$149.51
No. 30A138. Miracord 50H with Pickering V15/ATE-2 Elliptical Stylus.....\$149.51
No. 30A140. Miracord 50H with ADC 809/E Elliptical Stylus. Net Each.....\$159.50

**BENJAMIN
MIRACORD**

**AN EXCITING NEW CONCEPT IN
RECORD CHANGERS**

the **MIRACORD 40A**

\$99⁵⁰
LESS BASE

**WITH MATCHED ELAC 240 FACTORY
INSTALLED CARTRIDGE**

- Heavy 12-inch turntable platter.
- Dynamically balanced tonearm.
- Famous Miracord "feather-touch" push-buttons.
- Plays records manually or automatically—singly or in sequence of up to 10 records.



The Miracord 40A is supplied with factory-installed Elac 240 cartridges as standard equipment. Factory installation means correct installation. It means that the cartridge is "right" for the unit, and is correctly angled and positioned in the arm to insure optimum tracking accuracy and playback performance. The Elac 240 is a mono-stereo transducer, developed for use with automatic turntables. Based on the moving magnet principle, and equipped with a diamond stylus.

OTHER FEATURES INCLUDE:

Heavy 12 inch turntable platter, lathe turned from solid one-piece die castings. Teflon-encased, ball bearing races insures smooth, steady, unwavering rotation.

Dynamically balanced tonearm exhibits no sensitivity to turntable tilt. Will track any cartridge at recommended stylus force settings at below 1 gram.

"Feathertouch" push-buttons. The lightest touch of a button is all it takes to put the mechanism into automatic play or reject. The arm responds gently, tenderly. No jumping, skipping or skating.

The motor is a 4-pole induction type on the 40A. The 40H is equipped with a Papst Hysteresis motor that insures broadcast studio performance regardless of

voltage variations.

Interchangeable Insert accepts all standard cartridges, no soldering is necessary. As the retainer is slipped into the arm, it makes instant, positive electrical contact. Shpg. wt. 16 lbs.

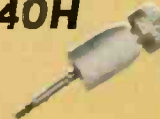
No. 30A98. Miracord 40A with factory installed Elac 240 Magnetic Mono-Stereo Diamond Stylus. Less Base. Net Each..... **\$99.50**
No. 30A103. Miracord 40A with Shure M44E Elliptical Stylus. Net Ea.....\$99.51
No. 30A105. Miracord 40A with Pickering V15/ATE-2 Elliptical Stylus.....\$99.51
No. 30A110. Miracord 40A with ADC 809/E Elliptical Stylus. Net Each.....\$109.50

MIRACORD 40H. Same as model 40A but with Papst Hysteresis motor as described in the 50H above.

No. 30A111. Miracord 40H. Less Cartridge and Base. Net Each..... **\$110.00**
No. 30A112. Miracord 40H with Pickering V15/ATE-2 Elliptical Stylus..... \$110.01
No. 30A115. Miracord 40H with Shure M44E Elliptical Stylus. Net Each.....\$110.01
No. 30A120. Miracord 40H with factory installed Elac 240 Cartridge.....\$115.00
No. 30A113. Miracord 40H with ADC 809/E Elliptical Stylus. Net Each.....\$120.00

ACCESSORIES FOR MODELS 50H, 40A AND 40H

No. 30B125 RB2. Recessed Base (all models). Net Each.....\$6.95
No. 30B161 OWB-1. Standard Base (all models). Net Each.....\$11.95
No. 30A127 DC-2. Plastic Dust Cover (all models). Net Each.....\$5.95
No. 30B163 SA-383. Automatic 45 RPM Spindle (all models). Net Each.....\$5.00



Garrard WORLD'S FINEST

MADE IN GREAT BRITAIN

SPECIAL 1¢ SALE EXTRA BONUS

A PENNY MORE BUYS YOU ONE OF THREE CARTRIDGES OF YOUR CHOICE WITH LAB 80, MODEL 70MKII AND MODEL 60MKII



NEW
Garrard \$99.50
LESS CARTRIDGE AND BASE

LAB 80 MKII AUTOMATIC TRANSCRIPTION TURNTABLE

Now the New Lab 80MKII . . . the Famous Lab 80 brought to perfection . . . subtly but magnificently refined in appearance and engineering. All the Lab 80 developments remain, but in addition there are many new functional operating features. Features include automatic play of single records, hydraulically operated cueing device, new calibrated anti-skating control, new turntable mat with safety rings which protects the stylus should the dynamically balanced afromosia wood tone arm be lowered accidentally without a record on the turntable, new control center with fluted tabs, and many, many more. 2-speeds: 45 and 33 1/3 RPM. Dimensions: 17" left to right; 14 3/4" front to rear. 5 1/2" above and 3 1/2" below motor board. Shpg. wt. 20 lbs.

- No. 30B237. Lab 80MKII Less Cartridge and Base. Net Each.....\$99.50
- No. 30B240. Lab 80 MKII with Shure M3D Cartridge. Net Each.....\$99.51
- No. 30B227. Lab 80 MKII with Shure M44E Elliptical Stylus. Net Each.....\$99.51
- No. 30B228. Lab 80 MKII with Pickering V15/ATE-2 Elliptical Stylus. Net \$99.51
- No. 30B229. Lab 80 MKII with ADC 809/E Elliptical Stylus. Net Each.....\$104.50
- No. 30B230. Lab 80 MKII with Shure M75E Hi-Track Stereo Dynetic. Net \$109.50

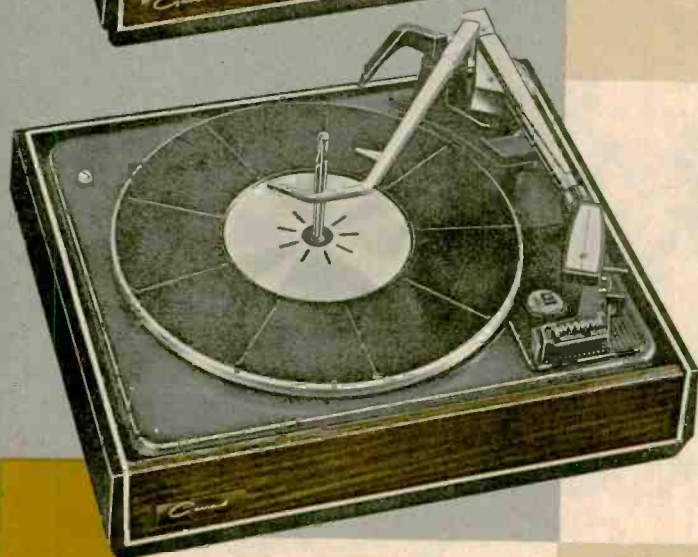


NEW
Garrard \$84.50
LESS CARTRIDGE AND BASE

MODEL 70 MKII AUTOMATIC TURNTABLE

The aristocrat of record playing units . . . it has been and still remains the most successful and satisfactory record playing instrument the high-fidelity field has ever known. The 70MKII retains the exclusive Garrard pusher platform record changing principle . . . a classic mechanism for gentleness and reliability. New advancements include an adjustable anti-skating control and a precision counter-balanced tonearm. Because of its low mass and flat geometry, the tonearm provides impressive advantages in tracking capability and achieves outstandingly clean reproduction with modern cartridges. 4-speeds, 16 2/3, 33 1/3, 45, 78 RPM. 100-130 volts, 60 cycles. Dimensions: 16 3/4" left to right, 14 1/8" front to rear. 6" above and 2 1/8" below motor board. Shpg. wt. 19 lbs.

- No. 30B275. 70MKII Less Cartridge and Base. Net Each.....\$84.50
- No. 30B279. 70MKII with Shure M3D Cartridge. Net Each.....\$84.51
- No. 30A232. 70MKII with Shure M44E Elliptical Stylus. Net Each.....\$84.51
- No. 30A234. 70MKII with Pickering V15/ATE-2 Elliptical Stylus. Net Ea. \$84.51
- No. 30C235. 70MKII with Shure M75E Hi-Track Stereo Dynetic. Net Each \$94.50
- No. 30B247. 70MKII with ADC 660/E Elliptical Stylus. Net Each.....\$89.50



NEW
Garrard \$44.50
LESS CARTRIDGE AND BASE

MODEL 40 MKII AUTOMATIC TURNTABLE

Handsomely designed 4-speed unit is actually an exceptionally compact automatic turntable at the price of an ordinary record changer. Designed to introduce a new concept of performance and versatility to systems where space must be considered. Despite its modest price it has all the qualities and functions of more expensive competitive changers. Features: cast aluminum counterbalanced tone arm. As in all other Garrard automatic turntables, two spindles, short for manual, long for automatic. Simple, accessible stylus pressure adjustment. Automatic intermix operation. 4-pole shaded "induction surge" motor.

- Dimensions: 14 1/8" left to right, 12 1/2" front to rear, 4 5/8" above and 2 7/8" below motor board. Shpg. wt. 9 lbs.
- No. 30A193. 40MKII Less Cartridge and Base. Net Each.....\$44.50
- No. 30B216. 40MKII with Shure M3D Cartridge. Net.....\$44.51
- No. 30B225. 40MKII with ADC 770 Cartridge. Net.....\$44.51
- No. 30B226. 40MKII with Pickering V15/AT2 Cartridge. Net.....\$44.51

SPG3 PRESSURE GAUGE

New, accurate, easy to use pressure gauge. Features a large legible scale, visible through a clear plastic window, with widely spaced gram markings. Complete with 5 gram brass weight for "zeroing" unit to insure utmost accuracy. Plastic scale pan is easy on delicate stylus and is of the swiveling balance type, guarantees sensitivity. Use with any cartridge or tone arm.
No. 16B595. Net Each.....\$2.95



Garrard DUST COVERS



Crystal clear styrene injection molded cover. Full size, can be in place while playing a stack of records. Coordinated with official Garrard bases.
No. 30A274. DC89. For Lab 80, 70, 88 Series and Type A. Net Each.....\$5.50
No. 30B12. DC10. For 20, 40, 50 and 60 Series, AT6 and Autoslim. Net Each.....\$4.50

- EXTRA PLUG-IN SHELLS—LESS CARTRIDGE
- No. 30B251. M8. For Lab 80 and 70 Series. Each.....\$2.50
 - No. 30C211. M7. For 20, 40, 50, 60 Series. Each.....\$1.75

AUTOMATIC TURNTABLES



SHURE
M3D



PICKERING
V15/ATE-2



SHURE
M44E

YOUR CHOICE OF ONE
OF THESE THREE
FAMOUS CARTRIDGES!

Garrard

NEW
Garrard \$74.50
LESS CARTRIDGE AND BASE

MODEL 60 MKII AUTOMATIC TURNTABLE

Richly endowed with engineering features, refined to assure excellent reproduction with the latest ultra sensitive cartridges. Dynamically balanced tone arm is the most advanced construction. Resonance and rumble has been further eliminated by a new resilient counter weight mounting. The arm system will track flawlessly at 1/2 gram, adjustable by a new stylus pressure control assembly. Features: New manual cueing device, automatic intermix; 4-speeds: 16 2/3, 33 1/3, 45 and 78 RPM. Dimensions: 15 3/8" left to right, 13 1/8" front to rear, 4 7/8" above and 2 7/8" below motor board. Shpg. wt. 12 lbs.

No. 30C202.	60MKII Less Cartridge and Base. Net Each.....	\$74.50
No. 30B252.	60MKII with Shure M3D Cartridge. Net Each.....	\$74.51
No. 30B253.	60MKII with Shure M44E Elliptical Stylus. Net Each.....	\$74.51
No. 30B254.	60MKII with Pickering V15/ATE-2 Elliptical Stylus. Net Ea.....	\$74.51
No. 30B255.	60MKII M75E Hi-Track Stereo Dynetic. Net.Each.....	\$84.50



NEW
Garrard \$54.50
LESS CARTRIDGE AND BASE

MODEL 50 MKII AUTOMATIC TURNTABLE

Exciting new 50MKII at a low price but with qualities comparable to the most expensive automatic turntables. Features an excellent performing, lightweight tubular type tone arm, with a resiliently mounted, fixed position counterweight. The low mass shell will accommodate all cartridges and the stylus pressure is set by moving a pointer along a gauge marked in grams, conveniently located on the side of the arm.

A first at this amazing low price is the manual cueing and pause device operated by a simple lever. This automatic turntable intermixes records of any size as well as functions as a manual player.

Specifications: 4 speeds: 16 2/3, 33 1/3, 45 and 78 RPM. Minimum cabinet dimensions: 14 7/8" left to right, 12 1/2" front to rear, 4 5/8" above and 2 7/8" below motor board. Shpg. wt. 9 lbs.

No. 30C200.	50MKII Less Cartridge and Base. Net Each.....	\$54.50
No. 30C188.	50MKII with Shure M3D Cartridge. Net Each.....	\$54.51
No. 30C199.	50MKII with ADC 770 Cartridge. Net Each.....	\$54.51
No. 30B256.	50MKII with Pickering V15/AT2 Cartridge. Net Each.....	\$54.51



NEW
Garrard \$37.50
LESS CARTRIDGE AND BASE

MODEL SP-20 4-SPEED MANUAL RECORD PLAYER

4-Speed manual record playing unit from Garrard. Ideal for manual playing records through high fidelity systems. Compact and efficient, recommended for quality audio-visual applications.

High demand for a unit of this quality and low price has brought this unit into being. This player should not be compared with other low price, single play turntables as durability and ruggedness have been fully engineered into it, to provide years of trouble-free service.

Features interchangeable plug-in head for any cartridge, magnetic or ceramic. Full size weighted turntable. Automatic return of arm to rest and shut-off after play. Arm is semi-counterbalanced with adjustable stylus pressure. Compact size only 14 3/8" left to right, 12 1/2" front to rear, 3 1/2" above and 2 1/8" below motor board.

Complete with line cord, 2 audio cables, plug-in shell.	
No. 30A194. SP20 Less Cartridge and Base. Net Each.....	\$37.50
No. 30B257. SP20 with Shure M3D Cartridge. Net Each.....	\$37.51

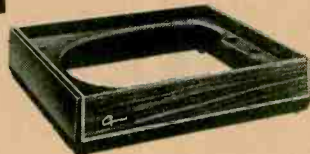


COORDINATED BASES BY...

Made of simulated ebony and walnut and highlighted with silver trim. Lightweight, strong and durable, an attractive companion accessory which enhances the appearance of each Garrard model. Can be used on top of furniture or housed in cabinetry. Provisions for easy mounting of drawer slides have been built into the underside of the base.

No. 30A196. CB8. For 70, 88 Series and Type A.	\$5.50
Net Each.....	\$5.50
No. 30B197. CB9. For Lab 80 Series. Net Each.....	\$5.50
No. 30A198. CB10. For 20, 40, 50, 60 Series, AT6 and Autoslim. Net Each.....	\$4.50

Garrard



MOUNTING BOARDS

Smooth sanded unfinished wood mounting boards. Overall size 16x18". For use in cabinet mounting. Can be trimmed to size.

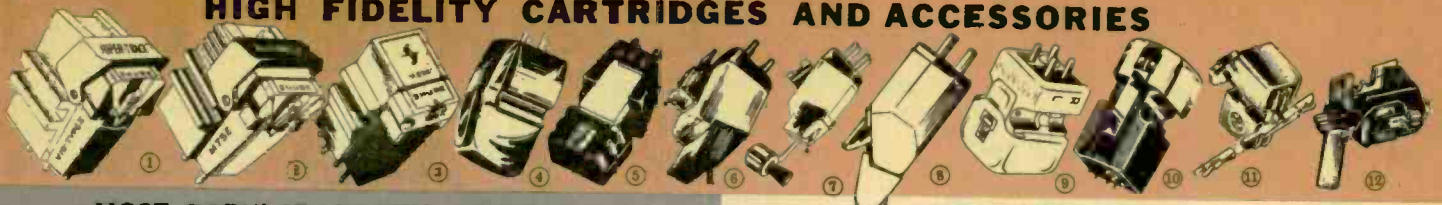
Stk. No.	Mfg. No.	Fits Models	Each
30B286	MB8	70, 88, A	\$2.25
30B250	MB9	Lab 80	2.25
30B206	MB10	20, 40, 50, 60, AT6, Autoslim	2.25

45 RPM AUTOMATIC SPINDLES

30C239	LR59	Lab 80	\$5.95
33D83	LR53	70, 88, A	5.95
30A195	LR520	40, 50, 60, AT6, Autoslim	3.80



HIGH FIDELITY CARTRIDGES AND ACCESSORIES



MOST POPULAR STEREO CARTRIDGES

① **SHURE V-15 TYPE I DYNATIC WITH ELLIPTICAL STYLUS**
A vastly superior cartridge designed for the most critical audiophile. Manufactured under newly developed, unprecedented controls, inspections and techniques to provide "perfectionist" reproduction quality. Elliptical stylus tracks at 15°, retracts into cartridge when accidentally dropped or bounced. Built-in stylus guard. Response 20-20,000 cps; output 3.5 mV; separation 25 db; diamond stylus dimensions .0007" x .0002". Tracking force 3/4 to 1 1/2 grams. In beautiful hanc-rubbed walnut chest.
No. 60A411. Each **\$67.50**

② **SHURE M75E HI-TRACK DYNATIC WITH ELLIPTICAL STYLUS**
Provides exceptional purity of music reproduction. Designed for use in the finest quality manual and automatic turntables. Retractable elliptical .0007" x .0002" 15° diamond stylus for excellent tracking. Built-in stylus guard. Response 20-20,000 cps; separation 25 db; output 6.6 MV. Tracks from 3/4 to 1 1/2 grams.
No. 60A412. Each **\$39.50**

③ **SHURE M55E DYNATIC WITH ELLIPTICAL STYLUS**
Developed for use in fine quality high fidelity systems with tone arms designed to track at 3/4 to 1 1/2 grams. Produces astonishing distortion free sound. Diamond elliptical stylus retracts into cartridge when excessive force is applied. Tracking angle 15°, response 20-20,000 cps; 6 MV output at 1,000 cps; separation over 25 db; stylus dimensions .0009" frontal radius, .0002" side contact radii.
No. 60B200. Each **\$35.50**

④ **SHURE M44E DYNATIC WITH ELLIPTICAL STYLUS**
Designed for use in automatic turntables requiring a cartridge that will track in the 1 3/4 to 4 grams range. Diamond stylus tracks at 15°, retracts into cartridge when excessive force is supplied. Response 20-20,000 cps; separation 25 db; 9.3 MV output. Stylus dimensions .0009" x .0007".
No. 60A413. Each **\$34.50**

⑤ **SHURE M7/N21D DYNATIC**
Tap rated M7 cartridge with extraordinarily compliant N21D diamond stylus. Frequency response 20-20,000 cps; 4 MV output voltage; 20 db separation. Tracking force 2 grams.
No. 60B151. Each **\$17.55**

⑥ **SHURE M3D DYNATIC**
This stereo dynamic cartridge is the first choice of music lovers for both automatic changer and turntable use. 20-20,000 cps response, 20 db separation, 5 MV output. Highly compliant diamond stylus tracks at 3-5 grams.
No. 60B155. Each **\$15.75**

ADC STEREO CARTRIDGES

Uniquely designed cartridges using "years ahead principle" to provide ultra-high compliance and amazingly flat response through the limits of the audio spectrum. Stylus retracts into cartridge when excessive force is applied. Stylus assembly slips out for quick, easy replacement. Frequency response of each 10-20,000 cps; separation 30 db, 50-8,000 cps, all have 15° vertical tracking angle.

⑦ **ADC-650/E with Elliptical Stylus.** For automatic turntables and changers capable of operating at tracking forces of 1 1/2 to 3 grams. 8 MV output; Diamond elliptical stylus (.0003" x .0007").
No. 60C28. Each **\$25.50**

⑧ **ADC-77D.** For good quality record changers that track from 2 to 6 grams. 8 MV output voltage, .0007" diamond stylus.
No. 60B17. Each **\$17.95**

⑨ **ADC-809/E WITH ELLIPTICAL STYLUS.** Perfected and optimized for use in the finest quality automatic turntables. Tracking force 1 1/2 to 3 grams. 8 MV output. Diamond elliptical stylus (.0003" x .0007").
No. 50A417. Each **\$32.50**

⑩ **PICKERING V 5/AME-2 WITH ELLIPTICAL STYLUS**
Super-lightweight, micro-magnetic cartridge with Pickering's exclusive "Floating Stylus" and patented replaceable V-Cuad stylus assembly that protects the record and diamond tip as it plays. Tracking pressure 3/4 to 1 1/2 grams. 15° vertical tracking angle. Ideal for manual, and late model automatic turntables. Response 20-20,000 cps; 5.5 mV output; 35 db separation.
No. 50A404. Each **\$39.95**

⑪ **V15/AME-3 "DUSTAMATIC".** Similar to above with built-in record brush. Cleans record grooves in advance of the stylus—improves stability by preventing tone arm from "skating". Response 10-25,000 cps; 5 MV output; 35 db separation; tracks at 15°; tracking force 3/4 to 1 1/2 grams.
No. 50A405. Each **\$44.95**

⑫ **PICKERING V15/ATE-2 WITH ELLIPTICAL STYLUS.** For use in fine quality automatic turntables. Response 20-20,000 cps, 6.9 MV output, 35 db separation; tracks at 15°. Tracking pressure 2 to 5 grams.
No. 50A406. Each **\$34.95**

⑬ **V15/ATE-3 "DUSTAMATIC".** Similar to above with built-in record brush. Response 10-25,000 cps, 6 MV output, 35 db separation, tracks at 15°, 2 to 5 grams tracking force.
No. 50A407. Each **\$39.95**

⑭ **PICKERING V15/AT-2.** Primarily designed for automatic turntables that operate with lighter tracking forces. Response 20-20,000 cps, 6.9 MV output voltage, 35 db separation, tracks at 1 to 5 grams.
No. 50C22. Each **\$24.95**

EMPIRE 888 SERIES ELLIPTICAL CARTRIDGES

Exclusive conical magnet structure reduces stylus tip mass, lowers overall weight of cartridge (weigh only 7 grams) for maximum efficiency and extremely high compliance. Channel separation at each more than 30 db, output voltage 8 MV per channel. All have 15° vertical tracking angle.

⑮ **EMPIRE 888 SE.** Designed for use in high quality manual and late model automatic turntables. Response 5 to 32,000 cps, .3 x .7 mil bi-radial elliptical diamond stylus; tracking force 1/2 to 3 grams.
No. 50A400. Each **\$44.95**

⑯ **EMPIRE 888 PE.** Similar to above, has 8 to 30,000 cps frequency response, .2 x .9 mil bi-radial elliptical diamond stylus, tracking force 1/2 to 3 grams.
No. 60E4. Each **\$39.95**

⑰ **EMPIRE 888E.** For use in good quality automatic turntables and changers. Response 10 to 30,000 cps, .4 x .9 mil elliptical diamond stylus, tracking force 3/4 to 6 grams.
No. 60A401. Each **\$34.95**

GE STEREO CARTRIDGES

The GE VR Series Stereo magnetic Cartridge offers high compliance, wide and consistent channel separation, wide-range frequency response on both channels, triple mu-metal shield against all possible hum sources.

⑱ **MODEL VR1000-7.** This popular stereo cartridge offers the finest tonal response of stereo music. Flat response between 20 to 20,000 cps at 2 grams tracking force. .7 mil diamond stylus.
No. 60B156. Special, Net Each **\$10.49**

⑲ **MODEL VR-1000-5.** Same fine quality cartridge as above but with .5 mil diamond stylus.
No. 60B157. Model VR-1000-5. Special, Net Each **\$12.49**

60B158. Model DR-7D. Dia. Stylus for VR-1000-7. Each **\$8.83**
60B160. Model DR-5D. Dia. Stylus for VR-1000-5. Each **\$8.20**

⑳ **MODEL VR-225.** For professional type tone arms. Response 20-20,000 cps, 6 MV output, 30 db separation. Tracking force 2 to 4 grams.
60A68. .5 mil diamond stylus, Net Each **\$10.38**

VR II VARIABLE RELUCTANCE HI-FI CARTRIDGES

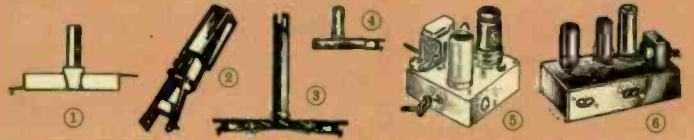
Frequency response from 20-20,000 cps, slim design and plug-in connections. Tracks at only 6 grams. Triple or single speed clip-in stylus. .001 for 33 1/2-45 RPM; .003 for 78 RPM "D" for Diamond Tip and "S" for Sapphire. Pre-amp listed below is required.

Stk. No.	GE Cart.	Application	Tip	Net Each
⑳ 20B249	4G-040	Single-Play	.0035	\$5.85
㉑ 20B250	4G-041	Single-Play	.0015	5.85
㉒ 60B144	4G-061	Single-Play	.001D	8.20
㉓ 20B248	4G-050	Triple-Play	.0015-.0035	7.61
㉔ 60B141	4G-052	Triple-Play	.001D-.0035	9.97

DUOTONE "ACOS" STEREO CARTRIDGE

Exclusive "Floating Needle Action" nullifies needle talk, allows greater compliance. Foolproof turnover mechanism places stylus at a perfect 45° to each record face assuring flawless, balanced reproduction in stereo as well as monoaural. Completely compatible for all types of turntables and changers. Response 40-15,000 cps., output voltage 1 volt. Tracking force 2-4 grams, separation 25 db. .7 mil diamond, 3 mil sapphire stylus.
No. 60A76. Model GPS73SD. Net Each **\$4.95**

REPLACEMENT STYLI FOR GE CARTRIDGES



Stk. No.	Model	Tip	Net Each
60A66.	VR222	.7 mil Diamond	\$4.77
60A65	VR221	.5 mil Diamond	5.46

Stk. No.	Model	Tip	Net Each
20B227	4G-015	1 Mil Sapphire	\$1.57
20B229	4G-035	3 Mil Sapphire	1.57
60B121	4G-01D	1 Mil Diamond	4.09

STYLI FOR OLDER RPX CARTRIDGES

Stk. No.	Model	Tip	Net Each
① 20B653	RPJ-010A	Triple Play	.0015-.0035
② 60A113	RPJ-013A	Triple Play	.001D-.0035
③ 60A146	RPJ-01D	Single Play	.001D
④ 60A149	RPJ-015	Single Play	.0015
⑤ 60A151	RPJ-035	Single Play	.0035
⑥ 60A109	*RPJ-004	Single Play	.001D
⑦ 20B547	*RPJ-005	Single Play	.0015

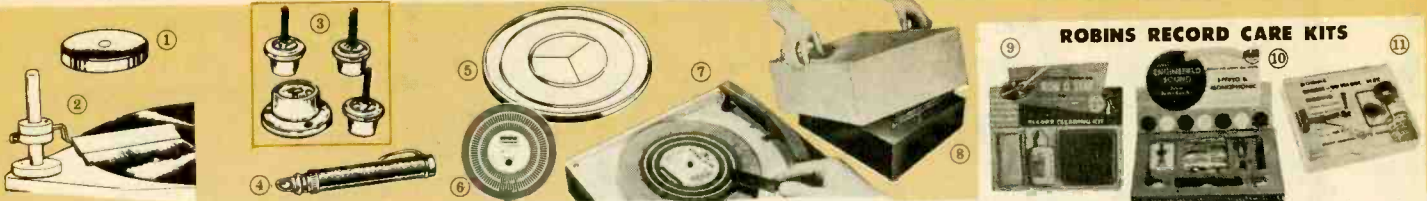
*For RPX040 and RPX041 not interchangeable with clip-in stylus.
⑧ **MODEL UPX-003C MONAURAL PHONO PREAMPLIFIER.** Perfectly matched unit for above cartridges as well as any magnetic cartridge. Automatically provides RIAA compensation on both LP and stereo records. Also equalized for mike input with "Phono-Mike" switch furnished. 33 db gain on mike input. Complete with 7025 tube, input phono jack, output lead with phono plug, and AC cord. 3 5/8" W. x 3 3/8" L. x 3 3/4" H. Far 115 V. AC.
No. 20B35. Model UPX-003C. Net Each **\$11.95**

⑨ **SHURE M65 STEREO PREAMPLIFIER.** Self powered dual preamplifier for stereo magnetic cartridges, stereo tape decks, or microphones. Rotary switch selects any one of 4 inputs. Magnetic Phono—Tape—Microphone or special. Frequency response 25 to 15,000 cps. Input impedance 47,000 ohm an all functions. Has hum control, two ECC83 tubes, phono jacks for input and output. Channel separation 40 db. Size 6 7/8" L. x 4" W. x 3 1/4" H. Shpg. wt. 3 lbs. Rated 6 watts at 117 V. AC 60 cycles.
No. 22A354. Model M65. Net Each **\$24.00**

REPLACEMENT DIAMOND NEEDLES FOR CARTRIDGES AT LEFT

Stk. No.	Type	Make	For Cartridge No.	Tip	Net Each
60A60	N3D	Shure	M7D-M3D	.7 Mil	\$7.95
60B162	N21D	Shure	M3D-M7/N21D	.7 Mil	12.50
60B53	D3807AT	Pickering	U38AT-U38ATG.7	7 Mil	9.90
60B87	S880P-6RD	Empire	880P	.6 Mil	12.95
60B86	S880-7RD	Empire	880	.7 Mil	9.95
60A380	D1500AME-2	Pickering	V15AME-1-2	Elliptical	19.90
60C23	D1507AT-2	Pickering	V15/AT-2	.7 Mil	10.95
60A384	N55E.	Shure	M55E	Elliptical	20.00
60C31	R-6/E	ADC	660/E	Elliptical	18.00
60A389	R-7/E	ADC	770	.7	9.00
60B18	S888PE-ERD	Empire	888PE	Elliptical	15.95
60A402	S888SE-ERD	Empire	888SE	Elliptical	22.45
60A403	S888E-ERD	Empire	888E	Elliptical	17.45
60A408	D1500AME-3	Pickering	V15/AME-3	Elliptical	24.95
60A409	D1500ATE-2	Pickering	V15/ATE-2	Elliptical	17.95
60A410	D1500ATE-3	Pickering	V15/ATE-3	Elliptical	22.50
60A418	R-8/E	ADC	809/E	Elliptical	18.00
60A414	N44E	Shure	M44E	Elliptical	18.00
60A415	N75E	Shure	M75E	Elliptical	22.00
60A416	VN15E	Shure	V-15 Type II	Elliptical	27.00

ROBINS PHONO AND RECORD CARE ACCESSORIES



- ① **45 RPM RECORD ADAPTOR.** Fits over standard spindle, allows playing of 45 RPM records. Durable plastic. No. 24A298. Type SA-45. **Net Each 15c**
- ② **CLEAN-SWEEP RECORD BRUSH.** Large camel's hair brush sweeps entire tracking surface of record removing dust and other particles. Pressure sensitive adhesive on base for easy mounting . . . swings out of the way when not in use. Wt. 6 oz. **Net Each \$3.60**
- ③ **PHONO LEVEL KIT.** A level turntable or record changer is a must for stereo reproduction. Kit includes 4 adjustable rubber feet, circular 4-way spirit level. Wt. 5 oz. **Net Each \$2.34**
- ④ **STYLUS MICROSCOPE.** Precision ground lenses for clear magnification of stylus, slot at end of scope for holding stylus steady. Pen type pocket clip. No. 11B241. Type MX-1. **Each \$1.65**
- ⑤ **RIM-REST PHONO CUSHION.** Has graduated ridges for 7", 10" and 12" records. Fits all turntables, 12" dia. supple Polyethylene. No. 11A1006. Type PC-33. Wt. 6 oz. **Each \$1.35**

- ⑥ **METAL 4-SPEED PHONO STROBE DISC.** Checks 16, 33 1/3, 45 and 78 RPM speeds. Wt. 2 oz. No. 11A1009. Type PSD-4. **Each 99c**
- ⑦ **PHONO STROBE AND LIGHT KIT.** Checks speed of changer. No. 20B390. Type ESK-5. Wt. 6 oz. **Each \$1.20**
- ⑧ **CHANGER AND TURNTABLE COVERS.** Soft plastic covers protect from dust, moisture, etc. For Garrard, Webcor, VM, Miracor, etc. No. 11B187. Type CC-1. 13x13 1/2x8". Shpg. wt. 6 oz. **Ea. \$1.17**
- No. 11B189. Type CC-3. Size 22x16 1/2x9". **Each \$1.50**
- ⑨ **"ROB-O-STAT" RECORD CLEANING KIT.** Includes super-soft velvet and foam applicator mitt for cleaning record grooves, 1/2 oz. bottle of Anti-Static detergent, pad for cleaning velvet side of mitt. No. 11B257. Type ESK-6. Wt. 1/2 lb. **Each \$1.20**
- ⑩ **DELUXE RECORD CARE KIT.** Everything needed for optimum record care. Contains stylus pressure gauge, stylus microscope, turntable level, record cleaning cloth, Kleeneedle brush, record brush, tone arm lift. No. 11B261. ESK-3A. Shpg. wt. 1 lb. **Each \$2.70**
- ⑪ **"DISK-WHISK-KIT"**. Triple action automatic record cleaner, clips on to tone arm. Floating nylon brush and mohair cylinder loosens and removes dirt from grooves while record plays. Bottle of anti-static fluid contains silicone lubricant and detergent. Shpg. wt. 1/2 lb. **Each \$1.50**

POPULAR PHONO & RECORD ACCESSORIES



- ① **RECORD BRUSH AND TONE ARM LIFT**
A unique combination of a fine record brush that sweeps records clean in front of needle, plus a tone arm lift for easy handling of tone arm. Clips on any arm. Mfg. list 98c. No. 24A299. **Net Each 59c**
- ② **GARRARD PRESSURE GAUGE**
This accurate, easy to read gauge features a large, legible scale, visible through a clear plastic window, with widely spaced gram markings. Has a 5-gram brass test weight which is used as a standard, so that the scale can be zeroed for utmost accuracy. Can be used with any cartridge or tone arm. No. 16B595. Model SPG3. **Net Each \$2.95**
- ③ **ELECTRO-WIPE STATIC ELIMINATOR RECORD CLOTH**
Preserve your good records from harmful dirt and grit as well as static charge with one wipe! Eliminates record "pop and click" from vinyl attracted charges. Lubricates records for smoother needle operation, eliminates friction and static. Keeps grooves clean for true, clear fidelity, longer record life. Used by many broadcast stations and recording companies. No. 20C691. **Net Each 59c**
- ④ **ANTI-STATIC RECORD CLEANER**
For vinylite and all standard records. The aerosol spray action removes dust and deposits a microscopically thin film. The film grounds static electrically and makes records permanently dust free, it will no longer cling to the surface. This reduces surface noise and increases record life. No. 16B582. 5 Oz. Can. **Net Each 79c**
- No. 11B634. 8 oz. can. **Net Each \$1.08**
- ⑤ **75-POWER NEEDLE INSPECTION MICROSCOPE**
Precision made of finest optical parts. Wide angle lens shows a large, clear image of stylus, so that any wear or chipping can be instantly noted. The only sure way of protecting records against damage. Easily carried in shirt pocket. Only 3 3/4" long. No. 60A153. **Net Each \$1.49**

LEKTRSTAT RECORD CLEANING KIT



Entirely new approach to the care and cleaning of records, both LP and stereo. Actually cleans the grooves as well as the surface. Exclusive new formula features a non-gumming, antistatic liquid detergent in a plastic squeeze bottle, plus a special fine-grain cloth applicator which goes down into the record grooves to clean out abrasive dust, as well as remove static. Annoying hisses and crackles disappear like magic, music sparkles with new clarity. Adds new life and brilliance to the finest records. In handy plastic pouch. No. 11A9. Lektrstat Kit. **Net Each \$1.96**

ROBINS HIGH FIDELITY STOP-O-MATIC

AUTOMATICALLY SHUTS-OFF ENTIRE SYSTEM AFTER LAST RECORD PLAYS!



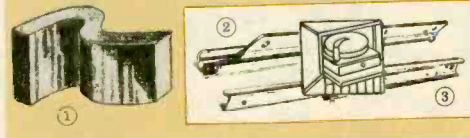
Now one can place a stack of records on the record changer with no worry about turning equipment off. Just plug AC cords of record changer and amplifier into "Stop-O-Matic". Special built-in device automatically shuts-off amplifier after last record has played. (Note: Changer must have automatic shut-off feature.) No. 33C31. For European Changers—Garrard, Col-laro, Thorens, etc. No. 33C32. For U. S. made changers—Webcor, etc. **Choice Each \$6.00**



YOUR CHOICE 59c



- ① **KLEENEEDLE BRUSH.** Mounts on side of changer under tone arm so that needle passes through brush on every change cycle. Blobs of dust are removed automatically after every record. No. 11B207. Type NB-1. **Net Each 59c**
- ② **METAL 3-SPEED PHONO STROBE DISC.** Checks 33 1/3, 45 and 78 RPM speeds. Wt. 3 oz. No. 11A999. Type PSD-3. **Each 59c**
- ③ **STYLUS PRESSURE GAUGE.** Accurately calibrated to measure stylus pressure from 1/2 to 8 grams. Wt. 4 oz. No. 11B190. Type SG-2. **Each 59c**
- ④ **PACKAGE OF 50 SNAP INSERTS FOR 45 RPM RECORDS.** Snaps in large hole of record for use on standard spindles of changers or players. No. 11A1002. Type PRA-50. Wt. 6 oz. **Package For 59c**
- ⑤ **TWO MIRACLE RECORD CLEANING CLOTHS AND CLIP-ON BRUSH.** Chemically treated cloths contain silicone. Cleans and lubricates records. Washable. Record brush clips on to tone arm, sweeps dust from records. No. 11A1000. Type PC-2. Wt. 4 oz. **All For 59c**
- ⑥ **THREE HI-FI STEREO RECORD CLOTHS.** Anti-static cleaning ingredient reduces formation of dust on records. Wt. 6 oz. No. 11A1001. Type PC-3. **3 For 59c**
- ⑦ **RECORD SAVERS.** Heavy, clear plastic envelopes to protect records from scratches, dust, oil and dirt. For 12" records. No. 11B185. Type E-15. **Pkg. of 15 For 59c**
- PKG. OF 144 FRICTION SPOTS FOR RECORDS (Not Illus.).** Thin 1/2" dia. polyfoam discs for placement on and around inner circumference of records. Stops slippage of records. Wt. 6 oz. No. 11A1005. Type PSF-1. **Pkg. For 59c**



AUDIO INSTALLATION ACCESSORIES

- ① **FIBERGLAS ACOUSTIC INSULATION.** Spun fiberglass material 1" thick eliminates standing waves and controls reverberation inside speaker baffles. Ideal for any acoustic insulation application. 24x60" size in plastic bag. No. 11A398. Type 30-356. **Each \$1.32**
- ② **SLIDE DRAWER HARDWARE.** Easy mounting of radio chassis, record changers, recorders, etc. in custom cabinets, record compartments of consoles, etc. Made of 1" aluminum. Overall length 13". Travel lgh. 9". Load capacity 30 lbs. Silencer spring eliminates vibration. Shpg. wt. 1 lb. No. 20A918. **Per Pair \$1.79**
- ③ **HEAVY-DUTY TYPE SLIDE DRAWER HARDWARE.** Made of 16 gauge steel. Load capacity 50 lbs. Otherwise as above. Shpg. wt. 2 lbs. No. 20A934. **Per Pair \$2.09**

**UNEQUALLED B-A
SMASH VALUE!**

WOLLENSAK 
**PROFESSIONAL
TAPE RECORDER**

**With STEREO RECORD
PLAYBACK PREAMPS
and
PLAYBACK AMPLIFIERS**

**NEVER BEFORE A TAPE TRANSPORT OF
SUCH SUPERIOR QUALITY . . . WITH SO
MANY PROFESSIONAL FEATURES!**

DARES ALL COMPARISON

B-A guarantees this to be the greatest value available anywhere on a professional tape transport. Just compare feature for feature with all others at B-A's extraordinary low price. It just can't be equalled.



**ALL AMERICAN
MADE!**

**REVOLUTIONARY
TAB CONTROLS**

Designed for ease of operation and flexibility of use. With these four tabs you have all record/playback functions at your fingertips.

A fine product, utilizing Wollessak's exclusive power-operated Tab Control Panel . . . the last word in flexibility and ease of operation, until now used only in Wollessak's finest and most expensive tape recorders. Tab Controls permit simultaneous recording on one channel and playback on the other for unusual and exciting special effects.

Built for reliable service, already well-known to Wollessak users, and sound reproduction to satisfy the most critical music listener. Stereo power amplifiers are excellent for monitor applications.

Records and plays 4-track stereo or mono at 3¾-7½ ips. Has separate volume and tone controls, and VU meters for each channel. Operates horizontally or vertically. Other advanced features are: fast forward and rewind with interlocking safety controls and automatic tape lifters; pilot light; monitor facility; self-adjusting brake system; built-in reel locks; automatic shutoff at end of tape; digital tape counter. Plays or records up to 6 hours stereo, 12 hours mono.

Frequency response: 50-17,000 cps ± 3 db @ 7½ ips; 50-8,000 cps ± 3 db @ 3¾ ips. Wow and flutter 0.3% max. RMS. Signal to noise ratio 45 db min. Power output, 6 watts (3 watts/channel EIA). Track width, ¼ track 0.040" wide. Inputs: mike, radio/phone each channel. Outputs: external speakers. Pre-amp (0.5-1.5 V.), each channel. Shpg. wt. 30 lbs. No. 31C239. Size 11¾x15.7x5¾". Each **\$119.00**

**REGULAR FAIR TRADED
PRICE WAS \$169.00
B-A'S SPECIAL PRICE . . .**

\$119.00

**NATIONALLY FAMOUS
MODEL 1281**

**SAVE \$50.00 WHILE
THEY LAST!**

- Separate VU record level meters for each channel.
- Digital counter.

3-SPEED HIGH FIDELITY STEREO TAPE DECK

**ONLY
\$59.95
WITH
BASE
NOTHING
DOWN**

**FINEST QUALITY
ENGLISH MADE!**

**AS USED IN RECORDERS
SELLING FOR \$150.00.**

**AT AN AMAZING LOW PRICE
NEVER BELIEVED POSSIBLE!**



- 3-Speeds: 1⅞, 3¾, 7½ ips.
- Takes up to 7" reels. • Digital counter.
- ¼-Track stereo playback, record and erase heads.
- Simple controls—fully interlocked to prevent accidental erase.
- Fast forward—fast rewind.

Most fantastic tape deck we have seen at anywhere near this low, low price! Our testing lab staff was amazed at the high quality. Even in much higher priced units they had not seen such low wow and flutter. Every control performs its function positively, with the feel of a quality built product.

Ideal for custom installation in existing equipment for playback of high fidelity mono or stereo pre-recorded tapes. May be connected directly into any amplifier with tape head input for stereo playback or may be used with B-A's Recording Preamp Adaptor (listed below) for making recording directly from your high fidelity or stereo amplifier.

Small compact size makes it possible to install in very close areas. Overall deck size: 12¼" W., 8¾" D.; 1½" above mtg. surface; 4¾" below mtg. surface.

Specifications: RMS wow and flutter; better than 0.15% @ 7½ ips., 0.25% @ 3¾ ips., 0.35% @ 1⅞ ips. Operates on 115 V. 60 cycles AC.

Tape head performance specifications: 4-track record-playback head; Track widths: 0.043" gap; 0.0001". Inductance: 0.11 hy. Output at 1 KC from EMI. Test tape TBT1 (7½"/sec): 0.56 mv. Record signal: 82 ua. Bias current 50 KC: 0.55 MA. Output from own recording at 7½"/sec.—1 KC: 1.7 mv. Output from own recording at 7½"/sec.—3 KC: 3.0 mv. (Quoted for Scotch Brand Tape, Type 111). Complete with AC Cord and Audio Cables. Shpg. wt. 12 lbs.

No. 31B22 With \$5.88 Walnut Base. **\$59.95**
Net Each.

RECORDING PREAMP-ADAPTOR. A self-powered compact unit designed by B-A's audio experts and built to our own specifications. This unit enables you to record stereo or monaural tapes with above tape deck through the tape inputs of your present high fidelity stereo amplifier. Contains all necessary input jacks, switches, bias oscillator circuit. **\$39.95**
No. 31C46. Special Each.

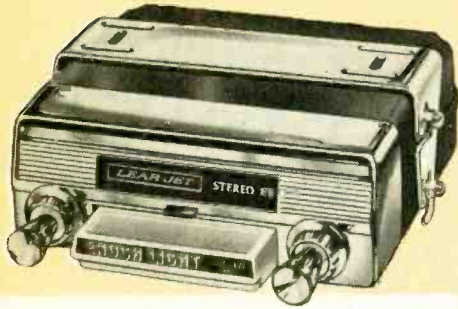
SENSITIVE CERAMIC MICROPHONE for above tape deck. Small and light-weight. Includes 5 ft. card. (Less plug), 2 required for stereo recording.
No. 20B600. **\$3.49** 2 **\$6.63**
Net Each. For.

**COMPLETE WITH \$5.88
WALNUT BASE NOW!**

LEAR JET
STEREO 8

8-TRACK TAPE CARTRIDGE STEREO SYSTEM
FINEST STEREO SOUND FOR CAR AND HOME

MOST MODERN WAY TO ENJOY RECORDED ENTERTAINMENT!



LEAR-JET AS-830-H
STEREO 8 TAPE PLAYER
FOR THE CAR

\$124⁹⁵ NOTHING DOWN

True stereophonic sound—1 hour and 20 minutes of thrilling, dimensional stereo play from each cartridge—envelopes your car, from speakers mounted in car doors. Fits any car, old or new. Operation is automatic. Cartridge simply pushes into player slot to start music. No threading. No rewinding. Continuous loop tape plays endlessly, changing to the next sound track automatically, or at your choice. Playing stops simply by partially removing cartridge. All solid state circuit, 16 transistors, 4 diodes, precision electronic tape drive speed control, less than 0.3% wow and flutter, tone, stereo balance and loudness controls. 4 watts (RMS) output per channel, less than 5% distortion. Impedance 4 ohms. For 12 V. DC negative ground operation only. Mounts easily under dash. 8" wide, 7 1/4" deep, 2 3/4" H. Wt. 11 lbs. No. 32C105. Less Speakers. **\$124.95**
Net Each.....

STEREO SPEAKERS FOR
AUTO INSTALLATION

SURFACE MOUNTING. 2 speakers in baffles. No. 32B109. Model AS-2. Pair For.....\$14.00
FLUSH MOUNTING IN-THE-DOOR with grilles. No. 32C108. Model AS-4. Set of 4 For.....\$14.95



LEAR-JET ASFM-830-H
FM AUTO RADIO WITH
STEREO 8 TAPE PLAYER

\$175⁰⁰ NOTHING DOWN

ADD TAPE STEREO AND WIDE-RANGE
FM AT THE SAME TIME!

Combines in one unit, an all solid state FM broadcast radio of superior quality and performance and the 8 track cartridge tape player described at left. Radio has automatic frequency control for finest drift-free FM tuning and when you want to change to FM multiplex an adaptor accessory can be added (write for specifications and prices). Comes with FM multiplex switch and light indicator. Volume and tone controls function for both radio and tape player. Has edge lighted tuning dial, range 88-108 MC. Circuit includes 22 transistors, 6 diodes, 7 tuned circuits, RF stage, double tuned IF's. High, 8 microvolts sensitivity. See specifications of tape player only at left for audio output and physical size. For 12 V. DC negative ground operation. Wt. 11 lbs. No. 32B136. Less speakers (at left). Net Each..... **\$175.00**

AM AUTO RADIO
WITH STEREO 8 TAPE PLAYER

In a single unit, a fine solid state AM auto radio and the Stereo 8 tape player. Radio has RF stage, AVC, manual tuning. 20 transistors, 6 diodes. For 12 V. DC negative ground. Wt. 11 lbs. Less Speakers. 32C106. Model ASR-830-H. Net Ea.... **\$149.95**



LEAR-JET HSA-900
STEREO 8 TAPE PLAYER
FOR YOUR HOME STEREO SYSTEM

\$79⁹⁵ NOTHING DOWN

PLAY YOUR FAVORITE CARTRIDGE MUSIC
SELECTIONS AT HOME TOO!

Small unit in high styled wood grained cabinet plays in horizontal or vertical position. Can be placed on top or hung from side or rear of your stereo furniture, with tape cartridge slot in most convenient position. Contains Stereo 8 tape drive, transistorized stereo pre-amp having output adjustable from 5 millivolts to over 1 volt RMS to drive your own power amplifier and speakers. Output impedance 1500 ohms. 6 transistors, 3 diodes. 9" wide, 10 1/4" deep, 3 1/4" H. For 115 V. 60 cy. AC operation. Wt. 13 lbs. No. 32C107. Net Each..... **\$79.95**

LEAR JET STEREO 8 SYSTEMS
ARE CONSTRUCTED TO
AIRCRAFT STANDARDS OF
HIGH QUALITY
AND PERFORMANCE

8-TRACK STEREO CARTRIDGE TAPES

TOP SELECTIONS FROM:

• RCA • COLUMBIA • DECCA • A&M • DOT • KAPP ETC.

Please Specify Stock No. 23B49. Manufacturer and Tape No. When Ordering
(Example: 23B49, RCA-1, No. P8S-1047)

Title and Artist	Mfg.	Tape No.	Each
Moon River, Andy Williams	Col.-1	18-10-0008	\$7.95
Days of Wine & Roses, Andy Williams	Col.-2	18-10-0014	7.95
People, Barbra Streisand	Col.-3	18-10-0020	7.95
Color Me Barbra, Barbra Streisand	Col.-4	18-10-0044	7.95
I Don't Wanna Lose You, Baby Chad & Jeremy	Col.-5	18-10-0074	7.95
Marty Robbins' Greatest Hits	Col.-6	18-10-0096	7.95
My Fair Lady, Soundtrack	Col.-7	18-12-0002	8.95
West Side Story, Soundtrack	Col.-8	18-12-0004	8.95
The Shadow Of Your Smile, Andy Williams	Col.-9	18-10-0114	7.95
Stand By Me, Earl Grant	Decca-1	6-4738	6.95
Too Many Rivers, Brenda Lee	Decca-2	6-4684	6.95
Golden Medleys, Guy Lombardo	Decca-3	6-4593	6.95
Golden Favorites, Wayne King	Decca-4	6-4309	6.95
A Taste Of Honey, Pete Fountain	Coral-1	6-57486	6.95
Cocktails With Cavallaro	Decca-5	6-8805	6.95
Licorice Stick, Pete Fountain	Coral-2	6-57460	6.95
The Lonely Bull, Tijuana Brass	A&M-1	L51-101	6.95
South Of The Border, Tijuana Brass	A&M-2	L51-108	6.95
Whipped Cream, Tijuana Brass	A&M-3	L51-110	6.95
What Now My Love, Tijuana Brass	A&M-4	L51-114	6.95
Look At Us, Sonny & Cher	Atco-1	L45-33177	6.95
Pearly Shells, Billy Vaughn	Dot-1	L15-25605	6.95
The Golden Millions, Lawrence Welk	Dot-2	L15-25611	6.95
Where Love Has Gone, Jack Jones	Kapp-2	L52-3396	6.95
Petula Clark In Love	Laurie-1	L36-2032	6.95
We Love Paris, Ray Charles Singers	MGM-2	L13-4165	7.95
Doctor Zhivago, Soundtrack	MGM-3	L13-6	7.95
This Is New, Righteous Brothers	Moonglow-1	L42-1003	6.95
Count Basie/Sarah Vaughan	Roulette-1	L22-52061	6.95
The Return of Roger Miller	Smash-1	L39-67061	6.95
Zorba The Greek, Soundtrack	Fox-1	L54-4167	7.95
Batman, TV Soundtrack	Fox-2	L54-4180	7.95
Shindig, Various Artists	Kapp-3	L52-3431	6.95
The Tijuana Brass Volume 2	A&M-5	L51-103	6.95
Modern Sounds In Country & Western	ABC-1	L33-435	6.95
Column 2, Ray Charles	Command-1	L30-867	6.95
Dimension 3, Enoch Light			



Title and Artist	Mfg.	Tape No.	Each
The Very Best Of Judy Garland	MGM-4	L13-4204	\$6.95
Johnny Rivers, Ricky Nelson, Randy Sparks	MGM-5	L13-4256	6.95
There Is Only One Roy Orbison	MGM-6	L13-4308	6.95
Jealous Heart, Connie Francis	MGM-7	L13-4355	6.95
Hear, Hear, The Searchers	Merc.-2	L37-60914	6.95
Freddie And The Dreamers	Merc.-3	L37-61017	6.95
Some Blue-Eyed Soul, Righteous Brothers	Moonglow-2	L42-1002	6.95
Songs Of The Islands, Hawaiian Surfers	Musicor-1	L56-3054	6.95
The Four Seasons Gold Vault of Hits	Philips-1	L41-600196	6.95
The Hulloballoos On Hulloballoo	Roulette-2	L22-25310	6.95
You Don't Have To Be A Baby To Cry, Caravelles	Smash-2	L39-67044	6.95
3rd Time Around, Roger Miller	Smash-3	L39-67068	6.95
The Cat, Jimmy Smith	Verve-1	L14-8587	6.95
Getz Au Go-Go, Stan Getz/Astrud Gilberto	Verve-2	L14-8600	6.95
Michelle, Billy Vaughn	Dot-3	L15-25618	6.95
People Get Ready, The Impressions	ABC-2	L33-505	6.95
Man From U.N.C.L.E., The Challengers	Crescendo-1	L15-2018	6.95
Our Day Will Come, Ruby & The Romantics	Kapp-1	L52-3323	6.95
Hank Williams, Jr. Sings Songs of Hank Williams	MGM-1	L13-4213	6.95
The Sweetheart Tree, Johnny Mathis	Merc.-1	L37-61041	6.95
Guitar Country, Chet Atkins	RCA-1	P8S-1047	6.95
Frankie Carle Plays The Great Piano Hits	RCA-2	P8S-1071	6.95
Class Of '65, Floyd Cramer	RCA-3	P8S-1070	6.95
So Tenderly, John Gary	RCA-4	P8S-1009	6.95
The Best Of Al Hirt	RCA-5	P8S-1011	6.95
They're Playing Our Song, Al Hirt	RCA-6	P8S-1093	6.95
The Pink Panther, Henry Mancini	RCA-7	P8S-1066	6.95
Moonlight and Roses, Jim Reeves	RCA-8	P8S-1020	6.95
Hello, Dolly, Soundtrack	RCA-9	O8S-1006	7.95
The Sound Of Music, Soundtrack	RCA-10	O8S-1001	7.95
South Pacific, Soundtrack	RCA-11	O8S-1003	7.95
My Favorite Chopin, Van Cliburn	RCA-12	R8S-1053	6.95
Grand Canyon Suite, Fiedler, Boston Pops Orch.	RCA-13	R8S-1033	6.95
Girl From Ipanema, Etc. Living Jazz	Camden-1	O8S-1009	4.95
Only The Big Ones, Floyd Cramer	RCA-14	P8S-1112	6.95
Mary Poppins, Soundtrack	Buena-Vista-1	O8BV-1001	7.95
He's So Fine, The Chiffons	Laurie-2	L36-2018	6.95

AMPEX

MODEL 6275

VIDEO TAPE RECORDER

RECORDS AND
PLAYS BACK
TV PROGRAMS,
LIVE ACTIVITIES
IN HOME
AND BUSINESS

FOR HOME, OFFICE
INDUSTRIAL AND
INSTITUTIONAL USES

WORKS WITH ANY
TV SET AS A
MONITOR

MINIMUM OF
500 LINES OF
RESOLUTION
ON CAMERA

TODAY'S QUALITY
VIDEO TAPE RECORDER
... COMPLETE WITH
EXCLUSIVE AMPEX
VIDEO CONTROL
CENTER



Now you can record and instantly playback any TV program... movie... sports events... news high-lights, etc. PLUS "live" filming of home or business activities... special occasions... meetings... speeches... training programs—virtually anything you want preserved in a permanent video tape.

Exclusive Ampex Videc Control Center permits your tapes, whether taken from a TV program or recorded live in home or business to be played over any existing TV set. Receive the pictures while they are actually being taped, play them back instantly and save them in your permanent library. Watch one program while you are recording another for future viewing. Tapes can be erased and re-used hundreds of times.

Video Tape Recorder/Reproducer in Walnut Case with

Video control center and 6 minute test pattern and reel. No. 40B318.

Model VR6275. Net. **\$1,495.00**

Video Tape Recorder/Reproducer in Portable Carrying Case, one 6 minute test pattern and reel. No. 40B319. Model VR6000. Net. **\$1,450.00**

Vidicon Camera with Optical Viewfinder, VTR Remote Control Unit and 25 MM F/1.4 Close Focus Lens. Includes tripod, cable, lens tissue, 2001 microphone without base and lavalier. No. 40B320. Model CC6450. Net. **\$589.95**

30 Minute Tape, min. length 1,475 ft. No. 40B321. 147-30. Net. **\$44.95**

60 Minute Tape, min. length 2,950 ft. No. 40B322. 147-60. Net. **\$59.95**

B-A CAN SUPPLY ALL AMPEX VIDEO TAPE AND PROFESSIONAL AUDIO TAPE RECORDING EQUIPMENT

DELUXE FM/AM-FM STEREO PORTABLE COMPONENT SYSTEM COMPLETE HOME ENTERTAINMENT IN COMPACT MODERN STYLING!



FOUR
DYNAPOWER
SPEAKERS

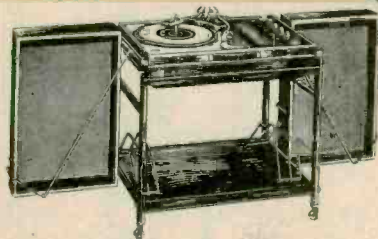
2-12 INCH
AND
2-3 INCH

SOLID STATE
CIRCUITRY
FOR INSTANT PLAY

- Dynapower speaker systems may be separated up to 20 ft. for greater sound separation.
- Fine quality vinyl laminated metal case.
- GE Man-Made Diamond Stylus.
- 14 watts music power.

NOTHING
DOWN

\$219⁹⁵



Portable Component System shown above on Deluxe Stand.

NESTS
TOGETHER
INTO A
SINGLE
UNIT FOR
CARRYING

Enjoy the wonderful world of stereo from records or from the FM/AM, FM stereo tuner. Separate dial is provided for AM and FM. Stereo star lights when you select a FM stereo station. General Electric deluxe automatic record changer has professional eleven-inch turntable. Accommodates up to six records for automatic use. Last record may be replayed or will shut-off at users discretion. Tonal/tonearm has built-in tracking pressure adjustment. Retractable ceramic cartridge features GE's Man-Made diamond stylus (see warranty opposite page) for 16 $\frac{2}{3}$, 33 $\frac{1}{3}$ and 45 RPM records. Synthetic sapphire for 78's. 14 watt solid state amplifier provides instant sound. Four audio controls for personalized listening pleasure: volume, treble, bass and balance.

45 RPM spindle and holder included with set. Operates on 110-125 V, 60 cycle AC. Size 22 $\frac{3}{4}$ " W, 13 $\frac{1}{2}$ " D, 15 $\frac{3}{4}$ " H. Carrying weight 38 lbs.

No. 40B268. Shpg. wt. 46 lbs. Net. **\$219.95**

Deluxe Stand holds above unit plus speakers. No. 40B269. Shpg. wt. 10 lbs. Net. **\$14.95**



40-WATTS
MUSIC
POWER



**THE
ULTIMATE
IN
PORTABLE
STEREOPHONIC
HIGH
FIDELITY**

**GENERAL ELECTRIC OPENS UP
A NEW WORLD OF SOUND AND
STYLE . . . FOR THE FIRST
TIME BIG 12-INCH DYNAPOWER
SPEAKERS IN A PORTABLE**

- These handsome units in genuine walnut veneer combine into one easily carried phonograph.
- Frequency. Resp. 40-18,000 Cps.

Every feature you could ask for. Console quality sound from a truly portable stereophonic phonograph. Four Dynapower speakers, one twelve inch and one three inch in each walnut speaker enclosure. Enclosures may be separated up to twenty feet for greater stereo sound separation. Powerful 40 watt peak music power stereo amplifier, all-solid state, provides instant sound, longer life and increased reliability. Four audio controls for personalized listening pleasure—Loudness, Treble, Bass and Balance. Famous General Electric automatic record changer with large 11" transcription type turntable accommodates six records for automatic play. Positive size-select indicator 12, 10 or 7 inch records. Changer will repeat last record or shut-off automatically at your discretion. GE exclusive Tonal 1 tonearm has adjustable tracking pressure. Retractable ceramic cartridge has "Man-made diamond stylus for 16 $\frac{2}{3}$, 33 $\frac{1}{3}$, and 45 RPM and a synthetic sapphire for 78's. Extra features include stereo headphone jack for private listening. Dimensions 15 $\frac{1}{2}$ " W., 13 $\frac{1}{2}$ " D., 15 $\frac{1}{2}$ " H. 110-125 V. AC. 45 RPM automatic spindle and holder included. Beautiful brown color. Carrying wt. 38 lbs., shpg. wt. 46 lbs.
No. 40B75. Special. **\$199.95**

**NOW TAKE THE FINEST
STEREO COMPONENTS
WITH YOU WHEREVER
YOU GO!**

\$199⁹⁵

**ALL
SOLID
STATE**

*Man-Made Diamond stylus with Lifetime Protection Plan. "General Electric Company agrees that if the G-E Man-Made Diamond Stylus proves to be defective or becomes worn so as to be unserviceable at any time during the lifetime of this phonograph, G-E Co. will replace such stylus upon return of the stylus and replacement card together with payment of a \$1.00 service and handling charge."



**HIGH FIDELITY STEREO
IN A SMARTLY STYLED
COMPONENT SET**



**TWO 8-INCH
CONSOLE
TYPE
SPEAKERS**

**POWERFUL SOLID-
STATE AMPLIFIERS**

\$99⁹⁵

**HERE'S A TRUE ADVENTURE
IN STEREO LISTENING
PLEASURE**

*Man-made diamond stylus with lifetime protection plan (see warranty above).



**HIGH
IMPACT
SCUFF-
RESISTANT
CASE**

**FREQUENCY
RESPONSE
50-14,000
CPS.**

Features powerful transistorized solid state amplifier with 4 audio controls, all located right up front for convenient operation. Controls include loudness for consistent bass and high frequency response regardless of volume. Separate bass and treble controls, balance controls for perfect stereo balance between the two speakers regardless of room position. Each speaker enclosure contains one eight inch Dynapower speaker which can be separated up to 12 feet for greater sound separation. GE record changer has eleven-inch turntable, accommodates up to 6 records for automatic use. Positive size select indicator for 12", 10", or 7" records. Changer can repeat play last record or shut off automatically. 45 RPM spindle and holder included. Retractable ceramic stereophonic cartridge with General Electric "Man-made diamond stylus for 16 $\frac{2}{3}$, 33 $\frac{1}{3}$, and 45 RPM and a synthetic sapphire for 78's. Speakers nest to top and bottom of playing unit to form easy carrying lightweight portability. Size 17" W., 17 $\frac{1}{2}$ " D., 14 $\frac{1}{2}$ " H. 110-125 V. AC. Attractive brown. Carrying wt. 26 $\frac{1}{2}$ lbs. Shpg. wt. 37 lbs.
No. 40B76. B-A Special. **\$99.95**

OUR FINEST STEREO HIGH FIDELITY PHONOGRAPH WITH FM-AM AND FM STEREOPHONIC MULTIPLEX RADIO

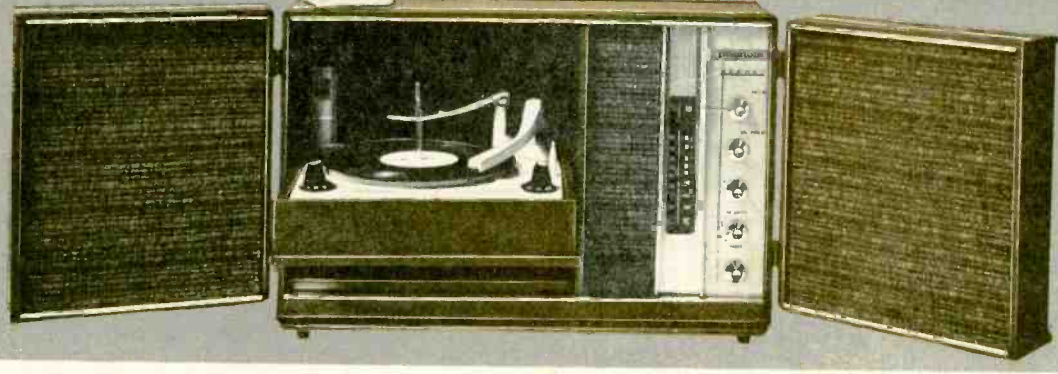
A COMPLETE PORTABLE STEREOPHONIC SYSTEM WHEREVER YOU GO!



B-A's LOW PRICE

\$179⁹⁵
NOTHING DOWN

- Superb tonal quality. Freq. resp. 70-16,000 cps.
- Diamond needle for all LP's—Mono and stereo.
- Magnificent 4 speaker system—two 8" woofers plus two 4" tweeters.



SOLID-STATE ALL TRANSISTOR AMPLIFIER AND TUNER



PHONO ONLY (Less Radio)
\$119.50

Completely modern . . . tops in performance, looks and usability. Has all the musical capabilities of an expensive stereo hi-fi console with the convenience of smaller size and portability. Provides exceptional performance from whatever the program source to please even the most critical listener. Faithfully reproduces stereo records and FM stereo broadcasts with all the depth and thrilling realism of the original performance. Adds new life and brilliance to mono records—receives static-free FM and sharp clear AM broadcasts.

Stereo Speaker Systems. Detachable swing-out wing enclosures each with large 8" bass speaker 4" high frequency tweeter. 12 ft. cord on each unit permits up to 15 ft. spacing for stereo separation.

4-Speed Stereo Record Changer. One of America's finest for dependable, trouble-free operation. Plays a stack of 7, 10 and 12" records intermixed of the same speed. Automatically shuts-off after last record. 45 RPM spindle included. High quality wide-range ceramic stereo cartridge with diamond needle for LP's.

Straight AC Powered Chassis. Provides 10 watts of stereo peak power with a frequency response of 70-16,000 cps. Has 5 controls: Balance/AFC, Dual

Tone/On-Off, Dual Loudness, and Selector. Dual controls permit individual level adjustment of each channel. Stereo light indicates when FM stereo is being received.

Cabinet in striking planet black and walnut grained vinyl with silver trim and knobs. Grille is multi-color blue-green providing a dramatic effect. Changer hides-away, conveniently swings down for playing. Overall size 25x13⁵/₈x14³/₄" H. Speaker cabinets each 12¹/₂x4¹/₄x14³/₄" H. Brackets included for modern wall mounting of entire unit. 110-120 V. 60 cy. AC. UL approved. Shpg. wt. 44 lbs.
No. 30B95. Net Each..... **\$179.95**

PHONOGRAPH ONLY less radio. Six speaker system, 2 6" twin-cone woofers, two 4" mid-range with high-frequency whizzer cones. Response 30-20,000 cps. Otherwise the same fine features as above. Size 22¹/₂x14¹/₂x14¹/₂". Shpg. wt. 40 lbs.
No. 30B96. Each..... **\$119.50**



PANASONIC LUGGAGE STYLE SOLID STATE STEREO PHONO WITH FM/AM RADIO

UNIVERSAL BATTERY OR AC OPERATION



- Separate 4-speaker system.
- 4-speed automatic Mini-changer.
- Beautiful luggage-style cabinet.
- Powered by 6 "D" size batteries or 115 V. 60 cy. AC.
- Small, compact size, only 7 5/16 x 8 11/16 x 13 5/8".

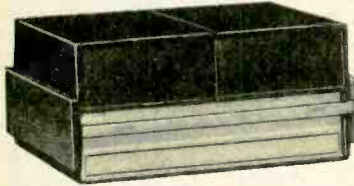
\$149⁹⁵

The ultimate in portable radio-phonos. More outstanding features than any comparable unit at anywhere near this low price. Features all solid state, 4 speed automatic Mini-Changer with automatic 45 RPM adaptor, ceramic stereo cartridge, flipover dual sapphire stylus, 4 separate controls; dual loudness, bass, treble and balance for complete flexibility. Four speaker systems: two 6x4", and two 3" speakers in two separate balanced enclosures . . . speakers are detachable with eight feet cables for up to 16 feet of stereo separation. Wide slide-rule dials makes tuning of stations easier and more accurate . . . whip antenna for strong and steady FM reception . . . convenient sure power with automatic switching of AC to batteries. 17 transistors and 7 diodes. Size 7⁵/₁₆, 18¹¹/₁₆, 13⁵/₈". Carrying wt. 22 lbs. Shpg. wt. 27 lbs.
No. 30A325. Each..... **\$149.95**

B-A's "BEST BUY" STEREOPHONIC PHONOGRAPH DELUXE SOLID-STATE HIGH FIDELITY COMPONENT ENSEMBLE

CREATED TO PROVIDE "NO-COMPROMISE"
SOUND QUALITY IN COMPACT SIZE . . .
TO FIT ANYWHERE . . . GO ANYWHERE

UNUSUAL FUNCTIONAL STYLING



Functional styling: 3 perfectly style - matched units assemble into one compact unit for ease of portability.

PRICED
WAY BELOW OTHER
FAMOUS-NAME SYSTEMS

\$139⁹⁵

AMERICAN
MADE

- 25-watt transistorized amplifier has full frequency range of 40-18,000 cps.
- World-famous Deluxe Garrard changer with low-mass tone arm tracks at 2.5 grams.
- 4 speakers . . . two woofers and two tweeters in resonant speaker cabinets.
- Master control panel has 5 audiophile controls.

Now! Save \$\$\$ and space too, with B-A's 1967 space-saver phonograph. People who "go for" the best musical reproduction they can get are enthusiastically buying up similar models at prices of \$200 and up.

It's a genuine component system with the unbeatable sound quality that true audiophiles demand . . . in walnut hardwood finish to match home furnishings . . . that "bundles-up" in seconds to go in-or-out of the house, or in the car for special occasions. Tremendous size reduction is possible because of solid-state amplifiers, much smaller than tube models of the same power; and the refreshing new "styled-for-use" concept of construction.

Deluxe Garrard Record Changer combines the features and performance of professional turntables with fully automatic play. 11" turntable is cushioned and precision-balanced, dynamically balanced motor has lifetime-lubricated bearings. Low-mass tone arm, retractable ceramic cartridge and diamond needle, float in the record groove with only 2.5 grams pressure, assuring long record life. Manual and 45 RPM spindles included.

Two 2-Way Speaker Systems in resonant tone chambers 14 1/2" wide, 10 3/4" high and 4 3/4" deep, sit on table or bookshelf, can be placed wherever you like for the best stereo effect. Each two-way speaker system contains a 6" woofer with a huge 9 oz. ceramic magnet, and a separate tweeter to reproduce all ranges of sound from vibrant bass tones to vivid highs.

Full 25 Watt Solid-State Stereo Amplifier has broad frequency range of 40-18,000 cps. It's ready to play the instant you turn it on. Cool operation increases life of amplifier.

5 Controls; Two loudness, Bass, Treble and Balance permits adjustment of any tonal combination, volume level, and stereo balance just the way you want it. 4 input jacks, two for Radio/TV, and two for tape recorder and 4 output jacks for speakers are provided.

110-120 V. AC only. Entire ensemble: 27 7/8" W., 10 1/2" H., 16" D. U/L approved. Shpg. wt. 44 lbs.
No. 30B144. Special Each.....**\$139.95**

IN FINE FURNITURE
CASE OF WALNUT WOOD



ARVIN SOLID STATE COMPONENT STEREO BUDGET STEREO HI-FI TO PLEASE THE AUDIOPHILE

Walnut wood trim for furniture look . . . Vinyl body for constant use.

This is the component-quality system you've always wanted . . . couldn't find room for . . . would have to buy a piece at a time . . . or both. It's startling news to find one like this priced under \$100.00, 50% or less the cost of the ones with the famous high-fidelity names. You can show its walnut elegance in any room, and let your friends compare the sound with their expensive stereo systems or consoles.

Economy version of B-A's "best-buy" stereo listed above, with many similar outstanding features:

4-Speed Deluxe Garrard Record Changer, with 11" turntable, is a favorite high-fidelity component. Tone arm rides in the record groove with extremely light pressure. Turnover ceramic cartridge has diamond needle.

Two-Way Speaker Systems. 6" woofers and tweeters with crossover networks combine to reproduce the full range of musical tones with sureness and power, remarkably like the best stereo systems.

Solid State Stereo Amplifier, runs cooler, lasts longer, and is lighter than tube units. Instant warm-up, it's ready to play the first record.

4 Amplifier Controls for Loudness, Balance, Bass and Treble adjust listening conditions in any degree to suit your personal taste. Input jacks for tape and tuner plus auxiliary tuner switch. 45 RPM spindle included. Genuine walnut veneer. 115 volt 60 cy. AC. Size 23" W., 8 1/2" H., 12 1/4" D.
No. 30B176.
Shpg. wt. 30 1/2 lbs. Net Each.....**\$119.95**

B-A
LOW PRICE

\$119⁹⁵

NOTHING DOWN

TWO-WAY
SPEAKER SYSTEMS
Woofer and Tweeter
in Each Housing



12-watt peak power
Music range
60-19,000 cps.



SOLID STATE HIGH FIDELITY STEREO PORTABLE PHONOGRAPHS



IRRESISTIBLE

Mustang

FOR THE GO-GO GROUP

\$59⁹⁵

Custom designed stand for extra convenience.

Slim, trim and youthful . . . right-up-front in performance too! An outstanding value in sound, looks, convenience and durability. General Electric 4-speed automatic changer with dual styli plays all records—stereo and monaural, all sizes 7, 10 and 12". 45 RPM spindle included. Automatically shuts-off or will repeat last record if desired. 9" turntable rubber matted for fullest record protection.

Solid state stereo amplifier requires no warm-up, plays instantly, three audio controls—separate right and left channel volume controls, and tone control—are conveniently mounted on front of changer. Detachable speaker wings, each with a 5 1/4" Dynacooustic speaker, can be separated from the phonograph up to 12 ft. for true stereo sound.

High-impact polystyrene cabinet folds-up for easy carrying—weight just 10 lbs. 19 1/2" W., 7 1/2" D., 12" H. 110-125 V. 60 cy. AC. Shpg. wt. 16 lbs.

No. 30A321.

Choice of Green or Ebony. Each. **\$59.95**

No. 30A322. Stand for above. Each. **\$5.77**



INCOMPARABLE

Trimline 400

FOR EXCEPTIONAL TONAL QUALITY!



DIAMOND STYLUS GUARANTEED FOR LIFE OF PHONOGRAPH

Just return to G.E. along with replacement card and \$1.00 for service and handling.

\$89⁹⁵

Truly magnificent . . . combines the fine listening pleasure of the concert hall with the convenience of true portability.

General Electric 4-speed automatic record changer with retractable ceramic stereo-phonographic cartridge features GE's exclusive Man-made diamond stylus for 16 2/3, 33 1/3 and 45 RPM records, synthetic sapphire for 78's. Plays all records—all sizes with choice of automatic shut-off or repeat after last record plays. 45 RPM spindle included.

Solid state stereo amplifier provides 14 watts peak power with full-range frequency response. Has four audio controls—loudness, treble, bass and balance—for personalized listening pleasure. Detachable speaker wings with large 8" Dynapower speakers can be separated from phonograph up to 12 ft. for desired stereo separation.

Fine quality metal case with vinyl laminated covering for lasting beauty. 24 1/2" W., 9" D., 14 1/2" H. 110-125 V. 60 cy. AC. Shpg. wt. 35 lbs.

No. 30A323.

Choice of Black, Brown or Green. Each. **\$89.95**



DETACHABLE SPEAKER ENCLOSURES

Arvin

SOLID STATE COMPACT

STEREO PORTABLE PHONOGRAPH **\$59⁹⁵**

Compact and handsome . . . truly stylish. Never before a completely self-contained portable stereo phonograph to compare in looks, convenience or versatility. At home its a custom designed 3-piece stereo system with detachable speaker cabinets that separate up to 20 ft. for exciting stereo sound. On the go it folds into a streamlined portable so compact and lightweight it will amaze you.

Uncompromising in sound quality. The instant play cool operating powerful AC solid state amplifier combines with two 4" stereo speakers to provide glorious room filling sound. Twin volume controls provide correct stereo balance.

The world famous BSR 4-speed automatic Mini-changer plays records of all sizes and speeds—monaural and stereo. Automatically shuts off after last record plays. 45 RPM spindle included. Turnover cartridge with dual sapphire styli. Rubber matted turntable to protect your treasured discs.

Attractive charcoal with silver trim. 19 3/4" W., 8" H., 10 3/4" D. 105-120 V. 60 cy. AC. Shpg. wt. 14 lbs.

No. 30B289. Each. **\$59.95**



CONSOLE-LIKE SOUND IN A SPACE AGE PORTABLE

Arvin

DELUXE SOLID-STATE COMPONENT

STYLE STEREO PORTABLE PHONOGRAPH **\$89⁹⁵**

- 4-Speaker stereo sound system . . . two big woofers and two tweeters.
- Deluxe changer with low mass tubular tonearm, 11" full size turntable, and diamond LP stylus.
- Separate volume, stereo balance, bass and treble controls.
- Frequency response 80-18,000 cps.

Delivers breathtaking console-like sound. Made possible through space-age solid state electronics which allows finest high fidelity performance from a compact component style portable. Powerful transistorized AC stereo amplifier plus matched 4-speaker system with electronic crossover networks assure flawless reproduction. Freq. response 80 to 18,000 cps. Speakers are detachable and separate up to 20 ft. for dramatic stereo effect. Deluxe 4-speed record changer has such professional features as heavy 11" full size rubber matted turntable, accurate tracking low mass tubular tone arm, turnover ceramic cartridge with long life diamond LP needle for stereo and monaural, 16 2/3, 33 1/3 and 45 RPM records, sapphire for 78's. Automatically shuts off after last record.

Speaker cabinets fit over amplifier-player for easy luggage-style carrying. Attractive grey with silver trim. 21 1/2" W., 8 1/4" H., 14" D. 105-120 V. 60 cy. AC. 45 RPM spindle included. Shpg. wt. 21 1/2 lbs.

No. 30A324. Each. **\$89.95**



Swingmate

**AUTOMATIC
4-SPEED
SOLID STATE
PORTABLE
PHONOGRAPH**

\$29⁸⁷

PAY ONLY \$5.00 MONTHLY

**TAKE IT WHERE
THE ACTION IS
... KEEPS THE
PARTY GOING**



Wow! What a terrific buy this is. Just think—a complete portable automatic phono at just pennies more than a record changer alone. Take the "Swingmate" where the action is—so easy to carry, weighs just 11 lbs. High impact scuff-resistant case takes abuse. Plays all monaural records with dual styli, all speeds (33 1/3, 45, 78 and 16 RPM) all sizes (7, 10 and 12"). 45 RPM spindle included. Automatic shut-off after last record, or will repeat if desired. Fine tone quality from front mounted 2x6" Dynacoustic speaker. Solid state amplifier for instant sound, longer life and reliability. Size 14" W., 14 1/4" D., 7" H. 110-125 V. 60 cy. AC. Shpg. wt. 15 lbs. Choice of Green or Beige. No. 30C56. Each.....

\$29.87



MICRO-ELECTRONIC DELUXE HI-FI

**PORTABLE
AUTOMATIC
PHONOGRAPH**

\$44⁹⁵



**ADVANCED CIRCUITRY FOR
GREATER RELIABILITY AND LONGER LIFE**

Better tone quality, more deluxe appearance than B-A's \$29.87 model at left. Sleek and compact . . . lightweight and easy to carry. Big 5" speaker delivers wide-range, room-filling sound. Volume and tone controls conveniently front-mounted. Plays all mono and stereo records, all sizes with compatible crystal cartridge and dual styli. Automatic shut-off or will repeat last record. 45 RPM spindle included. GE's phenomenal new Micro-Electronic circuit assures greater reliability and longer life. High-impact polystyrene durable cabinet measures 13 1/2" W., 7 1/2" D., 12" H. 110-125 V. 60 cy. AC. Shpg. wt. 14 lbs. No. 30B58. Model V831. Choice of Ebony or Beige. Each.....

\$44.95



ALL TRANSISTOR BATTERY OPERATED PORTABLE PHONOGRAPHS

\$39⁹⁵

WITH 7-IN. SPEAKER



\$29⁹⁵

**WEIGHS
ONLY
8 LBS.**

**MORE THAN 250
HOURS ON JUST 6
ORDINARY FLASH-
LIGHT BATTERIES**

**TAKE THEM
ANYWHERE**
Always ready
to play
instantly

MERCURY FULL-FIDELITY

Take it wherever you go—instantly ready to play always—for picnics, beach, car, boat, patio, etc. Absolutely extraordinary . . . all transistor amplifier combines with 4" Ticonal speaker to deliver truly amazing big set sound over a full frequency range, 90 to 8000 cps. Compatible cartridge with diamond needle for LP's, sapphire for 78's plays stereo or monaural records 7, 10 or 12" at 33 1/3, 45 or 78 RPM. Automatically shuts off at end of record. Operates at smooth, constant speed always. Plays for months on just six ordinary flashlight cells. High impact break-resistant plastic case 11x7 1/2x4". Weighs only 4 3/4 lbs. including batteries. No. 30D99. (Less Batteries). New Low Price.....

\$29.95

No. 30B314. AC Adaptor for 115 V. 60 Cy. AC. Each.....

DELUXE 7-INCH SPEAKER MODEL OPERATES ON 115 V. AC WITH OPTIONAL ADAPTOR

Full rich sound comparable to larger phonographs. Large 7" ticonal magnet speaker, full 50-15,000 cps frequency range. Centrifugal motor governor, lightweight tone arm, self-leveling feet. Modern style case in resilient two-tone plastic with chrome trim. Size 12 1/4 x 4 1/2 x 9 1/8". Shpg. wt. 10 lbs. Less batteries. No. 30D88. Special Each.....

\$39.95

Deluxe Model with AC Adaptor. Operates on batteries or on 115 volt 60 cy. AC while recharging batteries. No. 30B315. Special Each.....

\$44.95

\$19.95



\$16.88

**B-A's
BEST BUY
4-SPEED
SINGLE
PLAY**

\$24.95

OUR LOWEST PRICE SOLID-STATE

Any youngster will be thrilled with this full-size "grown-up" GE phono. Ruggedly built to take bumps and bruises, yet light enough for easiest carry-about. Plays all 4 speeds, all sizes—7, 10 and 12". Solid-state amplifier for instant play—no warm-up needed. Big dynamic 4" Alnico V speaker for pleasing tone and full room volume. Scuff-resistant and washable white and blue polyethylene case. Can store ten 45 RPM records in lid. 13 1/2" W., 4 3/8" H., 9" D. 110-125 V. 60 cy. AC. Shpg. wt. 6 1/2 lbs. No. 30C59. Each.....

\$16.88

OUR BIGGER SOUND SOLID-STATE

Perfect all purpose player. Front mounted Alnico V speaker for fine tone quality. Powerful instant play transistor amplifier for big room volume. Turnover cartridge with sapphire needles for all records—all sizes—all speeds. Magic center for 45 RPM. Attractive, sturdy, lightweight carrying case in scuff-resistant fabric. 12" W., 11" D., 5" H. 110-125 V. 60 cy. AC. Shpg. wt. 9 lbs. No. 30B54. Each.....

\$19.95

TWO-SPEAKER FOR BETTER TONE

Two acoustically-matched PM speakers are front mounted for proper sound dispersion and resonance. Bass/Treble control permits adjustment of tone to any desired listening preference. Solid-state amplifier supplies maximum power for all requirements. High compliance turnover cartridge with two sapphire styli is compatible for playing monaural and stereo records. Plays all speeds, all sizes. Foam rubber-mat cushions records on turntable. Luggage style carrying case covered in scuff-resistant washable pyroxylin. 15 1/2" W., 13" D. 5 1/8" H. 110-125 V. 60 cy. AC. Shpg. wt. 11 lbs. No. 30C70. Choice of Red or Olive. Each.....

\$24.95

TRUE HI-FI STEREOPHONIC RECORDINGS

FANTASTIC VALUE

99c EACH

NOW ONLY

No concession in quality has been made in order to provide the amazing low cost. Each record in attractive jacket and sealed in polyethylene. Specify Stock No. 23A36 and Record No.



- 468. The In Crowd.
- 470. Dave Brubeck.
- 471. Whipped Cream—The Lonely Bull, Mexicali Brass.
- 473. The Dave Clark Five.
- 474. Shenandoah.
- 476. Guitars A Go Go.
- 477. Kansas City Star, King Of The Road.
- 478. Pete Fountain.
- 482. Beer Garden Piano.
- 483. Guitars Go Country.
- 485. Johnny Horton Sings.
- 487. A Taste Of Honey, Mexicali Brass.
- 465. Square Dance With Colls.
- 466. Polka Parade.
- 467. Ring Of Fire, Wolverton Mountain.
- 469. Organ Grinder Swing, Jimmy Smith.
- 472. Beautiful Blue Hawaii.
- 475. Johnny Rivers, Jerry Cole—Featuring Memphis.
- 480. Golden Goodies—Country & Western.
- 481. Trini Lopez—Featuring Sinner Man.
- 484. Good Old Country Music.
- 486. Jesse Crawford at the Organ.
- 488. Romantic Hawaii.
- 489. Bummin' Around with Jimmy Dean.
- 493. Polka Dots & Polka Chips.
- 495. Dixieland Jubilee.
- 499. Sonny James & Other Country & Western Hits.
- 500. Music of the Wild West.
- 501. Room Full of Roses & Other Country Guitar Hits.
- 450. Mary Poppins.
- 169. Polynesia.
- 233. Sing-A-Long Party Songs.
- 267. Beautiful Tangos.
- 281. Razz Ma Tazz Ragtime Piano.
- 301. Hawaiian Memories.
- 304. Hawaiian Sunset.
- 312. Surfers Beat.
- 390. Washington Square.
- 386. Let's Have A Hootennany Vol. 1.
- 502. Honky Tonkin'.
- 504. Bar Room Singing.
- 505. No Letter Today & Other Country Piano Hits.
- 507. The Era Of Hank Williams.
- 510. Ballad Of The Green Beret.
- 512. Orange Blossom Special & Other Fiddle Favorites.
- 513. Ragtime Piano.
- 514. Last Date & Other Country Piano Favorites.
- 515. Organ Memories.
- 517. Dixieland One Step.
- 519. Hawaiian Love Songs.
- 490. In The Miller Mood.
- 492. Downtown, Mexicali Brass.
- 494. I Can't Stop Loving You, Etc.
- 496. I Walk The Line, Etc.
- 497. Zorba The Greek & Tijuana Taxi, Mexicali Brass.
- 498. Theme From Dr. Zhivago.
- 503. Michelle, Mexicali Brass.
- 506. Theme From Thunderball, Mexicali Brass.
- 509. Theme From Batman.
- 511. What Now My Love & Spanish Flea, Mexicali Brass.
- 516. Make The World Go Away, Etc.
- 522. Dominique—from the Singing Nun.
- 523. The Work Song, Mexicali Brass.
- 524. Mexicali Brass Go South of The Border.
- 526. The Mighty Pipe Organ.
- 528. Blue, Blue Day, Etc.
- 529. String Of Pearls, Tribute to Glenn Miller.
- 531. Cherokee, Tribute to Charlie Barnett.
- 214. Beautiful Hawaii.
- 440. Theme From Goldfinger and Others.
- 443. Golden Oldies—Country & Western.
- 444. The Best Of Bluegrass—Kentucky Mountain Boys.
- 446. Beautiful Hawaii.
- 447. Beer Barrel Piano.
- 448. If I Didn't Care—The Ink Spots.
- 449. Discotheque.
- 533. Woodchopper's Ball, Tribute to Woody Herman.
- 537. Pete Fountain & The Kings of Dixieland.
- 538. Beautiful Viennese Waltzes.
- 542. Mame & Hello Dolly, Mexicali Brass.
- 544. The Shadow of Your Smile, Mexicali Brass.
- 462. Honky Tonk Piano.
- 463. Rodgers & Hammerstein Favorites.
- 464. The Best of Dixie.
- 518. Crazy Arms & Other C&W Favorites.
- 520. Once A Day & Other Steel Guitar Favorites.
- 521. Buckaroo & Other Guitar C&W Favorites.
- 525. I'm Getting Sentimental Over You—A tribute to Tommy Dorsey.
- 527. Let's Dance—A tribute to Benny Goodman.
- 532. More Bar Room Singing.
- 534. Don't Let The Stars Get In Your Eyes—Country Piano.
- 535. Hawaiian Wedding Song.
- 540. Viva Mexicali Brass.
- 543. Mexicali Brass Go Country.
- 545. Winter Wonderland, The Mexicali Brass.
- 331. Rusty and Doug—Grand Old Opry.
- 377. 12 String Guitar, Jim Helms.
- 434. Eddie Dean Sings.
- 441. Arriverderci Roma—Louis Martinelli and the Continentals.
- 120. Honky Tonk Piano Vol. 2.
- 239. Honky Tonk Piano Vol. 3.
- 151. The Mighty Pipe Organ.
- 163. Blue Hawaii, Sweet Leilani.
- 104. A Toast to Tommy & Jimmy Dorsey.
- 257. Ragtime Piano, Earl Krause.
- 210. Swan Lake Ballet, Carl Jergens Conducts Hamburg Philharmonic Orchestra.
- 156. Glenn Miller Memories, In The Mood, Moonlight Serenade, etc.
- 461. Red Roses For A Blue Lady.
- 430. Memory To Cowboy Copas.
- 431. Blue Grass Gospel.
- 432. Memory of Hawkshaw Hawkins.
- 433. Country & Western Favorites.
- 435. Your Cheatin' Heart—Memory To Hank Williams.
- 436. Smoke Gets In Your Eyes and Other Harmonica Favorites.
- 437. Three Coins In The Fountain.
- 438. George Whitman At The Hammond Organ.
- 439. Songs Of Inspiration.
- 392. Sounds Of The Drags, The Blasters.
- 406. Dave Brubeck, Paul Desmond Quartet, Cal Tjader Quartet.
- 428. Viennese Waltz Time.
- 344. Country Gospel, J. M. Farley & The Foggy River Boys.
- 271. Hawaiian Paradise.
- 277. Harmonica and The Blues.
- 230. Velvet Brass and Percussion.
- 144. The Ink Spots sing their greatest hits.
- 186. Country and Western. Blue Tail Fly, Golden Slippers.
- 196. Twangy Guitars of Billy Boyd. Mambo Boogie, Night Rock.
- 198. Chapin Favorites.
- 259. Happy Polka Time.
- 302. Bossa Nova. Buddy Collett & Jazz Samba.
- 155. Nearer To God.
- 451. A Hank Williams Tribute.
- 453. Engine, Engine No. 9—Dang Me and Other Country & Western Favorites.
- 454. Hawaiian Tattoo.
- 455. Organ Rhapsody.
- 456. Theme From The Greatest Story Ever Told and Other Religious Hymns.
- 457. Al Hirt.
- 458. Trini Lopez Sings.
- 459. Hank Mancini Favorites.
- 460. The Girl From Ipanema, Fly Me To The Moon, Blame It On The Bossa Nova, etc.

FAMOUS AUDIO BOOK LIBRARY OF TALKING BOOKS

THE BIBLE BROUGHT TO LIFE ON RECORDS

"TALKING BOOK" STORY ALBUMS



\$19.97

MFG. LIST \$29.95

Brings to life with thrilling realism the Bible... read aloud by one of America's finest professional readers. Every word is read correctly and reverently... not a word has been changed or left out. Recorded at 16 2/3 RPM on 7" unbreakable vinylite records—each record plays for nearly an hour. A special adaptor is available for playing them on any phonograph capable of operating at 33 1/3 RPM, or they can be used with any 4-speed Record Player.

Widely acclaimed by religious leaders, editors and laymen—ideal for the home, Bible classes, Sunday Schools, etc. Albums handsomely jacketed in simulated black leather with gold lettering.

- NEW TESTAMENT—King James version. Complete and unabridged—all 27 books. 260 chapters. Mfg. List \$29.95. **No. 23C20. Per Album (26 Records) \$19.97**
- NEW TESTAMENT—Challoner-Rheims (Catholic) version complete and unabridged narrated by the Rev. Robert I. Gannon, S.J. Mfg. List \$34.95. **No. 23C22. Per Album (30 Records) \$23.30**
- OLD TESTAMENT—9 books: complete and unabridged. Genesis, Judges, Esther, Ruth, Psalms, Proverbs, Ecclesiastes, Solomon, and Isaiah. **No. 23C8. Mfg. List \$29.95. Per Album (26 Records) \$19.97**
- BOOK OF PSALMS—Mfg. List \$6.95. **No. 23C19. Per Album (6 Records) \$4.68**
- PROVERBS, ECCLESIASTES, THE SONG OF SOLOMON—Mfg. List \$4.95. **No. 23C149. Per Album (4 Records) \$3.28**
- BOOK OF JUDGES AND RUTH—Mfg. List \$3.95. **No. 23C150. Per Album (3 Records) \$2.62**

BIBLE STORIES FOR YOUNG PEOPLE

- STORIES FROM THE OLD TESTAMENT. 21 complete stories, including Noah and the Ark, David and Goliath, Daniel in the Lion's Den, etc. Plays 2 hours. **No. 23C23. Mfg. List \$2.95. Per Album (2 Records) \$1.96**
- STORIES FROM THE NEW TESTAMENT. 26 complete stories, including The First Palm Sunday, Jesus and the Little Children, The Last Supper, Good Samaritan, etc. Plays 2 hours. **No. 23C24. Mfg. List \$2.95. Per Album (2 Records) \$1.96**



All are recorded at 16 2/3 RPM, and can be played on any record player capable of operating at 33 1/3 RPM by use of adaptor shown below, or on any 4 speed player.

Title	Stk. No.	Plays	Records	Mfg. List	Price
Alice in Wonderland	23C14	3 Hours	3	\$3.95	\$2.62
Children's Storytime Favorites	23C15	2 Hours	2	2.95	1.96
Child's Garden of Verses	23C25	1 Hour	1	1.49	.99
Rip Van Winkle	23C26	1 Hour	1	1.49	.99
Gulliver's Travels	23C1	1 Hour	1	1.49	.99
Wizard of Oz	23C27	5 Hours	5	5.95	3.97
Adventures of Robin Hood	23C6	3 Hours	3	3.95	2.62
Tales of Edgar Allen Poe	23C12	4 Hours	4	4.95	3.28
Famous Poems	23C13	4 Hours	4	4.95	3.28
Writings of Emerson	23C3	5 Hours	5	5.95	3.97
Trial of Socrates	23C28	3 Hours	3	3.95	2.62
Ben Franklin's Autobiography	23C4	8 Hours	8	8.95	5.97
Sonnets of Shakespeare	23C5	3 Hours	3	3.95	2.62
Kipling's Just So Stories	23C21	5 Hours	5	5.95	3.97
The Red Badge of Courage	23C31	6 Hours	6	6.95	4.63
Walden, Vol. 1	23C18	6 Hours	6	6.95	4.63
Treasure Island	23C17	6 Hours	6	6.95	4.63
Meditations of Marcus Aurelius	23C11	6 Hours	6	6.95	4.63
Dickens' A Christmas Carol	23C40	4 Hours	4	4.95	3.28
The Adventures of Pinocchio	23C41	5 Hours	5	5.95	3.97
Great Essays	23C30	8 Hours	8	8.95	5.97
Adventures of Tom Sawyer	23C147	9 Hours	9	9.95	6.69
Adventures of Sherlock Holmes	23C16	5 Hours	5	5.95	3.97
Writings & Speeches of Lincoln	23C35	8 Hours	8	8.95	5.97
Best of Mark Twain	23C7	4 Hours	4	4.95	3.28
The Time Machine	23A37	4 Hours	4	4.95	3.28
The Call Of The Wild	23A38	4 Hours	4	4.95	3.28

SPECIAL 16 2/3 RPM ADAPTOR

All the Audio Book Records as shown here are recorded at 16 2/3 RPM. They can be played on any phonograph or record changer capable of operating at 33 1/3 RPM by use of this Adaptor. Simply place Adaptor on the turntable and play as any other phonograph record. **Mfg. List \$2.95**
No. 23C10. Net Each \$2.29

REPLACEMENT PHONO CARTRIDGES

ASTATIC REPLACEMENT CARTRIDGES



A wide selection of high quality cartridges designed for easy replacement of 90% of all makes. Crystal units are Rochelle-salt type especially treated to resist heat and humidity. Turnover cartridges have 1 mil and 3 mil sapphire needles included, AG and MG single needle types have 2 mil and 1 mil respectively. 78 RPM cartridges are less needle. Any standard thumb-screw type needle will fit. Average shpg. wt. 4 oz.

TURNOVER TWO-NEEDLE CARTRIDGES

Stk. No.	Cart. No.	Illus. No.	Output Voltage	Response Cps	Element	Mfg. List	Net Each
14B551	40TB	1	1.0	50-6000	Crystal	\$8.45	\$4.97
14B550	62TY	3	1.0	50-7000	Crystal	7.95	4.67
14C537	66TS	2	3.0	50-5000	Crystal	7.25	4.27
14B587	66TY	3	3.0	50-5000	Crystal	6.50	3.82
14C543	120	4	3.0	30-11,000	Crystal	6.45	3.79
14C544	314TS	5	3.0	30-11,000	Crystal	5.45	3.20
14C545	410†	6	0.8	50-6000	Crystal	6.50	3.82
14B542	420	7	3.0	30-11,000	Crystal	5.45	3.20
14C552	422	7	0.75	30-13,000	Crystal	5.95	3.50
14C594	55T	9	0.7	30-15,000	Ceramic	7.95	4.67

MICRO-GROOVE SINGLE NEEDLE CARTRIDGES

14B541	408†	6	0.8	50-6000	Crystal	4.45	2.62
14C564	414-1	8	3.0	30-11,000	Crystal	4.45	2.62

ALL-GROOVE SINGLE-NEEDLE CARTRIDGES

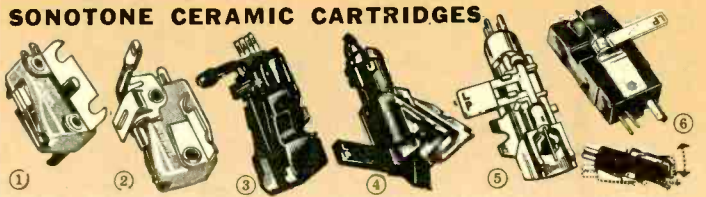
14B548	40-2	10	1.0	50-10,000	Crystal	6.50	3.82
14B533	51-2	11	0.7	30-10,000	Ceramic	7.40	4.35
14B584	66-2	12	3.0	50-5000	Crystal	4.95	2.91
14C569	414-2	8	3.0	30-11,000	Crystal	4.45	2.62

STANDARD SINGLE NEEDLE CARTRIDGES

14B547	12*	13	4.0	50-5000	Crystal	4.45	2.62
14B546	12U*	13	4.0-1.25	50-5000	Crystal	4.95	2.91

*Less needle, any standard needle will fit. †Exact replacement for RCA "45".

SONOTONE CERAMIC CARTRIDGES



MONAURAL CARTRIDGES

High quality, not affected by temperature or humidity. Provides high output, flat response without equalization. LB types are less bracket for narrow tone arms. 2TA type is new improved version of 2T with higher compliance, lower tracking force. Also comes equipped with .7 mil needle for playing stereo records without damage, as well as all monaural records.

Stk. No.	Fig.	Type	Response Cps	Needle Tip	Output Volts	Mfg. List	Net Each
14C580	(1)	1P-1S	30-15,000	1S	1 V.	\$6.10	\$3.65
14C581	(1)	1P-2S	30-15,000	2S	1 V.	6.10	3.65
14C583	(2)	2TA-S	20-20,000	.7S-3S	1 V.	7.40	4.44
14A572	(2)	2TA-LB-S	20-20,000	.7S-3S	1 V.	7.40	4.44
60A35	(2)	2TA-SD	20-20,000	.7D-3S	1 V.	10.80	6.48
14B597	(2)	3T-S	20-20,000	1S-3S	5 V.	9.75	5.84
60B135	(2)	3T-SD	20-20,000	1D-3S	5 V.	13.20	7.92

STEREO CARTRIDGES

Highest quality ceramic stereo cartridges give optimum trouble-free performance with smooth, wide range response. All have flip-over needle assemblies for playing all records, all speeds, stereo and monaural. Universal terminal plug is supplied with all models except 8TA, facilitating quick, easy replacement. Shpg. wt. 3 oz. All mountings 1/2" centers.

Stk. No.	Fig.	Type	Needle Tip	Output Sepa-Volts	DB Separation	Response Cps	Mfg. List	Net Each
20A298	3	8TA4-S	.7S-3S	0.3	20	20-20,000	\$11.00	\$6.60
14B523	3	8TA4-S77	.7S-7S	0.3	20	20-20,000	11.00	6.60
60B134	3	8TA4-SD	.7D-3S	0.3	20	20-20,000	14.50	8.68
14A567	4	10T2-S	.7D-3S	0.5	18	20-15,000	8.75	5.24
60A75	4	10T2-SD	.7D-3S	0.5	18	20-15,000	12.20	7.32
14A657	5	*16TAF-S	.7S-3S	0.65	25	20-12,000	8.20	4.90
60C114	5	*16TAF-SD	.7D-3S	0.65	25	20-12,000	11.65	6.98
14A658	5	18TA-S	.7S-3S	1.0	25	20-12,000	7.55	4.52
60B112	5	18TA-SD	.7D-3S	1.0	25	20-12,000	11.00	6.60
60B127	5	*916TAF-S	.7S-3S	0.42	28	20-20,000	9.65	5.78
60B129	5	*916TAF-SD	.7D-3S	0.42	28	20-20,000	13.10	7.85
60A39	5	*9TAF-S	.7S-3S	0.4	30	20-20,000	11.15	6.67
60A40	5	*9TAF-SD	.7D-3S	0.4	30	20-17,000	14.60	8.74

*Supplied with the new "Sono-Flex" super-compliant needle.

SONOTONE SONO-FLEX NEEDLE

Bend it, knock, or flick it—the Sono-Flex stylus springs back into playing position without damage. Cannot be harmed by dropping tone arm, will not scratch records. One needle fits the following cartridges: 9T, 9TA, 9TAF, 9TV, 9TAV, 9TAFV, 16T, 16TAF, 16TAP, 916TA, 916TAF.

Stk. No.	Type	Point Sizes	Mfg. List	Net Each
24A387SD	N9916F-SD	.7 Mil Dia. & 3-Mil Sapphire	\$4.75	\$2.83
24A387D	N9916F-D77	.7 Mil. Dia. & .7 Mil Diamond	6.00	3.58

SONOTONE STEREO Retractable CARTRIDGE

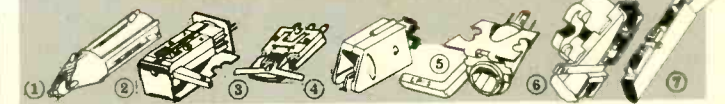
21TR Ceramic Cartridge with retractable mounting bracket. Retracts into head of tone arm, eliminating scratched records and damaged needles from accidental dropping of tonearm. Response: entire audio hearing range: 0.60 output voltage; separation 21 db; 4-7 grams tracking pressure.

No. 14B530. Type 21TR-S. .7-3 Mil Sapphire Sono-Flex Needle. Each. **\$5.24**
No. 14B558. Type 21TR-SD. .7 Dia. —3 Mil Sapp. Sono-Flex Needle. Ea. **\$7.32**

22T High-Compliance Ceramic Cartridge with new standard mtg. bracket. Snaps in and out of bracket. Fits standard tone arms. Response: entire audio hearing range; 0.30 output voltage; separation 24 db; 2-4 grams tracking pressure. Same appearance as 21TR, less retractable bracket.

No. 14B563. Type 22T-S. .7-3 Mil Sapphire Sono-Flex Needle. Each. **\$5.24**
No. 14B596. Type 22T-SD. .7 Dia. —3 Mil Sapp. Sono-Flex Needle. Ea. **\$7.32**

ELECTRO-VOICE CARTRIDGES



Exact replacement for the most popular type cartridges, E-V quality assures top performance and fidelity. Needles: 1S indicates sapphire tip, 1D diamond tip—both for long playing records; 3S sapphire for 78 RPM records; 2S sapphire all-purpose tip for all mono records; .7S sapphire tip for stereo records; .7D diamond tip for stereo records.

Stk. No.	Fig.	E-V	Replacement For	Needles	Each
20B403	1	56	Monaural Plug-In	1S/3S	2.31
60B116	1	36D	Monaural Plug-In	1D/3S	4.09
20B398	1	66	Stereo Plug-In	.7S/3S	3.50
60B115	1	66D	Stereo Plug-In	.7D/3S	5.26
60B123	2	26	Euphonic E-1, U-1	.7S/3S	6.17
60B137	2	26D	Euphonic E-2, U-2	.7D/3S	9.70
60B154	3	54	RCA 108213, A, 110021	.7S/3S	5.88
20A672	4	112	Zenith-S-15780	2S	2.06
20B391	5	PT-2	Mount for 56 Cartridge		.59
20B399	5	PT-3	Mount for 66 Cartridge		.59
14A67	6	5100D	Admiral 409C75-1; Tetrax 6-32D-A1	.7D/3S	9.06
5101	6	5101	Admiral 409C75-2; Tetrax 6-32S-A2	.7S/3S	7.79
14A69	7	5109D	Motorola 59C63784A01; Tetrax 6-31D-M5	.7D/3S	10.58
14A70	7	5111D	Motorola 59C63816A01; Tetrax 1-21D-M4	.7D/3S	10.58
14A71	7	5112	Philco 35-2876-1, P-1; Tetrax 6-11SP-1	.7S/3S	8.82
14A72	7	5114D	Philco 35-2876-2, P-2; Tetrax 6-11DP-2	.7D/3S	9.55
14A73	7	5115D	Philco 35-2877-1, P-4; Tetrax 6-11DP-4	.7D/3S	9.11
14A74	7	5116D	Philco P-5X; Tetrax 2-41D-P5X	.7D/3S	9.11
14A75	7	5118D	V-M 36487-B, V-2; Tetrax 6-21D-V2	.7D/3S	9.55
14A76	7	5120D	V-M 36487-E, V-5; Tetrax 5-31D-V5	.7D/3S	9.55
14A77	7	5121D	V-M 36487-F, V-6; Tetrax 2-21D-V6	.7D/3S	9.11

ASTATIC CRYSTAL STEREO CARTRIDGES



Replacement for many imported cartridges such as Acos, Ronette, Telefunken, Vaco, etc. High quality crystal cartridges have wide frequency range and separation. Type 76TSB and 86TSB have mounting bracket, bushing, and knob included. Shpg wt. 4 oz.

Stock No.	Cart. No.	Output Volts	Response Cps	Mfg. List	Net Each
① 14C577	70TS	2.0	50-10,000	\$7.25	\$4.28
② 14A654	76TSB	2.0	50-10,000	7.95	4.67
③ 14C578	80TS	0.8	50-15,000	7.50	4.41
④ 14A656	86TSB	0.8	50-15,000	8.50	5.00
⑤ 14C520	142	2.0	30-10,000	7.25	4.28
⑥ 14B592	74TS	2.0	50-10,000	7.25	4.28

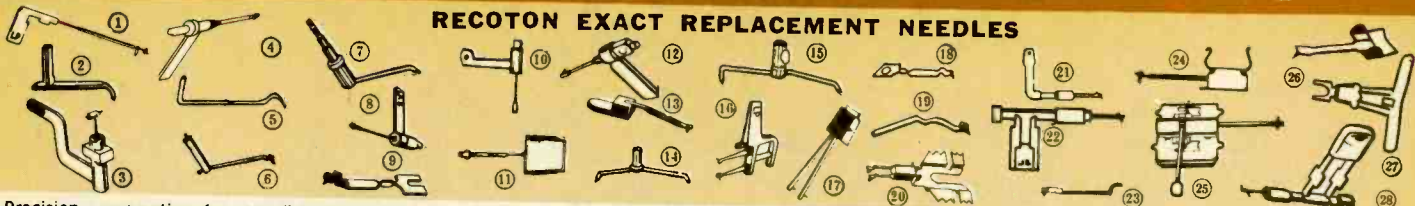
ASTATIC HIGH FIDELITY CERAMIC STEREO CARTRIDGE

Highest quality stereo cartridge used in thousands of the finest stereo consoles, direct replacement for EV 26, Euphonic E2, and many others. Output is 0.4 volts per channel, frequency response 20-20,000 cps. Channel separation 35 DB. Has flip-under needles. Standard 1/2" mounting centers. Shpg. wt. 4 oz.

No. 60C142. Type 17. Sapphire Needles. Mfg. List \$11.75 Net Each. **\$6.91**
No. 60C143. Type 17D. Dia-Sapphire Needles. Mfg. List \$15.75 Net Ea. **\$9.26**

REPLACEMENT NEEDLES, TONE ARMS AND DISCS

RECOTON EXACT REPLACEMENT NEEDLES

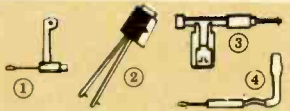


Precision construction for true fidelity, protection or valuable records. Superior sapphire tips offer faithful tracking to bring out all the sound from the record grooves. "Size" description indicates "MG" for microgroove, "AG" for all-groove, and "STD" for standard 78 RPM speeds, "TO" for turnover type. Select proper needle by Mfg. No. or illustration.

Fig. Stk. No.	Type No.	Cartridge No.	Needle No.	Size	Net Each
ACOS					
①	24A351	525*	73 Series	SS-73 TO	\$1.49
ASTATIC					
⑧	24A444	444	66, 62	K-78 Std.	.99
⑧	24A445	445	66, 62	K MG	.99
⑧	24A354	393*	55-T	N-55 TO	1.49
⑧	24A340	340	GC, 51	G-AG AG	.99
⑧	24A370	370	AC Series	A-1 MG	.99
⑧	24A372	372	AC, AG	A-AG AG	.99
⑧	24A310	310	408	N10-1J MG	.99
⑧	24B314	824	70TS, 80TS	N7-7 Stereo	.99
⑧	24A361	466	310, 420	N8-3 Std.	.99
⑧	24A362	464	310, 420	N8-1 MG	.99
⑧	24A359	465	310, 420	N8-2 AG	.99
⑧	24A342	516	76TS, 86TS	N8-7 Stereo	.99
⑧	24A546	546*	17, 17D	N-41 Stereo TO	1.49
⑧	24B321	567*	133	N50, 51 Stereo TO	1.49
⑧	24A547	604*	140, 142, 146	N-60 Stereo TO	1.49
⑧	24A617	617*	181	N64 Stereo TO	1.49
⑧	24A619	619*	138	N70 Stereo TO	1.49
ELECTRO-VOICE					
⑧	24A322	506	21, 26	D1-1 Stereo	1.49
⑧	24A574	574*	132	2619 Stereo TO	1.49
⑧	24A587	587*	141	2620 Stereo TO	1.49
⑧	24A607	607*	198	2624 Stereo TO	1.49
EUPHONICS					
⑧	24A541	541	E1	J-47 Stereo	.99
⑧	24B306	556	"U"	214 Stereo	.99
⑧	24A399	566*	U-8, U-9	253 Stereo	1.49
⑧	24A576	576*	U-10, U-11	255 Stereo TO	1.49
GENERAL ELECTRIC					
⑧	24A565	565*	C-100	R54154 Stereo TO	1.49
⑧	24A611	611*	C-500	Stereo TO	1.49
MAGNAVOX					
⑧	24A327	395*	560 Series	560 Twin	1.49
PHILCO					
⑧	24A325	353*	76 Series	35 Series Twin	1.49

Fig. Stk. No.	Type No.	Cartridge No.	Needle No.	Size	Net Each
RONETTE					
⑧	24A324	504	BF40, OV	SA-075 Stereo	.99
⑧	24A401	401	TO-284, 222	5308L MG	.99
⑧	24A443	443	RA-395-2	5304LN AG	.99
⑧	24A326	509	DC422	SA-100 MG	.99
RCA					
⑧	24A533	533*	106770A	108214 Stereo Twin	1.49
⑧	24B307	563*	110021	110020 Stereo-Trim	1.49
⑧	24A612	612*	111348	110020A Stereo TO	1.49
⑧	24A621	621	115059	115061 Stereo	.99
SHURE					
⑧	24A317	317	P30, W68	A65MG MG	.99
⑧	24A352	352	P81, W26A	A67U AG	.99
⑧	24A320	427*	ML-44, WC10	N-4, A10 Twin	1.49
SONOTONE					
⑧	24A349	522*	8TA-4	N8TA Stereo TO	1.49
⑧	24A332	503*	8T-4	N8T Stereo TO	1.49
⑧	24A544	544*	9T	N-9TS Stereo TO	1.95
⑧	24A337	402	1P-1S	N-1P1S MG	.99
⑧	24A460	460*	3T	N3TS TO	1.49
⑧	24A385	385*	2T	N2TS TO	1.49
⑧	24B308	553*	16T	N16TS Stereo TO	1.49
⑧	24B309	554*	18T	N18TS Stereo TO	1.49
⑧	24A595	595*	21T	N21T Stereo TO	1.49
TELEFUNKEN					
⑧	24A534	534*	T20/2	A20/2 Stereo TO	1.49
VACO					
⑧	24A366	479	T-45	MG	.99
⑧	24A342	516	ST-100	Stereo	.99
⑧	24A341	512	TC8S(BSR)	Stereo	.99

RECOTON DOUBLE DIAMOND NEEDLES



Double the playing time of your favorite records with a stereo or LP diamond tip on both sides of the needle. The obsolete 78 RPM tip has been eliminated, since most records played are stereo or LP monoaural. Each diamond point is hand polished, prolongs record life. All needles listed below have two .7 mil stereo diamond tips, except N2T and N3T, which have one .7 mil stereo and one 1 mil diamond point.

Fig.	Stk. No.	Type No.	Cartridge No.	Needle No.	Net Ea.
(1)	24A388D	546DD-2ST	Astatic 17D	N41D	\$4.95
(1)	24A389D	565DD-2ST	G-E C-100		4.95
(2)	24A390D	533DD-2ST	RCA 106, 108	110020	4.95
(4)	24A391D	503DD-2ST	Sonotone 8T	N8TS	4.95
(4)	24A394D	522DD-2ST	Sonotone 8TA	N8TA-S	4.95
(3)	24A395D	544DD-2ST	Sonotone 9T	N9TS	4.95
(3)	24A396D	553DD-2ST	Sonotone 16T	N16TS	4.95
(4)	24A397D	385DD-LP/ST	Sonotone 2T	N2TS	4.95
(4)	24A398D	460DD-LP/ST	Sonotone 3T	N3TS	4.95

RECOTON SET SCREW TYPE NEEDLES

ALL GROOVE
Sapphire tip needle. Truncated for both microgroove and standard records. Plays all types of records without changing needles.

Mfg. List \$2.00
No. 20C79. Each **98c**

Osmium tip needle. Otherwise same as above. List \$1.50.
No. 20B81. Each **79c**

Sapphire Point. Good for 5000 plays. No finer jeweled standard needle available.
\$2.00 Retail Value
No. 16A789. **98c**
Each

Microgroove. For long playing records.
No. 16A790. **98c**
Each

ASTATIC PHONO PICKUPS



MODEL KR-314-T. Popular original equipment pickup with high output turnover cartridge for playing all speeds, 16, 33 1/3, 45, and 78 RPM. Ideal for replacement on portable phonographs where ruggedness at low cost is required. Base of pickup retracts into tone arm for use on phonos having low clearance in the lid. Supplied complete with mounting hardware and arm rest. Mfg. list \$6.95.
No. 14A501. Model KR-314-T Pickup. Net Each **\$4.09**

Same as above except equipped with Astatic 74TS high output stereo cartridge. Mfg. list \$8.25.
No. 14A502. Model KR-74-TS Pickup. Net Each **\$4.85**

DIAMOND REPLACEMENT NEEDLES

Protect your valuable record collection with a genuine hand polished diamond stylus. Diamond needles outlast other types by 5 times or more, so that it is more economical, and easier on records. Any of above needles can be obtained with a diamond tip. Just add "D" to stock number when ordering.

Single Diamond Stylus. Net Each **\$3.09**
*After type number above indicates available in Diamond-Sapphire. Add "SD" to stock number when ordering.
Diamond-Sapphire Stylus. Net Each **\$3.29**

ASTATIC X-26 CRYSTAL CARTRIDGE

Replacement for General Industries recorder playback units. Uses regular cutting needles (not furnished). Maximum recording voltage 150 volts RMS. Frequency response to 6000 cps. Wt. 5 1/2 oz.; size 1 3/8 x 5/8 x 3 1/4. Oxidized finish.

No. 14A532. Shpg. wt. 10 ozs. Net Each **\$7.53**
14A568. Astatic M-41-8 Magnetic Cutter. Ea. **\$7.63**



HOME RECORDING NEEDLES



Alloy Steel. Diamond polished. Each needle will cut approximately 25 6" records. Card of 5 needles. No. 16A794. **95c**

Stellite. Diamond polished. Cuts quiet, smooth groove. Good for approximately 500 6" discs. No. 16A795. **98c**



AUDIO DEVICES RECORDING DISCS

Engineered to the highest standards of the recording profession. Audio-Discs are recommended for use in broadcasting, recording and movie studios: for all professional recording applications.

"YELLOW LABEL"—Double face. Popular choice for all general purpose recordings which require high, uniform quality. Ideal for volume production work. Aluminum base.

Stk. No.	Size	Thickness	Pkg. Wt.	Pkg. of 25
4A9	10"	.040"	8 lbs.	\$30.00
4A10	12"	.050"	14 lbs.	63.25

"BLUE LABEL"—Double faced. Offers fine recording quality at a low price. Highly recommended for preliminary audition work, making test cuts, or general amateur use. Aluminum base.

Stk. No.	Size	Thickness	Pkg. Wt.	Pkg. 10	Pkg. 50
11A759	6 1/2"	.035"	1 lb.	\$5.80	\$25.50
11A760	8"	.035"	1 1/2 lb.	8.90	38.00
11A761	10"	.035"	3 lbs.	10.50	50.50

AUDIO POINTS RECORDING STYLI

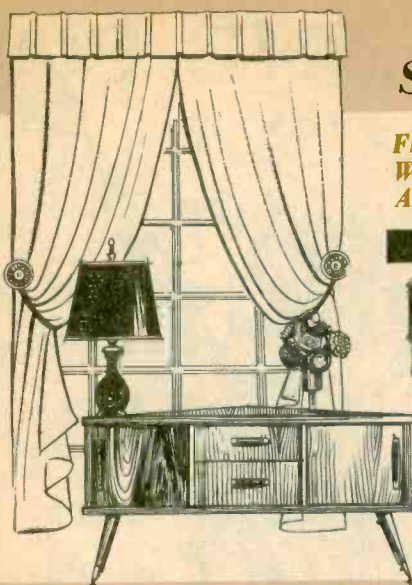
Sapphire recording styli meet the most exacting standards of broadcast and recording studios, each styli being individually tested for thread throw and signal-to-noise ratio. Short dural shanks.




Stk. No.	Type	Description	Mfg. List	Net Ea.
24A376	14	78 RPM Sapphire Stylus	\$8.25	\$5.34
24A377	20	Microgroove Sapphire Stylus	8.25	5.34
24A378	34	Stellite Cutter Stylus	2.50	1.74

PRESENTING AMERICA'S NEWEST VALUE SENSATION IN MULTI-PURPOSE CABINETS!

FIRST TIME EVER A 40-IN CABINET WITH 3-SLIDING DOORS AT SUCH A SENSATIONAL PRICE

\$19⁹⁹



EARLY AMERICAN	FRENCH PROVINCIAL	SPANISH
		
Maple Finish	White & Gold Finish	Distinctive Fruitwood

FULL 40 INCHES LONG!
CHOICE OF FOUR DECORATOR STYLES AND FIVE FINISHES!

STORES UP TO 400 RECORDS

THREE SLIDING DOORS



IMAGINE SO MUCH CABINET FOR SO LITTLE

Richly finished selected hardwoods, brass-colored hardware. 40" long, 26" high, 16" deep. Easy to assemble!

- Holds many books.
- Handy as a bar.
- Decorative TV stand.
- Perfect as credenza.
- Brass finished period-matched hardware.
- Attractive room divider.
- Useful liquor cabinet.
- Ideal for picture window.
- Ideal for stereo hi-fi phono.

Above units shipped K.D. Shpg. wt. 30 lbs.

- | | |
|---|---------|
| No. 40A392. Modern Walnut Finish..... | \$19.99 |
| No. 40A393. Modern Mahogany Finish..... | \$19.99 |
| No. 40A395. Early American Maple Finish..... | \$19.99 |
| No. 40A396. French Provincial Antique White & Gold..... | \$19.99 |
| No. 40A398. Spanish Distinctive Fruitwood Finish..... | \$19.99 |



NEW HI-HAT STORAGE CABINET

\$19⁹⁹

FULL 26" HIGH
HOLDS 350 RECORDS
HAS WIRE DIVIDERS

5 DECORATOR
COLORS
6 FINISHES

The finest styling with ample space for 350 records. May be used as credenza, both sides, front and back are finished. Comes knocked down, readily assembled. Size 36" W, 15" D, 26" H.

- | | |
|----------------------------------|--------------------------------------|
| 40B307. Modern Style, Walnut | 40B309. Fr. Prov., White & Gold |
| 40B306. Modern Style, Mahogany | 40B310. Early American, Maple |
| 40B308. Spanish Style, Fruitwood | 40B311. Chinese Modern, Black & Gold |
| YOUR CHOICE | \$19.99 |



Low cost, handsomely styled record cabinet stores up to 150 12" records. Compact, low boy design makes it ideal for limited space areas such as recreation rooms or dens. . . serves as lamp or end table. Snap out record dividers are easily removed for all kinds of storage use. Has full view sliding doors with brass door pulls. Supplied knocked down in handy "carrying-case" carton. Easily assembled in just minutes—requires no tools, bolts or screws. Sturdy hardboard and wood construction. 24" W, 18" D, 22 1/2" H. Shpg. wt. 18 lbs.

- | | | |
|----------------------|---------------------|----------------|
| No. 40A257—Walnut | No. 40A258—Mahogany | No. 40A259—Oak |
| YOUR CHOICE | | |
| NET EACH..... | \$11.88 | |

NEW HIGH QUALITY TAMBOUR DOOR RECORD STORAGE CABINET IN FIVE DECORATOR STYLES

FULL 40 INCHES LONG—SHIPPED READY TO USE... NO ASSEMBLY REQUIRED!

- Truly the finest in modern craftsmanship. Highest style, designed to fit in with any fine quality furniture. Tambour doors slide open and close easily. Holds up to 400 records. Richly finished. Shipped ready to use. Size, 40" W. x 26" H. x 16" D. Approx. shpg. wt. 30 lbs. Shipped express or freight only.
- | | |
|---|---------|
| No. 40B316. French Provincial Style—White & Gold Finish. Net. | \$27.95 |
| No. 40B317. Early American Style—Salem Maple Finish. Net. | \$27.95 |
| No. 40B312. Chinese Modern Style—Black & Gold Finish. Net. | \$27.95 |
| No. 40B313. Deluxe Modern Style—Mahogany Finish. Net. | \$27.95 |
| No. 40B314. Deluxe Modern Style—Soft Walnut Finish. Net. | \$27.95 |
| No. 40B315. Spanish Style—Fruitwood Finish. Net. | \$27.95 |



FINEST
QUALITY
WORKMANSHIP

\$27⁹⁵

IT'S SO MUCH FUN.. AND SO



HIGHEST
QUALITY
IMPORT



HIGHEST QUALITY CONCERT SIZE GUITARS ALL WITH STEEL REINFORCED NECK

① DELUXE CONCERT SIZE STEEL FOLK GUITAR

Finest quality workmanship. Features steel reinforced neck. Fine grain spruce top. High gloss mahogany back and sides. White bound top and bottom edging. Fine decor around sound-hole gives that rich finished appearance. Inlaid pearl position markers on clear lacquered fingerboard. Bridge is glued and screwed to body. Shpg. wt. 6 lbs.

No. 40D162. B-A Special..... **\$18.95**
No. 40B168. Carrying Bag for above. Special..... \$6.95

② CONCERT SIZE CLASSIC GUITAR

An instrument that will make you the envy of your group. A fine instrument featuring all rosewood fingerboard and bridge. Inlaid pearl position markers on edge of fingerboard. Steel reinforced neck. Black inlaid edging around top and bottom with inlaid decor around sound-hole. String adjustments feature deluxe machine heads and nylon rollers. Shpg. wt. 8 lbs.

No. 40D163. B-A Special..... **\$29.95**
No. 40B168. Carrying Bag for above. Special..... \$6.95

③ CONCERT SIZE ALL MAHOGANY STEEL FOLK GUITAR—AMERICAN MADE

Rosewood bridge and fingerboard—inlaid pearl position markers, bound edges top and bottom, bound sound hole, white ornate pick guard.

No. 40A227. Shpg. wt. 8 lbs. B-A Special..... **\$49.95**
No. 40B168. Carrying Bag for above. Special..... \$6.95
As above with White Maple Top, tortoise guard.
No. 40B229. Shpg. wt. 8 lbs. **\$49.95**
B-A Special.....
No. 40B168. Carrying Bag for above. Special..... \$6.95

④ CONCERT SIZE CLASSIC GUITAR AMERICAN MADE

With nylon strings, rosewood trim, ornate inlay around sound hole. Shpg. wt. 8 lbs.

No. 40B230. B-A Special..... **\$79.95**
No. 40B168. Carrying Bag for above. Special..... \$6.95

TEACH YOURSELF RECORD COURSES

Learn basic chords, runs, slurs, cut time and songs. Records and illustrated charts.

No. 23D73. Guitar. Each..... **\$2.95**
No. 23D74. Ukulele. **\$1.39**
Each.....
No. 23D75. Banjo. **\$1.49**
Each.....

⑤ ALL MAHOGANY UKULELE

● Screwed bridge. ● Inlaid Position Markers. Handsome appearance with fine tone quality makes this a spectacular buy. This instrument will deliver lots of pleasure and stand a lot of hard use. Genuine mahogany body is a real beauty with its deep brown natural mahogany finish. You'll marvel at the brilliantly full rich tone. Shpg. wt. 1 lb.

No. 40B169. B-A Special..... **\$3.95**
No. 40B170. Leatherette Carrying Bag for above...\$1.25

⑥ DELUXE BARITONE UKE

Tuned same as first four strings of regular guitar. Seasoned mahogany, fingerboard of finest rosewood with 8 inlaid pearl position markers. Geared Guitar type machine heads for non-slip action. Steel third and fourth strings. Screwed bridge. Real quality at a fantastic low price. Shpg. wt. 4 lbs.

No. 40C171. Special Each..... **\$9.95**
No. 40C172. Leatherette Carrying Bag for above...\$4.95

⑦ FOLK BANJO

Five string, sixteen bracket model fine quality banjo with steel reinforced neck. Ultrasonic tone. Maple body. Inlaid position markers. Arm rest, adjustable tension tail-piece. Geared tuning pegs.

No. 40C173. Shpg. wt. 8 lbs. B-A Special..... **\$34.95**
No. 40C174. Leatherette Carrying Bag for above...\$5.95



STANDARD SIZE STUDENT GUITAR

\$12.95

B-A's SPECIAL
LOW PRICE

You can pay a lot more money but you can't find a better guitar for the student. Not a small guitar but a full standard size instrument with steel reinforced neck. Trimmed edge and sound hole. Inlaid pearl position markers. Chromed tail-piece. Pick guard. Lustrous shaded finish. Shpg. wt. 6 lbs.

No. 40B160. B-A Special..... **\$12.95**
CARRYING BAG for above.
No. 40A161. Special..... **\$5.95**



EASY TO PLAY A GUITAR!



FINEST ACTION ELECTRIC GUITARS BY TEISCO DEL REY WORLD'S LARGEST MAKER OF ELECTRIC GUITARS

You always get fast, dependable action from a B-A Electric Guitar. Precise adjustment of strings, frets, nut and bridges provide this. Teisco Del Rey's action is sensitive to your slightest touch. This fine action lets you make beautiful music for hours on end... with the greatest of ease. The very finest materials and craftsmanship are the accepted standards. Advanced technological research and constant improvements are responsible for the new compression tremolo, the universally adjustable floating bridge, the ultra high sensitive pick-ups, and many other innovations which contributed towards the superb tonal quality of your Teisco electric guitar.

① DELUXE TWO PICK-UP ELECTRIC WITH TREMOLO

Beautifully styled double cut-away electric guitar with two adjustable pick-ups; compression tremolo, friction free adjustable chrome roller bridge. Volume and tone controls. Neck is laminated for extra strength and features a 22 fret rosewood fingerboard with 10 inlaid position markers. An etched and polished striped plate protects the handsome lacquered finish. Length 38". Shpg. wt. 12 lbs.
No. 40B240. B-A Special. \$39.95
No. 40C157. Case for above. B-A Special. \$7.95

② DELUXE 3 PICK-UP ELECTRIC GUITAR WITH TREMOLO

Double cut-away three pick-up electric guitar with chrome compression tremolo; friction-free adjustable chromed roller bridge. Volume and tone controls and three standby switches. The removable, adjustable neck is laminated for extra strength and features a 22 fret rosewood fingerboard. Beautiful lacquered hardwood body is shaped both front and back and is protected by an etched and striped plate. Length 38 1/4".
No. 40C149. Shpg. wt. 14 lbs. B-A Special. \$59.95
No. 40C157. Contoured Case. \$7.95

③ TWO PICK-UP SLIMLINE GUITAR WITH TREMOLO

Beautiful detailed double cut-away thin-line electric guitar with 2 ultra-sensitive, adjustable pick-ups. Friction free adjustable roller bridge, chrome compression tremolo. Individual noiseless velvet-touch standby switches. Volume and tone controls. The delicately arched body is 1 3/8" thin, bound with decorative celluloid both front and back, and is protected with a pick guard and control panel guard. Removable and adjustable neck is laminated for extra strength and features a 19 fret rosewood fingerboard 39x13 3/4" W. Shpg. wt. 14 lbs.
No. 40B241. B-A Special. \$69.95
No. 40C157. Contoured Case. \$7.95

④ SUPER DELUXE 4 PICK-UP

Modern and versatile instrument has everything for the professional guitarist. 4 adjustable, electro-magnetic pick-ups, universally adjustable friction free deluxe roller bridge. Chrome-plated Go-Go tremolo; volume and tone controls; 4 standby switches. Spring loaded muffler and 3 position selector switch for Solo/Rhythm and Super Bass sounds. The body is shaped and beveled front and back for perfect body comfort. The slim fast action neck is both removable and adjustable. It is laminated for extra strength and features a 22 fret rosewood fingerboard. All working surfaces of the beautiful lacquered body are protected by a handsome striped chrome plate. Length 39 1/2". Shpg. wt. 18 lbs.
No. 40B242. B-A Special. \$99.95

CONTOURED CASE FOR THESE GUITARS



SINGLE PICK-UP ELECTRIC GUITAR

\$29.95

COMPLETE WITH CASE, STRAP AND INSTRUCTION BOOK

Beautifully designed double cut-away electric guitar featuring an adjustable deluxe pick-up; adjustable chrome integral bridge and tail-piece. Volume and tone controls. The removable steel reinforced neck features a 22 fret rosewood fingerboard with 10 inlaid position markers. Length 38".
 Guitar above complete with Case, instruction book and strap.
No. 40D144. Guitar Only. Shpg. wt. 12 lbs. \$22.88
B-A Special. \$29.95
No. 40C157. Contoured Case for above. B-A Special. \$7.95

DRUM SETS AT B-A'S BIG SAVINGS

ALL AMERICAN
MADE BY REMCO
UNBEATABLE FOR
PRICE AND
QUALITY



PICADILLY COMPACT 4-PC. DRUM OUTFIT

Designed with the young drummer in mind. Gives flawless performance every time—brings out the best in any drummer's style.

\$99⁹⁵

All are of multi-ply Dura-tone shell construction. 4-Piece set comes complete with:

12x5" Power Snare—New "rapid response" snare for precise definition, fast stick rebound. Features tension head adjustment, and adjustable built-in tone control.

18x11" Bass—Sixteen highly-polished pre-tensioned clamps keep this drum "tone-tuned" at all times.

10x7" Tom-Tom—Features quick lock connector and heavy plated steel key tension rods.

12x12" Tom-Tom. This larger Tom-Tom gives a deeper throatier sound. Complete with tension head adjustment and 10" chrome finished adjustable legs.

Cymbal—10" spun brass for brilliant, dramatic reverb.

Cowbell & Block—Sharp, solid sturdy block gives great resonance. Cowbell made of tuned metal that rings loud and clear.

Bass Foot Pedal—Sturdy "balanced-action" 3-ply felt beater ball.

Adjustable Snare Stand—Neat, easy-action stand adjusts in seconds for easy handling, easy travel.

Bass Muffler—For wide range tone control.

2 Tension Keys—For precise tuning.

Specify Color: Black Diamond Pearl, Red Sparkle or Silver Sparkle. **\$99.95**
No. 40B273. Wt. 28 lbs. Complete as described.



4-PIECE DRUM SET **\$199⁵⁰** 9 PIECES IN ALL

Best drum buy we have ever seen! Positively fantastic quality at an amazing low price. Beautiful mother of pearl finish. Available in black, red or white.

HERE'S WHAT YOU GET:

- 5 1/2 x 14" Snare Drum. 6 ply 8 lulls, separate, triple flanged hoops, internal tone control, double throw-off with snare stand.
- 14 x 22" Bass Drum. 6 ply separate tensions attached cymbal mount, attached tom-tom mount, disappearing spurs with heavy duty foot pedal.
- 9 x 13" Shell Mount Tom-Tom. 6 ply, separate tensions.
- 16 x 16" Floor Tom-Tom with legs, 6 ply, separate tensions.
- Deluxe Hi-Hat with 2-4" Cymbals.
- 1 Cowbell. 7. 1 Set Drum Sticks. 8. 1-18" Cymbal.
- 1 Set Push-Pull Brushes

Shipped in 2 cartons. Wt. 85 lbs.
Complete set as described above. Specify Color.
No. 40B175. Special. **\$199.50**

B-A's AMPLIFIERS REPRESENT THE BEST BUY AVAILABLE FOR BEGINNERS AND PROFESSIONAL MUSICIANS ALIKE!



B-A AMPLIFIER WITH TREMOLO

\$54⁹⁵ WITH TREMOLO

LESS TREMOLO **\$39.95**

- 5 watts output.
- Three inputs.
- Advanced solid state circuitry.
- Heavy duty oval speaker.
- Tremolo foot switch included.

Provides finest reproduction with complete set of functions. Has heavy duty oval speaker for distortion free performance. Features tremolo speed and strength controls, chromed volume and tone controls, pilot light, fused. Acoustically designed solid wood enclosure covered with scuff-resistant black vinyl. Slanted front covered in co-ordinated black and silver grille cloth. Case size 19 1/4" x 15" x 8". Wt. 12 1/2 lbs.

No. 40B270. Each. **\$54.95**
No. 40B271. As above less Tremolo. Wt. 12 lbs. Each. **\$39.95**



B-A STUDENT AMPLIFIER

\$29⁹⁵

ALL SOLID-STATE

- 3 watts output.
- Two inputs.
- Chromed volume and tone controls.
- Oval speaker for big sound.

Power output and tone depth exceed all other comparably priced amplifiers on the market today. All solid state assures complete reliability. Features two inputs, volume, tone control, on/off switch. Oval speaker in an acoustically designed cabinet gives amazing performance. Case size 14 1/2 x 11 3/4 x 6". Weight 6 1/2 lbs.

No. 40B272. Each. **\$29.95**

B-A's AMERICAN MADE TAMBOURINES



All replaceable goatskin heads. Single row jangles, 8" head.

No. 40B232. Each. **\$6.95**

DELUXE DOUBLE ROW JANGLES

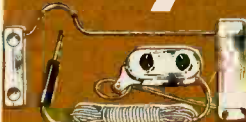
With 10" head. Features metal head adjustment.

Shpg. wt. 5 lbs. No. 40B237. Each. **\$11.95**

MUSICAL INSTRUMENT PICK-UP WITH TONE AND VOLUME CONTROL

Same type, design, and quality as the most expensive pickups. Vibrant response over the entire musical range. Clamps to fork or strings without tools. Felt-base mike unit fits under strings, slides up and down to create best tonal effect. Use with metallic stringed instruments. Separate tone and volume control unit has mounting flange. With 8 ft. cable and plug. Bright chrome plate. Big import savings. Shoa. wt. 1 1/2 lbs. No. 22C239. Special. **\$7.95**

MAGNETIC TYPE, LIKE Big Import Savings
BEST QUALITY PICKUPS **\$7⁹⁵**



CONTACT MIKE FOR MUSICAL INSTRUMENTS

Operates with music or public address amplifier like an ordinary crystal mike, except designed for direct mechanical contact to instrument. Provides brilliant tone over entire musical range. Fine for guitars, pianos, etc. High output crystal element is high impedance type. Housed in tiny gold anodized aluminum case 1 7/8" long, 3/4" wide with slotted attachment bracket. Has 6 ft. shielded cable and brass phone plug. Imported at great savings. No. 17B593. Special, Net Ea. **\$2.79**

\$2⁷⁹

HIGHLY SENSITIVE CRYSTAL TYPE



TEISCO DEL-REY GUITAR AMPLIFIERS!



LOWEST PRICE BASS AMPLIFIER YET

\$64⁹⁵

- Two inputs.
- Heavy duty hi-fi speakers for big bass sound.
- All solid state.

Never before a Bass Amplifier at such a fantastic low price! Feature packed with chromed volume and tone controls, pilot light, acoustically designed and handsomely styled solid wood enclosure covered with scuff-resistant black grained vinyl. Slant front for optimum sound projection is covered in black and silver grille cloth. Size 20 1/4" x 17" x 8". No. 40B254. Wt. 15 lbs. **\$64.95** Net.



PROFESSIONAL 40-WATT AMPLIFIER

WITH REVERB AND TREMOLO \$199⁵⁰

- Three inputs.
- Heavy magnet 12" speaker.
- Two silent foot switches.

A truly rugged combo-amplifier every feature the professional could desire. Three inputs. Controls for reverb tremolo depth and speed, bass and treble tones. On/off switch with standby position. The contrasting black and polished metal control panel has satin finished metal knobs. 3/4" plywood case is covered with handsome scuff-resistant vinyl and a black and silver grille. Slant back legs, fit tightly to side of amplifier, allow better coverage of a large room by projecting sound upwards. Legs and case fittings are bright chrome plated 115 V. AC operation. Size 26" x 20" x 9". **\$199.50** No. 40B255. Wt. 40 lbs. Net.

NEWCOMB

SOUND COLUMNS

- No hot spots — sound is equal throughout auditorium or hall.
- Highest quality music reproduction.
- Handle for easy carrying.

Model CS48. Most Practical Column on the Market. Combines exceptional directivity with portability. Excellent efficiency, power handling peak 60 watts. 25 foot cord and plug in "hide-away" cord compartment — Extension jack and switch. 39 7/8" x 11 1/4" x 6 3/8". Wt. 22 lbs. No. 40B251. **\$69.50** Net.

Model SCS412. Best Column Speaker ever heard. Contains 4-12" speakers specially designed for column use. Power handling peak a husky 120 watts, makes for intelligibility, dependability and low distortion. A man-size system stands 56" high, 15" wide, 7 1/2" deep. Wt. 42 1/2 lbs. 25 foot cord, "hide-away" cord compartment, series type jack with shorting switch. **\$139.50** 40B253. Net.



STEREO HEADPHONES FOR THE ULTIMATE IN LISTENING PLEASURE



Koss SP3X



KOSS K0727



KOSS PRO-4



SUPEREX STM



SPECIAL VALUE IMPORTS

• COMPLETE STEREO SEPARATION • BRILLIANT REALISM • PERSONALIZED PRIVATE LISTENING

WHY STEREO HEADPHONES?

Provides absolute stereo separation and lets you hear startling new sounds from your favorite music. Reproducers fit snugly to your ears shutting out 95% of all outside noise—assures you of intimate private listening without disturbing others.

① **KOSS MODEL SP3X.** Will reproduce any sound the human ear can hear. Frequency response 10-15,000 cps. Impedance 4-16 ohms. Soft sponge foam ear and head cushions are comfortable even over extended periods of listening. With 8 ft. cord and plug and jack assembly for hookup to speaker voice coil leads. Wt. 2 lbs. **\$24.95** No. 22A364. Model SP3X. Net Each.

② **KOSS MODEL K0727.** New design, fully adjustable. Wide range, highly sensitive reproducers feature distortion less than 1%. For 4-8-16 ohm program source up to 60 watts per channel. Foam filled ear cushions are removable. New 8 ft. coiled cord adds convenience. **\$34.95** No. 22B365. Model K0727. Net Each.

③ **KOSS MODEL PRO-4.** Professional headset engineered to meet the most rigid requirements of audio engineers, laboratories and serious audiophiles. Extremely rugged construction makes it shock-proof and shatter-proof. Adjustable spring steel headband and fluid filled ear cushions are designed to fit head contour, thus forming a better seal against outside noise. Unusually smooth frequency response 30-20,000 cps, 4 ohm impedance. Has 8 ft. cord and plug. **\$45.00** No. 22A392. Shpg. wt. 2 lbs. Net Each.

KOSS JUNCTION BOX

MODEL T-5. For connecting one or two stereophones to existing stereo or monaural systems. Impedance 4-16 ohms. Contains two volume controls for controlling sound level in each phone. Has two output jacks for stereo or monaural use. Equipped with speaker off-on switch for personalized listening. Shpg. wt. 1 lb. **\$8.95** No. 22A387. Model T-5. Net Ea. **\$8.95** 20 Ft. 3-Cond. Extension Cord for Stereo headphones. Male plug one end, female jack other end. **\$3.95** No. 22B389. Model STEX-20. Wt. 8 oz. Net Each.



\$3.95

④ **THE POPULAR SUPEREX MODEL STM**
Has separate woofer and tweeter in each phone with a miniaturized crossover network, plus an individual tweeter control for each phone. Ideal for listening to your prized records at full volume without disturbing others, practicing the organ in privacy, monitoring stereo tape recorders. Styra-foam ear cushions, adjustable headband, cord and 3-conductor plug included. Response 20-20,000 cps. Impedance 6-8 ohms. **\$29.95** No. 22A391. Model STM. Net Each.

SPECIAL VALUE STEREO PHONES
⑤ **ENJOY PRIVATE LISTENING AT THE VERY LOWEST COST WITH THESE FINE IMPORTED HEADPHONES**
Wide range frequency response 25-17,000 cps, big comfortable soft foam rubber cushions with "velvet" covering, leather padded adjustable headband—features generally found in more costly phones—all at tremendous comparative savings. Comes with 5 1/2 ft. cord and regular 1/4" three-way plug. **\$9.95** No. 22A394. Wt. 1 lb. Import Special.

⑥ **DELUXE STUDIO QUALITY STEREO PHONES WITH JUNCTION BOX—RESPONSE 25-18,000 CPS.**
B-A has sold hundreds of these exceptionally nice phones. Each earpiece actually contains a high quality wide-range miniature dynamic speaker with its own miniature volume control for perfect stereo balance and beautiful tonal quality. Lightweight, soft foam rubber padded, comfortable to wear and well constructed. Has 7 ft. cord, 1/4" three-way plug and junction box for 4-8-16 ohm amplifier output. **\$14.95** No. 22A67. Import Special.

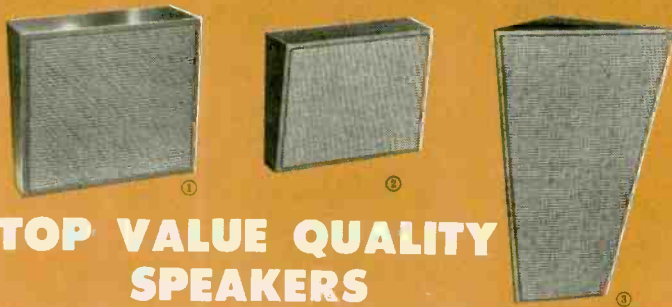
KOSS MODEL A-1220 STEREO PHONE AMPLIFIER

A complete wide range stereo amplifier for monitoring or listening. Connects directly to preamp outputs of tape recorder or FM tuner; or to a ceramic cartridge phono pickup. Separate channel controls, jacks for one or two stereo phones. 115 V. AC powered. **\$34.95**



No. 22B366. Net Each. **\$34.95**

Argos THINLINE AND PRESTIGE WALL BAFFLES AND SPEAKERS



TOP VALUE QUALITY SPEAKERS

① ARGOS THINLINE BAFFLES

Good looking, excellent quality. Easy to install with the exclusive Argos speedy mounting clip. Has quality 8" speaker with 1 oz. magnet that handles all low-level sound applications, such as TV, radio extensions, PA background music. 6 watts capacity, 8 ohms voice coil. Baffle is vinyl clad in your choice of walnut or blond wood grain, with cane grill cloth. Size, 9 3/4" H. x 12 1/4" W. x 4 3/8" D. Shpg. wt. 4 1/2 lbs.

No. 34B95. Model WB-108CS. Baffle with Speaker. Net Each.....\$7.75

No. 34B97. Model WB-108CSV. Baffle with Speaker & Volume Control.....\$9.70

Baffle with Speaker, Volume Control and 70.7 Volt Transformer for use in multiple speaker installations. Shpg. wt. 5 lbs.

No. 34B98. Model WB-108CSVT. Net Each.....\$11.90

② ARGOS PRESTIGE BAFFLES

The finest you can buy. New heavy duty 8" Jensen speaker with 6 oz. magnet has 15 watt capacity, handles both voice and music superbly. 8 ohms impedance. Fine furniture finishes in Antique Birch or Dusk Walnut. 9 3/4" H. x 11" W. x 5 3/8" D. Shpg. wt. 5 3/4 lbs.

No. 34B99. Model PB-508CS. Baffle with Speaker. Net Each.....\$11.50

No. 34B104. Model PB-508CSL. Baffle, Speaker & L-Pad. Net Each.....\$13.75

Baffle, Speaker, L-Pad and 70.7 Volt Transformer for use in multiple speaker installations. Shpg. wt. 6 1/4 lbs.

No. 34B105. Model PB-508CSLT. Net Each.....\$15.95

③ ARGOS CORNER BAFFLES

Efficient slant-front corner design aids performance because it aims sound downward and corner location increases effective air mass. Easily installed with Argos speedy mounting clips. Front clips-in. Has 8" Jensen speaker with 6 oz. ceramic magnet, handles 15 watts, 8 ohms impedance. Vinyl clad, in choice of walnut or blond finish. 18" H. x 12 1/2" W. and 6 3/4" D. at top.

No. 40A279. SCB-208S. Shpg. wt. 6 lbs. Net Each.....\$13.65

NEW BI-DIRECTIONAL ARGOS HALLMARK



Speaks 2 ways at once. Ideal for corridor paging, etc. Mounts on ceiling or wall. 8" dual-cone speaker with 4.8 oz. magnet handles 10 watts, 8 ohms. In handsome Antique Birch or Dusk Walnut furniture finish with neutral Belgian linen grill. 10 3/4" sq. x 3 1/2" D. Specify Birch or Walnut. Shpg. wt. 6 lbs.

No. 34B92. Model TCB-8S. Net Each.....\$13.95

ART FRAME "TROUBADOR" SPEAKER

Smartest new look in speakers, furniture-finished in rich Dusk Walnut or Antique Birch with Belgian linen grill cloth. Handles 15 watts, has 8" dual cone speaker with 8 ohm impedance. Mounts instantly in square or diamond position. 13 1/4" sq. x 3 1/2" D. Shpg. wt. 5 1/4 lbs.

No. 34B94. Model TSW-8S. Net Each.....\$12.95

ARGOS SOUND COLUMNS

Model ESD-1061
Model SD-1060



Without question, the most effective PA speakers ever developed, Argos Sound Columns actually "focus" sound so one column can cover an entire audience evenly. No loud spots or unintelligible areas. Used in churches, auditoriums, meeting rooms, outdoors, wherever sound is required.

Units contain 6, 8 or 10 special speakers arranged to provide vertical dispersion from 15 to 22 degrees and horizontal dispersion 120 degrees. (Compare this compressed pattern with normal speaker dispersion.) Units are quickly mounted with speedy mounting clips.

Model SD-1060. 6-Speaker System for voice reinforcement in rooms up to about 60 ft. 30 watts power, 16 ohms. Clad in walnut wood-grained vinyl with attractive cane grill.

No. 40B135. Shpg. wt. 10 lbs. Net Each.....\$42.50

Model ESD-1061. 6 Speaker System for voice and music reinforcement in rooms up to about 60 ft. 100 to 12,000 cps response, 30 watts power, 16 ohms impedance. Cabinet in beautiful "Flair" design of genuine walnut with oiled finish.

No. 40B280. Shpg. wt. 16 lbs. Net Each.....\$49.95

Model SD-1100. 10 Speaker System with 50 watts power for voice reinforcement in rooms up to 200 ft. Jumpers convert to 8 speakers for 125 ft. rooms. 16 ohms. 200 to 10,000 cps response. Walnut grain vinyl finish, cane grill.

No. 40B134. Shpg. wt. 26 1/2 lbs. Net Each.....\$67.00

DELUXE DAVIS CORNER ENCLOSURE

FOR 8" AND 12" SPEAKERS

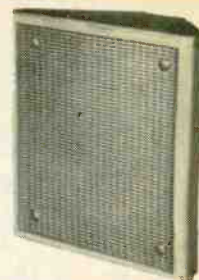
A completely enclosed baffle for corner or wall-ceiling installation. Scientifically designed of extra heavy wood with construction that assures it to be vibration and rattle free. Speaker opening is of bass reflex design assuring maximum bass response. Interior is lined with acoustical insulation. Hi-fi Saron grille material used with gold ornamentations. Beautiful furniture finish in walnut or natural blonde. Specify color choice.

Model C-8 for 8" speakers. Size 14 x 12 1/2 x 6 1/2". Shpg. wt. 7 lbs.

No. 34A175. Net Each.....\$10.42

Model C-12 for 12" speakers. Size 20 1/2 x 17 3/4 x 9". Shpg. wt. 12 lbs.

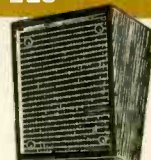
No. 34A155. Net Each.....\$14.25



DAVIS HARDWOOD WALL BAFFLES

Built of solid hand rubbed furniture finished walnut or oak. Mortised and glued construction with 3/8" front panel and full 3/4" sides. Speaker mounts behind modern non-sag saron plastic grille. Strictly "at home" in the finest paneled interiors where beauty of design and decor are essential. For halls, school rooms, paging systems, wherever good sound distribution is necessary. Complete with speaker mounting hardware and wall hanger. Shpg. wts.: 8 inch, 3 lbs.; 12 inch, 6 lbs.

Stk. No.	Speaker Size	Finish	High	Wide	Deep	Net Ea.
34B244	8"	Natural Walnut	10 1/2"	10 1/4"	6 3/4"	\$5.62
34B246	8"	Blonde Oak	10 1/2"	10 1/4"	6 3/4"	5.62
34B245	12"	Natural Walnut	14 1/4"	14"	9 5/8"	7.50
34B247	12"	Blonde Oak	14 1/4"	14"	9 5/8"	7.50



LOWEST PRICE ANYWHERE!

PORTABLE SPEAKER CASE

TAKES 2-12 INCH SPEAKERS

\$14.30



DUAL SPEAKER - AMPLIFIER CASE. For TWO 12" speakers, amplifier space of 14x16 1/4x8"; overall size, 15x17 1/2x20". Plywood leatherette covered. No. 40A131. Wt. 13 lbs. NET EACH.....\$14.30

SWITCHCRAFT CONTROL UNITS



① MULTIPLE SELECTOR SWITCH. Accepts up to 5 input circuits with circuit switch connecting any one input to single output. Inputs are labeled—AM, FM, Phono, Tape and Aux. Tan finished, completely shielded housing. All inputs are phono jacks. Mounts to panel or cabinet. Complete with mounting screws.

No. 20A198. Model 664. Net Each.....\$3.57

② STEREO SELECTOR SWITCH. With one switch you can select any one of 3 stereo inputs to one stereo output. Ideal for switching tape, tuner, or phono to amp. 4 pairs of phono jacks mounted on tan metal box 2"x2"x1". With instructions and mounting hardware.

No. 20A179. Type 668. Net Each.....\$4.17

③ SPEAKER CONTROL WITH T-PAD. A constant impedance T-Pad mounted on natural brushed brass wall plate for remote control of any stereo, hi-fi, or PA system speaker. Ivory knob with black escutcheon, white letters. Rated 4 watts (15 watts audio). Plate size 2 3/4x4 1/2". Fits standard outlet box.

20A181. Type 651—With 8 Ohm T-Pad Choice

20A182. Type 652—With 16 Ohm T-Pad Each.....\$6.57

Same as above but furnished with 8 Ohm L-Pad.

No. 20A183. Type 656. Net Each.....\$4.50

MULTI-SPEAKER SELECTOR SWITCH



A seven-position switch mounted on an attractive natural brushed brass wall plate. Selects any one of 3 speakers, any 2 or 3, or all at once. Ideal for remote speakers in different rooms of your home. Constant impedance maintained regardless of switch position. Ivory knob with black escutcheon, white letters. Plate size 2 3/8x4 1/2". Fits standard outlet box or can be mounted on speaker cabinet.

No. 20A184. Type 655. Net Each.....\$3.57

\$19.95 PAIR SOLID STATE TELEPHONE INTERCOMS

AMAZING POWER & CLARITY



Powerful solid state amplifier built into each handset. Only 2 "C" flashlight batteries required for each handset. Simple to install with 2 conductor cable. Push button call system buzzes other handset. Separate push-to-talk button. No current drain when in standby. Each phone supplied with 5 ft. retractable cord, junction box and wall hanger. Impact resistant two-tone grey plastic. Special import value.

No. 36C162

Special Per Pair.....\$19.95

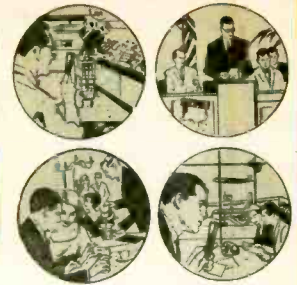
No. 36A163. Battery Kit.....56c

No. 2B54. 2 Cond. Cable

Per Ft.....3c



FOR THE BEST BUY IN SOUND SELECT FROM B-A's OWN QUALITY AMPLIFIERS



**GUARANTEED ONE FULL YEAR AGAINST DEFECTS
IN MATERIALS AND WORKMANSHIP!**

Full Year Guarantee Covers Labor and Parts. Just return the Amplifier to us and at our option we will repair or replace it without cost to you.

B-A's Amplifiers have attractive functional styling, in gray hammer-
laid finish, all have illuminated control panel, are conservatively
power rated with tube plate voltages well within the manufacturer's
recommendation. Rated for continuous duty.

Larger output transformers assure wide range frequency response.
All units have push-pull output, with excellent output regulation.
Included are constant voltage outputs for 25 and 70 volt lines, high
input sensitivity with low noise and hum . . . fader type gain control
for phono auxiliary. All except the BA-10 have separate bass and

treble controls, and master volume control.
Exclusive features of the BA-20, BA-35, BA-50 and BA-10C: two
microphone channels, exclusive power monitor indicates power out-
put, booster amplifier output, silicon rectifier power supply (except
BA-20).

Changer phonograph top available.

All except BA-30 Watt Universal Mobile operate on 110-125 V. AC,
60 cycles only.

B-A's 35-WATT PA AMPLIFIER

Perfect power for small theatres, bands, churches, stores, auditoriums, carnivals, night clubs, industrial plants, etc. Low price and quality construction assures extra profits when used in rentals. Separate bass and treble tone controls permits adjustment to meet all acoustical conditions. Provides coverage up to 100,000 square feet when used with trumpet type speakers. Input mixing is for 2 microphones and phono channels. Phono top may be added, (see next page).

Specifications: Tubes and Diodes: 2-6EU7, 6C4, 2-7868, 5 silicon rectifiers. Freq. resp. ± 2 db 20 to 20,000 cps. **Sensitivity:** mic. .002 V.; phono and aux. .2 V.; mag. phono .01 V. **Controls:** Microphone 1, Microphone 2, phono and aux. fader, master volume, bass, treble, power switch, output indicator level adjust, mic. 2—mag. phono switch. Tone control range: bass +8 to -15 db @ 50 cps; treble +7 to -13 db @ 10,000 cps. **Output impedance:** 4, 8, 16 ohms, 25 volt (18 ohm), 70 volt (143 ohm), high impedance for booster amplifier. Output regulation 2 db. **Hum and noise:** phono 70 db; mic. 60 db below rated output. Dimensions: 15 1/4" W. x 6" H. x 10" D. Shpg. wt. 8 lbs. No. 33B147. (Less Phono Top). Net Each.....**\$59.50**

B-A's 10-WATT PA AMPLIFIER

Ideal for store demonstrations, auctions, clubs, churches, offices, classrooms, etc. Full 10 watts of power for improved performance sufficient for 2-12" speakers. Separate volume controls permit mixing microphone and phono. Has two speaker output sockets.

Specifications: Tubes—6EU7, 2-6BQ5, 6V4. Freq. resp. ± 2 db 40 to 15,000 cps. **Inputs:** Microphone (high imp.), phono, auxiliary. **Sensitivity: Mic.:** .0035 V.; **Phono and Aux.** .25 V. for rated output. **Controls:** Microphone, phono and auxiliary fader, tone, power switch. **Output impedance:** 4, 8, 16 ohms, 25 volt (62.5 ohm) and 70 volt (500 ohm). **Hum and Noise:** Phono 65 db; Mic. 55 db below rated output. Dimensions: 10 1/2" W. x 5" H. x 6 1/2" D. Shpg. wt. 12 lbs. No. 33B141. Net Each.....**\$32.95**

B-A's 20-WATT PA AMPLIFIER

Meets power requirements of chapels, clubs, schools, restaurants, industrial plants, orchestras, paging systems. Ample output for 4-12" PM speakers. New improved circuit using 2-6BQ5/EL84 high output tubes gives wide range frequency response. Covers up to 50,000 square feet when used with trumpet type speakers.

Specifications: Tubes—2-6EU7, 2-6BQ5/EL84, 1-6V4. Freq. resp. ± 2 db 30 to 15,000 cps. **Inputs:** 2 microphones (high impedance), phono, auxiliary. **Sensitivity:** Mic. .003 V.; phono and aux. .25 V. **Controls:** Mic. 1, Mic. 2, phono and aux. fader, master volume, bass, treble, power switch, output indicator level adjust. Tone control range: Bass 0 to -15 db; Treble 0 to -15 db. **Output impedance:** 4, 8, 16 ohms, 25 volt (31 ohms), 70 volt (250 ohm), high imp. for booster amplifier. Output regulation 3 db. **Hum and noise:** phono 75 db; mic. 60 db below rated output. Dimensions: 15 1/4" W. x 6" H. x 10" D. Shpg. wt. 17 lbs. No. 33B145. (Less Phono Top). Net Each.....**\$49.95**

B-A's 60-WATT PA AMPLIFIER

Super amplifier conservatively rated for long life in continuous operation. Ideal for large installations such as auditoriums, halls and stadiums, factories, fair grounds, airports, rail yards, hotels, outdoor gatherings, etc. Perfect for voice or music. It can be used with up to 12 trumpet type speakers or 16 cone type 12" PM speakers or any combination of the two types.

Specifications: Tubes and Diodes: 2-6EU7, 6C4, 2-6GT5, OA2, 5 silicon rectifiers. Freq. resp. ± 2 db 20 to 20,000 cps. **Inputs:** 2 microphone (high imp.), phono, aux. mag. phono. **Sensitivity:** Mic. .003 V., phono and aux. .3 V, mag phono .013 V. **Controls:** mic. 1, mic. 2, phono and aux. fader, master volume, bass, treble, power switch, output indicator level adjust, mic. 2—mag. phono switch. Tone control range: bass +8 to -15 db @ 50 cps; treble +7 to -13 db @ 10,000 cps. **Output imp.:** 4, 8, 16 ohms, 25 volt (10.0 ohm), 70 volt (84 ohm), high imp. for booster amplifier. Output regulation 2 db. **Hum and noise:** phono 72 db, mic. 62 db below rated output. Dimensions: 15 1/4" W. x 6" H. x 10" D. Shpg. wt. 45 lbs. **\$79.95**
No. 33B149. (Less Phono Top). Net Each.....

B-A's TOP-SELLING AMPLIFIER!

35-WATT
So powerful & dependable
it answers 90% of all
needs for PA amplifiers

\$59⁵⁰



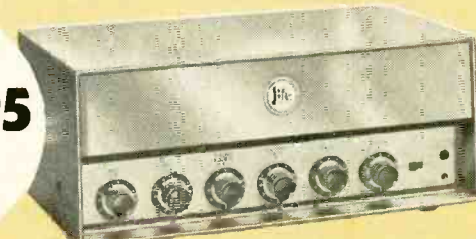
**B-A's
10-WATT
\$32⁹⁵**
NOTHING
DOWN



**B-A's
20-WATT
\$49⁹⁵**
NOTHING
DOWN



**B-A's
60-WATT
\$79⁹⁵**
NOTHING
DOWN



See next page for other fine buys in B-A Amplifiers and for 4-Speed Phono Top for use with Amplifiers on this page

MORE OUTSTANDING BUYS IN B-A's OWN AMPLIFIERS & SYSTEMS



NEW 35-WATT FM/AM RECEIVER FOR PAGING AND BACKGROUND MUSIC

\$149⁹⁵

Ideally suited for restaurants, stores, professional offices and factories. Provides a pleasant musical atmosphere as well as the functional utility of public address announcements. Music is automatically cut off at time of paging. Inputs are provided for phono, tape recorder or directly from head of tape deck. Engineered for continuous duty. Separate bass and treble controls. Phono/radio volume control. Paging volume may be pre-adjusted at time of installation for constant level output.

Specifications: FM 88-108 Mcs; AM 520-1640 KC. Sensitivity: FM 3.5 mv —30 db quieting; AM 5 mv —20 db S/N. IF bandwidth: FM 180 KC —3 db down; AM 8 KC —3 db down. Audio output power: 35 watts. Freq. resp. 50 to 15K cps. \pm 3 db. Inputs: 1 Mic, with switch (hi-Z) convert to low with transformer. 1 phono (crystal or ceramic); 1 mag. phono or low level tape. Built-in FM line antenna. Audio sensitivity—Mic: 5 millivolts. Phono: 0.4 volts. Tape or mag. phono 5 mv. low mic. 5 mv. Hum and Noise: FM 55 db at 50 mv input. AM 45 db at hi-signal input. Hi phono: 70 db below rated output. Mic. 65 db below rated output. Mag. phono 50 db below rated output.

Outputs: Speakers 4, 8, 16, 25 V. line, 70 V. line, booster and tape. Tuner: 68K ohm Z. **Tone Controls:** Bass 15 db boost, —14 db cut at 50 cps. Treble 14 db boost, —15 db cut at 15 KC. **Tubes:** (2) 12AT7, (1) 6BA6, (2) 6AU6, (1) 6BE6, (3) 12AX7, (2) 6L6GC. Silicon rectifier for power and bias supply; 1 pair 1N541 matched diodes for FM discriminator; 1N541 diode for AM detector.

Power consumption, 140 watts at 117V. 60 cy. AC, 1.3 amps. Dimensions: 17 $\frac{3}{8}$ " W, 9 $\frac{5}{8}$ " D, 6 $\frac{5}{8}$ " H. Shpg. wt. 30 lbs.

No. 33A121. Mfg. List \$199.95 **\$149.95**
Model BC350 Less Cover. Net Each.
No. 33B122 Metal Enclosure for above...\$11.25



4-SPEED PHONO TOP FOR B-A AMPLIFIERS

For all B-A Amplifiers except BA10 and BA-Mobile. For playing 78, 45, 33 $\frac{1}{3}$ and 16 RPM records. 117 V. 60 cy.

No. 33B169. Net Each. **\$17.95**

4-SPEED PHONO TOP for B-A 30-Watt Mobile Amplifier. Operates on 12-14 V. DC.
No. 33B170. Net Each. **\$29.95**

NEWCOMB 25-WATT TRANSCRIPTION PLAYER MOST ACCEPTED NAME IN THE SQUARE DANCE SET **\$154⁵⁰**

MFG. LIST \$231.95

Plays Any Size Records Up to 17 $\frac{1}{4}$ " Masters

Provides the finest high fidelity reproduction possible, both music and voice, from a truly portable unit. Outstanding tone quality provided by GE variable reluctance cartridge coupled through necessary preamp, amplifier to highest quality 12" dual-cone 30 watt speaker. Player has a separate treble, bass tone control that does not affect mike. Separate controls permit mixing of mike and phono volume. Switches provided for filtering voice and phono. Output jacks for two speakers, also for "phono" delivers phono signal only; useful for caller or M.C. who wants to monitor music without interference from own voice and "all" used to feed entire program to external amplifier, amplified monitor, or tape recorder. Motor is heavy 4-pole deluxe unit. One jack for mike and another for auxiliary equipment. Complete unit in single split case with speaker mounted in lid. Size 16 $\frac{1}{2}$ x 16 $\frac{1}{2}$ x 13 $\frac{1}{4}$ ". Net wt. 35 lbs. Shpg. wt. 40 lbs. Mfg. list \$231.95.

No. 33B119. Net **\$154.50**

B-A's 30-WATT UNIVERSAL ALL TRANSISTOR MOBILE AMPLIFIER

NO MONEY DOWN ON EASY TERMS

\$84⁹⁵



The modernistic design of this transistorized amplifier provides a convenient way of obtaining 30 watts of audio power at any location, mobile or fixed.

Operates anywhere . . . picnics, outdoor meetings, on boats, planes, cars . . . on 12 V. DC battery or 110-120 V. AC. Low current drain of .22 amps idle or 3.5 amps at full power makes it easy on battery system.

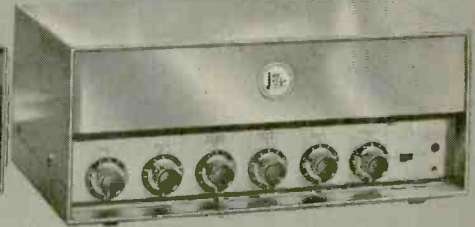
Specifications: Freq. resp. \pm 2 db 40 to 20,000 cps. Inputs: Microphone (50 to 250 ohms), phono (high impedance) Sensitivity: Mic. .0001 V., phono and aux. .15 V. Controls: mic., phono, and aux. fader, bass, treble, master volume with power switch. **Tone control range:** bass 0 to —15 db, treble 0 to —15 db. **Output impedance** 4, 8, 16 ohms. **Output regulation** 2 db. **Hum and noise:** phono 80 db, mic. 65 db. below rated output.

Semiconductors: 6 transistors, 3 diodes. Dimensions: 11" W. x 3 $\frac{1}{2}$ " H. x 8 $\frac{1}{2}$ " D. Shpg. wt. 11 lbs. (Less Phono Top).
No. 33B146. Net Each. **\$84.95**

100-WATT PA AMPLIFIER

NO MONEY DOWN ON EASY TERMS

\$94⁵⁰



Where big power is required for large auditoriums and most outdoor areas. Provides up to 150,000 cubic feet of coverage with trumpet type horns.

Specifications: Tubes and Diodes: 2-6EU7, 6C4, 4-6GT5, OA2, 5 silicon rectifiers. Freq. resp. \pm 2 db 20 to 20,000 cps. Inputs: 2 mic. (high imp.), phono, aux., mag. phono. Sensitivity: Mic. .003 V., phono and aux. .3 V., mag. phono .013 V. Controls: mic 1, mic. 2, phono and aux. fader, master volume, bass, treble, power switch, output indicator level adjust, mic. 2 mag. phono switch. **Tone control range:** bass +8 to —15 db @ 50 cps, treble +7 to —13 db @ 10,000 cps. **Output imp.** 16 ohms, 25 volt (6.25 ohm), 70 volt (50 ohm), high impedance for booster amplifier. **Output regulation** 2 db. **Hum and noise:** phono 75 db, mic. 65 db below rated output. Dimensions: 15 $\frac{1}{4}$ " W. x 6" H. x 10" D. Shpg. wt. 35 lbs. No. 33B155. (Less Phono Top).
Net Each. **\$94.50**

BOGEN AMPLIFIER ACCESSORIES



① **SR-2 Remote Volume Control.** Adjusts amplifier volume of 2 channels from up to 2000 feet. For CHB35A, CHB50, CHB-100 and MXMA. Uses 3-cond. unshielded cable. 3 $\frac{1}{4}$ " H. x 6" W. x 1 $\frac{1}{4}$ " D. Wt. 2 lbs.
No. 33A210. Mfg. List \$15.65. Net. **\$9.40**

② **LPC-4 Four-Speed Matching Phono Top.** Attaches to top of CHB20A, CHB35A, CHB50 and CHB100 . . . with tone arm, cartridge, rubber turntable mat and built-in 45 RPM adapter. Size 4 $\frac{3}{4}$ " H. x 13" W. x 9 $\frac{1}{2}$ " D. Shpg. wt. 8 lbs.
No. 33A207. Mfg. List \$41.50. Net. **\$24.90**

③ **LK-5 Control-Guard Locking Plate with Key.** Protects tampering of controls . . . for CHB20A, CHB35A, CHB50 and CHB100. 3" H. x 15 $\frac{1}{2}$ " W. No. 33A208. Wt. 1 lb. Mfg. List \$9.90. Net. **\$5.95**
④ No. 33B142. LK-9 same as above but for M1A30 and MTA60. List \$14.85. Net Each. **\$8.90**

NO MONEY DOWN

AS LOW AS **\$119⁵⁰**



B-A's 35-WATT PORTABLE SYSTEM

Completely self-contained

Features B-A's 35 watt feature-packed amplifier (listed on preceding page.), two heavy duty 6.8 oz. 12" speakers, each complete with 35' cable and plug, split type carrying case size 15x17x20" provides separate baffles for the two speakers plus convenient secure carrying case for the amplifier. Your choice of Electro-Voice regular \$85.00 list 664 cardioid dynamic microphone or the new Electro-Voice \$49.50 list 951 high quality crystal microphone. Both mikes have on-off switch, 18" detachable cable and plug and are supplied with B-A's leader value floor stand adjustable from 35" to 64". Amplifier operates from 117 V. 60 cy AC. Shpg. wt. 74 lbs. Supplied less phono top. B-A's 35 Watt System with E-V 664 Dynamic Mike. No. 49A94. Net. **\$119.50**
B-A's 35 Watt System with E-V 951 Crystal Mike. No. 49A95. Net. **\$104.95**
No. 33B169. 4-Speed Phono Top for above. **\$17.95**



4-Speeds Variable +5% to —15%

Freq. Resp. \pm 2 Db. 20 to 20,000 Cps.

BOGEN "CHB" SERIES AMPLIFIERS FOR EVERY NEED!

ALL 4 SHARE THESE QUALITY FEATURES

MORE USEABLE FEATURES THAN OTHER AMPLIFIERS SELLING FOR MUCH MORE!

- Designed for continuous, heavy duty operation.
 - Protection against circuit damage from shorting or accidental removing of speaker lines.
 - Remote control circuit permits adjustment of volume from distances up to 2000 feet with remote accessory listed at left. (On all except 20-Watt)
 - Memory markers to aid in returning controls to previously determined levels. Master volume control.
 - More reserve power. Wide frequency response 20-20,000 cps. for maximum clarity and intelligibility.
 - Simultaneous mixing of three input signals: two microphones and a tuner or phonograph. All accept magnetic phonograph cartridge and tape recorder.
 - Constant voltage output taps simplify the addition of matching transformers for multiple speaker systems.
 - Separate bass and treble controls.
 - Additional accessories include phonograph top and tamper proof locking cover.
 - Two loudspeaker plug-in sockets plus screw in terminals.
- Output impedances 4, 8, and 16 ohms, 25 V. line (18 ohm) 70 V. line (143 ohm).

NOTHING DOWN



20-WATT
MFG. LIST \$102.35

\$61⁴⁰



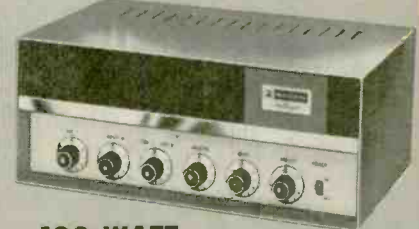
35-WATT
MFG. LIST \$124.85

\$74⁹⁰



50-WATT
MFG. LIST \$147.35

\$88⁴⁰



100-WATT
MFG. LIST \$199.85

\$119⁹⁰

20-WATT PA AMPLIFIER

Extremely versatile amplifier meets requirements for small auditoriums, restaurants, paging systems, etc. For areas up to 50,000 square feet. Frequency response of 20-20,000 ± 2 db gives excellent quality music as well as voice reproduction. 3 inputs, one high impedance microphone, two aux. (Fader) Hi-impedance, Hi-level. Hum and noise -65 db mike, -80 db aux. below rated output. Gain 125 db microphone, 100 db aux. Sensitivity microphone: 3 millivolts, aux. 5 millivolt. Controls: 1-Mike, 1-Aux (Fader), 1-Master Volume, 1-Bass, 1-Treble, 1-Power. Tone controls: Treble (10 KC) +10 db, -16 db; Bass (50 cps) +14 db, -10 db. Tubes 1-6EU7, 1-6CA4, 2-6GW8, 1 silicon diode. Power consumption 90 watts. Operates from 105-125 V, 50-60 cy. AC. Size 15 3/4" W. x 10" D. x 6 3/4" H. Shpg. wt. 18 lbs.

No. 33A228. Model CHB20A. Mfg. List \$102.35 Net. **\$61.40**

35-WATT PA AMPLIFIER

Ideally suited for use in areas of lower noise levels and up to 40,000 cubic feet when used with trumpet type speakers. Power output 35 watts. Inputs for 2 mikes (125 db gain; 4 MV sensitivity), high impedance; 1 magnetic phono (115 db gain; 12 MV sensitivity) and 2 aux. (100 db gain; .2 volt sensitivity), high impedance, high level. Controls are Mike #1 Volume—Mike #2 Volume, Fader for 2 auxiliary inputs—Master Volume—Bass—Treble—Power Switch—Magnetic Phono Switch, provision for remote control of Mike #1 and Mike #2 or magnetic phono. Tubes (6) 1-6EU7, 2-7868, 1-12AX7, 1-6CA4, 1-6C4, 105-125 V. AC. 50-60 cy. Size 6 3/4" H. x 15 3/4" W. x 10" D. Shpg. wt. 18 lbs.

No. 33A236. CHB35A Mfg. List \$124.85. Net Each. **\$74.90**

50-WATT PA AMPLIFIER

Conservatively rated for long life in continuous operation. For groups up to 8,000 people or areas up to 60,000 cubic ft. when used with trumpet type speakers. Inputs for 2 mikes (120 db gain; 5 MV sensitivity), high impedance; 1 magnetic phono (110 db gain; 15 MV sensitivity), 2 aux. (95 db gain; .3 V. sensitivity), high imp., high level. Controls: Mike #1 (95 db gain; .3 V. sensitivity), Mike #2 Volume, Fader for 2 aux. inputs, Master Volume, Bass, Volume, Mike #2 Volume, Fader for 2 aux. inputs, Magnetic Phono Switch, provision for remote control of Mike #1 and Mike #2 or Magnetic Phono. Tubes (5) 1-6EU7, 1-12AX7, 2-6L6GC, 1-6C4 and selenium rectifier. 105-125 V. AC, 50-60 cy. Size 6 3/4" H. x 15 3/4" W. x 10" D. Shpg. wt. 21 lbs.

No. 33A229. CHB50. Mfg. List \$147.35. Net Each. **\$88.40**

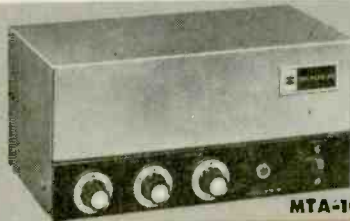
100-WATT PA AMPLIFIER

Provides ample power for large auditoriums and vast outdoor areas. Provides up to 150,000 cubic feet of coverage with trumpet type horns. Inputs: 2 Mike (125 db gain; 5 MV sensitivity), high imp.; 1 magnetic phono (115 db gain; 15 MV sensitivity), 2 aux. (100 db gain; .3 volt sensitivity), high impedance, high level. Controls: Mike #1 Volume, Mike #2 Volume, Fader for 2 aux. inputs, Master Volume, Bass, Treble, Power Switch, Magnetic Phono Switch, provisions for remote control of Mike #1 and Mike #2 or mag. phono. Tubes (7) 1-6EU7, 1-12AX7, 4-7868, 1-6C4 and selenium rectifier. Size 6 3/4" H. x 15 3/4" W. x 10" D. Shpg. wt. 26 lbs.

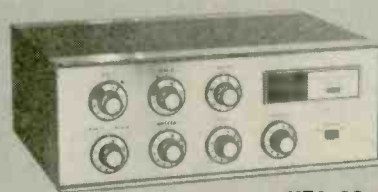
No. 33A237. CHB100. Mfg. List \$199.85. Net Each. **\$119.90**

See Preceding Page for Bogen Amplifier Accessories

NEW BOGEN MTA SOLID STATE AMPLIFIERS



MTA-10



MTA-30



MTA-60

Advanced solid state circuitry (except MTA10 output) for a lifetime of continuous performance. Plug-in circuit boards allow highest quality control.

"Thermo-Guards" permit safe operation at 150°. Built-in protection against shorted or open speaker lines.

No. 33B189. PMC-1. Plug-In Magnetic Cartridge Module for MTA-30 and MTA-60. Converts mike input to mag. phono/tape. Mfg. List \$9.85. Net Each. **\$5.90**

BOGEN MTA-10 10-WATT SOLID STATE AMPLIFIER
Perfect for low power installations where continuous operation is important. Features full 10 watts rms @ less than 3% distortion. With peak power of 20 watts. Features 1 microphone, 1 aux. and 1 optional input.

Specifications: Power resp. ± 2 db 50-16,000 cps @ 10 watts with less than 5% distortion. Freq. Resp.: ± 2 db 50-20,000 cps. Gain: Mic. 105 db. Aux. 95 db. Hum and noise (below rated output) Mic. -60 db. (weighted). Aux. -80 db (weighted). Sensitivity: Mic. 0.4 MV. Aux. 0.2 V. Tone Controls: Treble (10 KC) -23 db. Inputs: 1 Mic. (low-imp., hi-level), 1 for optional WTM-1 (500/600 ohms) transformer, 1 bridging. Output Imped.: 4 and 8 ohms; 16 ohm bal.; 25 V.C.T. (60 ohms bal.); 70 V. (500 ohms bal.) Printed Circuit Boards: 2 plug-in. Semiconductors: 3 silicon, 2 germanium, 2 silicon diode rectifiers. Power required: 30 W, 120 V. AC 50/60 cps. Size: 10 3/8" W, 6 1/2" D, 5" H. Shpg. wt. 10 lbs.

Mfg. List \$124.90.
33B191. Model MTA-10. Net Each. **\$74.95**

BOGEN MTA-30 30-WATT SOLID STATE AMPLIFIER
Suited for all medium power requirements. Made to stand up under continuous operation. Provides peak power of 60 watts with 30 watts rms @ less than 3% distortion. Features 3 microphone and 2 aux. inputs.

Specifications: Power Resp. ± 2 db 40-12,000 cps @ 30 W. with less than 5% distortion. Freq. Resp.: ± 1 db 30-20,000 cps. Gain: Mic. 125 db. Aux. 110 db. Hum and noise (below rated output) Mic. -58 db. Aux. -70 db. Sensitivity: Mic. 0.33 MV. Aux. 0.15 V. Tone Controls: Treble (10 KC) + 10.5 db to -10 db; Bass (50 cps) + 10 db to -10.5 db. Inputs: 3 mic. (200 ohm unbal.) converts to 200 ohm bal. with T525U or to mag. phono/tape head with plug-in PMC-1, 2 aux. on fader control. Output Imped.: 4, 8, 16 ohms; 25 V. C.T. (16 ohms) bal.; 70 V. (163 ohms) bal. Printed Circuit Boards: 5 plug-in. Semiconductors: 13 all silicon transistors, 6 diodes. Power required: 75 W, 105-125 V. AC, 50/60 cps or 24-30 V. DC. Size: 12 1/2" W, 9 3/4" D, 4 1/2" H. Shpg. wt. 16 lbs. Mfg. List \$199.85.

33A190. Model MTA-30. **\$119.90**
Net Each

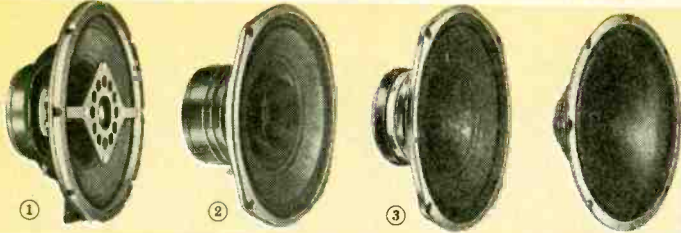
BOGEN MTA-60 60-WATT SOLID STATE AMPLIFIER
Where big power is needed under continuous operation this unit has all the requirements. Provides peak power of 110 watts with 60 watts rms @ less than 3% distortion. Features 3 microphones and 2 aux. inputs.

Specifications: Power Resp.: ± 2 db 40-10,000 cps @ 60 watts with less than 5% distortion. Freq. resp.: ± 1 db 7-20,000 cps. Gain: Mic. 125 db. Aux. 110 db. Hum and noise (below rated output) Mic. -60 db. Aux. -72 db. Sensitivity: Mic. 0.38 MV. Aux. 0.15 V. Tone controls: Treble (10 KC) + 9 db to -11 db. Bass (50 cps) + 12 db to -10 db. Inputs: 3 Mic. (200 ohm unbal.) converts to 200 ohm bal. with T525U or to mag. phono/tape head with plug-in PMC-1, 2 aux. on fader control. Output Imped.: bal. 2.6, 8 and 16 ohms; 25 V. C.T. (10.4 ohms) bal.; 70 V. (82 ohms) bal. Printed Circuit Boards: 5 plug-in Semiconductors: 13 all silicon transistors, 7 diodes. Power required: 115 watts 105-125 V. AC 50/60 cps. Size: 12 1/2" W, 9 3/4" D, 4 1/2" H. Shpg. wt. 18 3/4 lbs. Mfg. List \$249.90.

33B184. Model MTA-60. **\$149.95**
Net Each.
33B188. T525U Transformer. Net Each. **\$12.75**

JENSEN PROFESSIONAL SERIES SPEAKERS

WITH NEW CERAMIC MAGNETS FOR DISTRIBUTED SOUND

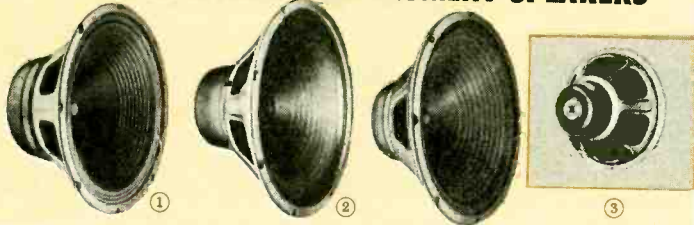


Provides outstanding performance with the New Synto-6 Ceramic Magnet on 8" speakers and Alnico V on 10" and 12" speakers. Gives very high speech intelligibility and music quality at modest cost. Rugged corrosion and weather-resistant construction for long trouble-free life in all indoor and protected outdoor locations. 8 ohm impedance. *Dual voice coil windings.

JENSEN PROFESSIONAL SERIES 8, AND 12-IN. SPEAKERS

Stock Fig. No.	Mag. Size	Wt. Oz.	Power Watts	Range Freq.	Spkr. Depth	V.C. Dia.	Jensen No.	Net Wt.	Net Each	10 Lots Each
① 34A26	8"	10.0	16	30-14M	3 1/4"	1"	K950	3 1/2	\$16.38	\$14.73
② 34A343	8"	16.0	20	30-15M	4 3/4"	1"	H970	5 1/4	28.65	
③ 34A342	8"	10.0	12	30-18M	3 3/4"	1"	F858	2 3/8	12.06	10.85
④ 34A27	8"	10.0	12	30-18M	3 3/4"	1"	C855	2 1/2	7.94	7.15
⑤ 34A28	8"	10.0	12	30-13M	3 3/4"	1"	C850	2 3/8	7.61	6.85
⑥ 34A345	8"	10.0	12	30-12M	3"	1"	DCA850	2 1/2	7.94	7.15
⑦ 34A29	8"	6.0	11	30-13M	2 3/4"	1"	C840	2	6.44	5.79
⑧ 34A344	8"	5.4	10	30-12M	2 3/4"	1"	DCA830	1 3/8	5.88	5.29
⑨ 34A30	8"	4.8	10	30-18M	2 3/4"	1"	C835	1 5/8	5.88	5.29
⑩ 34A340	8"	1.47	9	60-13M	3"	1"	P810	1	3.27	2.94
⑪ 34A341	8"	2.5	10	40-13M	3 1/4"	1"	P830	1 1/4	4.35	3.92
⑫ 34A333	12"	27.0	20	30-15M	5 1/4"	1"	C12NC	8 1/4	31.52	
⑬ 34A32	12"	6.8	14	30-15M	4 1/4"	1"	C12RC	6	9.97	
⑭ 34A33	12"	4.64	13	30-15M	4 1/4"	1"	C12SC	6	9.15	

JENSEN MUSICAL INSTRUMENT SPEAKERS



Highly special devices designed to give the correct musical quality required for the particular instrument; the power capability to reproduce without distortion at loud volume, and ruggedness under peak load conditions.

Features: voice coils with hi-temp enamel coatings and phenolic bobbins. Formed specially processed fibre cone material resistant to break-up. High efficiency Syntox 6 magnet

BASS GUITAR SPEAKERS

Stock Fig. No.	Size	Magnet Wt.	Power Watts	Spkr. Depth	Imp. Dia.	Jensen No.	Shpg. Wt.	Net Each
① 34A325	12"	16.0	50	6 1/4"	8 1 1/2"	EM1200	7 Lbs.	\$21.57
② 34A326	15"	27.0	60	7 1/4"	8 1 1/2"	EM1500	10 1/2 Lbs.	31.20

GUITAR SPEAKER

Stock Fig. No.	Size	Magnet Wt.	Power Watts	Spkr. Depth	Imp. Dia.	Jensen No.	Shpg. Wt.	Net Each
① 34A346	8"	10.0	25	4 1/4"	8 1"	EM801	5 Lbs.	11.97
② 34A327	*12"	16.0	50	6 1/4"	8 1 1/2"	EM1202	7 Lbs.	21.57
③ 34A328	*15"	27.0	60	7 1/4"	8 1 1/2"	EM1501	10 1/2 Lbs.	31.20

*EM1202 and EM1501 also Accordion Speakers.

JENSEN GUITAR SPEAKERS

Guaranteed against shatter and diaphragm disintegration.

BASS GUITAR SPEAKERS

Stock Fig. No.	Size	Magnet Wt.	Power Watts	Spkr. Depth	Imp. Dia.	Jensen No.	Shpg. Wt.	Net Each
③ 34A329	12"	1 3/4 Lbs.	60	6 1/4"	8 1 1/2"	EM1220	8 1/2 Lbs.	33.83
④ 34A330	15"	3 1/2 Lbs.	80	8"	8 2"	EM1520	17 1/2 Lbs.	66.30

GUITAR SPEAKERS (Fully Instrumented)

Stock Fig. No.	Size	Magnet Wt.	Power Watts	Spkr. Depth	Imp. Dia.	Jensen No.	Shpg. Wt.	Net Each
③ 34A331	12"	1 3/4 Lbs.	60	6 1/4"	8 1 1/2"	EM1250	8 1/2 Lbs.	33.83
④ 34A332	15"	3 1/2 Lbs.	80	8"	8 2"	EM1550	17 1/2 Lbs.	66.30

CONCERT HIGH-IMP. 45 OHM INTERCOM SPEAKERS



Stock Fig. No.	Size	Magnet Wt.	Power Watts	Spkr. Depth	Jensen No.	Shpg. Wt.	Net Each
① 34A375	3"	1.47	4.0	1 7/8"	P3V45	6 Oz.	\$2.94
② 34A376	3x5"	.68	4.0	2 1/8"	P3X5X45	8 Oz.	2.78
③ 34A380	2x6"	1.47	4.0	2 3/8"	P2X6V45	8 Oz.	3.56
④ 34A370	4"	1.00	4.5	2 3/8"	P4W45	10 Oz.	2.99
⑤ 34A357	5"	1.00	5.0	2 3/8"	P5W45	10 Oz.	3.18
⑥ 34A381	8"	2.5	10	3 1/4"	P8T45	1 1/2 Lbs.	5.26

PROFESSIONAL SERIES HORNS-DRIVERS

Stock Fig. No.	Jensen No.	Description	Size	Range	Wt.	Net Ea.
② 34A22	D30	30 Watt Driver	16 Ohm	4 1/2"	75-7M	3 1/2 \$18.52
③ 34A23	D40	40 Watt Driver	16 Ohm	4 1/2"	75-10M	4 1/2 23.23
④ 34A21	RT20	Rectangular Horn		16 1/8"		10 3/4 28.80
⑤ 34B318	H150	15" Horn 200 Cycles		15 3/4"		9 1/4 20.14

JENSEN REPLACEMENT CONCERT AND VIKING SERIES



Includes new sizes and magnet weight to provide a complete range of service replacement and original equipment.

Stock Fig. No.	Size	Magnet Wt.	Power Watts	Spkr. Depth	Jensen No.	Shpg. Wt.	Net Each
① 34A372	3"	.68	3.5	1 1/2"	†3K7	6 Oz.	\$2.02
② 34A373	3 1/2"	.68	4.0	1 3/4"	†3SK7	6 Oz.	2.02
③ 34A374	3x5"	.55	3.2	1 3/4"	†3X5K5	6 Oz.	2.13
④ 34A371	4"	.68	4.5	1 7/8"	†4K7	8 Oz.	1.84
⑤ 34A364	4"	1.47	5.0	2 1/8"	†4V3	8 Oz.	2.65
⑥ 34A365	4x6"	.68	4.5	1 7/8"	†4X6K7	8 Oz.	2.48
⑦ 34A366	4x6"	1.47	5.0	2 1/4"	†4X6V3	12 Oz.	2.71
⑧ 34A367	4x8"	1.00	6.0	2 3/8"	†4X8W9	14 Oz.	3.02
⑨ 34A382	5"	.55	5.5	1 7/8"	†5K5	8 Oz.	1.67
⑩ 34A359	5"	1.47	5.5	2 1/4"	†5V3	10 Oz.	2.74
⑪ 34A360	5 1/4"	.68	5.5	2 1/8"	†525K7	8 Oz.	2.23
⑫ 34A361	5x7"	1.00	6.0	2 3/8"	†5X7W3	1 Lb.	2.75
⑬ 34A362	5x7"	1.73	8	2 1/2"	†5X7U3	1 Lb.	4.22
⑭ 34A363	5x7"	10.00	10	2 1/4"	†5X7RD3	2 Lbs.	6.59
⑮ 34A354	5x7"	1.0	6	2 1/8"	†5X7WM	1 Lb.	3.44
⑯ 34A353	6x9"	1.0	7.5	3 3/8"	†6X9WM	1 1/4 Lbs.	3.49
⑰ 34A350	6x9"	1.00	7.5	3 3/8"	†6X9W3	1 1/4 Lbs.	3.08
⑱ 34A351	6x9"	1.47	7.5	3 1/4"	†6X9V3	1 1/4 Lbs.	3.94
⑲ 34A352	6x9"	10.00	11	3 3/4"	†6X9RD3	2 Lbs.	9.53
⑳ 34A348	6"	.68	6.0	2 3/8"	†6K7	10 Oz.	2.24
㉑ 34A349	6"	4.8	7.5	2 3/8"	†6CT3	1 1/2 Lbs.	4.62
㉒ 34A337	8"	1.00	8.0	3 1/4"	†8W3	1 1/4 Lbs.	3.02
㉓ 34A338	8"	2.50	10	3 3/8"	†P8T3	1 1/2 Lbs.	4.73
㉔ 34A383	8"	10	12	3 3/8"	†C8R8	2 1/4 Lbs.	6.76
㉕ 34A336	10"	1.73	10	4	†10J10	2 Lbs.	4.64
㉖ 34A334	12"	1.73	11	4 3/4"	†12J10	2 1/2 Lbs.	5.41
㉗ 34A335	12"	4.8	12	6 1/8"	†C12T3	3 Lbs.	8.85

*Indicates popular automotive favorites. Features both combination pin-tip jack and soldering terminals. †Multi-impedance 8-10-20-40 Ohms. ‡Dual cone. †Indicates 3.2 ohm Imp. ‡Imp. indicates 8 ohms.

JENSEN WEATHERMASTER SERIES

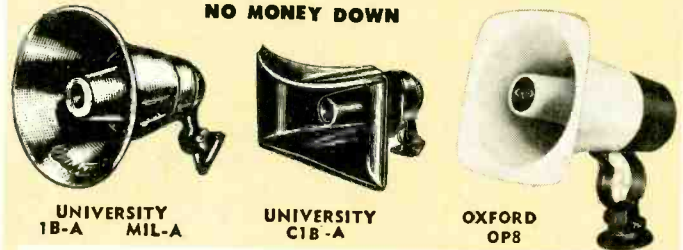
Drive-in theatre and outdoor applications.

Stock Fig. No.	Size	Magnet Wt.	Power Watts	Spkr. Depth	Jensen No.	Shpg. Wt.	Net Each
① 34A368	4"	.68	4.0	1 3/4"	WF400A	8 Oz.	2.05
② 34A369	4"	1.00	4.5	2 1/4"	WP402	8 Oz.	2.26
③ 34A356	5"	1.47	5.5	2 3/8"	WP502	10 Oz.	2.54
④ 34A378	6"	1.47	6.0	2 3/4"	WP602	12 Oz.	2.83

WF400A and WF500 have moisture-proof and fungus impregnated fiber cones. WP402, 502, 602 have Mylar laminated fiber cones (non-swelling gaskets and adhesives, unaffected by heat).

INTERCOM TALK-BACK & PAGING SPEAKERS

NO MONEY DOWN



UNIVERSITY 1B-A MIL-A

UNIVERSITY C1B-A

OXFORD OP8

All weatherproof, breakdown proof units designed to fit the needs of indoor or outdoor systems requiring concentrated power to cover small areas with low output.

Model 1B-A. World's most widely used medium power speaker, with full 25 watts continuous duty power capacity and improved low frequency response to 250 cps. Tropicalized, weatherproof for trouble-free lifetime operation. 90 degree wide angle dispersion. Frequency response 250-13,000 cps. Universal swivel mtg. bracket. Size 10 1/4" dia. x 9 1/4" deep. Shpg. wt. 4 lbs.

No. 34A132. Model 1B-A. 8 ohm voice coil. Net Each \$21.90

Model MIL-A. 7.5 watt. Full range. Improved lower frequency response to 350 cps. Excellent for limited areas and filling in "dead" spots. Tropicalized, hermetically sealed. Frequency response 350-13,000 cps. 120 degree dispersion. Has universal swivel mtg. bracket. Size 7 1/8" dia. x 6 7/8" deep. Shpg. wt. 3 1/2 lbs.

No. 34A106. Model MIL-A. 8-ohm voice coil. Net Each \$17.85

No. 34B118. Model MIL-A. 45 ohm voice coil. Net Each \$19.63

MODEL C1B-A 25-WATT FULL RANGE. Wide angle 60° x 120° dispersion speaker with built-in hermetically sealed driver. Delivers high output with intelligibility and noise penetration. Exclusive cobra flare insures uniform 250-13,000 cps. response. Excellent "talk-back" characteristics. Steel reinforced fiberglass/polyester horn gives superior acoustic qualities and resistance to physical abuse. New Omni-Lok swivel bracket directs sound where desired. Size 7 3/8" x 14" x 12". Shpg. wt. 5 1/2 lbs.

34A183. Model C1B-A with 8 ohm voice coil. Net Each \$27.60

MODEL OP8 30-WATT FULL RANGE OUTDOOR SPEAKER. New design assures maximum noise penetration and highest efficiency available. Molded of Iplex, a practically indestructible material, impervious to weather, salt water, oil, acid, and temperature extremes. Die-cast lever lock mounting bracket assures smooth and even movement 360° horizontally and 180° vertically with positive fingertip locking in any position. Frequency response 250-13,000 cps. 100° dispersion. Impedance 8 ohms. 11 3/4" L, 11 3/8" diagonal across mouth.

No. 34B91. Shpg. wt. 5 lbs. Net Each \$23.42

WEATHERPROOF TRUMPETS AND DRIVERS



NO MONEY DOWN

① UNIVERSITY TRUMPETS LESS DRIVERS

All metal reflex trumpets for deep sound penetration with a narrow sound penetration angle. SMH for voice only. Fully weatherproof.

Stock No.	Mfgs. Model	Bell Dia.	Horn Length	Low Cutoff	Dis-persion	Wt. Lbs.	Net Each
40A23	PH	20 1/4"	15 3/4"	150 CPS	85°	11	\$23.70
40A22	SMH	16 1/4"	12"	200 CPS	95°	9	20.70
34B184	Cobraflex 2	10 1/4"	18 1/2 x 9 1/4"	200 CPS	120x60°	11	26.70

② UNIVERSITY ALL WEATHER DRIVER UNITS

Offer highest quality sound possible. All are hermetically sealed. To be used with reflex trumpets or radial projectors. 1 3/8" — 18 thread.

Stk. No.	Mfg. Model	Full Range Watts	Range Cps.	V.C. Imp.	Shpg. Wt. Lbs.	Net Each
34A85	ID-20	20	120-6,500	16	3	\$15.60
31B25	ID-30	30	85-7,500	16	3 3/4	18.90
34A86	ID-40	40	80-12,000	16	4 1/2	23.70
34A87	†ID40T	40	80-12,000	16	5 1/4	32.40
34A88	ID-60	60	70-12,000	16	5 3/4	32.70
34A89	†ID-60T	60	70-12,000	16	6 1/4	40.20

†Transformer Impedance: ID-40T-45/122/250/500/1000/2000 Ohm. ID-60T-16/80/165/250/500/1000/2000 ohm.
†70 V. Line Power Taps: ID-40T-40/20/10/5/2.5 watts. ID-60T-50/30/20/10/5/2.5 watts.

NEW BI-DIRECTIONAL BAFFLE



Modern compact design provides sound in two directions from any single 8-inch speaker. Heavy 18 gauge spun aluminum. Base steel reinforced. Mounts to 4x4" outlet box or directly to wall or ceiling. Satin aluminum is finish coated with colorless lacquer, can act as primer. Mfg. List \$18.00.

No. 34C93. Net Each. \$9.72

HOME OR COMMERCIAL USE

FOR WALL OR CEILING FLUSH MOUNT

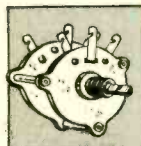
SPEAKER DIFFUSER GRILLES



Rigid non-rattle construction of heavy 20 gauge steel. Attractive beige finish can be used as supplied or repainted to match room decor. Designed to mount over opening after speaker is installed.

Stk. No.	Size	No. Ea.	6 @ Each
33A49	6"	\$1.77	\$1.57
33A50	8"	1.87	1.67
33A51	10"	1.97	1.77
33A52	12"	2.47	2.37

8 OHM L-PAD AT LOW COST



For speaker volume control. Simply insert in line between amplifier and speaker to adjust speaker volume independently of other speakers in the system. 2-section wire wound ceramic insulation. Handles speaker power to 6 watts. 1/4" shaft, 3/8" long. 3/8" bushing.

No. 17A410. Less Knob. Special. \$1.39 4 For \$5.00

B-A MONEY-SAVING OFFER!



UNIVERSITY PH TRUMPET AND JENSEN 30-WATT DRIVER

BOTH FOR \$31.95

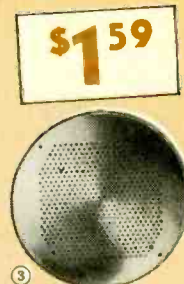
YOU SAVE \$8.25

PH TRUMPET \$23.70
JENSEN DRIVER 16.50

PURCHASED SEPARATELY WOULD COST \$40.20

PH University trumpet and 30 watt Jensen driver, an unbeatable combination for performance and reliability. Re-entrant horn provides more volume over entire range. Low frequency cut-off 150 cps. 41" air column length. 85° dispersion. 20 3/8" bell dia. 15 3/4" long less driver. Overall response 70-12,000 cps. Peak power 16 ohm impedance. 60 watts. No. 49A144. Shpg. wt. 16 lbs. Special Net Each. \$31.95

FLUSH MOUNTING WALL AND CEILING BAFFLES



AT LOWEST COST EVER! IN PLASTIC OR METAL

① Inexpensive 9 1/4" Diameter Brushed Aluminum Ceiling or Wall Mounting Baffle. Perfect for extension speaker or background music installations. 8" speaker mounts by two screws. Secures to wall or ceiling by two wood screws, toggle bolts or mollies. Shpg. wt. 1 lb.

No. 34A74. Net Each. \$1.69 4 @ Each. \$1.49 10 @ Each. \$1.27

② Beautiful Aluminum Ceiling Mounting Baffle with baked white enamel finish. 8" speaker mounts directly to baffle by four screws supplied. Four holes in 1/2" flange area permit mounting baffle to ceiling with wood screws, mollies or toggle bolts. 12 3/8" diameter. Ceiling hole size 8 1/2" dia. Shpg. wt. 1 lb.

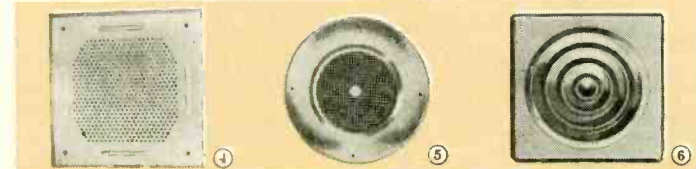
No. 34A75. Net Each. \$2.75 4 @ Each. \$2.39 10 @ Each. \$2.24

34A227. As above in Brushed Aluminum. Net Each. \$3.26

34A228. As above in Brushed Aluminum for 12" Speaker. Net Each. \$4.47

③ Round 10" Diameter Spun-Aluminum Baffle takes 8" speaker. Mounts directly to ceiling or wall by wood screws, toggle bolts or mollies. Edge has slight bevel. Shpg. wt. 1 lb.

No. 34A76. Net Each. \$1.59 4 @ Each. \$1.39 10 @ Each. \$1.19



④ Flush Mounting Wall or Ceiling Baffle. 10" square, mounts 8" speaker. Attractive brushed aluminum with beveled edges. Mounts readily with wood screws, toggle bolts or mollies. Perfect for background music systems. If desired may be painted to match any decor. Shpg. wt. 1 lb.

No. 34A77. Net Each. \$2.59 4 @ Each. \$2.39 10 @ Each. \$2.29

⑤ Similar in appearance to above Grille except is 12" Square and has 3/8" lip. Designed to replace a block of acoustical tile. To install, you need only remove block of acoustical tile and replace with this unit. Takes any 8" speaker. Brushed aluminum. Shpg. wt. 1 lb.

No. 34A78. Net Each. \$2.95 4 @ Each. \$2.79 10 @ Each. \$2.54

⑥ NEW 12 1/2" Round White High Impact Styrene Grille. Mounts any 8" speaker by self-tapping screws supplied. May be attached to wall or ceiling by wood screws, toggle bolts or mollies. Can be painted any color desired. Shpg. wt. 12 oz.

No. 34C96. Net Each. \$1.65 4 @ Each. \$1.45 10 @ Each. \$1.24

⑦ 10" Square White Plastic Grille with Concentric Spirals. Designed to add beauty as well as camouflage the speaker. Mounts any 8" speaker. Attaches to wall or ceiling by wood screws, toggle bolts or mollies. Can be painted any color desired. Shpg. wt. 1 lb.

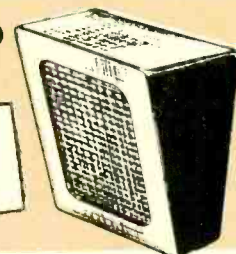
No. 34A80. Net Each. \$2.69 4 @ Each. \$2.55 10 @ Each. \$2.40

WALL BAFFLES PRICED SO LOW!

DURABLE FABRIC COVERED SPEAKER ENCLOSURE

- Durable walnut grained fabrics.
- Beautiful lasting Saran plastic grille.
- Fine acoustic design for improved tone.

\$3.15 B.I.N.



Attractive non-resonant solid 3/8" wood baffles with hot-glue dove-tailed joints for strength and rigidity. Heavy plywood front panel gives improved acoustic tone and extra strength for mounting speaker. Richly grained walnut brown cloth fabric wipes clean with a damp cloth! Contrasting non-sag saran plastic grille blends easily with any surrounding. Ideal for schools, clubs, hall—any location where good sound distribution is essential.

Stk. No.	Speaker Size	High	Wide	Deep	Wt.	Net Ea.
34B151	5"	7 1/2"	5 1/2"	4 1/2"	1 lb.	\$2.10
34B182	6"	8 1/2"	7 1/2"	5"	1 1/4 lb.	2.70
34B159	8"	10 1/2"	9 3/4"	6 1/2"	1 1/2 lb.	3.15
34B160	10"	12 1/4"	11 1/2"	7 3/4"	2 1/4 lb.	3.98
34B161	12"	14"	13 1/4"	9"	3 lb.	4.57

BELDEN 2-WIRE SPEAKER CABLE

Type 8782. Bare copper, flexible stranded size 24 parallel conductors; chrome vinyl plastic insulation; Cable diameter .058 x .115". 30 stranding.

2B19. 25 Ft. \$6c 100 Ft. \$1.47 1000 Ft. \$11.15

55

NEW FANON-MASCO HAND-SIZED TRANSISTORIZED MEGAPHONES



MV-2
3 Transistor
150 Yards Range



MV-4
5 Transistor
300 Yards Range

MV-2. Durable high-impact plastic case with built-in microphone. Exceptional range over 150 yards. Small compact size, only 4" H, 7" L, 2 1/2" W. Weighs only 1 1/2 lbs. Operates on 8 penlight cells. Has handy wrist strap and press-to-talk switch with locking feature for continuous talking. High quality magnetic microphone provides clear distinct voice quality. Color, sea green. Shpg. wt. 3 lbs.

No. 36B198. **MV-2. Net Each** **\$14.95**

No. 21A3. **Penlight Cells for above. (Requires 8.) Each** 14c

MV-4. Exceptionally efficient 5-transistor for all outdoor-indoor coverage such as fire department, police dept., and other municipal organizations. Ruggedly constructed of spun aluminum with baked enamel finish, equipped with a weather-proof mike. Operates on 4 standard "D" cells. 5 transistors in class D push-pull circuit. Pistol grip switch. Weighs only 4 1/2 lbs. Size, 7 1/4" x 13" overall. Shpg. wt. 5 1/2 lbs.

No. 36C199. **MV-4. Net Each** **\$44.95**

No. 21A1. **"D" Cell Batteries for above. (Requires 4.) Each** 14c

SPECIAL IMPORT SAVINGS ON THESE ALL-PURPOSE SPEAKERS

FOR INDOORS-OUTDOORS PAGING, PA AND MUSIC



① **PAGING SPEAKER**

Natural tone paging speaker for universal application. Wide angle 90° spread. Smooth frequency range, free of peaks, cuts out unintelligible lows and highs for maximum speech penetration. Weatherproof re-entrant type, for indoor or outdoor use. 180° swivel mount with screw flange. 5 watt power rating. 8 ohms. 5 inch horn opening. 5 3/8" long. With wire lead.

No. 22C94. Shpg. wt. 2 lbs. **Import Special** **\$7.95**

② **OUTDOOR MUSIC AND PAGING HORN**

Enjoy outdoor music on lawn, porch, or patio. Response to 10,000 cps. Study metal bell projector horn completely weatherproofs enclosed heavy duty 5 inch cone speaker. Allows musical range not possible with reflex speakers. Swivel base and flange with wing nut. Will stand by itself for portable use. High efficiency, wide range, for good outdoor coverage. Two-tone grey 8" bell. 8 watts, 4 ohms. 5 1/8" D, 11 1/4" H. 3' wire lead.

No. 34D128. Shpg. wt. 2 lbs. **Import Special** **\$12.95**

③ **COMPACT PAGING PA SPEAKER**

Wide 120° dispersion angle, compact size with full power driver unit reflex construction. Excellent for high power paging or medium power public address applications. Provides high sound penetration with exceptional brilliance and clarity. Leave outdoors in any weather, or use indoors. Response 300-13,500 cps. Swivel U-bracket mtg., 28" wire lead. 8 watts. 8 ohms. 6" bell, 6" D. Shpg. wt. 5 lbs.

No. 22A88. **Import Special** **\$12.95**

④ **HI-POWER OUTDOOR REFLEX SPEAKER**

Rugged, high power, trumpet speaker for outdoor public address. Conservatively rated 12 watts. Will handle up to 20 watts of power. Waterproof, rustproof, shockproof. Driver is completely enclosed. Gives crisp, clear, wide-angle response even in high noise level areas. 340-7000 cps. 5x8" horn, 8" L. 8 ohms. Grey hammetone. U-bracket and wire lead.

No. 34C143. Shpg. wt. 5 lbs. **Import Special** **\$14.95**

5-WATT 70V. and 25 V. LINE TRANSFORMERS MATCHES 4 TO 8 OHM VOICE COILS IN MULTIPLE SPEAKER SYSTEMS



Import Special

\$1.19

Enables volume adjustment at each speaker in the system. Provides excellent wide range response. Primary impedance taps 1000, 2000, 4000, 8000 and 16,000 ohms. For mounting on speaker.

No. 17B522—70 V. **Choice \$1.19**

No. 17B491—25 V. **Each \$1.07**

10 Lots, **Ea. \$1.07** 25 Lots, **Ea. 99c**

HEAVY DUTY 10 WATT @ 70 V.

Tapped for 10, 5, 2.5 1.25, 0.625 watts. Secondary 8 ohms. Size 2 x 1 1/2 x 1 5/8" H. Wt. 1 3/4 lbs. Imported at big savings!

17C544. **Ea. \$1.89** 10 Lots **Ea. \$1.69** 25 Lots **Ea. \$1.49**

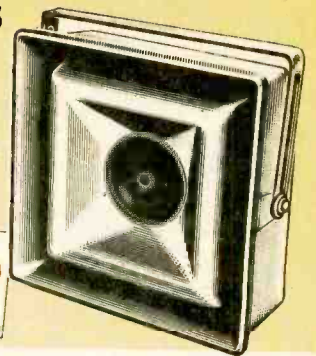
ELECTRO-VOICE WEATHERPROOF FULL RANGE SPEAKERS



PORTABLE

\$22.50

\$64.80



MUSICASTERS FOR TRUE HI-FI SOUND OUTDOORS!

MUSICASTER TM—A speaker system with true high-fidelity performance. Compact and portable, has sturdy aluminum diecast housing. Finished in Steel Gray, it protects the weatherproof cone speaker and extends bass response through back-loaded folded horn. Can be mounted anywhere or used as a portable speaker. Ideal for square dances, school auditoriums, clubs, outdoor hi-fi or anywhere that music and voice must be reproduced with maximum clarity.

Provisions for mounting 70.7-volt line transformer inside. Frequency response 60-13,000 cps. 8 ohms impedance. Dispersion 120°. Power handling capacity 60 watts peak. Sound pressure level 110 db. Size 2 1/2 x 2 1/2 x 8 1/2". Shipping wt. 34 lbs.

No. 34A277. **Musicaster TM with 8-ohm voice coil. Net Each** **\$84.80**

MB-1—Mounting bracket for Musicaster in neat flat-against-wall installations.

No. 37A221. **Model MR-1 Mount. Net Each** **\$3.53**

An exciting new development in auxiliary speakers by Electro-Voice. Lightweight, easily moved from place to place. Extremely attractive Steel Gray housing is molded of a new wonder plastic material similar to that used in air travel luggage. No problem ever with scuffing, chipping, or peeling. The eight-inch coaxial speaker unit is specially designed for portable and outdoor high fidelity use. Other distinctive features include an attractive die-cast front trim ring and facilities for permanent mounting on any surface. Freq. ohms. Size 16 3/4" H. x 17" W. x 5 7/8" D. Net wt. 6 3/4 lbs. Shpg. wt. 10 lbs.

No. 34B191. **SONOCASTER—I-TM. Special** **\$22.50**

MINIATURE WATER-PROOF REFLEX SPEAKER

- Freq. range 400-6500 cps.
- For CB, Ham, Paging.
- Handles 3 watts.
- Penetrates high noise levels.

\$4.95



Outstanding new concept in speaker design. Unlimited in applications. Penetrating quality makes it ideal for CB and Ham mobile work as well as for paging where a high noise level makes the typical cone speaker ineffective.

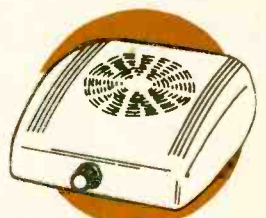
Small size, only 3 1/4" dia. and 2" deep. Yoke type mounting bracket mounts by two holes, allows over 180° vertical movement. Ideal for mounting under dash, or under hood for listening outside of car. Impedance 8 ohms, Shpg. wt. 1 lb.

No. 22C97. **Import Special** **\$4.95**

WALL REMOTE SPEAKER

WITH VOLUME CONTROL

\$5.37



Attractive, high-impact molded Styron baffle complete with 5" speaker and volume control. Molded screw slot for wall mount. Desert sand color. 5 watts. Shipping weight 2 lbs.

No. 22C104. **Net Each** **\$5.37**

OUTDOOR WEATHER-PROOF SPEAKER

Virtually indestructible, weatherproof and dustproof. Ideal for outdoor extensions, patios, pools, barns, as mobile communication speaker or paging speaker. Perfect for use where corrosive atmosphere destroys other speakers. Resp. 100-10,000 cps. Stands up to 50 G's shock, up to 100 volts RMS. 3.2 ohm V.C. imp. Temperature extremes -80° F. to 160° F. Size 4x4x2 1/2" D. Rapidly connects by RCA type pin jack.

No. 22C309. **Special** **\$5.95**

\$5.95

SAME AS SPECIFIED FOR USE IN U.S. ATOMIC SUBMARINE



NEW 8-IN. "Music-Mini" OUTDOOR WEATHER-PROOF SPEAKER

Big brother to the popular "Mini" listed above. Designed for musical reproduction as well as voice. Perfect for background music installations indoors and out. Knock-out plugs permit top or bottom mounting of a volume control if desired—other knock-out plugs permit universal transformer mounting. Connects fast and easy by terminals on back. Key slots permit quick mounting anywhere. Specifications: 9" high, 9" wide, 4 1/4" deep. Imp. 8 ohms. Freq. resp. 70 to 13,000 cps. Shpg. wt. 5 lbs.

No. 34C90. **Net** **\$12.35**

Electro-Voice MICROPHONES FOR EVERY PURPOSE

UNI-DIRECTIONAL "CARDIOID" MICROPHONES

FAMOUS DYNAMIC MODEL 664

POPULAR CHOICE FOR PERFORMANCE, RUGGEDNESS, VERSATILITY

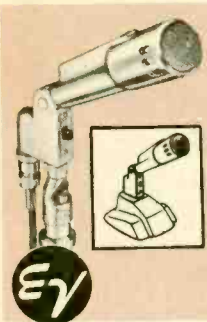
Especially recommended for PA service; churches, schools, clubs, recording, communications—truly the work horse of the microphone field!

Built to take rough treatment, yet a superb performer sounding smooth and natural on voice and music.

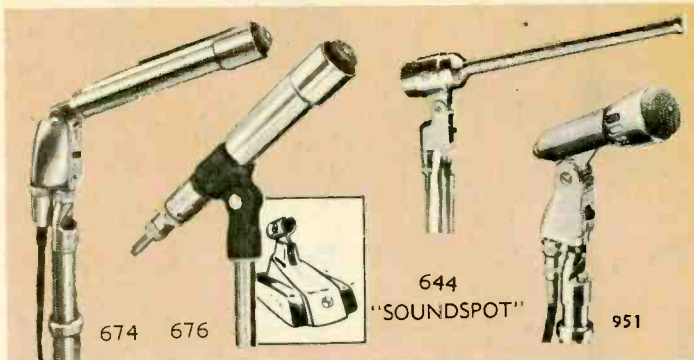
Response 40-15,000 cps. -58 db output. Has on-off switch, 16 ft. detachable cable. High impedance or 150 ohm low impedance by moving one wire in connector. 1 7/8" max. dia. 7 7/8" lg. Wt. 26 oz. Mfg. List \$85.00.

Choice Each
No. 29A200—Satin Chrome \$49.98
No. 29B191—Non-Refll. Grey \$52.92

Matching Stands for 664 (Inset) \$7.35
No. 29A408—Grey. Net Each \$9.55
No. 29B193—Gold. Net Each



Gold Finished Model 664
No. 29B192. Mfg. List \$90.00. Net Each
Matching Stands for 664 (Inset)
No. 29A408—Grey. Net Each
No. 29B193—Gold. Net Each



NEW MODEL 674 "CONTINUOUSLY VARIABLE" CARDIOID

Rejects side and rear pickup at all frequencies. Has 3-position rumble filter. Finest choice for professional PA, clubs, churches and recording where semi-permanent stand mounting is desired. Response 60-15,000 cps. Output -57 db. Impedance Hi-Z and 150 ohms. Detachable 16 ft. cable. On-off switch, swivel 3/8"-27 mount. Satin chrome finish. Mfg. List \$100.00.

No. 29B204. Net Each \$58.80
MODEL 676. Identical performance and response like Model 674. Has swivel 1" dia. slip-in adaptor allowing hand or stand use.

No. 29B256. Satin Chrome Choice \$58.80
No. 29B195. Non-Refll. Grey. Each

Gold Finished Model 676 \$64.68
No. 29B199. Mfg. List \$110.00. Net Each

Matching Stands for 676 (Inset). Has swivel 1" dia. slip-in adaptor \$11.76
No. 29B189—Grey. Net Each

No. 29B179—Gold. Net Each \$15.43

MODEL 644 SOUND SPOT DYNAMIC—Most directional PA microphone yet! Has farthest front pickup, better than 2.5 times that of non-directional types, yet works close-up, too. Range 40-10,000 cps. High output, -53 db. Dual high or low impedance. Satin chrome. 3/4" dia., 16" long extension tube. Rear dia. 2 1/8". 16 ft. detachable cable. Off-on switch, swivel stand mounting. 41 ozs. Fits Desk stand at left above.

No. 29A198. Mfg. List \$110.00. Net Each \$64.68

MODEL 951 CARDIOID CRYSTAL—Very popular wide-range all-purpose PA mike with fine discrimination against unwanted sounds. Range 50-11,000 cps. Output -60 db, high impedance, on-off switch. Lustre grey, 16 ft. detachable cable. 1 3/4" dia., 5 3/8" lg. Wt. 1 1/4 lbs.

No. 29A188. Mfg. List \$54.50. Net Each \$32.05

DYNAMIC MICROPHONES

FOR HAND OR STAND
TOP CHOICE FOR ENTERTAINERS, COMBOS, ETC.



MODEL 635A OMNIDIRECTIONAL—For exacting professional needs in recording, broadcasting and high quality PA. Four stage "pop" and dust filter completely eliminates need for external wind screen. Response 60-15,000 cps. 150 ohm low impedance only. Output -55 db. Size 1 1/2" dia., 5 1/2" lg. 18 ft. cable, Cannon XLR3-11 connector, stand adaptor.

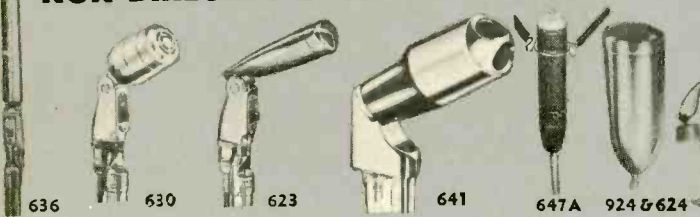
No. 29B202. Mfg. List \$82.00. Net Each \$48.22

MODEL 627 CARDIOID—Directional pickup reduces feedback, permits higher audio levels. Rugged chrome metal case and internal shock mount resists damage. Response 60-12,000 cps. High impedance. Output -58 db. On-off switch. 16 ft. attached cable. 7" lg., 3/4" dia.

No. 29B203. Mfg. List \$60.00. Less wind screen. Net Each \$39.20

No. 29A162. Wind screen, prevents "pops", breath, wind blast. Net Each \$4.90

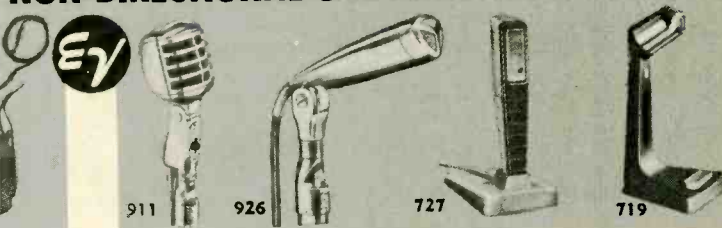
NON-DIRECTIONAL DYNAMIC TYPES



Features uniform sound pickup from all directions. "Acoustalloy" diaphragm for wide range, blast-proof long-life operation. 636, 630, 623 have on-off switch, 18 ft. detachable cable, swivel 3/8"-27 mtg. and chrome satin finish. 641 has 6 ft. cable, no swivel. 647A, 624 and 924 are lavalier type with neck cord, support clip, 18 ft. attached cable. 647A size, 3/4" dia., 3 3/4" lg. 624, 924 are 1 3/8" dia., 3 3/8" lg.

Stk. No.	E-V Type	Imped. Ohms	Response Cps	Output Level	Mfgs. List	Net Each
29A197	636	Hi or Lo	60-13,000	-58 db.	\$72.50	\$42.63
29A196	630	High	60-11,000	-55 db.	52.50	30.87
29A194	623	Hi or Lo	60-12,000	-56 db.	57.00	33.52
29B257	641	High	70-10,000	-57 db.	39.50	23.23
29B158	647A	High	60-12,000	-60 db.	82.50	48.51
29B261	624	High	100-7,000	-56 db.	45.00	26.46

NON-DIRECTIONAL CERAMIC AND CRYSTAL



Fine high impedance mikes for paging, communications, home recording. Types 911 and 926 have tilt 3/8"-27 stand mounting, 18 ft. cable. Type 911 has off-on switch. 727SR has relay control switch. 727 and 727SR have desk stand, slip out easily for hand, also have 3/8"-27 adaptor and 8 1/2 ft. cord. Type 719 new design touch or grip-to-talk stand and microphone for relay control in Ham, CB and paging. Communications gray finish. Base 4 3/8 x 4 3/4 x 9" H. 16' cable.

Stk. No.	E-V Type	Type Element	Response Cps.	Output Level	Mfgs. List	Net Each
29A186	911	Crystal	50-10,000	-50 db.	\$37.50	\$22.05
29A187	924	Crystal	60-8,000	-60 db.	23.50	13.82
29B258	926	Crystal	60-8,000	-60 db.	29.50	17.35
29A182	727	Ceramic	60-8,000	-55 db.	20.00	11.76
29A183	727SR	Ceramic	60-8,000	-55 db.	23.50	13.82
29B181	719	Ceramic	70-7,000	-56 db.	27.50	16.17

HELPFUL MICROPHONE FACTS

CHOOSE THE PICKUP PATTERN

UNI-DIRECTIONAL: Cardioid or heart shaped pickup pattern reduces sound pickup from rear and sides, increases pickup from front. Absolutely essential in reducing acoustic howl and echo commonly associated with PA systems. Also allows user to move with greater freedom while in front of microphone. Excellent all-purpose type for high quality PA and recording.

NON-DIRECTIONAL: Near equal sound pickup from all sides. Excellent for paging, home recording and communications where the sound is close to microphone and room is normally quiet and free of echo.

DETERMINE ELEMENT TYPE

DYNAMIC: Used indoors or out. Generally very rugged and most capable of all for faithful wide range response. Use high impedance type for normal length cables, low impedance for long cables.

CRYSTAL: Generally lowest in cost, giving faithful reproduction with high output. High impedance only. Used widely for all indoor services.

CERAMIC: More rugged than crystal types and generally applicable where crystal microphones have been used. Fine indoors and out.



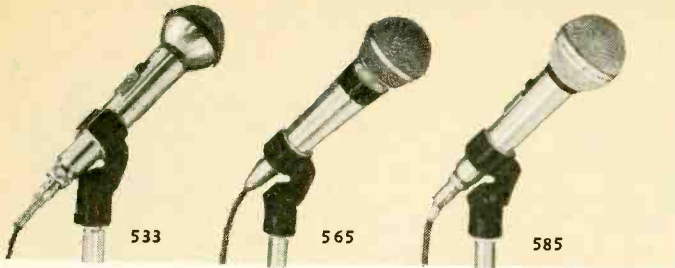
E-V PROFESSIONAL MICROPHONES

B-A's Professional Audio Department can handle all your requirements for Broadcast, TV, Studio and Recording microphones and will arrange for prompt shipment. Write us for engineering data on any E-V microphone.

E-V Model	Microphone Type	Mfg. List	Professional Net
649B	Lavalier	\$105.00	\$ 61.74
654A	Omnidirectional	100.00	58.80
655C	Omnidirectional	200.00	117.60
665	Cardioid	150.00	88.20
665	Cardioid	255.00	149.94
667A	Cardioid	345.00	202.86

SHURE MICROPHONES OF HIGHEST QUALITY

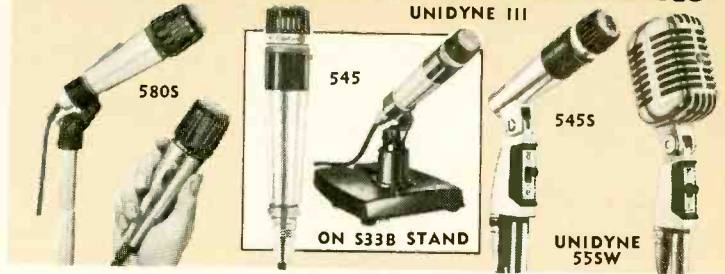
POPULAR NEW "SPHERE" MICROPHONES



These rugged new dynamic microphones are recommended for entertainers, interviewers, singing groups, etc. Spherical screen prevents pop, blast and wind noise. Adaptable to hand or stand use. 533 and 585 have on-off switch and 15 ft. detachable cable. 565 has dual impedance and 18 ft. detachable cable. Satin chrome finish, black trim and black swivel $\frac{3}{8}$ "-27 stand adaptor. Low impedance types are recommended where long mike cables are to be used. Use A95A transformer at right for matching low impedance mikes to high impedance amplifier input. Average size $6\frac{1}{2}$ ", approx. 2" dia. Wt. 2 lbs.

Stock No.	Shure Type	Pickup Pattern	Impedance Ohms	Response Cps.	Output Level	Net Each
29B215	533SA	Omnidirectional	High	40-11,000	—54.5 db.	\$29.40
29B216	533SB	Omnidirectional	Low	40-11,000	—55.5 db.	27.93
29B217	585SA	Cardioid	High	50-12,000	—59 db.	38.22
29B218	585SB	Cardioid	Low	50-12,000	—58 db.	34.10
29B221	565	Cardioid	Hi or Low	50-15,000	—55 db.	55.86

UNI-DIRECTIONAL CARDIOD DYNAMICS



FOR SOLVING REVERBERATION AND FEED-BACK PROBLEMS

MODEL 580SA UNIDYNE

For economy PA systems and improved home recording, giving superb performance at lowest cost. Slips out of stand swivel mount for hand-held use. Response 50-11,000 cps. Output —58 db. High impedance. Size $6\frac{5}{8}$ "x $1\frac{3}{4}$ " dia. 15 ft. attached cable. Shpg. wt. 3 lbs.
No. 29B214. Chrome 580SA with Switch. Net Each..... **\$34.69**

545 SERIES UNIDYNE III

Approaches the theoretical ideal Cardioid pickup pattern at all frequencies, providing extended range music and speech pickup for highest quality professional PA and recording.

Response 50-15,000 cps. Output —55 db. Dual high or low impedance. 545S has swivel stand mount; 545 slips out of mount for hand-held use. $1\frac{1}{8}$ " dia., $5\frac{7}{8}$ " lg. 18 ft. detachable cable. Shpg. wt. 3 lbs.
No. 29A208. Satin Chrome 545 (less stand). Net Each..... **\$49.98**
No. 29B271. Gold 545 (less stand). Net Each..... **\$55.86**
No. 29A366. Black 533B Desk Stand. Net Each..... **\$8.82**
No. 29B235. Satin Chrome 545S, with Switch. Net Each..... **\$52.89**
No. 29B273. Gold 545S, with Switch. Net Each..... **\$58.77**

55 SERIES UNIDYNE II

Famous for dependable indoor and outdoor service in regular or rugged duty. Response 50-15,000 cps. Output —55 db. Selectable 35-50, 150-250 or high impedance. Tilt head, detachable 18 ft. cable. Size $7\frac{3}{8}$ "x $2\frac{1}{8}$ "x $3\frac{1}{8}$ " D. Wt. 3 lbs.

No. 29A207. Satin Chrome Model 55S. Net Each..... **\$48.80**
No. 29B241. Satin Chrome Model 55SW, with Switch. Net Each..... **\$49.98**

CABLE TRANSFORMER FOR LOW IMPEDANCE MIKES

NEW SMALL SIZE WITH INTEGRAL CONNECTORS



Allows use of long microphone line without usual loss of high frequency response. Minimizes hum pickup. Installs at amplifier matching any 35-50 ohm or 150-250 ohm low impedance mike to high impedance amplifier input. Fully shielded, rugged construction, with built-in Cannon XL-3-11 input and Amphenol MC1F output. Size $\frac{3}{4}$ " D. $2\frac{1}{2}$ " L. Shpg. wt. 8 oz.
No. 29A361. Shure A95A. Each..... **\$10.29**

NEW LAVALIER UNIDYNE III CARDIOD



MULTI-PURPOSE DYNAMIC MICROPHONE FOR HAND-TO-STAND, LAVALIER OR GOOSENECK MOUNTING

Most versatile of the "problem solving" Unidyne III series. Small size and unique design allows complete mounting freedom. Response 50 to 15,000 cps. Output —57.5 db. Low impedance. Chrome and black, $5\frac{1}{8}$ " lg. x $1\frac{1}{4}$ " dia. With 20 ft. 2-cond. cable. Lavalier cord and clip supplied. Use A25B swivel for stand mounting or screw directly onto gooseneck of any length. Gooseneck mounting conceals cable completely. Mfg. List \$70.00.
No. 29B222. Model 545L. Net Each..... **\$41.16**

SHURE MICROPHONES FOR PAGING, BASE STATION AND MOBILE COMMUNICATIONS



RUGGED AND DEPENDABLE—BEST FOR VOICE

Model 430. Controlled magnetic microphone, recommended for general PA, paging or communications use. Hand-to-stand slip-in swivel mounting adapts to $\frac{5}{8}$ "-27 stands or fittings. Dual high or low impedance, 60-10,000 cps response, —52 db output. 15 ft. cable.
No. 29A211. Model 430, less stand illustrated. Net Each..... **\$22.64**

NEW ADJUSTABLE HEIGHT COMMUNICATIONS MIKES FOR BUSINESS • CB • AMATEUR RADIO

Integrated mike and stand design with appealing new look allows height adjustment of $2\frac{1}{2}$ ". Makes operating more pleasurable. Fully extends to $10\frac{3}{8}$ " overall. Push-to-talk switch bar operates microphone and relay control. Has optional switch locking feature. Rugged controlled magnetic element in Model 450 Dispatcher has response of 100-9000 cps. Model 444 response 300-3000 cps. especially tailored for Ham SSB for both press-to-talk and VOX operation. Output —52 db. 7 ft. cable. Base size $4x5\frac{1}{8}$ " deep. Constructed entirely of tough "Armo Dur". Shpg. wt. 3 lbs.
No. 29B325. Model 450 "Dispatcher". Net Each..... **\$29.10**
No. 29B326. Model 444. Ham Mike. Net Each..... **\$24.99**

SHURE MOBILE MIKES—400 SERIES WITH ARMO-DUR HOUSING

All have high quality coiled cord and press-to-talk switch for relay control. Identical replacements for police, taxi, commercial 2-way radio. Excellent for amateur and CB service. Cases are practically indestructible. 414A-414B are new smaller size Ranger II Series, $2\frac{1}{8}$ "x $2\frac{1}{8}$ "x $1\frac{3}{4}$ ". Type 202 is noise cancelling, close talking type, fine for ham and CB work.

Stock No.	Shure Type	Type Element	Response Cps.	Switch Circuit	Net Each
29A219	104B	Carbon	300-4000	SPST	\$17.64
29A220	104A	Carbon	300-4000	DPST	17.64
29B212	414A	Hi-Z Mag.	200-4000	DPDT	19.40
29B213	414B	Lo-Z Mag.	200-4000	DPDT	19.40
29B242	201	Ceramic	200-4000	SPST	10.58
29B270	202	Ceramic	200-4000	SPST	11.76

NON-DIRECTIONAL DYNAMICS

MODEL 51 SONODYNE

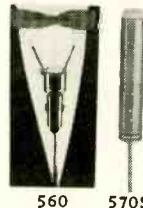


Long time favorite for schools and public address work where ruggedness and high output are essential. Excellent for tape recorders. Response 60-10,000 cps. Output —49.5 db. Has optional off-on switch, multi-impedance selector switch for 35-50, 150-250 or high impedance. Satin chrome case, lifetime tilt head mount for $\frac{5}{8}$ "-27 stand. $5\frac{3}{8}$ "x $3\frac{1}{8}$ "x $2\frac{1}{8}$ ". Shpg. wt. 3 lbs.
No. 29B229. Model 51S. With Switch. Net Ea..... **\$30.28**
No. 29A205. Model 51. Less Switch. Net Each..... **\$29.11**

MODEL 540S SONODYNE II

Sharp appearance, adjustable frequency response, dual impedance, high or low—features not available in any other microphone near the price. Normal range 60-13,000 cps with provision for "tailoring" to best voice intelligibility in paging and communications. Tilt head $\frac{5}{8}$ "-27 mount. Satin chrome and black. Detachable 15 ft. cable. Off-on switch.
No. 29B231. Model 540S. Shpg. wt. 3 lbs. Net Each..... **\$29.37**

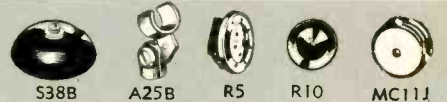
SHURE LAVALIER MICROPHONES



Rugged dynamic mikes having frequency response specially engineered for lavalier use. 560 size $3\frac{3}{8}$ " x $1\frac{1}{2}$ " D. high or low imped. 570S size $\frac{3}{4}$ " dia., has on-off switch, response 50-12,000 cps. 50-250 ohm imped. Attached light weight cables.

Stock No.	Shure No.	Output Level	Cable Length	Net Each
29B268	560	—56.5 db.	18 ft.	\$24.99
29B269	570S	—59 db.	30 Ft.	61.74

SHURE MIKE ACCESSORIES



Stk. No.	Type	Description	Net Each
S38B stand	fits A-25	swivel adapter supplied with mikes specified.	
29A225	S38B	Round Stand for 415, 430	\$2.65
29A226	A25B	$\frac{5}{8}$ "-27 Swivel for 415, 430, 535, 545	3.23
29A364	A22L	Neck Cord (Not Illustrated) Fits 1" dia. slim types	2.65
29A356	R5	Mike Cartridge, Hi-Z Cont. Magnetic	6.47
29A357	R5B	150-250 Ohm Cart. $2\frac{1}{4}$ " D. x $\frac{7}{8}$ " T.	6.47
29A360	R10	Carbon Button 2" O.D. x $\frac{5}{8}$ " T.	5.00
29A354	MC11J	1000 Ohm Magnetic Cart. 1" D.	7.35

TOP-RATED TURNER AND ASTATIC MICROPHONES

THE NEW **+2** TRANSISTORIZED BASE STATION MICROPHONE

Puts the zip back into your CB set and keeps it up to full strength. Features a two transistor preamp with volume control—gives up to 50 times the output level you now have. Just dial your desired signal for maximum modulation all the time. You can even work close or far away from the microphone, or change the output for a big or little voice. Has tailored frequency response 300-3500 cps, exclusive touch-to-talk and lock on-off switching. Works with all tube or transistor sets.

Blue and chrome finished. Attached coiled cord.
No. 29B295. Net Each... **\$29.11**



TURNER UNI-DIRECTIONAL CARDIOD DYNAMIC MIKES

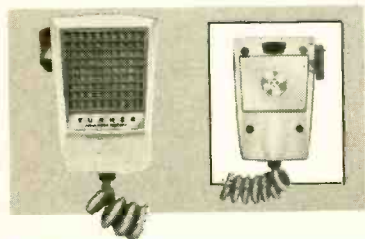


NEW MODEL 600 DYNAMIC. True cardioid pickup reduces rear and side response, wipes out room echo and acoustic feedback problems without sacrificing sound quality. Excellent choice for PA and recording. Response 50-15000 cps., high impedance, —55 db. output. Chrome finished metal case, tough cycalac grille. 1 5/8" x 6" long. Off-an switch, 12 ft. cable, 5/8"-27 mike stand adaptor. Shpg. wt. 3 lbs. Mfg. List \$59.50. **\$34.98**

No. 29B315. Net Each. Outstanding performer everywhere because of technical uniformity, near perfect cardioid pickup and frequency response. "Live" at front, "dead" to sounds from rear, allows close up or moving about with great freedom. Cures feedback problems. Response 400-15,000 cps. High or low impedance selection. Output, high —55 db., 150 ohms, —79 db. Professional Cannon XLR 4 pin connector, 20 ft. cable. Very outstanding mechanical and appearance design. Shock mounted for severe service. Withstands extremes of temperature and humidity. Slips from 5/8"-27 tilt stand adaptor for hand held use. Satin chrome, 1 1/2" dia., 6 1/2" lg. Stand illustrated not supplied.
No. 29B319. Model S-500 with On/Off Switch. Mfg. List \$87.50. Net Each \$51.45

GOLD FINISHED MODEL 500
Very popular for church installations. Specifications as above.
No. 29B303. S500G. Mfg. List \$97.50. Net Each \$57.33
No. 29B300. Chrome C-7 Stand. Net Each \$55.59
No. 29B301. Gold C-7 Stand. Net Each \$55.59

THE NEW **M+2** TRANSISTORIZED MOBILE MIKE WITH VOLUME CONTROL



Adds range to CB mobiles because of full voice power. Has built-in 2 transistor pre-amp with volume control that lets you adjust your modulation for the best performance. Has tailored frequency response, 350-3500 cps. press-to-talk switch, 5 ft. coiled cord. Internal transistor amplifier takes power from internal battery. Wired for relay switching. Mfg. List \$39.50.
No. 29B276. Net Ea. \$23.23

TURNER COMMUNICATION MICROPHONES

UNMATCHED EXCELLENCE FOR AMATEUR AND CB MOBILE AND BASE STATIONS EXCELLENT CHOICE FOR ALL 2-WAY RADIO AND PAGING CALL SYSTEMS



DESK MIKES FOR BASE STATION OR PAGING.

Most popular microphone made for desk use. Operates by touch bar on-off switch, or lever lock switch. Comes with 7 ft. cable wired for relay control. Response 100-8000 cps. Deluxe light grey hammertone and chrome finish. 7 3/4" H., 5 1/2" x 5" base. Mfg. List \$23.50. Shpg. wt. 3 lbs.
Model 254D is excellent for paging service and for low impedance transistorized CB transceivers. Output —66 db.
No. 29B285. Model 254X. Crystal. Output —48 db. Net Each \$13.82
No. 29B286. Model 254C. Ceramic. Output —54 db. Net Each \$13.82

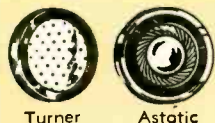
"SINGLE SIDEBAND" DESK MIKE

Specially tailored voice response for maximum communications intelligibility. Response 300-3,000 cps. Operates by touch bar on-off switch, lever lock switch or VOX, in relay controlled circuits. Lustrous black and chrome. Size as above. Mfg. List \$26.50. Shpg. wt. 3 lbs.
No. 29B380. Model 454X. Crystal. Output —db. Net Each \$15.58
No. 29B379. Model 454C. Ceramic. Output —52 db. Net Each \$15.58

MOBILE MICROPHONES

Model 350C. Most widely used microphone for mobile CB. Improves performance by upgrading audio quality. Response 80-7000 cps. Output —54 db. Rugged ceramic interior, extra tough cycalac case, 5 ft. coiled cord. Wired for relay control. Wt. 1 lb. Mfg. List \$12.50.
No. 29B283. Model 350C. Net Each \$7.35
Model 355C. High output ceramic. Level -50 db. Response 80-7000 cps. Tough cycalac case, 5 ft. coiled cord. Wired for relay control. Wt. 1 lb. Mfg. List \$12.50.
No. 29B321. Net Each \$7.35

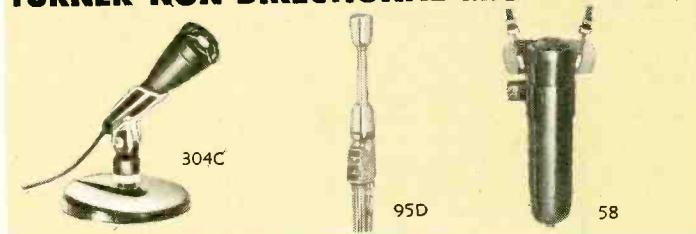
ASTATIC AND TURNER MICROPHONE CARTRIDGES



Like new performance for old mikes. Easily installed. Fit models listed exactly. Easily adapted to many others.

Stk. No.	Manufacturer	Type	Fits Mikes	Net Each
29A396	Astatic	MC-151 Crystal	JT30, T3	\$4.12
29A397	Astatic	MC-127 Ceramic	JT30, T3	4.12
29A398	Astatic	MC-320 Crystal	D-104	5.59
29A399	Astatic	MC-321 Ceramic	D-104, D-104C	4.12
29A400	Astatic	MC-563 Dynamic	10D	9.70
29A401	Astatic	MC-206 Crystal	10C	4.12
29A383	Turner	13C Dynamic	9D, 33D, 2" D. x 7/8"	6.46
29A384	Turner	28C Ceramic	22X, 33X, 1 7/8" D. x 5/8"	4.70
29A385	Turner	23 Crystal	80, 95X, 1 1/2" D. x 1 1/2"	4.70
29B292	Turner	21A Crystal	350X, 254X, 1 1/8" D. x 1 1/2"	3.82
29B293	Turner	21C Ceramic	350C, 254C, 1 1/8" D. x 1 1/2"	3.82
29B313	Turner	27 Crystal	454X	3.82
29B314	Turner	35599A1	+2	4.70

TURNER NON-DIRECTIONAL MICROPHONES



Model 304C Ceramic. Unique microphone "kit" with all the accessories you will ever need—desk stand—stand adaptor, lavalier clip and cord. Universal . . . hold it, wear it—set it up anywhere. It's OK where heat and humidity are a problem.
Model 95D Dynamic. Slender high impedance PA and recording mike.
Model 58 Lavalier Dynamic. Tiny, professional quality, dual impedance hi or 150 ohms. With neck cord and clip.

Stock No.	Turner Type	Response Cps.	Output Level	Cable Length	Mfg. List	Net Each
29A369	304C	60-10,000	—60 db.	12'	\$16.50	\$ 9.70
29A377	95D	100-10,000	—58 db.	20'	\$42.50	24.99
29A375	58	60-13,000	—60 db.	25'	57.00	33.52

ASTATIC HAM MICROPHONES



Specially tailored frequency response gives "punchy" high intelligibility on crowded bands. Chrome adaptor furnished with 5 ft. cable permits use with any 5/8"-27 stand with cord outside of adaptor as illustrated. "G" stand grip bar operates DPST mike and relay control, can be locked "on" if desired. Model UG-8 stand has DPDT switch with all leads terminated in base. Adapts to any circuit. D104 and 10D are all chrome; stand, chrome with gray base. All models, high impedance. Average shpg. wt. 2 lbs. With stand 5 lbs.

Stk. No.	Astatic Type	Element Type	Response Cps	Output Level	Mfg. List	Net Each
29A393	D104	Crystal	30-7500	—46 db.	\$31.00	\$18.23
29A395	10D	Dynamic	300-3000	—52 db.	39.70	23.34
29A402	GD-104	Crystal with G Stand			51.20	30.10
29A404	G-10-D	Dynamic with G Stand			59.90	35.22
29A405	G	Grip-to-talk Stand only			24.95	14.67
29B389	UG-8	Grip-to-talk Stand only (Read descrip. above)			29.95	17.61

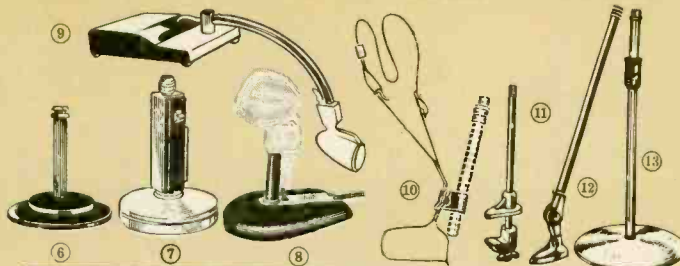
MICROPHONE STANDS, ACCESSORIES AND CONNECTORS

MIKE FLOOR STANDS AND BOOMS



1 B-A LEADER VALUE FLOOR STAND A top-notch quality stand with heavy high-glass double chrome plated Brass Tubes. Easily adjustable from 35" to 63" in height by simple, damage-proof one-hand clutch, without mar or scratch on the chrome tubes! Weighted 10" dia. base is finished in baked wrinkle enamel, has pads to prevent floor mars. Clean 5/8"-27 threads.
Stock No. 32A3. Leader Value Floor Stand. Wt. 10 lbs. Net Each \$6.45

DESK & BANQUET MIKE STANDS



6 VALUE! CHROME-BRASS TUBE DESK STAND. Stem 4" high, base 6" dia., padded feet, grey wrinkle finished. 5/8"-27 thread. Wt. 2 lbs.
No. 20A930. Atlas DS-5. Mfg. List \$3.50. Net Each \$2.10
8 LEADER VALUE! ADJUSTABLE DESK STAND. Velvet action clutch adjust height 8" to 13". Chrome brass 5/8"-7/8" tubes. Padded, grey wrinkle 6" base. 3 lbs. Mfg. List \$6.00.
No. 20B602. Atlas DS-7. Net Each \$3.60

ATLAS "VELVET ACTION" MICROPHONE STANDS

No Slipping — No Rattle — No Noise — No Scratching — No Wear
 Feature full Grip, jam-proof clutch for easy height adjustment, functionally designed "Anti-tip" bases with chrome cover or scuff-proof baked on gray wrinkle finish, and life-time super chrome plated tube assemblies. MS-11C uses 7/8" and 5/8" tube; MS-20 and MS-25, 1 1/8" and 7/8" tube. MS-25 has controlled "air lock" cushion for extra quiet collapse of stand. All have 5/8"-27 top thread. MS-11C, MS-14G and MS-20 have new low profile bases.
Stk. No. Model Height Weight Base Net Each

2	32B12	MS-11C	34" to 62"	13 lbs.	10" Chrome	\$ 8.70
3	32A1	MS-20	37" to 66"	15 lbs.	12" Wrinkle	10.80
4	32A2	MS-25	38" to 67"	22 lbs.	17" Wrinkle	17.70

5 Boom Attachment. An extremely versatile device to center mike over best pickup area. Can be attached to any stand having 5/8"-27 thread. Ideal for piano and similar pickup where obstacles make regular mike stand impossible to use. All swivel parts are die-cast resulting in smooth operation and secure locking positions. 32 inch boom is chrome plated. Wt. 3 1/2 lbs.
No. 32B14. Atlas BB-1. Mfg. List \$8.50. Net Each \$5.10
3 "FLEXO" MIKESTER Clamp-On Desk or Pulpit Boom Stand. Has universally adjustable spring controlled floating arms. Clamps to any desk or pulpit; positions microphone in 36" arc in any direction—the BEST Pulpit or Desk Stand! Weight, 6 lbs.
No. 31A50. "FLEXO" MIKESTER Pulpit or Desk Stand. Net Ea. \$9.38

7 TOUCH-TO-TALK DESK STAND. Dependable, DPDT switch action for relay control, paging, radio communications. May be locked "on", or instantly released. Chrome and gray. 7" H., 5 1/8" dia.
No. 20B688. Electro-Voice 428. Mfg. List \$17.50. Net Each \$10.29

8 "STREAMLINED" DESK STAND. Features concealed rear cable exit and functional design. Perfect for any mike. Gun metal and chrome with rubber bumpers. 5/8"-27 thread. Wt. 2 lbs.
No. 20A944. Atlas DS-10. Mfg. List \$6.00. Net Each \$3.60

11 SWITCHBOARD MIKE SUPPORT for overhead mounting. Has cable feed through at mike end of 12" flexible arm. Swivel at base joint lets arm and mike swing aside. 13 lb. base, grey wrinkle enameled.
No. 32B6. Atlas SB-1. Mfg. List \$18.00. Net Each \$10.80

10 ATLAS "CHESTY" MIKE SUPPORT. Hangs around neck on lavalier cord. Wire frame and flexible gooseneck hold mike—no hands!
No. 32A213. Atlas NS-1. Mfg. List \$6.50. Net Each \$3.90

11 CLAMP-ON BRACKET. Holds securely on flat surface 2" thick or less. Chrome 6" long tube, 5/8"-27 thread. Wt. 2 lbs.
No. 20A601. Atlas BC-1. Mfg. List \$4.00. Net Each \$2.40

12 MULTI-PURPOSE BRACKET. Swivels 350° at base or up and down, with positive stops. Moving parts spring loaded. Needs no locking adjustments. Cable may be concealed in arm. Completely tamper-proof. All chrome. Length 12 3/4". 5/8"-27 threaded. Wt. 3 lbs.
No. 20A798. Atlas US-2. Mfg. list \$9.50. Net Each \$5.70

13 NEW DELUXE BANQUET STAND. Adjustable height 14 1/2" to 26". Super chrome 5/8"-7/8" brass tubes. New full chrome low silhouette base of trim modern design. Wt. 5 1/2 lbs.
No. 32B5. Atlas TS-8. Mfg. List \$10.75. Net Each \$6.45

5/8" - 27 MIKE MOUNTING ACCESSORIES



Fig.	Stock No.	Description	Net Each
1	17A1073	Suspension Hook	\$1.41
2	20C792	6" Flexible Goose Neck	1.20
3	20C917	13" Flexible Goose Neck	1.65
4	20A872	19" Flexible Goose Neck	2.40
5	19B632	4 1/2" L. Swivel Adaptor	3.15
6	19B635	Snap-on Mike to Stand Adaptor	1.65
7	32B7	Mike-to-stand Adaptor. Has new lock-on catch with thumb release	2.10
8	20A605	Shock Absorber Adaptor	1.76
9	19B621	Cable Hanger for stand	1.65

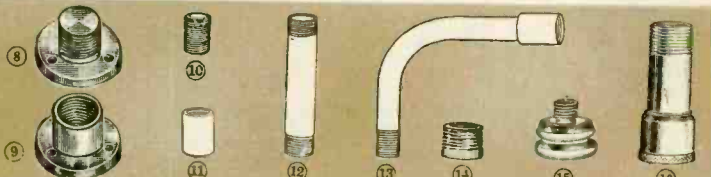


Fig.	Stock No.	Description	Net Each
8	17A586	Male Flange 1 1/4" diameter	\$0.60
9	17A587	Female Flange 1 1/4" diameter	.60
10	20C794	Threaded Nipple 3/4" L.	.30
11	20C795	Female Threaded Coupling	.48
12	20C790	3" L. Extension Tube	.54
13	17A588	6" L. Extension Tube	.60
14	20C796	Right Angle Bend	1.05
15	20A609	5/8"-27 Male to 1/8" IPT Female	.45
16	20A608	5/8"-27 Female to 1/8" IPT Male	.45
17	20A606	5/8"-27 Male to 1/2" IPT Female	.88

AMPHENOL MICROPHONE AND SHIELDED CABLE CONNECTORS



Standard single contact pressure type connectors with 5/8"-27 male or female thread as illustrated. Made of brass, chrome plated. Type 75-MC1F has a removable coupling ring (see inset) and will mate with both male and female fittings. Type 75-MC1M is supplied less the coupling ring. Type 75-CL-PC1M has a spring contact to short across circuit when cable connector is removed. Shpg. wt. 1 oz.

Stk. No.	Type	Description	1-24 Each	25-99 Each	100 Each
1	75-MC1F	Univ. Male or Female	\$0.64	\$0.53	\$0.45
2	12A312	Male, Less Ring	.46	.38	.32
3	12A317	Female, Angle	1.31	1.09	.92
4	12A313	Male, Chassis	.41	.35	.29
5	12A315	75-CL-PC1M Chassis, Shorting	.67	.56	.47
6	12A318	1/4" Phone Plug Adapter	.52	.43	.36
7	12A319	75-CC1 Dust Cover	.45	.37	.31

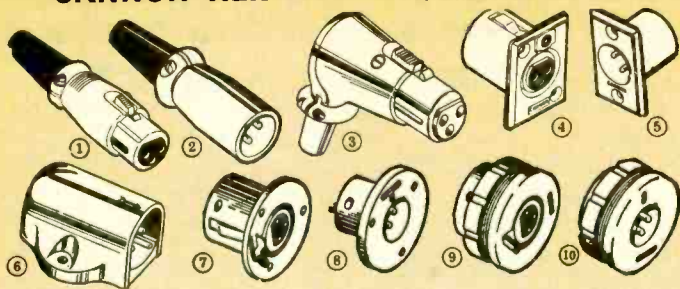


Equipped with screw coupling ring to prevent accidental disconnection. Brass chrome-plated. 2 and 3 contact cable connector has 1/8" spring card protector, 4-contact has 3/8". Type 3 chassis connector mounts in 3/8" hole. Type 6 mounts in 1/2" hole. Shpg. wt. 1 oz.

Stk. No.	Type	Fig.	Cont.	Description	1-24 Each	25-99 Each	100 Each
12A320	80MC2M	1	2	Male, Cable	\$0.69	\$0.57	\$0.48
12A321	80MC2F	2	2	Female, Cable	.71	.59	.50
12A323	80PC2F	3	2	Female, Chassis	.60	.50	.42
12A324	91-MC3M	1	3	Male, Cable	1.01	.85	.71
12A326	91-MC4M	1	4	Male, Cable	1.03	.86	.72
12A325	91-MC3F	2	3	Female, Cable	1.07	.89	.75
12A327	91-MC4F	3	4	Female, Cable	1.10	.92	.77
12A329	91-PC3F	3	3	Female, Chassis	.73	.61	.52
12A331	91-PC4F	4	4	Female, Chassis	.72	.60	.51
12A332	91-CCC-3	Cap and Chain for 91 Series			.48	.40	.34

MICROPHONE CONNECTORS AND ACCESSORIES

CANNON XLR AUDIO CONNECTORS



Durable professional type connectors for audio equipment. Standard on many types of microphones, amplifiers and recorders. (3 conductor). Mating units are polarized and equipped with a latchlock device to prevent accidental disconnection. Housing finish is nickel satin. ① and ② have serrated finger grips for easier handling. With cable clamp and neoprene cable relief. Will take up to $\frac{1}{16}$ " O.D. cable. Shpg. wt. 2 oz.

Stk. No.	Type	Description	1-9 Each	10-49 Each
① 12C257	XLR-3-11C	female cable plug	\$1.29	\$1.18
② 12C259	XLR-3-12C	male cable plug	1.13	1.03
③ 12A194	XLR-3-15	90° female plug	3.38	3.10
④ 12C260	XLR-3-31	female wall recpt.	1.93	1.77
⑤ 12C261	XLR-3-32	male wall recpt.	1.10	1.01
⑥ 12A193	XLR-3-42	90° male mike recpt.	1.39	1.27
⑦ 12B291	XLR-3-13	female wall recpt.	1.85	1.70
⑧ 12B293	XLR-3-14	male wall recpt.	.83	.78
⑨ 12B295	XLR-3-13N	female panel recpt.	2.14	1.98
⑩ 12B297	XLR-3-14N	male panel recpt.	1.73	1.59

SWITCHCRAFT Y-CONNECTOR



For two mikes in parallel to a single input. Has 2 $\frac{5}{8}$ "-27 male connectors and one female. Nickel plated finish. No. 12A307. Type 25Y. Net Each. **97c**

AMPHENOL MIKE SWITCH



Male one end, female on other, mates with all standard $\frac{5}{8}$ "-27 single contact connectors. Push-to-talk or slide switch for permanent contact. Shorts across circuit in "OFF" position. wt. 2 oz.

Stk. No.	Type	1-49 Ea.	50-249 Ea.	250 Ea.
12A316	75-MCIS	\$1.98	\$1.63	\$1.39

SWITCHCRAFT "MINI-MIX" 2 INPUT MIXERS

Accommodates two high impedance microphones or pickups, each with separate gain control for mixing. Control knobs are recessed. Case is metal, size 2 1/6x 1 1/8x 1 1/6" with attractive brown finish and nickel plated accessories. Wt. 4 oz.



311 has standard length $\frac{1}{4}$ " dia. phone plug output with extended shoulder to fit recorders with recessed jacks. 313 has short $\frac{1}{4}$ " dia. plug required for late model Revere and Wallensak recorders.

① 12B454. Type 311, Phono Jack Inputs, Phone Plug Output.	Net Ea.	\$5.26
② 12A232. Type 313, Short length phone jack inputs, short length phone plug output.	Net Ea.	\$5.26
③ 12B450. Type 315, Phone Jack Inputs, Mike Conn. Output.	Net Ea.	\$4.67
④ 12B455. Type 320, Male Mike Connectors In, Female Out.	Net Ea.	\$4.67
⑤ 20A259. Type 340, Same as type 310, less volume controls.	Net Ea.	\$2.21

NEW SWITCHCRAFT TRANSISTORIZED 2-INPUT "MIX-AMP" PRE-AMPLIFIERS



VERY POPULAR WITH MUSIC GROUPS

Internal pencil powered transistor amplifier compensates for "losses" from usual resistance type mixers. Increases output of low level microphones and matches impedance to amplifier input. Response 20 to 20,000 cps \pm 1 db; over-all gain 6 db at "Hi" impedance, 25 db at "Lo" impedance. Input is standard $\frac{1}{4}$ " dia. phone plug, output 2-conductor mini-plug on 12" cable. Adaptor to standard $\frac{1}{4}$ " phone plug supplied.

No. 20B294. Type 503.	Net Each.	\$9.70
As above except with standard $\frac{1}{4}$ " dia. lang shoulder phone plug output.		
No. 20B295. Type 504.	Net Each.	\$8.53

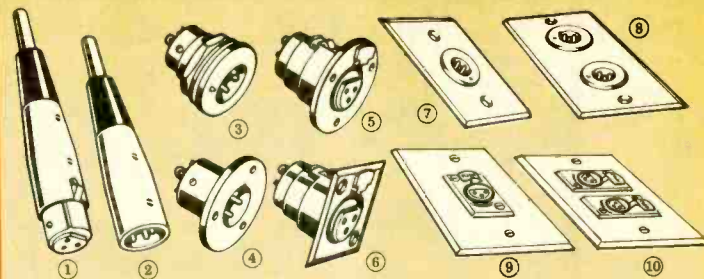
HIGH QUALITY TELEPHONE PICK UP

\$4.65 FOR USE WITH RECORDERS AND AMPLIFIERS



Picks up both sides of phone conversations. Slips over receiver end of telephone handset. Fits securely and serves as comfortable padded ear cushion to be left in place whether in actual use or not. Very sensitive. With shielded plastic lead. Plug for recorder not supplied. Made in U.S.A. No. 29B316. Net Each. **\$4.65**

SWITCHCRAFT AUDIO CONNECTORS



Professional style audio connectors made for rugged service. Connectors are 3-contact, polarized with exclusive grounding lug on all units. Shells are made of die-cast zinc, satin nickel finish. Inserts are of high-impact plastic. Wall plates fit standard single gang electrical outlet boxes.

Stk. No.	Type	Description	Net Each
① 12B348	A3F	Female Cable Plug—with Neoprene Strain bushing	\$1.32
② 12B349	A3M	Male Cable Plug—with Neoprene strain bushing	1.12
③ 12B350	B3M	Male Panel Receptacle—Mts. in 1" hole w/nut	1.71
④ 12B351	C3M	Male Panel Receptacle—Mts. in $\frac{3}{4}$ " hole w/screws	.82
⑤ 20A681	C3F	Female Panel Receptacle—Mts. in $\frac{1}{4}$ " hole w/screws	1.82
⑥ 20A682	D3F	Female Panel Receptacle—Mts. in $\frac{1}{4}$ " hole w/screws	1.88
⑦ 20A683	G3M	Male Wall Plate—Brushed finished. Fits outlet box	2.94
⑧ 20A684	G3MS	Male Wall Plate—Brushed stainless steel	3.23
⑨ 20A685	H3M	Dual Male Wall Plate—Brass finished	4.50
⑩ 20A686	H3MS	Dual Male Wall Plate—Brushed stainless steel	4.80
⑪ 20B285	J3F	Female Wall Plate—Brass finished	2.76
⑫ 20B287	J3FS	Female Wall Plate—Brushed Stainless steel	3.06
⑬ 20B288	K3F	Dual Female Wall Plate—Brass finished	4.06
⑭ 20B293	K3FS	Dual Female Wall Plate—Brushed stainless steel	4.35

READY-MADE MICROPHONE CABLE

25-ft. long with $\frac{5}{8}$ "-27 Universal connectors on both ends (use as male or female). Shpg. wt. 6 Oz.



\$2.94

No. 20A604. Net Each.

SWITCHCRAFT TRANSISTORIZED MIXERS

4-channel high impedance stereo-monaural mixer featuring built-in transistor amplifier in each of two stereo channels with individual gain controls on each input. "Stereo-Mono" switch allows all 4 inputs to be used monaurally. Amplifier powered by 9 volt battery (included) overcomes usual loss encountered in resistance type mixers and provides a 6 db gain. Low noise level, low distortion, frequency response 20 to 20,000 cps. Inputs are phone jacks, phono jacks output.



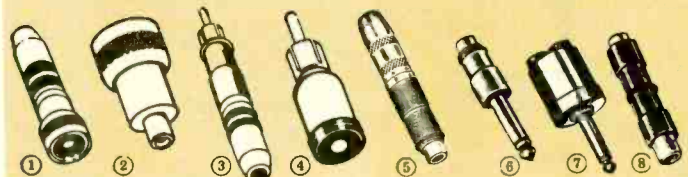
Modern styling with tan finish, brown knobs with gold metallic inserts. Size 6" L. x 2" H. x 3" D. Rubber mounting feet. Shpg. wt. 3 lbs. **\$22.05**

No. 29A115. Model 306TR. Stereo-Monaural Mixer. Net Each.

Transistorized Monaural Mixer. Same as above except single transistor amplifier and 4 inputs for monaural use only. **\$17.64**

No. 20A197. Model 301TR. Mixer. Net Each.

SWITCHCRAFT SHIELDED ADAPTORS



Provides a convenient means of coupling various combinations of phono and mike leads interchangeably with positive noise free electrical connections. In sturdy brass nickel plated housings $1\frac{1}{8}$ " long, $1\frac{1}{2}$ " diameter. Wt. 5 oz.

Stock No.	Type	Input	Output	Net Ea.
① 12B225	332A	Phono Jack	Female Mike Connector	\$1.05
② 12B226	334A	Phono Jack Connector	Female Mike Connector	.75
③ 12B227	336A	Phono Jack	Phono Plug Connector	.87
④ 12B228	338A	Male Mike Connector	Phono Plug Connector	.60
⑤ 20A484	336B	Phono Jack	Phono Jack	.87
⑥ 12B230	345A	Phono Jack	Phone Plug	.75
⑦ 12B231	346	Two Phone Tip Jacks	Phone Plug	1.29
⑧ 12B238	349A	Phono Jack	Phono Jack	.60

HIRSCHMAN MULTI-POLE PLUGS



Small, shielded plugs with molded-on strain reliefs. Mate with input and output jacks on many foreign built tape recorders and radios including Norelco, Sony, Uher, Telefunken, Korting, Dual, Kuba, etc. Shpg. wt. 2 oz.

Stk. No.	Type	No. Pins	Pin Diagram	Shell	Net. Ea.
① 17B282	MA53	3	A	Metal	\$0.83
② 17B283	MA55	3	B	Metal	.72
③ 17B293	MA55S	3	C	Metal	.72
④ 17B294	MA530	5	A	Ivory Plastic	.42
⑤ 17B295	MA550	5	B	Ivory Plastic	.55
⑥ 17B296	MA550S	5	C	Ivory Plastic	.55

NEW DELUXE TALK-A-PHONE INTERCOMMUNICATION

THE ACCEPTED SYMBOL OF QUALITY AND DEPENDABILITY! THERE'S A TALK-A-PHONE FOR



MFG.
LIST \$67.00
\$39⁰⁰
NO MONEY
DOWN

**COST LESS THAN
A PENNY A DAY
TO OPERATE**

T-LC-2 TWO-STATION INTERCOM SYSTEM

Provides finest two-way communications with unmatched dependability for continuous duty. Complete system includes a master station, a sub station and 50 ft. of cable. Additional cable of up to 2000 ft. may be added (listed below). Both master and remote can be set for private (one cannot "eavesdrop" on the other) yet either can originate calls, even in private setting. Remote in non-private position may be answered from a distance without switching. Only master need be plugged in to 110-120 V. AC or DC outlet. Master has volume control, talk-listen switch and pilot light. Housing is rugged charcoal grey vinyl finished steel case with brushed chrome face plate. Remote has only talk-listen switch, is same color as master but baked grained enamel finish. Master size: 3 1/8 x 10 1/2 x 8 3/4". Sub. 2 7/8 x 7 1/2 x 8 3/4".

T-LC-2 COMPLETE 2-STATION SYSTEM with 50 ft. of cable. Shpg. wt. 13 lbs.
No. 33A253. Mfg. list \$67.00. **Net..... \$39.00**

WALL MOUNTING BRACKETS for Remotes. Wt. 1 oz. per pair.
No. 33A256. Mfg. list \$1.00. **Net Per Pair..... 60c**

5303. 3-CONDUCTOR INDOOR CABLE for use where additional lengths are required between master and remote. Wt. per 100 ft. 1 lb.
No. 2A231. Mfg. list per ft. 6c. **Net, Per Ft..... 3 1/2c**

MASTER-REMOTE SELECTIVE SYSTEMS



T-LM-5 OR T-AC-5406 MASTER

T-LM-10 OR T-AC-5411 MASTER



T-LR-3 OR T-LR-3M



T-LR-3R



TALK-A-PHONE MULTIPLE STATION SYSTEMS

**SUPER-SELECTIVE
ALL MASTER
SYSTEMS**



MFG.
LIST \$64.00

\$37⁵⁰

NOTHING
DOWN



AVAILABLE IN NORMAL POWER OR HIGH POWER MASTERS

Permits use of up to 5 remotes with T-LM-5 or T-AC-5406 master or up to 10 remotes with T-LM-10 or T-AC-5411 master. Master can talk and listen to any remote individually, more than one remote at once or to all remotes at same time. Remotes can originate calls to master, but cannot talk to each other.

Remotes can operate as private or non-private. When in non-private remotes can be answered from distance. Master is always private, and cannot be "eavesdropped on."

Only one master can be used in master remote systems. Master is only station that needs power. Masters size 10 1/2" W. x 8 3/4" D. x 3 1/8" H. Wt. 7 lbs. Case is grey vinyl clad and brushed chrome. Remotes size 7 1/2" W. x 8 3/4" D. x 2 7/8" H. Wt. 4 1/2 lbs. Finished in grained baked enamel and brushed chrome. Wall mounting remote model T-LR-3R is 6 1/2" x 4 1/8" x 2" D. Two types of masters are available, one for normal noise areas (offices, etc.) the other for hi-noise areas (factories, etc.).

T-LM-5 NORMAL POWER MASTER for up to 5 remotes. For 120 V. AC-DC.
No. 33A223. Mfg. List \$64.00. **Net Each..... \$37.50**

T-LM-10 NORMAL POWER MASTER for up to 10 remotes. For 120 V. AC-DC.
No. 33A224. Mfg. List \$79.00. **Net Each..... \$46.25**

T-AC-5406 HI-VOLUME MASTER for up to 5 remotes. For 120 V. 60 cy. AC only.
No. 33A225. Mfg. List \$79.00. **Net Each..... \$46.25**

T-AC-5411 HI-VOLUME MASTER for up to 10 remotes. For 120 V. 60 cy. AC only.
No. 33A226. Mfg. List \$95.00. **Net Each..... \$55.50**

T-LR-3M DESK STYLE REMOTE.
No. 33C263. Mfg. List \$22.50. **Net Each..... \$12.95**

T-LR-3R FLUSH WALL MOUNTING REMOTE.
No. 33C264. Mfg. List \$22.50. **Net Each..... \$12.95**

For cable requirements measure from master to each remote. Order cable 5303 listed with two station system above.

All master systems in either 5 or 10 station capacity. Available in normal power models for average room level or high volume models (10 times volume output of normal unit) for noisy and larger areas. Each master can call and converse with other masters, selectively and privately (cannot be eavesdropped on by other stations) or hold conferences with 2 or more masters. Several 2-way conversations can be held simultaneously without interfering with one another. Each master controls incoming volume. Cabinets of Grey vinyl and brushed chrome. Normal power Masters operate from 120 V. AC or DC. High power Masters operate from 120 V. AC only and cannot be intermixed with normal power models. For 5 Master System run 6 conductor cable listed below between Masters. For 10 Master System run 11 conductor cable between Masters. All masters and remote are 10 1/8" W. x 8 3/4" D. x 3 1/8" H.

T-LS-5 5-STATION NORMAL POWER MASTER. Wt. 7 lbs. **\$37.50**

No. 33B274. Mfg. List \$64.00. **Net Each.....**

T-LS-10 10-STATION NORMAL POWER MASTER. Wt. 7 lbs. **\$46.25**

No. 33B275. Mfg. List \$79.00. **Net Each.....**

T-AC-505 HI-VOLUME 5-STATION MASTER. Wt. 7 lbs. **\$46.25**

No. 33B276. Mfg. List \$79.00. **Net Each.....**

T-AC-510 HI-VOLUME 10-STATION MASTER. Wt. 7 lbs. **\$55.50**

No. 33B277. Mfg. List \$95.00. **Net Each.....**

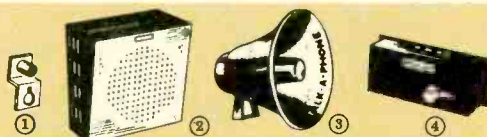
6 CONDUCTOR CABLE (5506) for connecting T-LS5 or T-AC-505 Master for indoor and outdoor use. Approx. O.D. 1/4". Wt. per 100 ft. 3 lbs. **9 1/2c**

No. 2A229. **Net Per Ft.....**

11 CONDUCTOR CABLE (9911) for connecting T-LS10 or T-AC-510 Master. For indoor and outdoor use. Approx. O.D. 3/8". Wt. per 100 ft. 5 lbs. **17c**

No. 2A230. **Net Per Ft.....**

ACCESSORIES FOR TALK-A-PHONE INTERCOMS



① **T-W1 Wall Mounting Brackets** for Models T-LC-2, T-LR-3, T-LR-3M, T-LR-2. Wt. 1 oz. per pair.
No. 33A256. Mfg. List \$1.00. **Net Per Pair..... 60c**

② **T-HP-3 Hi-Power Remotes.** With 8" speaker and 5-watt handling capacity. Charcoal gray metal cabinet, 12" W. x 8" D. x 12" H. Wt. 9 lbs. **\$17.50**
No. 33B279. Mfg. List \$29.95. **Net.....**

③ **T-C-20 Hi-Power Re-entrant Horn.** 15 watt capacity. For indoor and outdoor use. Charcoal gray 9" Wt. 5 lbs. **\$27.00**
No. 33B280. Mfg. List \$46.00. **Net.....**

④ **T-S-100 Wall Switch** for originating calls through T-HP-3 Hi-Power Remote or TC-20 Re-entrant Horn. 5 3/4" W. x 2 1/2" D. x 1 3/4" H. Wt. 1 lb. **\$3.75**
No. 33B281. Mfg. List \$6.40. **Net.....**



B-A CAN SUPPLY ALL TALK-A-PHONE UNITS

B-A can supply all Talk-A-Phone Units even though not listed. We will be glad to assist you in determining your requirements. Just send us a rough layout where units are to be used, and what you expect each station to be capable of accomplishing. B-A's sound experts will design a system for you, giving you an immediate reply. Just address your request to Dept. 81.

SYSTEMS FOR HOME, OFFICE AND INDUSTRY!

EVERY PURPOSE — ONLY TALK-A-PHONE HAS EVERYTHING, DOES EVERYTHING!



Mfg. List
\$146.00

\$85⁵⁰
Nothing
Down

ALL NEW TALK-A-PHONE WIRELESS INTERCOM SYSTEMS

- NO INSTALLATION
- NO WIRING • NO CABLES
- JUST PLUG IN AND TALK

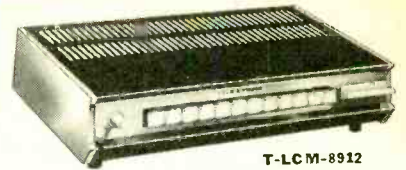


Featuring the Exclusive
TALK-A-PHONE "SONIC-GATE"



Your Voice
Goes Through . . . Noise and Hum
are Screened Out . . .

The Sonic Gate circuit effectively suppresses line noises and hum by 30 db while system is in actual operation, as well as when in Stand-By position.



T-LCM-8912



T-LCM-8906



T-LCS-901, 2, 3, 4, 5, 6

**NO
MONEY
DOWN
ON
EASY
TERMS**

QUALITY 2-STATION WIRELESS SYSTEM

Highest quality wireless system works where others won't. Provides reliable communications where permanent or wired installations may not be practical. Ideal for offices, factories, stores, homes, apartments, nurseries, farms, etc. Operates over distances as long as system is plugged into outlets that are on same power company service transformer. Additional units may be added for operation of as many stations as desired on a common talk basis (all stations hear all conversations).

Modern design cabinets are finished in charcoal grey and brushed chrome. Station measures 10 1/2" W. x 8 3/4" D. x 3 1/8" H. Each station plugs into 110-120 V. AC or DC.

T-LC-33 2-STATION SYSTEM. Complete with 2 wireless stations. Ready to plug-in. Wt. 16 lbs. **\$85.50**

No. 33A227. Mfg. List \$146.00. Net System

T-LC-17 ADDITIONAL SINGLE WIRELESS STATION. Wt. 8 lbs. **\$42.75**

No. 33A242. Mfg. List \$73.00. Net Each

BUY FROM B-A ON EASY TERMS—NOTHING DOWN

OPTIONAL CRADLE PHONE ACCESSORY FOR ANY STATION WIRELESS OR WIRED



Fits any Master or Remote units except flush mounting. Available at \$35.00 per unit extra. When ordering units add "H" to Stock Number of above units and specify with Cradle Phone.

12 OR 6 STATION WIRELESS SELECTIVE TALK SYSTEMS

ALL MASTER SYSTEM

12 station master provides up to 6 separate pairs of conversations when 12 masters are used. Each master can select one station to talk to, leaving balance of channels open for other masters to use. Conferences can also be set up. 6 station master operates in same way except only 3 separate pairs of conversations may be held simultaneously.

Masters are 14" W. x 8 3/4" D. x 3 1/8" H. In charcoal grey with brushed chrome. Wt. 12 lbs.

T-LCM-8912 12-STATION SELECTIVE WIRELESS MASTER. **\$95.80**
No. 33A211. Mfg. List \$164.00. Net Each

T-LCM-8906 6-STATION SELECTIVE WIRELESS MASTER. **\$85.50**
No. 33A212. Mfg. List \$146.00. Net Each

MASTER REMOTE SYSTEM

Use as many masters of above, according to master capacity, then add as many Remotes as you desire. Remotes can only talk on channel they are made for. Remotes on same channel can also converse with each other but all stations on that channel will hear conversation. Remotes match masters in appearance. Size 10 1/2" W. x 8 3/4" D. x 3 1/8" H. Wt. 7 lbs.

No. 33A213. T-LCS901-Channel 1.	Mfg. List \$84.00.	Net	\$49.00
No. 33A214. T-LCS902-Channel 2.	Mfg. List \$84.00.	Net	\$49.00
No. 33A215. T-LCS903-Channel 3.	Mfg. List \$84.00.	Net	\$49.00
No. 33A216. T-LCS904-Channel 4.	Mfg. List \$84.00.	Net	\$49.00
No. 33A217. T-LCS905-Channel 5.	Mfg. List \$84.00.	Net	\$49.00
No. 33A218. T-LCS906-Channel 6.	Mfg. List \$84.00.	Net	\$49.00

NEW TALK-A-PHONE COMBINATION SYSTEMS (INTERMIX OF MASTER AND REMOTES)



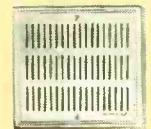
T-CL-5 OR T-AC-605 MASTER



T-CL-10 OR T-AC-610 MASTER



T-LR-2M SUB



T-LR-2R SUB



Masters and Remotes can be intermixed with up to a total of 10 masters. Masters only need be connected to power line.

Two types of Masters are available for normal noise level or hi-volume units for noisy areas such as factories, etc.

Sub-Stations do not require connection to an electrical outlet. Start a system with 2 or more stations (at least one must be a Master). Add Masters or Subs later as needed. Works for pennies a day. Masters can call and carry on a conversation with any other station selectively, or with any group of stations simultaneously. Several separate 2-way conversations can be held at the same time without interfering with one another. Sub-Stations function "non-privately"; thus Sub can reply at a distance, and Master can monitor Sub. If desired, Sub can be exclusive to one or more Masters. Subs cannot originate calls or converse with each other.

Built-in control enables Masters to be switched "private" or "non-private" at will, and remain in position desired. Persons at "non-private" Masters can reply at a distance without operating controls. When Master is switched "private", other stations cannot listen-in. Masters can receive calls from other Masters whether in "private" or "non-private" position. In this system, Sub-Stations are always "non-private".

Wiring requirements: for Master to Master use either 6210 for 5 station Master or 6226 for 10 station Master; for remote measure only length needed from remote back to nearest master using 6902 wire listed below. Master in vinyl clad grey and brush chrome. Remote in matching grey grained baked enamel and brush chrome. Masters size: 10 1/2" W. x 8 3/4" D. x 3 1/8" H. Wt. 7 lbs. Remotes size: 7 1/2" W. x 8 3/4" D. x 2 7/8" H. Wt. 4 1/2 lbs.

T-CL-5 5-STATION NORMAL POWER MASTER. **\$44.95**
No. 33A219. Mfg. List \$77.00. Net Each

T-CL-10 10-STATION NORMAL POWER MASTER. **\$54.00**
No. 33A220. Mfg. List \$92.00. Net Each

T-AC-605 5-STATION HI-VOLUME MASTER. **\$54.00**
No. 33A221. Mfg. List \$92.00. Net Each

T-AC-610 10-STATION HI-VOLUME MASTER. **\$62.50**
No. 33A222. Mfg. List \$107.00. Net Each

T-LR-2M DESK STYLE REMOTE for any master. **\$12.95**
No. 33B250. Mfg. List \$22.50. Net Each

T-LR-2R Same as Desk Remote except for flush wall mounting. Wall opening 4 1/8" W. x 4 1/8" H. x 2" D. Stainless steel front panel measures 4 1/8" square. Wt. 4 lbs. **\$12.95**
No. 33B251. Mfg. List \$22.50. Net Each

6210 (5 PAIR) CABLE for interconnecting T-CL-5 or T-AC-605 Masters. For use indoors or outdoors. Approx. O.D. 3/8". Wt. per 100 ft. 5 lbs. **16c**

No. 2A226. Mfg. List per ft. 27c. Net Per Ft.

6226 (13-PAIR) CABLE for interconnecting T-CL-10 or T-AC-610 Masters. For indoor or outdoor use. Approx. O.D. 5/8". Wt. per 100 ft. 12 lbs. **37c**

No. 2A227. Mfg. List per ft. 64c. Net, Per Ft.

6902 (2-CONDUCTOR) CABLE for connecting T-LR-2M, or T-LR-2R to nearest Master. Approx. O.D. 1/8". Wt. per 100 ft. 1 lb. **21 1/2c**

No. 2A228. Mfg. List per ft. 4 1/4c. Net, Per Ft.

63

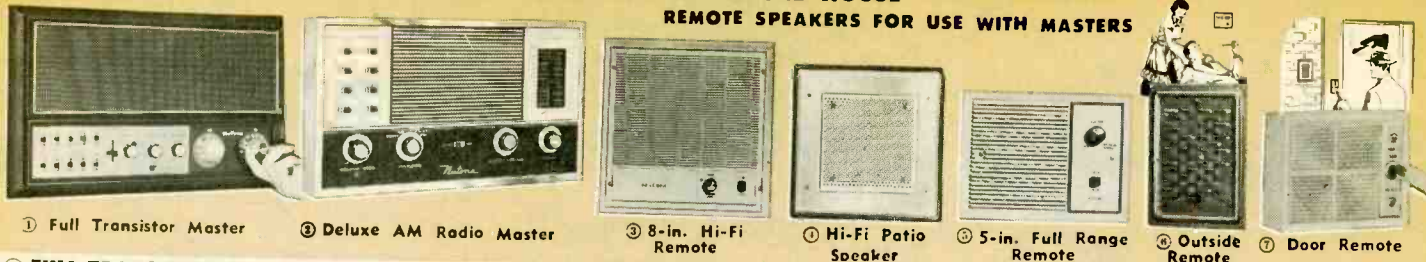
ALL NEW BUILT-IN HOME INTERCOMS

AM-FM RADIO OR AM RADIO PLUS INTERCOM THROUGHOUT THE HOUSE

NuTone

A FAMOUS NAME IN HOUSEHOLD PRODUCTS

REMOTE SPEAKERS FOR USE WITH MASTERS



1 FULL-TRANSISTOR FM-AM INTERCOM-RADIO MUSIC SYSTEM

\$101³³

MFG. LIST \$152.00

with Rough-in Kit

REQUIRES ONLY 3 CONDUCTOR CABLE TO REMOTE SPEAKERS

- Up to 10 Remote Stations.
- FM with AFC.
- 10 transistors, 9 diodes.
- Large ceramic master speaker.
- Easy to install.
- Phono jack.

Never before so many features in a luxury set at a budget price! New all-call lever at the master lets you "page" every room, with speakers, at the same time. Each person can answer without walking to their remote speaker to operate the controls. Local-distance switch for best reception of both local and distant radio stations on master station. Adjustable automatic "Intercom-Override." Tuner adapts for background music only. Intercom section can be left inoperative... ideal for use in professional offices. Economical to use... operates on no more current than a large electric clock. Master panel controls include 10 station selector switches, talk-listen switch, volume control, tone control, master volume control, Phono-AM-FM selector switch, separate AM and FM tuning controls. Master unit only complete with rough-in frame. Use with your choice of remote type units listed right. Choice of two finishes. Shpg. wt. 3 lbs.

No. 36C146-2 Model 2067. Egg Shell White & Silver Anodized. Net. **\$101.33**
 No. 36C135-2 Model 2068. Colonial Copper & Copper Anodized. Net. **\$101.33**

2 2053 AND 2054 AM RADIO MASTERS

Contains only AM Radio and permits using up to 8 remote stations. Other functions are the same. Specifications: 5 tubes including rectifier, 5" speaker, power consumption 30 watts at 117 V. 60 cy. AC. Size 16" wide, 8 3/4" H., 1 5/8" D. Requires length 3 cond. wire to each remote. Comes complete with rough-in box. See right for remote.

Model 2053 Silver anodized Deluxe AM-Radio Master. **\$53.79**
 No. 36C165. Mfg. List \$80.70. Net Each.
 Model 2054 Copper anodized Deluxe AM-Radio Master. **\$53.79**
 No. 36C166. Mfg. list \$80.70. Net Each.

L70N SURFACE MOUNT ELECTRONIC CHIME

Rich new walnut wood-grain finish cover. Traditional styling. Basket-weave grille cloth and gold ornaments. Adjustable for eight or 4 notes for front door, 1 note for rear door, different note for third door. 8 1/4" wide x 12" high x 3 3/8" D. Transformer included.

No. 36A104. Mfg. list \$41.95. Net Each. **\$25.17**

L73 "ELECTRONIC" BUILT-IN DOOR CHIME

Connects directly with Nutone Radio-Intercom Systems, relaying chime tone to all rooms with speaker, or will operate independently as chime when intercom system is turned off. Two notes front door, one note rear and adjustable volume control. Gold anodized bezel with Ivory Grille. Bezel 7 1/8" square, cutout 6 7/8" square x 2" deep. Shpg. wt. 5 lbs. 101-0B transformer included. Mfg. list \$18.95.

No. 36A124. Net Each. **\$11.37**

2021B Hi-Fi Speaker Remote. 8" coaxial hi-fi accessory speaker for in-side use. Exclusive "Talk-Listen" button for intercom and door-answering. All controls removable if desired and mount in separate bezel (furnished) which can be mounted in two-gang wall box. Decorative piece furnished snaps-in where controls come out. Desert sand finish.

No. 36A132. Shpg. wt. 6 lbs. Mfg. List \$19.75. Each. **\$13.17**
 No. 36A133. Rough-In Frame for 2021B speaker. Shpg. wt. 2 1/2 lbs. Each. **\$15.51**

1 New 2014 Patio Speaker. Includes a 3-wire Remote-Control Unit with exclusive talk-listen button and rotary volume control. Permits speaker to be mounted out of reach. Completely weatherproof. No. 36C157. Shpg. wt. 8 lbs. Mfg. list \$22.00. Each. **\$14.68**

3 Model 2027. 5" Full Range Remote. Desert sand finish. Complete with rough-in box. Requires rough-in opening of 7x5 1/8". No. 36C173. Shpg. wt. 4 lbs. Net Each. **\$5.67**

2006 Outside Door Remote. Complete with rough-in box. No. 36C174. Shpg. wt. 2 lbs. Each. **\$5.00**

1 New Model 412 Universal Door Speaker. Optional door speaker for use with all Nutone 3-wire intercom systems. Desert sand finish. Unit is surface mounting. "Break-away" talk-listen switch permits speaker to be mounted out of reach, with "talk-listen" button mounted on door jam. Replacement insert included. No. 36C136 Shpg. wt. 2 lbs. Net Each. **\$9.00**

3-Conductor, flat, easy to conceal Cable for Nutone installations. Requires one length from each remote back to master. No. 2A223. Per Ft. **4c** 100 Ft. For. **\$2.24**

ALL TRANSISTOR INTERCOM SYSTEM

Room to room for up to 12 remote speakers—Plus door-answering.

Nutone-versatile intercom system—installs readily. For homes, offices, factories, nursing homes and insti-MASTER UNIT INSIDE SPEAKER MODEL 470 MODEL 472 DOOR SPEAKER MODEL 471

no controls needed. Inside speaker may be built-in or surface mounted. Has volume control, plus 1 switch for room to room intercom, another for door-answering. Door speaker surface mounts on wall, ceiling or soffit. No lever needed. Caller uses door-chime. Control is at inside speaker. Master station requires xformer #105N below unless installed with a Nutone electronic door chime. Requires 8 cond. cable master to remote, 2 cond. master to door speaker and from xformer to master. Neutral finish.

470 Master Station. Size 4 5/8" W, 7 5/8" H, 2 3/8" D. No. 36B137. Retail \$32.50. Net Each. **\$21.67**
 472 Inside Speaker. Size 4 7/8" W, 6 3/4" H, 1 7/8" D. No. 36C139. Retail \$9.50. Net Each. **\$6.33**
 471 Door Speaker. Size 3 3/4" W, 4 5/8" H, 1 5/8" D. No. 36A140. Retail \$8.50. Net Each. **\$5.67**
 No. 20A11. 105N Transformer. Retail \$3.65. Net Each. **\$2.37**
 No. 2A225 8 Cond. Cable Per Ft. **6c** 100 Ft. **\$5.50**
 No. 2D120 2 Cond. Cable Per Ft. **2c** 100 Ft. **\$1.94**

DELUXE NUTONE FULL-TRANSISTOR INTERCOM-RADIO MUSIC SYSTEM



1 FM-AM Master, Walnut Frame



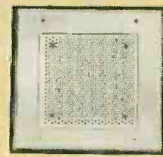
2 8-in. Indoor Hi-Fi Speaker



Break-away Panel can be used as a separate remote control



3 5" Wide Range Speaker



4 8-in. Patio Speaker



5 Door Speaker

Completely new 11 transistor 5 diode AM-FM master with AFC, provides drift-free performance on FM with high fidelity response through large 6x9" oval speaker.

Master has volume control; tone control; selector switch for phono, AM, FM, FM-AFC; master volume control; intercom master talk-listen switch; with outside remote talk-listen switch; and inside remote talk-listen switch; separate tuning dials for AM and FM. Electric door chime listed above can be added to sound clear signals throughout entire house.

Extremely versatile when incorporated in system of up to 16 remotes listed at right. No room control switching at master. Each inside remote listed has function switch which permits it to shut off radio but retain its intercom feature. Two talk-listen switches are provided, one for answering other inside remotes and master, and one for answering door remote. A volume control at remote permits adjustment to personal listening level. Standby position permits answering at a distance from speaker. Simplified installation by using 8-wire cable listed at right, permits continuous running of cable from remote to remote without returning to master. Low power consumption and low heat permit economical 24 hour a day operation.

1 Model N2561 FM-AM Master Station. Silver finish with rough-in box. Mfg. list \$185.20. Shpg. wt. 16 lbs. No. 36C154. Net Each. **\$123.47**
 1 Model N2562 FM-AM Master Station. Copper finish with rough-in box. Mfg. list \$185.20. Shpg. wt. 16 lbs. No. 36C156. Net Each. **\$123.47**

REMOTE SPEAKERS FOR USE WITH TRANSISTOR MASTERS

2 Model 2572 Hi-Fi 8" Inside Speaker. "Break-away" control panel can be removed for mounting as a separate remote control. Includes "snap-in" panel to replace the removed control-panel on large speakers. Rotary volume control, function switch and separate talk-listen levers for room-to-room intercom and for door answering. Bezel frame furnished for mounting break-away panel in two-gang wall box. Complete with rough-in frame. Shpg. wt. 7 lbs. No. 36C158 Net Each. **\$18.01**

3 Model 2570 Wide Range 5" Inside Speaker. Desert sand finish rotary controls. Talk-listen levers for inside and for door answering. Shpg. wt. 2 1/2 lbs. No. 36C178. Net Each. **\$11.18**

4 Model 2573 Weatherproof Aluminum Patio Speaker. Includes an 8-wire remote-control unit which mounts in a standard two-gang wall box. Supplied with rough-in box less studding wall box. No. 36C176. Net Each. **\$18.00**

5 Model 2571 Door Speaker. Needs no switch. Inside speakers control calls. Mounts in wall, ceiling or soffit. Black and gold anodized finish with rough-in box. Shpg. wt. 8 lbs. No. 36C179. Net Each. **\$8.51**

8-Conductor Cable, Type 2425 for use with above transistor intercom. No. 2A225. Per Ft. **6c** 100 Ft. For. **\$5.50**

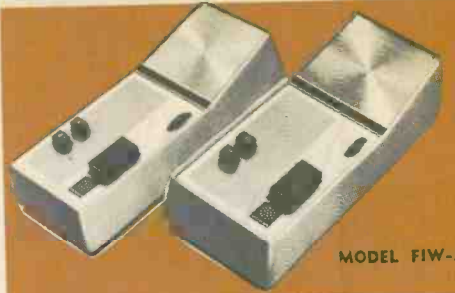
BEST BUYS IN FANON INTERCOM SETS!



MODEL 1600



MODEL 1640



MODEL FIW-2

DELUXE 2-STATION WIRED INTERCOM

\$15.95 SET

Ultra-sensitive . . . has a 3-transistor circuit with high gain, push-pull amplifier for quality sound. Attractive high impact styrene cabinets. Pilot light on Master to show when system is on. Built-in 117 V. AC power supply. Talk-Listen switch with Talk-Lock position for dictate. Beep tone circuit to signal Master even when system is off. Separate volume control on Master On-Off switch. 2 1/2" speakers. Smartly finished cabinets, overall size: 4 3/8 x 5 1/8 x 1 1/2". Weight with 50 ft. of cable 2 1/2 lbs.

- No. 36A360. Model 1600 2-Station System. \$15.95
- No. 36A362. Model 161. Outdoor Remote. \$5.25
- No. 36A363. Model 162. Indoor Remote. \$4.50

2-STATION WIRE-LESS INTERCOM

\$29.95 SET

For use on 117 V. AC. No wiring required other than standard 117 V. AC house sockets. Pilot light on Master shows system is on. Built-in 117 V. AC power supply. Talk-Listen switch with Talk-Lock position on each master. Volume control on each master, separate On-Off switch. Smartly finished in beige with walnut trim. 2 1/2" speakers. Overall size of each unit 5" x 4 1/4" x 1 3/4". Weight of system 4 lbs. Additional Single station units can be added (Model 1641 below).

- No. 36A364. Model 1640 2-Station System. \$29.95
- Model 1641. Single Station, for use with above. \$15.95
- No. 36A365. Each. \$15.95

2-CHANNEL WIRELESS 2-STATION INTERCOM

\$59.95 SET

Provides 2 channels of communications so units may talk to one unit independent of other units that are added (4 units). Two buttons are provided: 1 for channel A (on 225 KC); 1 for channel B (on 160 KC). Each channel has exclusive lock-out filter that prevents cross-talk between units when used in close proximity. No installation required. . . . simply plug into AC outlet on same power line. Can be used between buildings or moved from room-to-room. Controls: A and B channel buttons, talk-listen-lock to dictate switch, on-off volume control. 9 1/2 x 4 x 2 1/2". For desk or wall. Beige finish. Shpg. wt. 4 lbs.

- No. 36A366. Model FIW-2. 2 Station. \$59.95
- No. 36A367. FIW-1 Single Station for above. \$31.50

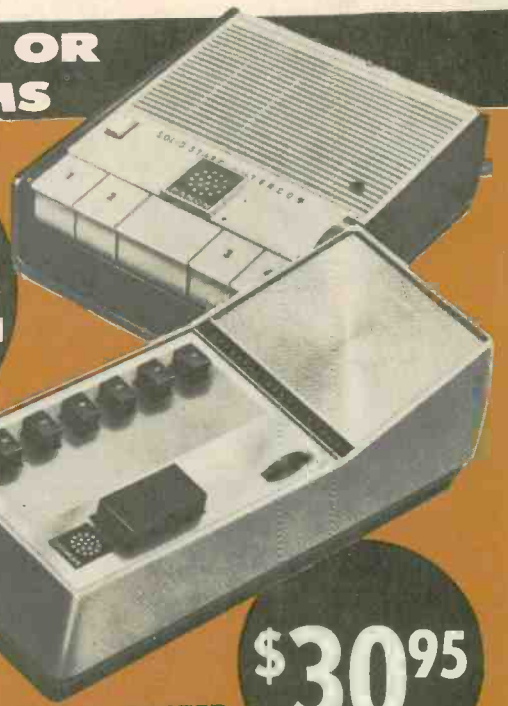
5-STATION MASTER-TO-MASTER OR MASTER-TO-REMOTE INTERCOMS

SINGLE 5-STATION MASTER

Ultra-sensitive intercom with 3-transistor circuit with high gain, push-pull amplifier for quality sound. Contained in attractive high impact styrene cabinet. Pilot light shows when unit is on. Built-in 117 V. AC power supply. Talk-Listen switch with Talk-Lock position for dictate. Beep tone circuit to signal master even when system is off. Volume control, On-Off switch. Smartly finished. 2 1/2" speaker. For use with Model 161 Outdoor Remote and Model 162 Indoor Remote. Each of the four Remotes may be spoken to individually. Overall size 4 3/8 x 5 1/8 x 1 1/2". Weight 1 1/2 lbs.

- No. 36A361. Model 1605. Master Unit, Each. \$14.95
- ADDITIONAL UNITS FOR USE WITH ABOVE MASTER
- No. 36A362. Model 161. Outdoor Remote. \$5.25
- No. 36A363. Model 162. Indoor Remote. \$4.50

MODEL 1605
\$14.95 EACH



MODEL FI-7

\$30.95

ALL TRANSISTOR HOME INTERCOM SYSTEM

COMPLETE 5-STATION SYSTEM

LIST PRICE \$89.95

\$53.85

- Requires no AC power.
- Run wire only to each remote.
- Operates for months on 9 V. battery.
- Absolutely-no-smoke or fire hazard.

A completely transistorized flush-wall intercom system. Provides room to room communication from master to remotes or from remotes to remotes. Additional feature permits one or more rooms to "monitor" any other room or rooms for "baby sitting," listening in on a sick patient, etc. "talk-listen" Long battery life is assured by the fact that when master "talk-listen" switch is in "standby" there is no current drain. However any remote may still call the master by pressing his "talk-listen" switch which causes a "beep" tone at the master.

Five selector switches at the master panel enables the master to select any or several of the remote stations by setting the proper switches to either "on" position or to "monitor." Complete system: master, 3 indoor remotes, 1 outdoor remote, 200 ft. 3-conductor cable, all rough-in material. (Less battery). 5th switch position permits additional remote to be added see below.

- No. 36C159. List \$89.95 Net. \$53.85
- No. 21B137. 9 V. Battery for above. Eveready 276. \$1.36
- Extra Indoor Remotes with box, for above system. Size 6 1/4 x 4 3/4". \$5.95
- No. 36C160. List \$9.95 Net Each. \$5.95

7 AND 13 STATION MASTER-TO-MASTER or MASTER-TO-REMOTE INTERCOMS

For use with up to 6 other stations in All-Master or Master to Remote system. One selector position and Master can be connected to PA system for paging and "hands-free" talkback reply from a speaker in PA system (a Model PR-15 paging relay is required). Cable requirement: Master-to-Master: 1 wire plus 1 wire per Master in system. Master to Remotes: 3 wires to each Remote from Master. For desk or wall. Size 9 1/2 x 4 x 2 1/2". Shpg. wt. 4 lbs.

- No. 36A368. Model FI-7. Master Unit, Each. \$30.95
- No. 36A369. Model FI-13 Master Unit, Each. \$43.50
- Remote Stations for use with FI-7 and FI-13. Same size and style as Master. Remote can be made private or non-private independently of one another if desired. Shpg. wt. 4 lbs. \$9.95
- No. 36A370. Model FIR. Remote Unit. \$9.95
- Special Paging/Talkback Relay for use with FI Series Masters. Mounts at amplifier and connects to 1 selector on FI-7 or to 2 selectors on FI-13. Cable requirements from Master to PR-15 is 1 wire plus one wire, shielded. No. 36A371. PR-15. \$21.50
- Shpg. wt. 1 lb. Each. 65

Prices above are those suggested by the Manufacturer

12AUG	4.85	1.40	.77	.69	7955	4.42	2.18	1.26	1.12
	2.00	.98	1.26	1.12	7408	3.10	1.52	1.96	1.74
			.88	.78	7591A	3.35	1.64	1.37	1.22
					7868	2.80	1.37	1.48	1.31
						3.85	1.89	1.23	1.10
								1.70	1.51

TELEPHONE AMPLIFIER

ALLOWS ROOM FULL OF PEOPLE
AND TALK ON

Picture Tubes



RCA COLOR & BLACK & WHITE TV PICTURE TUBES

B-A Full 12-Month Warranty

All materials and parts are new except for the envelope which was carefully inspected prior to re-use to meet the standard of the original. To insure safe arrival shipped via express only.

RCA HI-LITE COLOR PICTURE TUBES

Stk. No.	Type	Wt. Lbs.	Net Each	Bulb Allowance	Net Exchange
8A44	HR/21FBP22A	45	\$116.53	\$25.00	\$91.53
8A45	HR/21FJP22A	45	128.07	25.00	103.07
8A46	HR/25AP22A	52	168.00	30.00	138.00
8A47	HR/25BP22A	52	156.67	30.00	126.67

RCA COLORAMA COLOR PICTURE TUBES

Stk. No.	Type	Wt. Lbs.	Net Each	Bulb Allowance	Net Exchange
8A48	21CYP22A	45	\$ 98.36	\$25.00	\$73.36
8A43	21FBP22	45	104.33	25.00	79.33
8A42	21FJP22	54	114.66	25.00	89.66

RCA BLACK & WHITE SILVERAMA TUBES

Stk. No.	Type	Wt. Lbs.	Net Each	Stk. No.	Type	Wt. Lbs.	Net Each
8A8	17BJP4/AT/AV/CB	17	\$20.77	8B15	21DFP4/CEP4	26	\$27.08
8A10	17BP4D/AP/JP	20	18.67	8B25	21DSP4/CXP4	27	24.33
8B7	17CSP4/BV/BW	13	26.50	8A23	21EP4C	26	30.95
8A33	17DKP4/DP4	13	26.50	8B22	21EQP4/EMP4	26	24.80
8B9	17DSP4/BR/BZ/CK/DLP4	13	22.17	8B24	21FP4D	26	31.70
8B12	17HP4C/CP4	19	30.67	8A27	21YP4B	31	17.60
8B19	19AJP4	19	18.67	8A28	21ZB4C	36	38.30
8A35	19AVP4/XP/ZP4	19	30.67	8A39	23AHP4/AUP4	44	42.67
8A38	19AYP4/BW/AXP4	19	30.67	8A41	23BLP4/AN/BKP4	43	39.90
8B13	19BT/YP4	19	30.67	8B26	23CP4/BN/HP4	43	39.90
8A18	21AMP4B/AC/AQ/CU	27	19.60	8A32	23EP4	33	38.20
8A21	21AVP4C/AUP4	31	22.33	8A37	23FP4A/KP/MP/WP4	39	25.07
8A17	21CBP4A/FLP4A	27	18.39	8A30	24AEP/AN/DP/ZP4	39	25.07
8B20	21DEP4/CZ/DA	26	27.08	8A29	24CP4B/QP/TP/XP/ZP4	39	25.07

B-A TV PICTURE TUBES

FULL 12 MONTH "IN SERVICE" WARRANTY
NO GLASS TRADE-IN REQUIRED



Every B-A tube is completely re-manufactured from FLAW FREE envelopes with ALL NEW internal parts, screen and hi-polish face plate for finest picture definition. Rigid over-fire picture control permits B-A's "SINCE 1927" warranty of complete satisfaction!

Shipped by freight or express only.

Stk. No.	Type	Wt. Lbs.	Net Each	Stk. No.	Type	Wt. Lbs.	Net Each
8B52	90P4A	5	\$23.77	8A67	20CP4/DP4	28	\$19.33
8A50	10BP4A	10	18.30	8A71	21AC/AM/AQP4A	27	15.95
8B55	11CP4	14	18.00	8A73	21AV/AUP4B	31	18.26
8A51	12LP/KP4A	14	23.83	8A90	21CB/FLP4A	24	23.30
8A52	14AJ/AVP4	14	23.83	8A95	21CE/DFP4	24	23.30
8A92	14QP/HP4	14	19.83	8A113	21COP4	24	23.30
8B57	15AL/BFP4	14	22.16	8A102	21DA/DE/CZP4	27	20.80
8B63	16GP4B	19	14.60	8B82	21DLP4	27	19.76
8A54	16KP/TP4A	19	18.66	8A114	21DS/CXP4	34	20.43
8A56	17BJ/AV/AT/BUP4	21	15.10	21EP4B	24	25.30	
8A106	17BP4B/JP4	13	21.80	8A75	21EO/FAP4	24	20.43
8A59	17BZ/CW/CKP4	13	20.30	8A115	21FP4D	28	29.67
8A94	17CFP4	13	20.16	8A78	21FD/EAP4	29	19.88
8B68	17CP4	13	21.80	8B86	21WP4A	29	19.88
8A60	17CS/BW/BYP4	13	25.83	8B19	21XP4A	29	14.88
8A97	17DA/DRP4	13	21.80	8A83	21YP4A	29	14.88
8B69	17DP4	13	21.80	8A85	21ZP4B	36	28.67
8A101	17DS/CWP4	13	21.80	8B87	23AHP4	31	30.67
8A108	17DXP/DZP4	19	15.88	23ALP4	44	36.33	
8A109	17HP4/VP4	20	16.50	8B93	23AN/BK/ZP4	36	28.67
8A88	17LP4/VP4	20	16.50	8A116	23BJP4	44	36.33
8A62	17OP/U/YP4A	19	27.30	8B96	23BT4P4	43	36.33
8A65	19ABP4	25	29.00	8B98	23C/HP4	43	36.33
8B70	19AF/AUP4	20	21.27	8A117	23CBP4	43	36.33
8B118	19AP4B	19	24.16	8B107	23EP4	31	30.33
8A110	19AJP4	19	24.16	8B120	23F/K/M/WP4	43	36.33
8A111	19AV/XP/ZP4	19	24.16	8A121	23JP4	40	23.95
8A105	19AY/AXP4	25	22.66	8A104	24AE/ZP/YP4A	34	34.50
8A112	19BDP4	19	28.66	8A122	24AH/ALP4	34	39.95
8B72	19EHP4	19	28.66	8A123	24BP4	38	23.95
8B74	19ENP4	19	28.66	8A124	24CP4	38	23.95

IEC MULLARD 10M SERIES ELECTRON TUBES



2 YEAR GUARANTEE

- Tube-to-tube uniformity.
- Section-to-section uniformity.
- Long Life. • Guaranteed Performance.
- The extreme close tolerance permits use as matched pairs in critical push-pull circuits.

A series of selected, individually laboratory-tested tubes, ideal for today's technically-advanced and exacting electronic equipment... Hi-Fi, broadcast equipment, etc.

Tube Type	Net Each	Tube Type	Net Each	Tube Type	Net Each
EABC80/6AK8	\$2.80	ECC91/6J6	\$2.55	EF94/6AU6	\$2.05
EC97/6FY5	2.35	ECC189/GES8	3.50	EF95/6AK5	3.25
ECC82/12AT7	2.55	ECF80/6BL8	3.05	EF183/6EH7	2.60
ECC82/12AX7	2.20	ECH81/6AJ8	2.65	EK90/6BE5	2.10
ECC85/12AX7	2.40	EF86/6267	2.50	EL84/6BO5	2.15
ECC85/6AQ8	3.10	EF89/6DA6	2.55	EL90/6AO5	2.15
ECC88/6DJ8	3.10	EF93/6BA6	2.00	EL95/6DL5	2.55

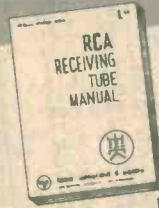
MULLARD LABORATORY BALANCED MATCHED PAIR POWER OUTPUT TUBES

Premium quality tubes in matched pairs which have undergone extensive laboratory test procedures to assure true balanced audio reproduction. Eliminates distortion, audio hum, and loss of power caused by unbalanced output tubes. Greatly improves performance of any console, component system, tape recorder, phonograph, etc. Using push-pull amplifiers.

Stock No.	Mullard Type	EIA Type	Net Pair	Stock No.	Mullard Type	EIA Type	Net Pair
41A105	EL34	6CA7	\$6.18	41A109	EL90	6AO5	\$2.35
41B106	KT66	.....	8.43	41A110	EL95	5DL5	3.55
41B108	KT77	.....	9.70	41A111	ECL82	6BM8	3.40
41A107	KT84	6BQ5	2.58	41A114	7189	7189	3.47
41B112	KT88	.....	12.44				

RCA AND GE PUBLICATIONS

LATEST RCA RECEIVING TUBE MANUAL



Latest edition of the RCA Receiving Tube Manual always supplied. Enlarged to 544 pages containing technical data on over 900 receiving tubes including types for black-and-white and color television, series-string application, AC/DC equipment, 12 volt car radio receivers, and high-fidelity audio applications (both monophonic and stereophonic). It also provides data on 200 picture tubes including color types.

No. 16A66. FREE with Order of 50 Tubes.

RCA RADIOTRON DESIGNERS HANDBOOK

Fourth edition. More than 4 times larger than the last edition. Cover comprehensively and thoroughly the design of radio and audio circuits and equipment. Chuck full of information for the design engineer, student and experimenter. Circuit design and applications are discussed not only from the theoretical and mathematical approach but also from the practical standpoint. 1500 pages, 8 1/2 x 11 1/2, 1000 illustrations. \$7.00

No. 16B254. Postpaid in U.S.A. EACH. \$2.50

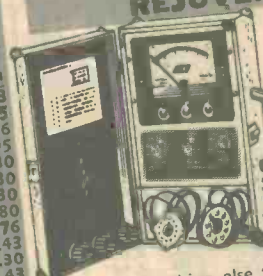
IR Silicon Control Rectifier Handbook. 110 pages of basic theory on underlying the principle and use of controlled rectifiers. Valuable circuit and application data. \$2.00

No. 41A128. Net Each. \$2.00

No. 25B99. IR Rectifier Engineering Handbook HB10. Contains 125 pages of practical rectifier engineering data. Net Each. \$2.00

No. 25A98. IR Zener Diode Handbook HB20. Contains 100 pages of semiconductor theory, detailed and illustrated design considerations and operating characteristics of Zener Diodes. Net Each. \$2.00

NEW B & K MODEL 465 CRT REJUVENATOR AND CHECKER



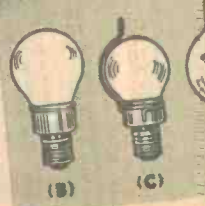
Tests and repairs color and black and white tube tubes — without removing tube from Completely self-contained, easy to use. Tests rejuvenates picture tubes with 1 to 12 volts ment, including 110° types. Supplies all each gun separately in all color tubes incl new 90° 23" 23BG22. Life test feature check content and shows useful life expectancy. emission and brightness. Large 4 1/2" Leatherette covered portable case 10 1/2 x 11 1/2. Weight 6 1/2 lbs. Has all necessary cords and instructions. For 115 V. 60 c

Complete, nothing else to buy. No. 35A229. Net Each. \$89.00

GENUINE G.E. TUNGAR RECTIFIER BULBS

For replacement in battery chargers and DC power supplies. Have thoriated tungsten filaments and are gas filled for long efficient life.

No.	Type	Fig.	Amps	Each
29883	12X825	B	2	\$4.80
29884	20X6011	C	2	4.65
29887	20X672	B	5	5.78
29894	189048	D	6	4.88
29896	189049	D	15	4.88
29897	217283	D	15	9.38



Burstein-Applebee Co., 1012-14 McGee St., Kansas City 6, Mo., Baltimore 1-4266

BEST BUYS IN FANON INTERCOM SETS!



MODEL 1600

DELUXE 2-STATION WIRED INTERCOM

\$15.95 SET

Ultra-sensitive . . . has a 3-transistor circuit with high gain, push-pull amplifier for quality sound. Attractive high impact styrene cabinets. Pilot light on Master to show when system is on. Built-in 117 V. AC power supply. Talk-Listen switch with Talk-Lock position for dictate. BEEP-TONE circuit to signal Master even when system is off. Separate volume control on Master On-Off switch. 2 1/2" speakers. Smartly finished cabinets, overall size: 4 3/8 x 5 1/8 x 1 1/2". Weight with 50 ft. of cable 2 1/2 lbs.

No. 36A360. Model 1600 2-Station System. **\$15.95**
 No. 36A362. Model 161. Outdoor Remote. **\$5.25**
 No. 36A363. Model 162. Indoor Remote. **\$4.50**



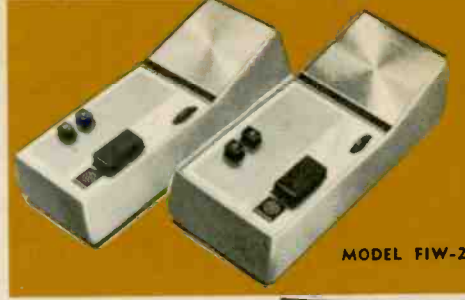
MODEL 1640

2-STATION WIRE-LESS INTERCOM

\$29.95 SET

For use on 117 V. AC. No wiring required other than standard 117 V. AC house sockets. Pilot light on Master shows system is on. Built-in 117 V. AC power supply. Talk-Listen switch with Talk-Lock position on each master. Volume control on each master, separate On-Off switch. Smartly finished in beige with walnut trim. 2 1/2" speakers. Overall size of each unit 5" x 4 1/4" x 1 3/4". Weight of system 4 lbs. Additional Single station units can be added (Model 1641 below).

No. 36A364. Model 1640 2-Station System. **\$29.95**
 Model 1641. Single Station, for use with above. **\$15.95**
 No. 36A365. Each. **\$15.95**



MODEL FIW-2

2-CHANNEL WIRELESS 2-STATION INTERCOM

\$59.95 SET

Provides 2 channels of communications so units may talk to one unit independent of other units that are added (4 units). Two buttons are provided: 1 for channel A (on 225 KC); 1 for channel B (on 160 KC). Each channel has exclusive lock-out filter that prevents cross-talk between units when used in close proximity. No installation required. . . simply plug into AC outlet on same power line. Can be used between buildings or moved from room-to-room. Controls: A and B channel buttons, talk-listen-lock to dictate switch, on-off volume control. 9 1/2 x 4 x 2 1/2" For desk or wall. Beige finish. Shpg. wt. 4 lbs.
 No. 36A366. Model FIW-2. **\$59.95**
 2 Station. **\$31.50**
 No. 36A367. FIW-1 Single Station for above. **\$31.50**

5-STATION MASTER-TO-MASTER OR MASTER-TO-REMOTE INTERCOMS

SINGLE 5-STATION MASTER

Ultra-sensitive intercom with 3-transistor circuit with high gain, push-pull amplifier for quality sound. Contained in attractive high impact styrene cabinet. Pilot light shows when unit is on. Built-in 117 V. AC power supply. Talk-Listen switch with Talk-Lock position for dictate. BEEP-TONE circuit to signal master even when system is off. Volume control, On-Off switch. Smartly finished. 2 1/2" speaker. For use with Model 161 Outdoor Remote and Model 162 Indoor Remote. Each of the four Remotes may be spoken to individually. Overall size 4 3/8 x 5 1/8 x 1 1/2". Weight 1 1/2 lbs.
 No. 36A361. Model 1605. **\$14.95**
 Master Unit, Each.

ADDITIONAL UNITS FOR USE WITH ABOVE MASTER
 No. 36A362. Model 161. Outdoor Remote. **\$5.25**
 No. 36A363. Model 162. Indoor Remote. **\$4.50**

MODEL 1605
\$14.95 EACH



MODEL FI-7

\$30.95

7 AND 13 STATION MASTER-TO-MASTER or MASTER-TO-REMOTE INTERCOMS

For use with up to 6 other stations in All-Master or Master to Remote system. One selector position and Master can be connected to PA system for paging and "hands-free" talkback reply from a speaker in PA system (a Model PR-15 paging relay is required). Cable requirement: Master-to-Master: 1 wire plus 1 wire per Master in system. Master to Remotes: 3 wires to each Remote from Master. For desk or wall. Size 9 1/2 x 4 x 2 1/2". Shpg. wt. 4 lbs.
 No. 36A368. Model FI-7. Master Unit, Each. **\$30.95**

13-Station Dual Purpose Master. Similar to above for all-Master or Master-to-Remote system. However, 2 selector positions on Master can be connected to 2 PR-15 Paging Relays to engage paging/talkback amplifier systems. Cable requirements same as FI-7. Shpg. wt. 5 lbs.
 No. 36A369. Model FI-13 Master Unit, Each. **\$43.50**

Remote Stations for use with FI-7 and FI-13. Same size and style as Master. Remote can be made private or non-private independently or one another if desired. Shpg. wt. 4 lbs.
 No. 36A370. Model FIR. Remote Unit. **\$9.95**

Special Paging/Talkback Relay for use with FI Series Masters. Mounts at amplifier and connects to 1 selector on FI-7 or to 2 selectors on FI-13. Cable requirements from Master to PR-15 is 1 wire plus one wire, shielded.
 No. 36A371. PR-15. **\$21.50**
 Shpg. wt. 1 lb. Each

ALL TRANSISTOR HOME INTERCOM SYSTEM



COMPLETE 5-STATION SYSTEM

LIST PRICE \$89.95

\$53.85

- Requires no AC power.
- Run wire only to each remote.
- Operates for months on 9 V. battery.
- Absolutely-no-shock or fire hazard.

A completely transistorized flush-wall intercom system. Provides room to room communication from master to remotes or from remotes to remotes. Additional feature permits one or more rooms to "monitor" any other room or rooms for "baby sitting," listening in on a sick patient, etc. Long battery life is assured by the fact that when master "talk-listen" switch is in "standby" there is no current drain. However any remote may still call the master by pressing his "talk-listen" switch which causes a "beep" tone at the master.

Five selector switches at the master panel enables the master to select any or several of the remote stations by setting the proper switches to either "on" position or to "monitor." Complete system: master, 3 indoor remotes, 1 door remote, 200 ft. 3-conductor cable, all rough-in material. (Less battery). 5th switch position permits additional remote to be added see below. **\$53.85**

No. 36C159. List \$89.95 Net. **\$53.85**
 No. 21B137. 9 V. Battery for above. Eveready 276. **\$1.36**
 Extra Indoor Remotes with box, for above system. Size 6 1/4 x 4 3/4".
 No. 36C160. List \$9.95 Net Each. **\$5.95**

TELEPHONE AMPLIFIER

ALLOWS ROOM FULL OF PEOPLE TO HEAR AND TALK ON SAME TELEPHONE



SELF-POWERED TRANSISTOR UNIT NEEDS NO ELECTRICITY!

\$19.95 LIST PRICE
\$14.95
READY-TO-USE

NOW COMPLETE WITH EXTENSION SPEAKER

Allows everyone in the room to hear or speak over the phone with perfect clarity. A valuable asset and convenience in business offices for conference calls, in shops or offices to free your hands for other tasks while you talk, in homes, sick rooms, kitchen, bedroom . . . almost everywhere.

Completely portable, transistor and battery powered, requires no installation of any kind. In use, the telephone handset is placed on top the unit much like returning the handset to the normal telephone cradle. Automatically the transistor amplifier turns on providing room volume for everyone to hear. Has extension speaker and adjustable volume control. When conversation is completed, the phone is simply returned to its normal position. Case is durable break-resistant polystyrene plastic.

Complete with standard 9V. transistor battery. Shpg. wt. 4 lbs. **\$14.95**
No. 36C161. Net

25 FOOT TELEPHONE EXTENSION CABLE



ONLY **\$2.99** Each

CONVENIENT IN THE HOME OR OFFICE

Standard style 4 prong plug and socket as used with regular telephones.

Fully assembled with durable resistant plastic 25 ft. 4-wire cord. Fine for telephone-intercoms etc. Shipping wt. 1 pound.

No. 2B209. **\$2.99**
Special Each

TELEPHONE TYPE PLUGS AND JACKS



Patterned like popular "telephone plugs" and interchangeable with them. Standard 4 wire type, with code marked screw terminals. Perfect for extension speakers, intercom systems, phones, etc. Surface jack, for exposed wiring, mounts with 2 screws. Flush jack, for concealed wiring, has fittings and wall plate for standard electrical outlet box. (Box not supplied). Specify Ivory or Brown.

① 17B275. Portable Plug. Ea. **89c**
② 17B276. Surface Jack. Ea. **.99c**
③ 17B277. Flush Jack. Ea. **\$1.79**

BELDEN COILED CORDS FOR TELEPHONES



Spade terminals and metal card clamp attached, vinyl insulated.

Stk. No.	Beld No.	Cond.	Length	Net Each
29B244	8495	3	10" to 4 1/2"	\$1.31
29B245	8494	4	10" to 4 1/2"	\$1.56

TELEPHONE PICK-UP COIL FOR RECORDING



HAS JIFFY RUBBER SUCTION CUP

Fits all telephones—picks up both sides of conversations. 35" shielded cable. Only 1" dia., 1 1/2" long. **89c**
No. 17C253. Import Spec.

89c

WHEELER SOUND POWERED TELEPHONE HANDSETS



Two to 12 may be used in or outdoors. No fire or shock hazards. No batteries used! 2-way talking up to 25 miles over 2-conductor twisted wire as listed below.

Impact resistant handset with 3 1/2 ft. rubber cable and rubber insulated clips for quick connections.

No. 37A337. **\$12.62**
Model SPT102. Net Each
No. 2C192. 2-Conductor wire:
100 Ft. .99c 1000 Ft. **\$8.75**

BATTERY-OPERATED TELEPHONES

3 POPULAR STYLES FOR DEPENDABLE 2-WAY COMMUNICATIONS

MODERN TELEPHONE SET

DIAL NUMBER.. **688**
PHONE RINGS! PAIR

LICENSED BY
Western Electric



Famous "Princess Styling as developed by Western Electric

Pick Up Phone—Dial Lights



Talk and hear—loud and clear—anywhere . . . indoors or out with this exciting new phone set. Provides exceptional voice transmission for hundreds of uses—perfect for room to room, house to garage, farm use, etc. Unique dial automatically lights when receiver is lifted. Dial signal bell at other end rings until phone is answered. Made of tough high-impact styrene. Complete with 25 ft. cable and simple instructions. Shpg. wt. 3 lbs.

No. 37A449. Less Batteries. **\$6.88**
Per Pair
No. 37A450. Battery Kit. (4 "D" Flashlight Cells) **56c**

HAND PHONE SET

WITH SIGNAL BUZZERS

Powered by self-contained flashlight batteries (935 Eveready or equivalent) and operated over two-conductor wire for distances up to 1 mile with exceptionally fine speech reception, comparable to that of any ordinary telephone. Each phone is equipped with built-in push-button signal buzzer.

Ideal for TV installers, construction gangs, portable communication systems in factories, on the farm, in homes, for emergency uses, etc. So simple in operation it can also be used by children for play.

Molded of break-resistant high impact styrene. Complete with 25 ft. cable. Shpg. wt. 2 lbs.

No. 37A382. **\$3.78**
Less Batteries. Per Pair

No. 37A383. Battery Kit. Each **28c**

No. 2B19. 2-Cond. Vinyl Covered Wire for either phone set. **\$1.47**
100 Ft. For



INCLUDES 25 FEET OF 2-CONDUCTOR TELEPHONE WIRE



DIAL PHONE SET

BELL RINGS WHEN PHONE IS DIALED!

Nationally advertised Brumberger phones of high-impact black styrene. Provides amazing results for the surprising low cost. Has appearance of regular telephones with excellent voice reception. Convenient to use. Just pick up receiver, dial and signal bell rings at other end until phone is answered. Fine for house to garage, house to house, room to room—1001 applications. Complete with 25 ft. cable and simple instructions. Shpg. wt. 4 lbs. Less Batteries.

No. 37B195. Per Pair. **\$5.97**

No. 21B171. Battery Kit. Each **58c**



WORNER ELECTRONIC RECEPTIONIST

SOUNDS CHIME WHEN LIGHT BEAM IS INTERRUPTED

Compact single unit with exciter lamp, photo-cell tube, and two lenses. Projects a beam of light across any entrance from 3 to 100 ft. wide. Mirror reflects beam back into photocell. Breaking of this beam by any person or moving object operates built-in relay which in turn sounds chime furnished.

Perfect for professional offices, stores, factories, homes—anywhere.

Grey hammertone metal case, size only 8 3/8 x 6 1/2 x 2 5/8". For 115 volts, 60 cy. AC. Shpg. wt. 8 lbs. **\$46.88**

36A15. Model 61. Net Each
Replacement Exciter Lamp. **66c**
16B426. Net Each





Receiving Tubes



IT'S ALWAYS B-A FOR THE BEST BUY IN TUBES

- SPARKLING FRESH STOCKS • ONE FULL YEAR WARRANTY • SAME DAY SHIPMENT
- CURRENT DEALER NET PRICES— • FUTURE TYPES STOCKED AS ANNOUNCED

All Tubes Below May be Assorted for Quantity
Prices—The More You Buy the More You Save
at B-A!

Tube Type	Optional List	Net 1-5	Net 6-49	50 or Over	Tube Type	Optional List	Net 1-5	Net 6-49	50 or Over	Tube Type	Optional List	Net 1-5	Net 6-49	50 or Over	Tube Type	Optional List	Net 1-5	Net 6-49	50 or Over
OZ4	\$2.40	\$1.18	\$1.06	\$0.94	6AV6	\$1.60	\$.78	\$.71	\$.63	6FG6	\$5.80	\$2.84	\$2.56	\$2.27	12AU7A	\$2.35	\$1.15	\$1.04	\$.92
OZ4G	2.45	1.20	1.08	.96	6AW8A	3.60	1.76	1.59	1.41	6FH5	3.15	1.54	1.39	1.23	12AV5GA	4.50	2.21	1.98	1.76
1B3GT/1G3GT	2.75	1.35	1.21	1.08	6AX4GTB	2.50	1.23	1.10	.98	6FV6	4.00	1.96	1.76	1.57	12AV6	1.60	.78	.71	.63
1K3/1J3	2.75	1.35	1.21	1.08	6AX5GT	3.25	1.59	1.43	1.27	6FY5/EC97	2.75	1.35	1.21	1.08	12AV7	3.40	1.67	1.50	1.33
1R5	3.25	1.59	1.43	1.27	6AY3B	2.90	1.42	1.28	1.14	6GB5	3.80	1.86	1.68	1.49	12AX4GTB	2.55	1.25	1.12	1.00
1S5	3.05	1.49	1.35	1.20	6AZ8	5.50	2.70	2.43	2.16	6GF7	4.85	2.38	2.14	1.90	12AX7A	2.40	1.18	1.06	.94
1T4	3.05	1.49	1.35	1.20	6BA6	1.90	.93	.84	.75	6GH8A	3.20	1.57	1.41	1.25	12AY7	4.85	2.38	2.14	1.90
1U4	3.05	1.49	1.35	1.20	6BA7	5.85	2.87	2.58	2.29	6GJ5A	5.60	2.74	2.47	2.20	12AZ7A	2.85	1.40	1.26	1.12
1U5	2.55	1.30	1.17	1.04	6BA8A	4.00	1.96	1.76	1.57	6GK5	3.85	1.89	1.70	1.51	12BA4	3.05	1.49	1.35	1.20
1V2	2.20	1.08	.97	.86	6BC5	2.25	1.10	.99	.88	6GM5	3.05	1.49	1.35	1.20	12BA6	1.60	.78	.71	.63
1X2B	2.90	1.42	1.28	1.14	6BC8	3.75	1.84	1.65	1.47	6GM6	2.75	1.35	1.21	1.08	12BD6	2.35	1.15	1.04	.92
2AF4B	3.80	1.86	1.68	1.49	6BD6	2.35	1.15	1.04	.92	6GW8/ECL86	3.05	1.49	1.35	1.20	12BE6	1.95	.96	.86	.76
2AV2	2.20	1.08	.97	.86	6BD11	2.05	2.47	2.23	1.98	6GX7	3.60	1.76	1.59	1.41	12BF6	2.10	1.03	.93	.82
2BN4A	2.75	1.35	1.21	1.08	6BE6	2.40	1.18	1.06	.94	6GY5	4.60	2.25	2.03	1.80	12BH7A	2.90	1.42	1.28	1.14
2C45	3.30	1.62	1.46	1.29	6BF5	3.35	1.64	1.48	1.31	6H6	4.30	2.11	1.90	1.69	12BK5	3.75	1.84	1.65	1.47
2GU5	4.50	2.21	1.98	1.76	6BF6	1.95	.96	.86	.76	6HB7	3.35	1.64	1.48	1.31	12BL6	2.95	1.45	1.30	1.15
2HQ5	3.85	1.89	1.70	1.51	6BG6G	6.10	2.99	2.69	2.39	6HG5	2.70	1.32	1.19	1.06	12BQ6GTB	4.20	2.06	1.85	1.65
3A3	3.20	1.57	1.41	1.25	6BH6	2.75	1.35	1.21	1.08	6HJ5	5.80	2.84	2.56	2.27	12BR7	3.05	1.49	1.35	1.20
3AL5	1.95	.96	.86	.76	6BH8	4.00	1.96	1.76	1.57	6HK5	3.90	1.91	1.72	1.53	12BT3	2.85	1.40	1.26	1.12
3AU6	2.20	1.08	.97	.86	6BH11	3.90	1.91	1.72	1.53	6HQ5	4.50	2.21	1.98	1.76	12BV7	3.30	1.62	1.46	1.29
3AV6	2.20	1.08	.97	.86	6BJ6	2.75	1.35	1.21	1.08	6HZ8	5.50	2.70	2.43	2.16	12BY7A	3.05	1.49	1.35	1.20
3BC5	2.45	1.20	1.08	.96	6BK4B	7.55	3.70	3.33	2.96	6J5	3.70	1.81	1.63	1.45	12BZ7	4.15	2.03	1.83	1.63
3BN6	3.60	1.76	1.59	1.41	6BK5	3.50	1.72	1.54	1.37	6J5GT	3.70	1.81	1.63	1.45	12CA5	2.85	1.40	1.26	1.12
3BU8	3.55	1.74	1.57	1.39	6BK7B	3.55	1.74	1.57	1.39	6J6A	2.65	1.30	1.17	1.04	12CU5/12C5	2.75	1.35	1.21	1.08
3BZ6	3.20	1.57	1.41	1.25	6BL7GTA	4.40	2.16	1.94	1.72	6J7	5.00	2.45	2.21	1.96	12D4	2.75	1.35	1.21	1.08
3CA3	3.20	1.57	1.41	1.25	6BL8	3.75	1.84	1.65	1.47	6J10	5.00	2.45	2.21	1.96	12DB5	2.60	1.27	1.15	1.02
3CB6	2.15	1.05	.95	.84	6BM8	2.90	1.42	1.28	1.14	6J6A	8.00	4.17	3.75	3.33	12DQ6B/				
3C56	2.75	1.35	1.21	1.08	6BN4A	3.40	1.67	1.50	1.33	6J6E	6.00	2.94	2.65	2.35	12GW6	4.25	2.08	1.87	1.67
3CY5	3.75	1.84	1.65	1.47	6BN6	3.00	1.47	1.32	1.18	6JH6	2.45	1.20	1.08	.96	12DS7	4.05	1.98	1.79	1.59
3DG4	4.10	2.01	1.81	1.61	6BN8	3.15	1.54	1.39	1.23	6JM6	4.15	2.03	1.83	1.63	12DT8	3.55	1.74	1.57	1.39
3DK6	2.30	1.13	1.01	.90	6BQ5	2.65	1.30	1.17	1.04	6JN6	3.85	1.89	1.70	1.51	12DW7	3.05	1.49	1.35	1.20
3DT6A	2.35	1.15	1.04	.92	6BQ6GTB	4.10	2.01	1.81	1.61	6JS6	7.30	3.58	3.22	2.86	12EK6	3.10	1.52	1.37	1.22
3FH5	3.25	1.59	1.43	1.27	6BQ7A	3.75	1.84	1.65	1.47	6JT6A	4.95	2.43	2.18	1.94	12F8	2.90	1.42	1.28	1.14
3G58	3.55	1.74	1.57	1.39	6BR8A	3.85	1.89	1.70	1.51	6JZ8	3.55	1.74	1.57	1.39	12GN7A	3.90	1.91	1.72	1.53
3HQ5	3.85	1.89	1.70	1.51	6BS3A	3.30	1.62	1.46	1.29	6K6GT	2.45	1.20	1.08	.96	12H6	4.00	1.96	1.76	1.57
3Q4	3.35	1.64	1.48	1.31	6BS8	3.75	1.84	1.65	1.47	6K7	5.00	2.45	2.21	1.96	12JB6A	5.65	2.77	2.49	2.21
3S4	3.40	1.67	1.50	1.33	6BU8	3.40	1.67	1.50	1.33	6KE8	5.35	2.62	2.36	2.10	12JTG6A	4.95	2.43	2.18	1.94
3V4	2.60	1.27	1.15	1.02	6BW4	2.75	1.35	1.21	1.08	6KM6	8.20	4.02	3.62	3.21	12L6GT	3.55	1.74	1.57	1.39
4BC8	3.85	1.89	1.70	1.51	6BX7GT	5.60	2.74	2.47	2.20	6KR8	4.25	2.08	1.87	1.67	12SA7	4.40	2.16	1.94	1.72
4BQ7A	4.15	2.03	1.83	1.63	6BY6	2.75	1.35	1.21	1.08	6KU8	4.80	2.35	2.12	1.88	12SA7GT	4.40	2.16	1.94	1.72
4BZ6	2.10	1.03	.93	.82	6BY8	2.70	1.32	1.19	1.06	6KV8	5.85	2.87	2.58	2.29	12SG7	4.70	2.30	2.07	1.84
4CB6	2.20	1.08	.97	.86	6BZ6	2.10	1.03	.93	.82	6KY8	7.25	3.55	3.20	2.84	12SJ7	4.30	2.11	1.90	1.69
4DK6	2.55	1.25	1.12	1.00	6BZ7	3.75	1.84	1.65	1.47	6KZ8	3.40	1.67	1.50	1.33	12SK7	4.00	1.96	1.76	1.57
4DT6A	2.10	1.03	.93	.82	6C4	1.75	.86	.77	.69	6L6	8.80	4.31	3.88	3.45	12SK7GT	4.00	1.96	1.76	1.57
4GX7	3.60	1.76	1.59	1.41	6C5	5.35	2.62	2.36	2.10	6L6GC	4.55	2.23	2.01	1.78	12SL7GT	3.55	1.74	1.57	1.39
4HA5	2.95	1.45	1.30	1.15	6C9	5.50	2.70	2.43	2.16	6L7	6.95	3.41	3.06	2.72	12SN7GTA	2.80	1.37	1.23	1.10
4HA7	3.05	1.49	1.35	1.20	6C10	3.70	1.81	1.63	1.45	6LB8	4.70	2.30	2.07	1.84	12SQ7	3.75	1.84	1.65	1.47
4HC7	3.05	1.49	1.35	1.20	6CA4	2.30	1.13	1.01	.90	6LE8	5.55	2.72	2.45	2.18	12SQ7GT	3.75	1.84	1.65	1.47
4HT6	2.55	1.25	1.12	1.00	6CA7	5.35	2.62	2.36	2.10	6LF8	3.50	1.72	1.54	1.37	12V6GT	3.75	1.84	1.65	1.47
5AM8	4.05	1.98	1.79	1.59	6CB5A	9.35	4.58	4.12	3.67	6LM8	4.15	2.03	1.83	1.63	12W6GT	3.75	1.84	1.65	1.47
5AN8	4.45	2.18	1.96	1.74	6CB6A	2.10	1.03	.93	.82	6M11	4.55	2.23	2.01	1.78	12X4	1.95	.96	.86	.76
5AQ5	2.40	1.18	1.06	.94	6CD6GA	5.50	2.70	2.43	2.16	6N7	5.05	2.47	2.23	1.98	12EM7	4.85	2.38	2.14	1.90
5AR4/GZ34	4.25	2.08	1.87	1.67	6CF6	2.75	1.35	1.21	1.08	6Q7	5.50	2.70	2.43	2.16	13BF7	4.70	2.30	2.07	1.84
5AS4A	3.45	1.69	1.52	1.35	6CG7/6FQ7	2.35	1.15	1.04	.92	6S4A	2.35	1.15	1.04	.92	15BD11	4.85	2.38	2.14	1.90
5AT8	3.80	1.86	1.68	1.49	6CG8A	3.10	1.52	1.37	1.22	6SA7	4.40	2.16	1.94	1.72	16GK6	3.05	1.49	1.35	1.20
5AV8	3.85	1.89	1.70	1.51	6CH8	5.60	2.74	2.47	2.20	6SB7-Y	5.95	2.92	2.62	2.33	17AX4GTA	3.05	1.49	1.35	1.20
5B8	5.50	2.70	2.43	2.16	6CL6	3.80	1.86	1.68	1.49	6SC7	4.40	2.16	1.94	1.72	17C5	2.20	1.08	.97	.86
5BK7A	3.75	1.84	1.65	1.47	6CL8A	3.75	1.84	1.65	1.47	6SF5	3.70	1.81	1.63	1.45	17C9	7.15	3.50	3.15	2.80
5BQ7A	4.00	1.96	1.76	1.57	6CM6	3.35	1.64	1.48	1.31	6SG7	4.70	2.30	2.07	1.84	17D4	3.05	1.49	1.35	1.20
5BR8	4.20	2.06	1.85	1.65	6CM7	2.75	1.35	1.21	1.08	6SH7	5.35	2.62	2.36	2.10	17DQ6B	3.95	1.94	1.74	1.55
5C8	3.15	1.54	1.39	1.23	6CM8	4.05	1.98	1.79	1.59	6SJ7	4.15	2.03	1.83	1.63	17EW8	2.75	1.35	1.21	1.08
5CL8A	3.85	1.89	1.70	1.51	6CN7	4.00	1.96	1.76	1.57	6SJ7GT	3.90	1.91	1.72	1.53	17JG6A	5.75	2.82	2.54	2.25
5EW6	3.05	1.49	1.35	1.20	6CQ8	3.30	1.62	1.46	1.29	6SK7	4.25	2.08	1.87	1.67	18G6A	2.00	.98	.88	.78
5GM6</																			

Picture Tubes



RCA COLOR & BLACK & WHITE TV PICTURE TUBES

B-A Full 12-Month Warranty

All materials and parts are new except for the envelope which was carefully inspected prior to re-use to meet the standard of the original. To insure safe arrival shipped via express on y.

RCA HI-LITE COLOR PICTURE TUBES

Stk. No.	Type	Wt. Lbs.	Net Each	Etlb Allowance	Net Exchange
8A44	HR/21FBP22A	45	\$116.53	\$25.00	\$91.53
8A45	HR/21FJP22A	45	128.07	25.00	103.07
8A46	HR/25AP22A	52	168.00	30.00	138.00
8A47	HR/25BP22A	52	156.67	30.00	126.67

RCA COLORAMA COLOR PICTURE TUBES

Stk. No.	Type	Wt. Lbs.	Net Each	Etlb Allowance	Net Exchange
8A48	21CYP22A	45	\$98.36	\$25.00	\$73.36
8A43	21FBP22	45	104.33	25.00	79.33
8B42	21FJP22	54	114.66	25.00	89.66

RCA BLACK & WHITE SILVERAMA TUBES

Stk. No.	Type	Wt. Lbs.	Net Each	Stk. No.	Type	Wt. Lbs.	Net Each
8A8	7BJP4/AT/AV/CB	17	\$20.77	8B15	21DFP4/CEP4	26	\$27.08
8A10	7BP4D/AP/JP	20	18.67	8B25	21DSP4/CXP4	27	24.33
8B7	7CSP4/BV/BW	13	26.50	8A23	21EP4C	30	24.30
8A33	7DKP4/DTP4	13	26.50	8B22	21EOP4/EMP4	26	30.95
8B9	7DSP4/BR/BZ/CK/DLP4	13	22.17	8A24	21FP4D	26	24.80
8B12	7HP4C/CP4	20	18.67	8A27	21YP4B	31	17.60
8B19	9AJP4	19	30.67	8A28	21ZP4C	31	17.60
8A35	9AVP4/XP/ZP4	19	30.67	8A39	23AHP4/AUP4	36	38.30
8A38	9AYP4/BW/AXP4	19	30.67	8A41	23BLP4/AN/BKP4	44	42.67
8B13	9BT/YP4	19	30.67	8B26	23CP4/BN/FP4	43	39.90
8A18	21AMP4/AC/AQ/CU	27	19.60	8A32	23EP4	43	39.90
8A21	AVP4C/AUP4	31	22.33	8A37	23FP4A/KP/MP/ WP4	33	38.20
8A17	CBP4A/FLP4A	27	18.39	8A30	24AEP/AN/D/ZP4	39	25.07
8B20	21DEP4/CZ/DA	26	27.08	8A29	24CP4B/QP/TP/XP/ZP4	39	25.07

B-A TV PICTURE TUBES



FULL 12 MONTH "IN SERVICE" WARRANTY NO GLASS TRADE-IN REQUIRED

Every B-A tube is completely re-manufactured from FLAW FREE envelopes with ALL NEW internal parts, screen and hi-polish face plate for finest picture definition. Rigid overall quality control permits B-A's "SINCE 1927" warranty of complete satisfaction!

Shipped by freight or express only.

Stk. No.	Type	Wt. Lbs.	Net Each	Stk. No.	Type	Wt. Lbs.	Net Each
8B52	90P4A	5	\$23.77	8A67	20CP4/DP4	28	\$19.33
8A50	10BP4A	7	18.30	8A71	21AC/AM/AOP4A	27	15.95
8B55	11CP4	6	21.10	8A73	21AV/AUP4B	31	18.26
8A51	12LP/KP4A	14	18.00	8A90	21CB/FLP4A	27	15.95
8A92	14AJ/AVP4	14	23.83	8A95	21CE/DFP4	24	23.30
8B57	14QP4/HP4	14	23.83	8A113	21CQP4	24	23.30
8B63	16AU/BFP4	14	22.16	8A102	21DA/DE/CZP4	24	23.30
8A54	16GP4B	14	19.83	8B82	21DLP4	27	20.80
8A56	16KP/TP4A	9	14.60	8A114	21DS/CXP4	27	19.10
8A106	17B1/AV/AT/BUP4	18	18.66	8A76	21EP45	34	20.43
8A59	17BP4B/JP4	21	15.10	8A115	21EOP/FAP4	24	23.30
8A94	17BZ/CW/CKP4	13	21.30	8A78	21FP4D	24	20.43
8B68	17CFP4	13	20.30	8B86	21FD/EAP4	28	29.67
8A60	17CP4	13	20.16	8A80	21WP4A	29	19.88
8A97	17CS/BW/BYP4	13	21.30	8B119	21XP4A	29	19.88
8B69	17DA/DRP4	13	25.83	8A83	21YP4A	29	14.88
8A101	17DOP4	13	21.80	8A85	21ZP4B	29	14.88
8A108	17DS/CWP4	13	21.80	8B87	23AHP4	36	28.67
8A109	17DXP/DZP4	13	21.80	8B93	23ALP4	31	30.67
8A88	17HP4/RP4B	19	15.88	8A116	23AN/BK/ZP4	44	36.33
8A62	17LP4/VP4	20	16.50	8B96	23BJP4	36	28.67
8A65	17OP/UP/YP4A	20	16.50	8B98	23BTP4	44	36.33
8B70	19AP4A	19	27.30	8A117	23C/HP4	43	36.33
8B118	19AF/AUP4	25	29.00	8B99	23CBP4	43	36.33
8A110	19AP4B	20	21.27	8B107	23EP4	43	36.33
8A111	19AJP4	19	24.16	8B120	23F/K/M/WP4	31	30.33
8A105	19AV/XP/ZP4	19	24.16	8A121	23JP4	43	36.33
8A112	19AY/AXP4	19	24.16	8A104	24AE/ZP/YFP4A	40	23.95
8B72	19BDP4	25	22.66	8A122	24AH/ALF4	34	34.50
8B74	19EP4	19	28.66	8A123	24BP4	34	39.95
8B79	19ENP4	19	28.66	8A124	24CP4	38	23.95

IEC MULLARD 10M SERIES ELECTRON TUBES



2 YEAR GUARANTEE

- Tube-to-tube uniformity.
- Section-to-section uniformity.
- Long Life. • Guaranteed Performance.
- The extreme close tolerance permits use as matched pairs in critical push-pull circuits.

A series of selected, individually laboratory-tested tubes, ideal for today's technically-advanced and exacting electronic equipment . . . Hi-Fi, broadcast equipment, etc.

Order by Stk. No. 41A123 and Tube Type

Tube Type	Net Each	Tube Type	Net Each	Tube Type	Net Each
EABC80/6AK8	\$2.80	ECC91/6J6	\$2.55	EF94/6AU6	\$2.05
EC97/6FY5	2.35	ECC189/6ES8	3.50	EF95/6AK5	3.25
ECC81/12AT7	2.55	ECF80/6BL8	3.05	EF183/6EH7	2.60
ECC82/12AU7	2.20	ECH81/6AJ8	2.85	EK90/6BE6	2.10
ECC83/12AX7	2.20	EF86/6267	2.50	EL84/6B05	2.15
ECC85/6A08	2.40	EF89/6DA6	2.55	EL90/6A05	2.15
ECC88/6DJ8	3.10	EF93/6BA6	2.00	EL95/6DL5	2.55

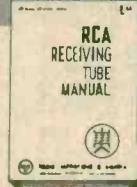
MULLARD LABORATORY BALANCED MATCHED PAIR POWER OUTPUT TUBES

Premium quality tubes in matched pairs which have undergone extensive laboratory test procedures to assure true balanced audio reproduction. Eliminates distortion, audio hum, and loss of power caused by unbalanced output tubes. Greatly improves performance of any console, component system, tape recorder, phonograph, etc. using push-pull amplifiers.

Stock No.	Mullard Type	EIA Type	Net Pair	Stock No.	Mullard Type	EIA Type	Net Pair
41A105	EL34	6CA7	\$8.18	41A109	EL90	6AQ5	\$2.35
41B106	KT66	.....	8.43	41A110	EL95	5DL5	3.55
41B108	KT77	.....	9.70	41A111	ECL82	6BM8	3.40
41A107	EL84	6BQ5	2.58	41A114	7189	7189	3.47
41B112	KT88	12.44				

RCA AND GE PUBLICATIONS

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Latest edition of the RCA Receiving Tube Manual always supplied. Enlarged to 544 pages containing technical data on over 900 receiving tubes including types for black-and-white and color television, series-string application, AC/DC equipment, 12 volt car radio receivers, and high-fidelity audio applications (both monophonic and stereophonic). It also provides data on 200 picture tubes including color types.

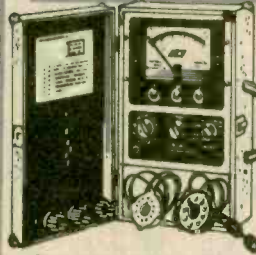
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Fourth edition. More than 4 times larger than the last edition. Covers comprehensively and thoroughly the design of radio and audio circuits and equipment. Chuck full of information for the design engineer, student and experimenter. Circuit design and applications are discussed not only from the theoretical and mathematical approach but also from the practical standpoint. 1500 pages, 8 3/4 x 5 1/2", 1000 illustrations.

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Tests and repairs color and black and white picture tubes — without removing tube from set.

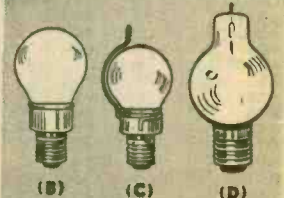
Completely self-contained, easy to use. Tests and rejuvenates picture tubes with 1 to 12 volts filament, including 110° types. Supplies all three voltages for Hi G-2, Lo-1 G-2 and LO-2 G-2 and each gun separately in all color tubes including new 90° 23" 23BG22. Life test feature checks gas content and shows useful life expectancy. Removes shorts between elements, repairs open connections and reactivates cathode which restores emission and brightness. Large 4 1/2" meter. Leatherette covered portable case 10 1/2 x 11 1/2 x 4 1/2". Weight 6 1/2 lbs. Has all necessary connecting cords and instructions. For 115 V. 60 cyc. AC.

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For replacement in battery chargers and DC power supplies. Have thoriated tungsten filaments and are gas filled for long efficient life.

No.	Type	Fig.	Amps	Each
29B83	12X825	B	2	\$4.80
29B84	20X501	C	2	4.65
29B87	20X672	B	5	5.78
29B94	189048	D	6	4.88
29B96	189049	D	6	4.88
29B97	217283	D	15	9.38



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*RCA "Command" Series Premium Tubes.

Tube Type	Make	1-4 Each	5-15 Each	Tube Type	Make	1-4 Each	5-15 Each	Tube Type	Make	1-4 Each	5-15 Each
0A2	RCA	1.32	1.14	NL-610/7723	N.E.	11.40	10.26	5751*	RCA	2.55	2.19
0A3	RCA	1.54	1.33	NL-615	N.E.	10.05	8.89	5751WA	RCA	2.55	2.18
0A4G	RCA	1.86	1.62	NL-623	N.E.	13.35	11.45	5762/7C24	RCA	240.00	223.20
0B2	RCA	1.37	1.19	NL-635/7019	N.E.	13.00	11.70	5763	RCA	2.45	2.12
0C3	RCA	1.50	1.30	NL-635L/7020	N.E.	13.50	12.15	5814A*	RCA	2.35	2.03
0D3	RCA	1.44	1.24	NL635P/6930	N.E.	14.15	12.73	5814WA	RCA	2.40	2.03
0G3/85A2	Amp.	2.30	2.09	NL-664L	N.E.	26.00	-----	5820A	RCA	1100.00	-----
ELC18	Elec.	15.10	13.40	673	Amp.	22.15	-----	5823	RCA	1.72	1.48
1C21	RCA	4.15	3.55	NL678	N.E.	49.00	-----	5867	Amp.	30.00	28.12
1L4	RCA	1.50	1.30	NL-710/6011	N.E.	12.70	12.09	5876A	RCA	7.30	6.65
1P37	RCA	6.50	5.94	NL-710L/7518	N.E.	14.20	-----	5886	RCA	5.00	-----
1P39	RCA	3.15	2.85	NL-714	N.E.	10.00	-----	5894	Amp.	25.00	22.90
1P40	RCA	4.80	4.37	NL-716	N.E.	12.50	11.75	5915	RCA	1.62	1.40
1P41	RCA	6.00	5.44	NL-740/6856	N.E.	21.70	-----	5963	RCA	1.36	1.17
2-01C	Eim.	18.00	17.80	NL740L/7022	N.E.	22.30	-----	WL-5963	Wes.	1.36	1.17
2AP1A	RCA	19.00	17.76	NL-740P/6857	N.E.	22.50	-----	5964	RCA	1.55	1.33
2BP1	RCA	20.10	-----	NL-760	N.E.	28.10	25.29	5965	RCA	1.92	1.65
2C39A	RCA	20.75	18.32	NL-760L	N.E.	29.40	26.46	6005/6AQ5W	RCA	3.23	2.80
2C40	RCA	29.30	26.37	NL-760P	N.E.	29.40	26.46	6007	Amp.	1.72	-----
2C40A	RCA	34.00	33.00	807	RCA	3.40	3.08	6008	Amp.	2.50	-----
2D21	RCA	1.29	1.10	WL-807	Wes.	3.15	2.86	6012	RCA	7.65	6.63
2D21W	RCA	2.90	2.48	810	RCA	28.60	28.32	NL-6014/C1K	N.E.	11.80	11.66
2E24	RCA	6.45	5.86	811A	RCA	7.15	6.51	6072	RCA	3.90	3.51
2E26	RCA	3.75	3.36	812A	RCA	7.60	6.87	6073	RCA	3.00	2.55
WL-2E26	Wes.	3.75	3.36	813	RCA	24.25	23.80	6080	RCA	5.33	4.62
2X2A	RCA	3.95	3.58	816	RCA	3.60	3.22	6082	RCA	5.60	4.84
3A4	RCA	1.25	1.04	828	RCA	34.50	-----	6083	Amp.	14.25	12.83
3A5	RCA	2.03	1.76	829B	RCA	19.85	19.82	6084	Amp.	3.30	-----
3B25	RCA	9.15	8.31	833A	RCA	61.20	61.18	6085	Amp.	3.30	3.26
3B28	RCA	7.00	6.37	866A	RCA	3.24	2.91	6111	RCA	3.70	3.19
NL-3C23	N.E.	11.98	10.78	866AX	Amp.	3.10	2.79	6112	RCA	4.15	3.55
3CX100A5	Eim.	26.50	-----	WL-866A	Wes.	3.10	2.79	6136*	RCA	2.70	2.32
3D22A	RCA	34.30	-----	868	RCA	6.30	5.72	6146A	RCA	4.35	3.94
NL-C3J/AL	N.E.	14.60	13.52	872A	RCA	10.85	9.87	6146B/8298A	RCA	5.20	4.72
3RP1	RCA	17.95	-----	884	RCA	2.28	1.97	6146W	RCA	6.75	6.08
3RP1A	RCA	27.65	-----	918	RCA	6.30	5.72	6159	RCA	4.80	4.36
3-400Z	Eim.	34.00	30.60	919	RCA	9.65	8.80	6159B	RCA	5.60	5.08
4-65A	Eim.	27.00	23.75	922	RCA	3.80	3.45	6159W	RCA	6.75	6.07
4-125A	Eim.	36.00	32.40	923	RCA	4.70	4.29	12AU7WA	RCA	3.70	3.18
4-250A	Eim.	46.50	41.85	925	RCA	5.00	4.58	6197	RCA	2.30	2.03
4-400A	Eim.	48.00	45.00	927	RCA	6.00	5.44	6201	RCA	2.95	2.55
4-1000A	Eim.	131.50	-----	929	RCA	3.45	3.15	6201	Amp.	2.95	2.55
4CX250B	Eim.	35.60	31.25	930	RCA	4.95	4.51	6202	RCA	2.69	2.33
4CX300A	Eim.	54.00	-----	931A	RCA	12.30	11.16	6211	RCA	2.15	1.83
4X150A	Eim.	23.15	20.31	934	RCA	5.75	5.22	6227	Amp.	3.05	2.92
4X250B	Eim.	35.60	31.25	955	RCA	7.05	6.35	6267/EF86	Amp.	1.30	1.27
5BP1A	RCA	35.05	-----	991	RCA	1.01	.87	6293	RCA	5.95	5.37
5CP1A	RCA	37.90	-----	NL-1012A	N.E.	99.00	-----	6336A	RCA	19.04	16.45
5R4GYB	RCA	2.03	1.76	NL-1013A	N.E.	245.00	-----	6350	RCA	1.85	1.60
5UP1	RCA	17.95	-----	NL-1016A	N.E.	155.00	-----	6360A	Amp.	4.95	4.26
6A56	RCA	3.43	2.98	NL1051A	N.E.	65.00	-----	6386	RCA	7.38	6.66
6A57G	RCA	4.93	4.26	NL1052A	N.E.	99.00	-----	6417	RCA	3.33	2.89
6A57GA	Wes.	4.93	4.26	NL-1081	N.E.	75.00	-----	6463	Amp.	3.50	2.74
6AUGWB	RCA	1.88	1.15	NL-1082	N.E.	107.00	-----	6472	RCA	14.75	12.88
6BL8/ECF80	Amp.	1.88	1.16	1612	RCA	5.77	4.99	6550	RCA	4.59	3.98
6BM8/ECL82	Amp.	1.45	1.39	1614	RCA	4.93	4.26	6570	RCA	10.30	9.37
6CA7/EL34	Amp.	2.60	2.55	1616	RCA	15.10	-----	6626/0A2WA	RCA	3.35	2.87
6EJ7/EF184	Amp.	1.93	1.09	1619	RCA	6.23	5.39				
6J4	RCA	4.02	3.48	1620	RCA	7.55	6.54				
NL-C6J	N.E.	28.10	-----	1621	RCA	3.85	3.30				
NL-C6JL	N.E.	29.40	-----	1622	RCA	5.35	4.60				
12A6	RCA	3.36	-----	1624	RCA	7.90	7.16				
12AT7WA	RCA	2.53	2.25	1625	RCA	5.50	5.00				
GZ34/SAR4	Mul.	2.15	2.05	1626	RCA	3.75	3.23				
EL37	Mul.	3.55	3.29	1629	RCA	2.04	1.77				
KT66	Mul.	3.76	3.59	1635	RCA	4.20	3.63				
DM70/1M3	Mul.	1.20	1.10	2050	RCA	2.37	2.05				
KT77	Mul.	4.45	4.15	WL-2050	Wes.	2.37	2.05				
EF80/6BX6	Mul.	1.52	1.45	2050A	RCA	2.03	1.76				
EZ80/6V4	Amp.	.75	.73	4450	RCA	1.40	1.26				
ECC81/12AT7	Amp.	1.42	1.37	WL5551A/652	Wes.	65.00	-----				
EM81/6DA5	Amp.	1.40	1.36	WL5552A/651	Wes.	99.00	-----				
EZ81/6CA4	Amp.	.98	.89	5557	RCA	9.50	8.55				
ECC82/12AU7	Amp.	1.15	1.12	5558	RCA	17.50	15.75				
ECF82/6U8	Mul.	1.55	1.45	NL5563A	N.E.	50.00	-----				
ECL82/6BM8	Mul.	1.45	1.36	5581	RCA	4.85	4.44				
UCL82/50BM8	Amp.	1.43	1.39	5582	RCA	6.30	5.72				
83	RCA	1.89	1.63	5583	RCA	8.75	7.94				
ECC83/12AX7A	Amp.	1.20	1.15	NL-5632/C3J	N.E.	12.70	12.09				
EL84/6B05	Mul.	1.15	1.06	5642	RCA	3.53	-----				
EM84/6FG6	Amp.	1.50	1.49	5651A	RCA	1.78	1.50				
ECC85/6AQ8	Amp.	1.50	1.45	5654*	RCA	2.41	2.09				
EF85/6BY7	Mul.	1.52	1.45	WL-5654/	Wes.	2.41	2.09				
EC86/6CM4	Amp.	2.60	2.56	6AK5W	N.E.	52.50	-----				
ECC86/6GM8	Amp.	2.18	2.11	NL-5665/C16J	RCA	2.45	2.12				
EF86/6267	Amp.	1.30	1.27	5670*	RCA	2.27	1.97				
EL86/6CW5	Amp.	1.70	1.19	5672	RCA	8.95	8.08				
E88CC/6922	Amp.	4.87	4.22	5675	RCA	2.30	-----				
ECC88/6DJ8	Amp.	2.13	2.09	5678	RCA	-----	-----				
KT88	Mul.	5.90	5.49	NL-5684/	N.E.	13.10	12.52				
EBF89/6DC8	Mul.	1.53	1.42	C3J/A	N.E.	16.70	15.61				
EZ90/6X4	Mul.	.80	.73	NL-5684NE	N.E.	3.37	2.91				
EF94/6AU6	Mul.	.98	.92	5686	RCA	4.05	3.47				
100TH	Eim.	23.50	21.15	5687	RCA	8.75	7.56				
FG105	N.E.	59.00	-----	5691	RCA	8.25	7.13				
250TH	Eim.	38.50	34.65	5692	RCA	6.60	5.70				
304TL	Eim.	80.00	77.77	5693	RCA	1.95	1.67				
408A	RCA	4.95	4.26	5696	RCA	3.15	2.70				
502A	RCA	2.28	1.97	5722	RCA	1.55	1.33				
575A	RCA	21.00	-----	5726/6AL5W	RCA	1.55	1.33				
NL-604	N.E.	11.80	10.62	5727	RCA	2.90	2.47				
NL-604L	N.E.	13.00	11.70	5749/6BA6W	RCA	2.20	1.90				
NL-606	N.E.	21.40	-----	5750	RCA	3.45	3.10				
NL-606L	N.E.	23.50	-----								

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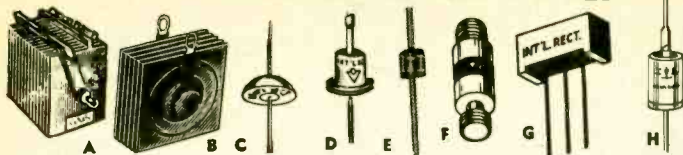
Type No.	Mfg.	Stock No.	1-99	100-999	Type No.	Mfg.	Stock No.	1-99	100-999	Type No.	Mfg.	Stock No.	1-99	100-999	Type No.	Mfg.	Stock No.	1-99	100-999
2N708	Tran.	44B22	\$1.30	\$0.85	2N1527	RCA	41A10	\$0.47	\$0.32	2N3118	RCA	41A10	\$4.95	\$3.42	40264	RCA	41A10	\$1.21	\$0.84
2N718A	RCA	41A10	1.08	.72	2N1595	Tran.	44B22	3.00	2.00	2N3119	RCA	41A10	5.36	3.71	40280	RCA	41A10	4.62	3.19
2N886	Tran.	44B22	9.70	7.05	2N1596	Tran.	44B22	4.90	3.25	2N3228	RCA	41A11	1.62	1.12	40281	RCA	41A10	23.10	15.95
2N914	RCA	41A10	1.57	1.09	2N1597	Tran.	44B22	9.40	6.25	2N3261	RCA	41A10	3.30	2.28	40282	RCA	41A10	33.00	22.80
2N917	RCA	41A10	2.48	1.65	2N1599	Tran.	44B22	19.30	12.85	2N3262	RCA	41A10	9.90	6.85	40283	RCA	41A10	3.71	2.57
2N918	RCA	41A10	3.30	2.20	2N1605A	RCA	41A10	1.26	.87	2N3375	RCA	41A10	23.10	15.95	40290	RCA	41A10	4.79	3.31
2N930	Tran.	44B22	4.00	2.67	2N1613	RCA	41A10	1.08	.72	2N3439	RCA	41A10	4.13	2.85	40291	RCA	41A10	14.85	10.25
2N1010	RCA	41A10	2.89	2.00	2N1632	RCA	41A10	.49	.34	2N3440	RCA	41A10	2.06	1.43	40292	RCA	41A10	33.00	22.80
2N1100	RCA	41A10	5.02	3.47	2N1637	RCA	41A10	.52	.36	2N3441	RCA	41A10	2.89	2.00	40321	RCA	41A10	1.24	.86
2N1131	Tran.	44B22	5.10	3.40	2N1638	RCA	41A10	.45	.31	2N3442	RCA	41A10	4.95	3.42	40323	RCA	41A10	.70	.48
2N1132	Tran.	44B22	5.60	3.75	2N1639	RCA	41A10	.48	.34	2N3478	RCA	41A10	1.90	1.31	40324	RCA	41A10	1.21	.84
2N1177	RCA	41A10	.83	.57	2N1647	Tran.	44B22	17.00	12.70	2N3512	RCA	41A10	3.71	2.57	40325	RCA	41A10	2.48	1.71
2N1178	RCA	41A10	.81	.56	2N1702	RCA	41A10	4.54	3.14	2N3525	RCA	41A11	2.31	1.60	40346	RCA	41A10	1.14	.79
2N1179	RCA	41A10	.81	.56	2N1703	RCA	41A10	5.78	3.99	2N3528	RCA	41A11	1.63	1.12	40347	RCA	41A10	.80	.55
2N1180	RCA	41A10	.68	.47	2N1711	RCA	41A10	1.16	.77	2N3529	RCA	41A11	2.31	1.60	40348	RCA	41A10	1.06	.73
2N1183	RCA	41A10	1.82	1.25	2N1893	RCA	41A10	1.32	.88	2N3553	RCA	41A10	4.95	3.42	40349	RCA	41A10	1.56	1.08
2N1184B	RCA	41A10	4.13	2.85	2N1905	RCA	41A10	4.13	2.85	2N3584	RCA	41A10	6.60	4.56	40360	RCA	41A10	1.03	.71
2N1224	RCA	41A10	1.24	.86	2N1991	Tran.	44B22	3.15	2.10	2N3585	RCA	41A10	13.20	9.10	40361	RCA	41A10	1.04	.72
2N1225	RCA	41A10	1.41	.97	2N2010	Tran.	44B22	4.15	2.75	2N3600	RCA	41A10	4.13	2.85	40362	RCA	41A10	1.46	1.01
2N1226	RCA	41A10	1.49	1.03	2N2039	Tran.	44B22	2.98	1.98	2N3632	RCA	41A10	33.00	22.80	40363	RCA	41A10	2.48	1.71
2N1300	RCA	41A10	.91	.63	2N2089	Amp.	44B53	.84	.56	2N3668	RCA	41A11	2.89	2.00	40364	RCA	41A10	4.46	3.08
2N1301	RCA	41A10	1.04	.72	2N2092	Amp.	44B53	.67	.45	2N3669	RCA	41A11	3.27	2.26	40373	RCA	41A10	2.97	2.05
2N1302	RCA	41A10	.45	.31	2N2102	RCA	41A10	1.41	.97	2N3679	RCA	41A11	4.92	3.40	40374	RCA	41A10	3.38	2.34
2N1303	RCA	41A10	.45	.30	2N2147	RCA	41A10	1.57	1.09	2N3773	RCA	41A10	7.84	5.42	40406	RCA	41A10	1.36	.94
2N1304	RCA	41A10	.53	.37	2N2148	RCA	41A10	1.16	.80	2N3866	RCA	41A10	4.95	3.42	40407	RCA	41A10	.81	.56
2N1305	RCA	41A10	.53	.36	2N2270	RCA	41A10	1.16	.80	2N3870	RCA	41A11	4.70	3.25	40408	RCA	41A10	1.08	.75
2N1306	RCA	41A10	.75	.52	2N2323	Tran.	44B22	3.25	2.20	2N3871	RCA	41A11	5.12	3.53	40409	RCA	41A10	1.14	.79
2N1307	RCA	41A10	.75	.50	2N2324	Tran.	44B22	5.35	3.55	2N3872	RCA	41A11	7.18	4.96	40410	RCA	41A10	1.64	1.13
2N1308	RCA	41A10	1.08	.75	2N2405	RCA	41A10	2.06	1.43	2N3896	RCA	41A11	4.95	3.42	40411	RCA	41A10	5.61	3.88
2N1309	RCA	41A10	1.08	.75	2N2494	Amp.	44B53	2.36	1.51	2N3897	RCA	41A11	5.36	3.71					
2N1395	RCA	41A10	1.49	1.03	2N2495	Amp.	44B53	2.10	1.40	2N3898	RCA	41A11	7.43	5.13					
2N1396	RCA	41A10	1.65	1.14	2N2613	RCA	41A10	.55	.38	2N3932	RCA	41A10	2.06	1.43					
2N1397	RCA	41A10	2.15	1.48	2N2614	RCA	41A10	.50	.35	2N3933	RCA	41A10	2.31	1.60					
2N1412	RCA	41A10	5.76	3.98	2N2631	RCA	41A10	4.79	3.31	2N3945	Tran.	44B22	1.25	.88					
2N1479	RCA	41A10	2.15	1.48	2N2654	Amp.	44B54	1.42	.96	2N4036	RCA	41A10	1.62	1.12					
2N1480	RCA	41A10	2.31	1.60	2N2708	RCA	41A10	3.71	2.57	2N4037	RCA	41A10	1.31	.91					
2N1481	RCA	41A10	2.48	1.71	2N2857	RCA	41A10	6.60	4.56	2N4068	RCA	41A10	1.57	1.09					
2N1482	RCA	41A10	3.30	2.28	2N2869/				2N4069	RCA	41A10	1.64	1.13						
2N1483	RCA	41A10	2.89	2.00	2N301	RCA	41A10	1.52	1.05	2N4074			.73	.51					
2N1484	RCA	41A10	3.63	2.51	2N2870/				3N98	RCA	41A10	27.00	18.65						
2N1485	RCA	41A10	4.46	3.08	2N301A	RCA	41A10	3.15	2.18	3N99	RCA	41A10	27.00	18.65					
2N1487	RCA	41A10	4.54	3.14	2N2876	RCA	41A10	14.50	10.05	40080	RCA	41A10	1.08	.75					
2N1488	RCA	41A10	4.95	3.42	2N2895	RCA	41A10	1.41	.97	40081	RCA	41A10	1.65	1.14					
2N1489	RCA	41A10	7.43	5.13	2N2896	RCA	41A10	2.06	1.43	40082	RCA	41A10	5.69	3.93					
2N1490	RCA	41A10	8.25	5.70	2N2897	RCA	41A10	1.16	.80	40231	RCA	41A10	.47	.32					
2N1515/					2N2898	RCA	41A10	2.48	1.71	40250	RCA	41A10	1.57	1.09					
OC169	Amp.	44B53	1.26	.84	2N2900	RCA	41A10	1.90	1.31	40250V1	RCA	41A10	1.65	1.14					
2N1516/					2N2938	RCA	41A10	2.15	1.48	40251	RCA	41A10	2.89	2.00					
OC170	Amp.	44B53	1.65	1.10	2N2953	RCA	41A10	.50	.35	40255	RCA	41A10	4.21	2.91					
2N1517/					2N3053	RCA	41A10	.99	.69	40256	RCA	41A10	2.15	1.48					
OC171	Amp.	44B53	1.84	1.23	2N3053	Tran.	44B22	1.50	1.00	40261	RCA	41A10	.43	.30					
2N1524	RCA	41A10	.40	.28	2N3054	RCA	41A10	2.06	1.43	40262	RCA	41A10	.40	.28					
2N1525	RCA	41A10	.43	.30	2N3055	RCA	41A10	2.89	2.00	40263	RCA	41A10	.42	.29					

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Type No.	Mfg.	Stock No.	1-99	100-999	Type No.	Mfg.	Stock No.	1-99	100-999
ER900	Tran.	44B23	\$1.75	\$1.20	T22G	Tran.	44B23	1.25	.90
SC2	Tran.	44B23	2.65	1.95	TBS20AS	Tran.	44B23	5.20	3.50
SC7	Tran.	44B23	2.65	1.95	TBS20B	Tran.	44B23	4.30	2.80
SC15	Tran.	44B23	2.65	1.95	TCR23	Tran.	44B23	2.55	1.70
T22G	Tran.	44B23	1.25	.90	TCR35C	Tran.	44B23	1.40	.95
TBS20AS	Tran.	44B23	5.20	3.50	TCR43	Tran.	44B23	5.50	3.35
TBS20B	Tran.	44B23	4.30	2.80	TCR65C	Tran.	44B23	1.50	1.00
TCR23	Tran.	44B23	2.55	1.70	TCR73	Tran.	44B23	2.55	1.70
TCR35C	Tran.	44B23	1.40	.95	TCR76	Tran.	44B23	5.50	3.35
TCR43	Tran.	44B23	5.50	3.35	TCR105C	Tran.	44B23	1.70	1.15
TCR65C	Tran.	44B23	1.50	1.00	TCR205C	Tran.	44B23	1.90	1.30
TCR73	Tran.	44B23	2.55	1.70	TCR2005	Tran.	44B23	11.50	7.75
TCR76	Tran.	44B							

International Rectifiers, Photo Cells

INTERNATIONAL—RECTIFIERS—DIODES



Produced by the world's largest industrial rectifier manufacturer. Features reliable performance, advanced design and a wide selection.

Fig. (A) INDUSTRIAL SELENIUM STACKS

*Three terminal full wave center tapped, all others single phase bridge.

Stock No.	Mfg. No.	Input* DC Volts	DC Output AC Volts	Output Amps	Size Inches	1-9 Each	10-99 Each
29B345	J14C1*	36	14	1.5	1 1/2 x 1 1/2 x 1 1/8	\$1.52	\$1.29
29B346	J14C5*	36	14	4.8	3 x 3 x 1 1/8	3.90	3.30
17A297	J29B04	36	29	.4	1 x 1 x 1 1/8	1.70	1.44
41A59	J29B1	36	29	1.5	1 1/2 x 1 1/2 x 1 1/2	2.48	2.10
29B333	J29B5	36	29	4.5	3 x 3 x 2 3/8	7.02	5.94
41A60	J29B8	36	29	8.4	4 x 4 x 2 5/8	10.25	8.25
29B163	J29B17	36	29	17.	6 x 5 x 3 1/4	15.35	12.99
41A61	J58B1	72	58	1.5	1 1/2 x 1 1/2 x 2 1/4	4.90	4.15
29B336	J58B5	72	58	4.5	3 x 3 x 4 3/8	13.98	11.83
29B339	J116B1	144	116	1.	1 1/2 x 1 1/2 x 3 1/8	8.91	7.54

Fig. (A) BATTERY CHARGING TYPES

JD4346B is a universal fast charge type, fits most 100 amp units. Other types may be used singly or in multiples for various circuits.

Stock No.	Mfg. No.	Input V.AC	Output DC V.	Output Amps	Size Inches	1-9 Each	10-99 Each
29A272	JD4346B	16-35	6-12	30 to 100	6x5x4 1/8	\$19.03	\$16.10
41A64	JD116K	16.5	6-12	2	3x3x .5	1.75	1.49
41A65	JD117K	16.5	6-12	3	4x4x .5	2.34	2.00
41A66	JD241K	16.5	6-12	6	6x5x .5	3.35	3.04

Fig. (B) RADIO & TV HIGH DENSITY SELENIUM TYPES

Stock No.	Mfg. No.	DC MA	Max. RMS Volts	Size Inches	1-9 Each	10-99 Each
17C175	E075L	65-75	130	.67x .67x 3/4	\$0.59	\$0.44
17C176	E150L	75-150	130	.67x .67x 1 1/4	.75	.62
17C179	E300L	200-300	130	1 1/4 x 1 1/4 x 1 1/4	1.10	.92
17A298	E500L	400-500	130	1 1/2 x 1 1/2 x 1 1/2	1.25	1.02

SILICON RECTIFIERS For Radio & TV

Stk. No.	Mfg. No.	Fig.	Peak Volts	Current Ma	1-9 Ea.	10-99
17B36	2E4	C	400	250	\$0.55	\$0.50
17A223	5E4	C	400	450	.85	.59
17A171	10D2	E	200	1000	.50	.....
17D167	10D4	E	400	1000	.88	.....
17D168	10D6	E	600	1000	.87	.....
17B291	SD500	D	400	750	.67	.53
41A69	5MA4-D	F	400	1000	.92	.75
41A70	5MA4-DK	F	Kit of 2 With Holder		1.70	1.53
41A71	DDO4	G	Dual Diode Com. Cath.		.55	.44
41A72	DDO5	G	Dual Diode Series Con.		.55	.44
41A73	DDO6	G	Dual Diode Com. Anode		.49	.44

LOW TO MEDIUM POWER SILICON RECTIFIERS

Fig. D Low Leakage Type (H) IRC 1.3 Amp Silicon Rectifiers
Rated 1.8 amp with heat sink, 1.3 in High temperature. Rugged, hermetically free air. Popular Top Hat design. sealed, 100 to 1000 volt.

Order by	Stk. No.	Mfg. No.	Fig.	Peak Volts	Current Ma	PRV	Each
PRV	1-99	100	Up				\$0.32
No. Volts	Each	Each					
10B1	100	\$0.50	\$0.37	41A214	10C1	100	.35
10B2	200	.55	.40	41A215	10C2	200	.38
10B3	300	.65	.51	41A216	10C3	300	.42
10B4	400	.80	.64	41A217	10C4	400	.47
10B6	600	1.10	.88	41A218	10C5	500	.52
				41A219	10C6	600	.75
				41A220	10C8	800	1.70
				41A221	10C10	1000	

COLOR TV CARTRIDGE RECTIFIER

The most needed silicon replacements. 61-8968 used as voltage booster rectifier and 61-8969 used as focus rectifier, replacing the 1V2. Direct replacement in RCA, Magnecord, Philco, Emerson, Packard Bell, Sylvania and Zenith.

41A140. 61-8968. 800 PR Volts. 1-9 Ea. \$1.20 10-99 Ea. \$1.08
41A141. 61-8969. 6500 PR Volts. 1-9 Ea. \$2.95 10-99 Ea. \$2.65

SILICON FULL WAVE BRIDGE ASSEMBLIES

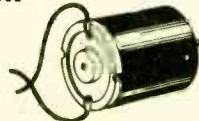
MINIATURE SIZE—COMPLETELY INSULATED

Type 10DB5A is universal replacement rectifier for European Radios, Hi-Fi, TV, Amplifiers and Recorders made by Grundig, Telefunken, Mertz, Phillips, etc.

Stk. No.	Mfg. No.	PIV	Amps	Net Each
41A143	10DB2A	200	1.8	\$2.50
41A144	10DB4A	400	1.8	2.75
41A145	10DB6A	600	1.8	3.05
41A146	10DB8A	800	1.8	3.60
41A223	10DB10A	1000	1.8	5.40

EXPERIMENTERS MOTOR

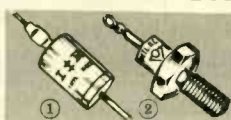
Special Anti-Friction Bearing Type—Designed to operate directly from the power supplied by Solar Cells. Offers many fascinating experiments and science projects. Runs on 1.5 to 6 volts at 30 to 40 MA. Connecting a number of the cells listed above in series parallel will operate the motor.



\$3.95

B-A is your one-stop source for all International Rectifier items. See JEDEC listing on previous pages for other Zeners & Rectifiers.

ZENER DIODES FOR EVERY PURPOSE



Complete coverage Zener Voltage Range from 3.9 to 120 volts with power rating of 1 and 10 watts. To help in selecting Zener Diodes request the Zener Locator and Cross Reference Guide No. 41A132—FREE. Send all orders, request for quotations or product information to B-A for fast, complete service.

COMMERCIAL ZENER DIODES—10% TOLERANCE

① 1 WATT SIZE				② 10 WATT SIZE			
Order By	Stk. No.	Mfg. No.	Volts	Order By	Stk. No.	Mfg. No.	Volts
Z1100	3.9	Z1118	22	Z1304	5.6	Z1322	33
Z1102	4.7	Z1120	27	Z1306	6.8	Z1324	34
Z1104	5.6	Z1122	33	Z1308	8.2	Z1326	47
Z1106	6.8	Z1124	39	Z1310	10	Z1328	56
Z1108	8.2	Z1126	47	Z1312	12	Z1330	68
Z1110	10	Z1128	56	Z1314	15	Z1332	82
Z1112	12	Z1130	68	Z1316	18	Z1334	100
Z1114	15	Z1132	82	Z1320	27	Z1336	120
Z1116	18	Z1134	100				

Your Choice 1-9 Ea. \$0.85 10-99 Ea. \$0.74 Your Choice 1-9 Ea. \$2.05 10-99 Ea. \$1.85

FLANGELESS SILICON RECTIFIERS

For stable applications over a wide temperature range.



FLANGELESS 1.2 AMP			FLANGELESS .6 AMP		
Stk. No.	Mfg. No.	Peak V.	Stk. No.	Mfg. No.	Peak V.
41A178	1N1907	50	41A188	1N2103	50
41A179	1N1908	100	41A189	1N2104	100
41A180	1N1909	200	41A190	1N2105	200
41A181	1N1910	300	41A191	1N2106	300
41A182	1N1911	400	41A192	1N2107	400
41A183	1N1912	500	41A193	1N2108	500
41A184	1N1913	600			
41A185	1N1914	700			
41A186	1N1915	800	41A194	1N2610	100
41A187	1N1916	900	41A195	1N2611	200

FLANGELESS .75 AMP			FLANGELESS .75 AMP		
Stk. No.	Mfg. No.	Peak V.	Stk. No.	Mfg. No.	Peak V.
41A202	1N3639	200	41A196	1N2612	300
41A203	1N3640	400	41A197	1N2613	400
41A204	1N3641	600	41A198	1N2614	500
41A205	1N3642	800	41A199	1N2615	600
			41A200	1N2616	800
			41A201	1N2617	1000

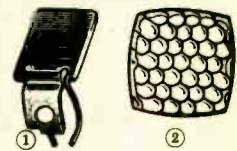
TEMPERATURE COMPENSATED ZENER REFERENCE DIODES

500 milliwatt, 9 volt @ ± 5%.

Stk. No.	Mfg. No.	1-99 Ea.	Stk. No.	Mfg. No.	1-99 Ea.
41A163	1N935	\$1.60	41A172	1N938	\$4.80
41A164	1N935A	1.80	41A173	1N938A	5.20
41A165	1N935B	2.45	41A174	1N938B	6.90
41A166	1N936	1.90	41A175	1N939	12.40
41A167	1N936A	2.45	41A176	1N939A	17.50
41A168	1N936B	2.90	41A177	1N939B	18.85
41A169	1N937	3.70			
41A170	1N937A	4.25			
41A171	1N937B	4.90			

INTERNATIONAL SUN BATTERY-PHOTO CELLS

Converts sunlight to electricity for many interesting projects for the experimenter, hobbyist, science classes as well as useful commercial applications. A 24 page handbook supplied with each cell is chock full of ideas, suggesting circuits for solar powered transistor radios, controlling relay circuits, light ray guns, burglar alarms, light meters and many others. The "S" types are the same as used for charging batteries in our space vehicles.



Stock No.	Mfg. No.	Fig.	Max. Output Volt	Output MA	Size	1-9 Each	10-99 Each
17C186	B-2M Mounted	①	.4	2	1/2 x 3/4"	\$1.50	\$1.35
17C302	B-3M Selenium	②	.4	1 1/2	1 1/8 x 3/4"	1.75	1.55
17C303	S-1M Silicon	③	.45	16	1 1/8 x 3/4"	2.25	2.00
17C305	S-3M Selenium	④	.85	16	1 1/8 x 3/4"	3.95	3.51
17C316	S-4M Silicon	⑤	.4	25	1 1/8 x 3/4"	3.95	3.51
17C307	S-5M Selenium	⑥	.85	25	1 1/8 x 3/4"	4.95	4.40

TRANSISTOR SOLAR RADIO PACKS

Uses sunlight to produce power for operating 4.5 and 9 volt transistor radios. At the same time a constant charge is being applied to the radio battery. Leads have battery terminals for quick solderless connection. Pack can be attached to radio or cabinet by means of a unique pad. Size 3x1 3/4 x 3/8". Weight 6 oz. Complete with instructions.

No. 17D323. Mfg. No. SP9G13C. 9 Volt 13 MA. Your Choice Each \$7.45



SOLAR PHOTOCELL EXPERIMENTER KIT

Contains a selection of selenium, silicon and cadmium sulfide solid state photocells. An instruction manual with circuit diagrams and experiments, plus a Handbook. Ideal kit for schools, experimenters and hobbyists.

No. 41A127. K421 Kit. Each \$5.95



Thermistors, Photocells, Semiconductors

FENWAL THERMISTORS

Thermistors are thermal resistors of ceramic material combined with metals to obtain a definite decrease in resistance as temperature is increased. Features close tolerance and stability with high reliability and unlimited life. An ideal temperature measuring device. A B C D E

For Thermistor applications booklet request No. 25A93. FREE

Stock No.	Mfg. No.	Fig.	Ohms @ 25° C	Ratio	1-9 Each	10-Up Each
44A201	GA51J1	A	100K	10.3:1	\$2.70	\$2.16
44A202	GA51P2	B	100K	10.3:1	2.00	1.60
44A203	GB32J2	A	2K	7.3:1	2.70	2.16
44A204	GB32P8	B	2K	7.3:1	2.35	1.88
44B214	GD25J1	A	500	5.1:1	3.24	2.60
44B220	JB25J1	C	500	6.9:1	1.00	.80
44B221	JB31J1	C	1K	6.9:1	1.00	.80
44A205	JA35J1	C	5K	9.1:1	1.00	.80
44A206	KA31L1	C	1K	9.1:1	.85	.68
44A207	LB21J1	C	100	6.9:1	.85	.68
44B211	NB11J1	C	10	6.9:1	.85	.68
44A208	QA51J1	D	100K	9.1:1	1.25	1.00
44A209	RB33L1	D	3150	7.1:1	1.20	.96
44A210	RB41L1	D	10K	7.1:1	1.20	.96
44A212	WA21W1	E	100	9.1:1	1.25	1.00
44A213	WB11W1	E	10	6.9:1	1.25	1.00

THERMISTOR BASIC APPLICATION KIT

G701. Contains 10 glass bead and rod thermistors. Resistance values from 3K to 135K ohms. Complete with applications manual and thermistor computer. No. 44B222. Per Kit Each.....\$9.95

CLAIREX PHOTO CELLS



Small size—low cost—highly dependable. A type for every purpose in designing light control equipment, for industrial control, automation, computers, data processing, photography, television, radio. A natural for experimental and hobby use. The new low voltage (60 volts) units are ideal in transistorized circuits. CL500 series have power dissipation of 1/2 watt, all others are 75 MW. For technical design data request Clairex booklet, No. 25A94. Free. Fig. 1 size 1/2x1/2"; Fig. 2 size 1/4x1/2"; Fig. 3 .21x.15"; Fig. 4 .36x.18".

Fig. 1 size 1/2x1/2"; Fig. 2 size 1/4x1/2"; Fig. 3 .21x.15"; Fig. 4 .36x.18".

Stk. No.	Mfg. No.	Fig.	Max. Volts	Each	Stk. No.	Mfg. No.	Fig.	Max. Volts	Each
20A12	CL5M4L	1	60	\$1.50	20A18	CL605L	1	60	\$1.50
20A16	CL5M5	1	300	1.50	20A19	CL703	1	300	1.50
20A17	CL5M5L	1	60	1.50	20A20	CL703A	1	300	1.50
20A41	CL504	1	250	1.50	20A23	CL703L	1	60	1.50
20A61	CL504L	1	60	1.50	20C44	CL704L	1	60	1.50
20A63	CL505	1	250	1.50	20B24	CL705L	1	60	1.50
20A64	CL505L	1	60	1.50	20A25	CL705HL	1	250	1.50
20A45	CL602	1	300	1.50	20A26	CL903	1	250	1.50
20A66	CL603	1	300	1.75	20A27	CL903A	1	60	1.50
20A67	CL603A	1	300	1.75	20B28	CL903L	1	250	1.50
20A70	CL603AL	1	60	1.75	20A32	CL904	1	250	1.50
20A47	CL604L	1	60	1.75	20A33	CL905L	1	60	1.50
20A42	CL605	1	300	1.50	20A34	CL905HL	1	60	1.50

DESIGNERS PHOTO CELL KIT



Selection of 5 photo conductive cells varying in sensitivity, spectral response, speed and size. Complete with detailed technical information. Ideal for design, experimental and research projects. No. 20A43. Net Each.....\$10.00

SPECIAL INTERNATIONAL RECTIFIERS

SILICON RECTIFIER TUBE REPLACEMENT



A plug-in replacement for 5U4, 5AW4, 5AZ4, 5T4, 5AU4, 5V4, 5Y3, 5Z4. Contains a surge limiting resistor which adds to its practically unlimited life. Lower forward voltage characteristic results in higher equipment voltage. No. 41C26. Type ST-14. Each.....\$4.20

IR CONTACT PROTECTORS



To prevent arcing of relay and switch contacts. Highly reliable at very low cost. Small cartridge with pigtail leads. Consists of 2 selenium cells back-to-back for best protection. Select protector with higher voltage than that of the circuit.

Stock	Mfg.	AC TYPES	V. AC	Each	Stock	Mfg.	DC TYPES	V. DC	Each
41A90	S1V1P	26	\$0.63	41A75	S2V1P	44	\$0.63		
41A92	SSV5P	130	1.00	41A77	S6V2P	132	.90		
41A98	SSY5P	130	1.12	41A78	S7V2P	154	.90		
41A99	SSY6P	156	.95	41A81	S6Y2P	132	.98		
41A102	SSZ5P	130	2.12	41A86	S1W1P	22	1.73		
41A104	SSW5P	130	3.22	41A87	S6W2P	132	2.67		

MP100 METER PROTECTOR

MAKES ALL MULTIMETERS BURNOUT PROOF

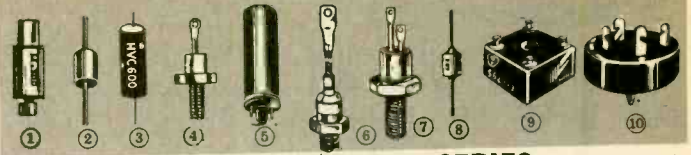
Simply install across meter terminals of sensitive meters up to 100 ua on VOM's, Wheatstone and Kelvin Bridge instruments. It also protects against test lead reversal. No. 41A89. Net Each.....\$1.98

SILICON CONTROL RECTIFIER KIT

No. K505. Deluxe assortment of five, 50 to 200 volt, 1.5 to 9 amp units. Complete with 18 page booklet describing 12 practical projects. Ideal for schools, labs, experimenters, etc. No. 41A62. Complete Kit.....\$7.95



SARKES TARZIAN



MEDIUM CURRENT SERIES

① M SERIES CLIP-IN TYPE—Popular for service and industrial applications. Body 1/8" ferrule 1/4". All are 500 mil. CLIP IN MTG. FOR M SERIES
Stk. No. Mfg. No. PIV 1-99 100 Up 12B843. Single Mfg. Each.....12c
17C201 60M 600 \$0.85 \$0.70 17B355. Dual Mfg. Each.....25c
17B354 M500 400 .69 .59

COLOR TV RECTIFIER REPLACEMENTS

② SILICON SELENIUM—Replaces Originals
Stk. No. Mfg. No. Function Each Stk. No. Mfg. No. Function Each
17A351 CTV650 Focus \$5.00 17A352 S-880 Focus \$2.95
17A19 80C Volt. Boost 1.20 17A353 S-789 Volt. Boost 1.20
17C204 F-8 Volt. Boost .84 17A356 S-855 Converg. ① .84
17A19 60C B+ .72 17A357 S-420 Converg. ② .84
17A117 F-6 B+ .63 17A358 S-798 Converg. ③ .96
Specify Stk. No. & Mfg. No. when ordering. 17B359 S-781 Converg. ④ .84

③ (S) Tube Replacement Type Plugs in tube socket. Instant acting, longer life. ④ NEW HIGH VOLTAGE TYPE Epoxy Tubular Avalanche Design With axial leads.

Stk. No.	Mfg. No.	Replaces	1-24	Stk. No.	Mfg. No.	PIV	MA	1-24
17A203	S5017	OZ4-5Y4-6X5	\$12.00	17A187	HVC180	1800	250	3.35
17A207	S5251	5U4-5Y3 etc.	6.10	17A2	HVC240	2400	250	3.60
17A211	S5130	866A-3B28	22.50	17D188	HVC400	4000	200	4.00
17B37	S5991	5A4U-5U4-5Y4-5Y3	3.50	17A3	HVC500	5000	200	4.15
				17D189	HVC1000	10,000	100	7.10

Available from 2 to 500 amp DC, 30-560 volts. For complete details write for engineering bulletin 25A106.

Stk. No.	Mfg. No.	PIV	DC Amps.	Size	1-24 Ea.	25-99 Ea.
17A4	S6211	200	2	3/4x1/8"	\$2.35	\$2.02
17A5	S6211-1	400	2	3/4x1/8"	2.45	2.13
17A6	S6211-2	600	2	3/4x1/8"	2.64	2.26
17A8	S6211-3	800	2	3/4x1/8"	3.11	2.75
17A9	S6121-1	200	6	1 1/4x1/8"	3.32	2.85
17A10	S6121-3	400	6	1 1/4x1/8"	4.64	3.98
17A1	S6121-5	600	6	1 1/4x1/8"	6.65	5.69

IMPROVED HIGH CURRENT RECTIFIERS

Hermetically sealed with hard solder at each junction. Half wave units for single or polyphase use. Engineering bulletins covering applications and circuit data available on request. Last letter: N, negative base, P, positive. 7/8" base and 10-32 stud.

Stk. No.	Mfg. No.	PIV	DC Amps.	Size	1-24 Ea.	25-99 Ea.
17A4	S6211	200	2	3/4x1/8"	\$2.35	\$2.02
17A5	S6211-1	400	2	3/4x1/8"	2.45	2.13
17A6	S6211-2	600	2	3/4x1/8"	2.64	2.26
17A8	S6211-3	800	2	3/4x1/8"	3.11	2.75
17A9	S6121-1	200	6	1 1/4x1/8"	3.32	2.85
17A10	S6121-3	400	6	1 1/4x1/8"	4.64	3.98
17A1	S6121-5	600	6	1 1/4x1/8"	6.65	5.69

⑤ 25 Amp Stud Rectifiers

Stk. No.	Mfg. No.	PIV	DC Amps.	Size	1-24 Ea.	25-99 Ea.	100-Up Ea.
10H3	100	\$1.20	\$1.03	ST210-N	100	\$1.19	\$1.02
20H3	200	1.25	1.07	ST230-N	300	1.34	1.14
40H3	400	1.95	1.65	ST240-N	400	1.67	1.43
60H3	600	2.70	2.32	ST260-N	600	2.34	2.00

⑥ Sarks Tarzian Zener Diodes
Order by Stk. No. 17C147 and Mfg. No. 1 Watt Insulated Case
Mfg. No. Voltage Mfg. No. Voltage
VR-6 6 VR-28 28
VR-7 7 VR-33 33
VR-8.5 8.5 VR-39 39
VR-10 10 VR-47 47
VR-12 12 VR-56 56
VR-14 14 VR-67 67
VR-18 18 VR-80 80
VR-20 20 VR-90 90
VR-24 24 VR-105 105
Choice 25-99
1-24 Ea.....62c Each.....55c

SARKES TARZIAN KLIPVOLT

Used to eliminate overload voltage peaks present in silicon rectifier circuits. Voltage suppression by use of Klipvolt units will increase reliability of rectifier circuits, without affecting circuit operation and at lower overall cost. To aid in selection of proper Klipvolt units request Stock No. 25A119 Booklet at NO CHARGE.

Single-Phase Non-Polarized For use in AC circuits. Avg. wt. 3 oz. Polarized Klipvolt Suppressors For use in DC circuits. Avg. wt. 3 oz.
Order by Stk. No. 17C146 and Mfg. No. Order by Stk. No. 17C146 and Mfg. No.

Mfg. No.	RMS Volts	Amps	Size L. W.	1-9 Each	10-99 Each	Mfg. No.	DC Volts	Amps	Size L. W.	1-9 Each	10-99 Each
S-487	35	2.5	1 1/8 x 1	\$0.87	\$0.78	S-550	27	5.5	1 1/8 x 1	\$0.71	\$0.84
S-490	140	2.5	1 1/8 x 1	1.83	1.65	S-550A	27	11.0	1 1/8 x 1 1/2	.94	.85
S-490A	140	4.5	1 1/8 x 1 1/2	2.62	2.36	S-553A	108	11.0	1 1/8 x 1 1/2	1.66	1.49
S-490B	140	8.0	1 1/8 x 1 1/2	3.36	3.02	S-553B	108	20.0	1 1/8 x 1 1/2	2.08	1.87
S-493	280	2.5	2 1/8 x 1	3.11	2.80	S-556	189	5.5	1 1/8 x 1	1.67	1.50

Also available up to 600 volts

Ohmite Power Resistors

3 1/4 - 5-11 WATT SERIES 99 MOLDED RESISTORS



Compact, wire wound vitreous enameled resistors offer the convenience of axial tinned wire leads. Especially suited for printed circuit, terminal board, and point-to-point wiring applications.

Standard tolerance is 5%, 3 1/4 watt size is 1 1/8" L. x 3/8" dia. 5 watt size is 1 1/8" L. x 3/8" dia. 11 watt size is 1 1/8" L. x 3/8" dia.

Specify Stock No. and Resistance on orders

Ohms	Ohms	Ohms	Ohms	Ohms	Ohms	Ohms
1	22	82	400	1200	5000	18,000
1.5	25	100	470	1500	5600	20,000
2	27	120	500	1800	6000	22,000
3	30	150	560	2000	6800	25,000
4	33	180	600	2200	7000	27,000
5	39	200	680	2500	7500	30,000
7.5	40	220	700	2700	8000	33,000
10	47	250	750	3000	8200	39,000
12	50	270	800	3300	9000	40,000
15	56	300	820	3900	10,000	47,000
18	68	330	900	4000	12,000	50,000
20	75	390	1000	4700	15,000	

3 1/4-WATT AXIAL-LEAD RESISTORS. In values from 1 to 10,000 ohms. Specify Stk. No. 15A1016 and Resistance Value when ordering.

Value	1-9 Ea.	10-24 Ea.	25-99 Ea.	100-249 Ea.
1 to 1000 ohms	.59	.50	.41	.35
1200 to 5000 ohms	.62	.53	.43	.37
5600 to 10,000 ohms	.66	.56	.46	.40

5-WATT AXIAL-LEAD RESISTORS. Available in above values from 1 Ohm to 25,000 Ohms. Specify Stk. No. 15A1017 and Resistance Value when ordering.

Value	1-9 Ea.	10-24 Ea.	25-99 Ea.	100-249 Ea.
1 to 1000 ohms	.62	.53	.43	.37
1200 to 5000 ohms	.66	.56	.46	.40
5600 to 10,000 ohms	.70	.60	.49	.42
12,000 to 20,000 ohms	.78	.66	.55	.47
22,000 to 25,000 ohms	.82	.70	.57	.49

11-WATT AXIAL-LEAD RESISTORS. In values from 1 to 50,000 Ohms. Specify Stk. No. 15A1018 and Resistance Value when ordering.

Value	1-9 Ea.	10-24 Ea.	25-99 Ea.	100-249 Ea.
1 to 1000 ohms	.68	.58	.48	.41
1200 to 5000 ohms	.73	.62	.51	.44
5600 to 10,000 ohms	.84	.71	.59	.50
12,000 to 20,000 ohms	.95	.81	.67	.57
22,000 to 40,000 ohms	1.00	.85	.70	.60
47,000 to 50,000 ohms	1.12	.95	.78	.67

OHMITE 8-12-20 WATT "BROWN DEVILS"

WITH NEW HIGHER RATINGS



Small size wire wound units with wire leads for convenient mounting. Extra sturdy, vitreous enameled coating provides lasting protection from humidity and mechanical damage. Tolerance is $\pm 5\%$. Sizes: 8 watt 1 x 1/8", 12 watt 1 3/4 x 3/8", 20 watt 2 x 3/8".

Specify Stock No. and Resistance on all orders.

Ohms	Ohms	Ohms	Ohms	Ohms	Ohms	Ohms
.5*	25	300	1100†	4500	13,500*†	50,000
1	30†	350	1200	5000	15,000	55,000
1.5†	35†	400	1250	6000	16,000*†	60,000
2	40†	450†	1500	7000	17,500†	65,000
3	50	500	1750	7500	18,000*†	70,000
4	75	600†	2000	8000	20,000	75,000
5	100	650*†	2250	8500*†	22,500†	80,000
7.5†	125†	700	2500	9000	25,000	85,000
10	150	750	2750*†	10,000	30,000	90,000
12†	200	800	3000	11,000*†	35,000	95,000
15†	225†	900	3500	12,000*†	40,000	100,000
20†	250	1000	4000	12,500	45,000	

8-WATT, FORMERLY 5-WATT "BROWN DEVILS". Values from 1 Ohm to 25,000 Ohms except values marked †. Specify Stk. No. 15B1023 and value.

Value	1-9 Ea.	10-24 Ea.	25-99 Ea.	100-249 Ea.
1 to 1000 Ohms	.52	.44	.36	.31
1100 to 5000 Ohms	.55	.47	.39	.33
6000 to 10,000 Ohms	.58	.49	.41	.35
12,500 to 20,000 Ohms	.65	.55	.46	.39
22,500 to 25,000 Ohms	.68	.58	.48	.41

12-WATT, FORMERLY 10-WATT "BROWN DEVILS". Values from .5 Ohm to 50,000 ohms except those values marked †. Specify Stk. No. 15B1006 and value when ordering.

Value	1-9 Ea.	10-24 Ea.	25-99 Ea.	100-249 Ea.
.5 to 1000 Ohms	.57	.48	.40	.34
1100 to 5000 Ohms	.61	.52	.43	.37
6000 to 10,000 Ohms	.70	.60	.49	.42
11,000 to 20,000 Ohms	.79	.67	.55	.47
22,500 to 40,000 Ohms	.83	.71	.58	.50
45,000 & 50,000 Ohms	.93	.79	.65	.56

20-WATT "BROWN DEVILS". Available in above values from .5 Ohm to 100,000 Ohms except values marked †. Specify Stk. No. 15B1010 and value.

Value	1-9 Ea.	10-24 Ea.	25-99 Ea.	100-249 Ea.
.5 Ohms	.95	.81	.67	.57
1 to 1000 Ohms	.68	.58	.48	.41
1200 to 5000 Ohms	.70	.60	.49	.42
6000 to 10,000 Ohms	.83	.71	.58	.50
12,500 to 20,000 Ohms	.85	.72	.60	.51
25,000 to 40,000 Ohms	.99	.84	.69	.59
45,000 to 60,000 Ohms	1.15	.98	.81	.69
65,000 to 80,000 Ohms	1.37	1.16	.96	.82
85,000 to 100,000 Ohms	1.57	1.33	1.10	.94

OHMITE DIVIDOHMS

Vitreous enameled over resistance wound on ceramic core. Dividohm supplied with one slider and two mounting brackets. Tolerance $\pm 10\%$. Specify Stock No. and Resistance on all orders.



10, 25 AND 50-WATT VALUES

Ohms	Ohms	Ohms	Ohms	Ohms	Ohms	Ohms
1	20†	300	1250	4500	10,000	60,000
2	25	350†	1500	5000	12,000	80,000
3	50	400	2000	6000	15,000	100,000
4†	75	500	2250	7000	20,000	
5	100	600†	2500	7500	25,000	
7.5†	150	750	3000	8000	30,000	
10	200	800	3500	8500†	40,000	
15†	250	1000	4000	9000	50,000	

10-WATT ADJUSTABLE DIVIDOHM. Size 1 3/4 x 3/8". Wt. 2 oz. Available in above values from 1 Ohm to 10,000 Ohms except values marked †. Specify Stk. No. 15B1011 and Value when ordering.

Value	1-9 Ea.	10-24 Ea.	25-99 Ea.	100-249 Ea.
1 to 1000 Ohms	1.14	.97	.80	.68
1250 to 5000 Ohms	1.18	1.00	.83	.71
6000 to 10,000 Ohms	1.27	1.08	.89	.76

25-WATT ADJUSTABLE DIVIDOHM. Size 2 x 3/8". Wt. 2 oz. Available in above values from 1 Ohm to 25,000 Ohms, except values marked †. Specify Stock No. 15B1501 and Value when ordering.

Value	1-9 Ea.	10-24 Ea.	25-99 Ea.	100-249 Ea.
1 to 1000 Ohms	1.29	1.10	.90	.77
1250 to 5000 Ohms	1.32	1.12	.92	.79
6000 to 10,000 Ohms	1.42	1.21	.99	.85
12,000 to 20,000 Ohms	1.47	1.25	1.03	.88
25,000 Ohms	1.61	1.37	1.13	.97

50-WATT ADJUSTABLE DIVIDOHM. Size 4 x 3/8". Wt. 4 oz. Available in above values from 1 ohm to 100,000 Ohm except values marked †. Specify Stock No. 15B1506 and Value when ordering.

Value	1-9 Ea.	10-24 Ea.	25-99 Ea.	100-249 Ea.
1 Ohm	2.12	1.80	1.48	1.27
2 to 1000 Ohms	1.68	1.43	1.18	1.01
1250 to 5000 Ohms	1.71	1.45	1.20	1.03
6000 to 10,000 Ohms	1.80	1.53	1.26	1.08
12,000 to 20,000 Ohms	1.92	1.63	1.34	1.15
25,000 to 40,000 Ohms	2.11	1.79	1.48	1.27
50,000 to 60,000 Ohms	2.29	1.95	1.60	1.37
80,000 Ohms	2.54	2.16	1.78	1.52
100,000 Ohms	2.70	2.30	1.89	1.62

100 AND 200-WATT VALUES

Ohms	Ohms	Ohms	Ohms	Ohms	Ohms
1	5	100	1500	15,000	40,000
2	10	250	2500	20,000	50,000
3	25	500	5000	25,000	75,000
4	50	1000	10,000	30,000	100,000

100-WATT ADJUSTABLE DIVIDOHM. Size 6 1/2" x 3/4". Wt. 8 oz. Available in above values. Specify Stock No. 15B1508 and Value when ordering.

Value	1-9 Ea.	10-24 Ea.	25-99 Ea.	100-249 Ea.
1 to 3 Ohms	2.73	2.32	1.91	1.64
4 to 1000 Ohms	2.11	1.79	1.48	1.27
1500 to 5000 Ohms	2.17	1.84	1.52	1.30
10,000 Ohms	2.30	1.96	1.61	1.38
15,000 to 20,000 Ohms	2.44	2.07	1.71	1.46
25,000 to 40,000 Ohms	2.70	2.30	1.89	1.62
50,000 Ohms	2.78	2.36	1.95	1.67
75,000 Ohms	3.02	2.57	2.11	1.81
100,000 Ohms	3.22	2.82	2.32	1.99

200-WATT ADJUSTABLE DIVIDOHM. Size 10 1/2" x 1 1/8". Wt. 1 lb. Available in above values. Specify Stock No. 15B1512 and Value when ordering.

Value	1-9 Ea.	10-24 Ea.	25-99 Ea.	100-249 Ea.
1 to 5 Ohms	4.32	3.67	3.02	2.59
10 to 1000 Ohms	3.34	2.84	2.34	2.00
1500 to 5000 Ohms	3.41	2.90	2.39	2.05
10,000 Ohms	3.59	3.05	2.51	2.15
15,000 to 20,000 Ohms	3.77	3.20	2.64	2.26
25,000 to 40,000 Ohms	3.86	3.28	2.70	2.32
50,000 Ohms	3.96	3.37	2.77	2.38
75,000 Ohms	4.14	3.52	2.90	2.48
100,000 Ohms	4.34	3.69	3.04	2.60

ADJUSTABLE BANDS FOR DIVIDOHMS

Screwdriver type adjustables lugs for above power resistors. Has silver contact button.

Stk. No.	For	1-9 Ea.	10-24 Ea.	25-99 Ea.
15A1012	10 Watt Size	.14	.12	.10
15A1014	25 & 50 Watt Size	.14	.12	.10
15A1015	100 Watt Size	.14	.12	.10
15A1528	200 Watt Size	.23	.20	.16

OHMITE LITTLE DEVIL RESISTOR ASSORTMENT

Molded plastic cabinet with all selected resistors for serviceman and builder. 40 values from 10 ohm to 10 Megohm. Cabinet has five drawers with eight compartments each for quick and easy visual check on stock. Size 9" long, 4 3/4" high and 5 1/4" deep.

No. 33B143. CAB-4 Assmt. **\$19.50**
 150 1/4-Watt. EACH
 No. 33B137. CAB-10 Assmt. **\$18.00**
 150 1/2-Watt. EACH
 No. 33B138. CAB-2 Assmt. **\$22.50**
 125 1-Watt. EACH
 No. 33B136. CAB-3 Assmt. **\$30.00**
 125 2-Watt. EACH



Shpg. wt. 5 lbs.

Composition & Precision Resistors

OHMITE "LITTLE DEVIL" RESISTORS



Molded insulated composition resistors in four sizes, 1/4, 1/2, 1 and 2 watts. Tiny in size but have exceptional ruggedness, stability and current carrying capacity. All "Little Devils" are EIA color coded. Meet all test requirements of Mil-R-11, including salt water immersion and high humidity tests. Have high insulation break-down voltage, low noise level, low voltage co-efficient. Can be used at their full wattage ratings at 70° C (158° F) ambient temperature and dissipate heat rapidly.

EIA VALUES—Specify Stock No. and Resistance

Ohms	Ohms	Ohms	Ohms	Ohms	Megohms	Megohms
1/4, 1/2 and 1-Watt Size Only	10	82	680	5,600	47,000	0.39 3.3
	12	100	820	6,800	56,000	0.47 3.9
	15	120	1,000	8,200	68,000	0.56 4.7
	18	150	1,200	10,000	82,000	0.68 5.6
	22	180	1,500	12,000	0.1 Meg.	0.82 6.8
	27	220	1,800	15,000	0.12 Meg.	1.00 8.2
	33	270	2,200	18,000	0.15 Meg.	1.2 10.0
	39	330	2,700	22,000	0.18 Meg.	1.5 12.0
	47	390	3,300	27,000	0.22 Meg.	1.8 15.0
	56	470	3,900	33,000	0.27 Meg.	2.2 18.0
	68	560	4,700	39,000	0.33 Meg.	2.7 22.0

Quantity prices apply to One Value Only.

1-4	5-49	50-99	100-249	250-499	500-999	1000 Over
Each	Each	Each	Each	Each	Each	Each

No. 15A1003. 1/4 Watt 10% 2.7 Ohms to 22 Ohms 27 Ohms to 22 Meg.	.14	.12	.077	.055	.055	.044	.037
No. 15A1002. 1/2 Watt, 10%	.12	.10	.06	.05	.04	.032	.03
No. 15A1004. 1 Watt, 10%	.18	.15	.09	.06	.055	.05	.045
No. 15A1005. 2 Watt, 10%	.24	.20	.15	.11	.096	.088	.082

OHMITE OHMS LAW CALCULATORS



Pocket size slide rule with parallel resistance scale and standard slide rule scales A, B, C and D on one side and Ohms Law Calculator with full instructions on the other side.

No. 14B25. NET EACH

25c

Durable Plastic Model. Same as above but impervious to wear.

No. 14B304. NET EACH

\$1.50



COLOR CODE GUIDE FOR RESISTORS. Here is one of the handiest Color Code Guides for Resistors ever devised. Standard EIA. range is automatically and accurately indicated.

No. 16A116. Each

10c

IRC PRECISION RESISTORS TYPE CE



Evaporated metal film series in 1/8, 1/4, 1/2 watt sizes. Has special moisture resistant M-coat identified by its gray color. Leads 1 1/2" long, alloy coated for positive trouble-free soldering, especially desirable in dip soldering to printed circuits. Has very low noise level. Power ratings based on 125° C ambient. Resistance tolerance 1%.

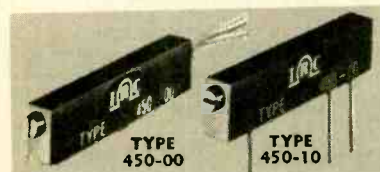
Stock No.	IRC Type	Watts	Ohms Range	Price Each				
				1-24	25-99	100-249	250-999	1000-50
42B2	CEA	1/8	10-99	\$0.99	\$0.46	\$0.32	\$0.21	\$0.18
42B2	CEA	1/8	100-500K	.85	.44	.30	.17	.14
42B7	CEB	1/4	10-99	.99	.46	.32	.21	.18
42B7	CEB	1/4	100-1 Meg.	.85	.44	.30	.17	.14
42B4	CEC	1/2	10-99	.99	.46	.32	.21	.18
42B4	CEC	1/2	100-1.5 Meg.	.54	.28	.21	.11	.095

Order by stock number and resistance value. Use the decade chart of values below as a guide, multiply by 10, 100, 1000, etc. to higher values. Each resistor listing shows the lower and upper limits available. *Preferred values.

STANDARD DECADE OF RESISTANCE VALUES

1.00*	1.33*	1.78*	2.37*	3.16*	4.22*	5.62*	7.50*
1.02	1.37	1.82	2.43	3.24	4.32	5.76	7.68
1.05	1.40	1.87	2.49	3.32	4.42	5.90	7.87
1.07	1.43	1.91	2.55	3.40	4.53	6.04	8.06
1.10*	1.47*	1.96*	2.61*	3.48*	4.64*	6.19*	8.25*
1.13	1.50	2.00	2.67	3.57	4.75	6.34	8.45
1.15	1.54	2.05	2.74	3.65	4.87	6.49	8.67
1.18	1.58	2.10	2.80	3.74	4.99	6.65	8.87
1.21*	1.62*	2.15*	2.87*	3.83*	5.11*	6.81*	9.09*
1.24	1.65	2.21	2.94	3.92	5.23	6.98	9.31
1.27	1.69	2.26	3.01	4.02	5.36	7.15	9.53
1.30	1.74	2.32	3.09	4.12	5.49	7.32	9.76

IRC NEW RECTANGULAR METAL GLAZE INFINITE RESOLUTION TRIMMER



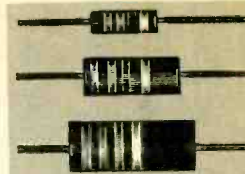
Model 450 in compact RJ-12 package is ideal for printed board design. Meets MIL-R-22097 specs. It is small, lightweight, 1 1/4" long, .19" wide, .315" high. Has leads type 450-00 or pins 450-10. Offers infinite resolution, Metal Glaze reliability, mechanical stability, exceptional high frequency characteristics and higher resistance values. Tolerance

10%—electrical rotation 22 turns, has stops and slip clutch—1/2 watt, 300 volts. Order by stock number and resistance. Choice of 100, 200, 500, 1,000, 2,000, 5,000, 10,000, 20,000, 50,000, 100,000, 200,000, 500,000 ohms and 1 Meg.

No. 43A166. Type 450-00. Choice 1-9 10-24 25-49 50-99 100-249
No. 43A167. Type 450-10. Each \$5.00 \$4.50 \$4.17 \$3.92 \$3.75

IRC CARBON INSULATED RESISTORS

5% and 10%, 1/4, 1/2, 1, 2-Watt Sizes B-A offers low manufacturers' net prices in quantities listed below to industrial, design engineering, laboratory, manufacturing, and other accounts who have need for top quality, color-coded, insulated resistors. Conform 100% to EIA code, JAN and MIL-R-11 specifications in both 1/4, 1/2 and 1 watt types, and in 2 watt sizes from 100 ohm to 1 meg. Every value listed is in Kansas City stock for immediate delivery in quantity. Sizes: 1/2-watt 3/8" x 1/4" x 1/8"; 1-watt 3/8" x 1/4" x 1/8"; 2-watt 1/2" x 1/4" x 1/8". Net prices quoted apply to a single value only. However, 100 or more total may be assorted for maximum quantity price in any combination of wattages or tolerances, providing 50 minimum of each value is ordered. All values listed below are in stock in 5% tolerance. 10% tolerance values available only in values listed in bold face.



Ohms	Ohms	Ohms	Ohms	Ohms	Meg.	Meg.	Meg.
These	10	68	470	3300	22,000	0.15	1.00
Values	11	75	510	3600	24,000	0.16	1.1
in	12	82	560	3900	27,000	0.18	1.2
GBT 1/2,	13	91	620	4300	30,000	0.20	1.3
GBT 1,	15	100	680	4700	33,000	0.22	1.5
2.7	16	110	750	5100	36,000	0.24	1.6
3.0	18	120	820	5600	39,000	0.27	1.8
3.3	20	130	910	6200	43,000	0.30	2.0
3.6	22	150	1000	6800	47,000	0.33	2.2
3.9	24	160	1100	7500	51,000	0.36	2.4
4.3	27	180	1200	8200	56,000	0.39	2.7
4.7	30	200	1300	9100	62,000	0.43	3.0
5.1	33	220	1500	10,000	68,000	0.47	3.3
5.6	36	240	1600	11,000	75,000	0.51	3.6
6.2	39	270	1800	12,000	82,000	0.56	3.9
6.8	43	300	2000	13,000	91,000	0.62	4.3
7.5	47	330	2200	15,000	0.1 Meg.	0.68	4.7
8.2	51	360	2400	16,000	0.11 Meg.	0.75	5.1
9.1	56	390	2700	18,000	0.12 Meg.	0.82	5.6
	62	430	3000	20,000	0.13 Meg.	0.91	6.2

Stock No.	Type & Wattage	Tol.	1-9	10-49	50-99	100-249	250-499	500-999	1000
			Each	Each	Each	Each	Each	Each	Each
15B1027	GBT-1/4	5%	.26	.22	.19	.11	.095	.08	.065
15B1028	GBT-1/4	10%	.13	.11	.09	.06	.05	.043	.038
15B1000	GBT-1/2	5%	.24	.22	.19	.129	.086	.072	.045
15B1024	GBT-1/2	10%	.12	.10	.075	.06	.043	.032	.023
15B1001	GBT-1	5%	.36	.32	.28	.194	.145	.125	.085
15B1025	GBT-1	10%	.18	.15	.11	.097	.065	.058	.04
15A1007	SR-2	5%	.48	.43	.37	.259	.216	.204	.15
15A1008	SR-2	10%	.24	.22	.19	.129	.108	.102	.08

IMPORTANT: Specify Stk. No., Value, Wattage and Tolerance when ordering.

IRC BWH MOLDED WIRE-WOUND RESISTORS

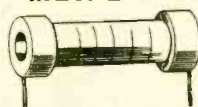
The new IRC BWH resistor gives exceptional stability, reliability and long term life characteristics of a wire-wound unit, and provides low ohmage resistances not available in composition resistors. This one resistor can be used as a 1/2-watt resistor at 137° C. ambient, a 1-watt resistor at 115° C. ambient, or as a 2-watt resistor at 70° C. ambient. Meets or exceeds all MIL-R-11C performance requirements. Size is the same as the GBT-1 watt resistor above, .225" dia. x .562" long, with 1 1/2" pigtailed. Insulation is plastic housing molded with IRC's exclusive thermosetting materials. Noise and shelf drift are negligible. All values listed below are available in 5% tolerance, those in bold face are 10% values.

Ohms	Ohms	Ohms	Ohms	Ohms	Ohms	Ohms	Ohms
0.24	0.75	2.4	7.5	24	75	240	750
0.27	0.82	2.7	8.2	27	82	270	820
0.30	0.91	3.0	9.1	30	91	300	910
0.33	1.0	3.3	10	33	100	330	1000
0.36	1.1	3.6	11	36	110	360	1100
0.39	1.2	3.9	12	39	120	390	1200
0.43	1.3	4.3	13	43	130	430	1300
0.47	1.5	4.7	15	47	150	470	1500
0.51	1.6	5.1	16	51	160	510	
0.56	1.8	5.6	18	56	180	560	
0.62	2.0	6.2	20	62	200	620	
0.68	2.2	6.8	22	68	220	680	

No. 15A1009. Type BWH 5% Tol.	1-99	100-249	250-499	500-999
	Each	Each	Each	Each
0.24 ohms to 9.1 ohms	\$0.48	\$0.285	\$0.189	\$0.143
10 ohms to 1000 ohms	.30	.18	.12	.09
1100 to 1500 ohms	.33	.198	.132	.099
No. 15A1019. Type BWH 10% Tol.				
0.27 ohms to 8.2 ohms	.24	.144	.096	.064
10 ohms to 1000 ohms	.18	.108	.072	.058
1200 & 1500 ohms	.18	.108	.072	.058

IMPORTANT: Specify Stock No., Value and Tolerance When Ordering.

METAL FILM PRECISION RESISTORS



Plus or minus 1% precision resistors. NR20-1/2 Watt, NR25-1 Watt. Negligible noise characteristics. Resistance element is a Metal Film, containing no carbon, deposited on surface of low-loss ceramic tube and hermetically sealed with a uniform vitreous enamel coating capable of withstanding temp. to 400° F. 1 1/2" tinned copper leads.

15A110. 1 Watt NR25. Size 7/8 x 1 1/2".
1 Ohm-1 Meg. Each \$1.15
1.5 Meg.-5 Meg. Each \$1.44

ACCURACY ±1%			
Ohms	Ohms	Ohms	Ohms
1	400	20000	.3 Meg
5	500	25000	.5 Meg
7.5	750	30000	.75 Meg
10	1000	40000	1.0 Meg
15	1500	50000	1.5 Meg
20	2000	60000	2.0 Meg
25	2500	75000	2.5 Meg
50	3000	90000	3.0 Meg
75	5000	.1 Meg	5.0 Meg
100	7500	.15 Meg	
200	10000	.20 Meg	
300	15000	.25 Meg	

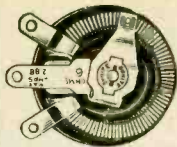
No. 15A130. 1/2 Watt NR20. 5/8 x 1 1/2".
1 Ohm-1 Meg. Each \$1.15
1.5 Meg.-3 Meg. Each \$1.15

Large Users Please Contact B-A for Quantity Prices Not Shown on Any Above Items

Industrial Controls & Power Rheostats

OHMITE POWER RHEOSTATS

MINIATURE MODEL "E"



Designed to produce permanently smooth, close control. Construction is all ceramic and metal with pivoted universal-action-mounted contact brush of copper-graphite or silver-graphite on the heavier current rheostats. Mounting for panels up to 1/4" by means of 3/8"-32 bushing and hex nut (except Model E). Avg. shpg. wt. 1/2 lb. Supplied less knob and dial plate.

MODEL "E" 12 1/2 WATT

Dia. 7/8". Depth 1 1/2". Shaft 1/8". 1/4"-32 bushing. Uses No. 5151 knob and No. 5007 dial plate.

Stk. No.	Ohms	Each	1-4	5-9	10-24
148808	1	\$4.63	\$3.94	\$3.10	
148809	10	4.63	3.94	3.10	
148810	15	4.11	3.49	2.75	
148811	25	4.11	3.49	2.75	
148812	50	4.11	3.49	2.75	
148813	100	4.11	3.49	2.75	
148814	250	4.11	3.49	2.75	
148815	500	4.11	3.49	2.75	
148816	1000	4.63	3.94	3.10	
148817	2500	4.63	3.94	3.10	
148818	5000	4.90	4.17	3.28	
148819	7500*	5.06	4.30	3.39	
148820	10000*	5.06	4.30	3.39	
148821	15000*	5.06	4.68	3.69	
148822	20000*	6.16	5.24	4.13	
148823	25000*	6.82	5.80	4.57	

MODEL "H", 25-WATT

Dia. 1 1/8". Depth 1 3/8". Shaft 1/4". 3/8"-32 bushing. Uses No. 5150 knob and No. 5000 dial plate.

Stk. No.	Ohms	Each	1-4	5-9	10-24
14A700	1	\$4.63	\$3.94	\$3.10	
14A701	3	4.63	3.94	3.10	
14B773	10	4.63	3.94	3.10	
14B774	25	4.11	3.49	2.75	
14B775	50	4.11	3.49	2.75	
14B776	100	4.11	3.49	2.75	
14B777	250	4.11	3.49	2.75	
14B778	500	4.11	3.49	2.75	
14B779	1000	4.63	3.94	3.10	
14B780	2500	4.63	3.94	3.10	
14B781	5000	4.90	4.17	3.28	
14B823	10000*	5.06	4.30	3.39	
14B824	15000*	5.50	4.68	3.69	
14B825	20000*	6.16	5.24	4.13	
14B826	25000*	6.82	5.80	4.57	

MODEL "J", 50-WATT

Dia. 2 3/8". Depth 1 3/8". Shaft 1/4". 3/8"-32 bushing. Uses No. 5150 knob and No. 5000 dial plate.

Stk. No.	Ohms	Each	1-4	5-9	10-24
14A702	1	\$5.15	\$4.38	\$3.45	
14A703	4	5.15	4.38	3.45	
14A711	16	4.63	3.94	3.10	
14A704	35	4.63	3.94	3.10	
14A712	50	4.63	3.94	3.10	
14A705	80	4.63	3.94	3.10	
14A706	150	4.63	3.94	3.10	
14A707	300	4.63	3.94	3.10	
14B782	500	4.63	3.94	3.10	
14B784	1000	4.90	4.17	3.28	
14B785	2500	4.90	4.17	3.28	
14B786	5000	5.15	4.38	3.45	
14B787	10000	5.15	4.38	3.45	
14C719	15000*	5.83	4.96	3.91	
14C720	20000*	6.60	5.61	4.42	
14C721	25000*	7.26	6.17	4.86	
14C722	30000*	8.03	6.83	5.38	
14C723	40000*	9.35	7.95	6.26	
14C724	50000*	10.23	8.70	6.85	

*Silicone-Ceramic Coating

KNOBS AND DIAL PLATES

Stk. No.	Type	1-4	5-9	10-24
14A849	5151 Knob	29c	25c	19c
14A850	5150 Knob	29c	25c	19c
14A872	5007 Plate	29c	25c	19c
14A873	5000 Plate	29c	25c	19c

MODEL "K", 100-WATT

Dia. 3 3/8". Depth 1 3/4". Shaft 1/4". 3/8"-32 bushing. Uses No. 5150 knob and No. 5000 dial plate.

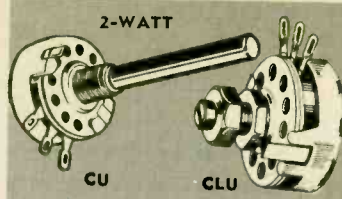
Stk. No.	Ohms	Each	1-4	5-9	10-24
14A960	1	\$7.72	\$6.56	\$5.17	
14A961	5	7.72	6.56	5.17	
14A962	10	7.72	6.56	5.17	
14A963	25	7.21	6.13	4.83	
14A964	50	7.21	6.13	4.83	
14A965	100	7.21	6.13	4.83	
14A966	200	7.21	6.13	4.83	
14A967	300	7.21	6.13	4.83	
14A968	500	7.21	6.13	4.83	
14A969	1000	7.72	6.56	5.17	
14A970	2000	7.72	6.56	5.17	

MODEL "L", 150 WATT

Dia. 4". Depth 2". Shaft 1/4". 3/8"-32 bushing. Uses No. 5150 knob and No. 5000 dial plate.

Stk. No.	Ohms	Each	1-4	5-9	10-24
14B788	1	\$9.78	\$8.31	\$6.55	
14B789	5	9.78	8.31	6.55	
14B790	10	9.78	8.31	6.55	
14B791	15	9.78	8.31	6.55	
14B792	25	9.26	7.87	6.20	
14B793	50	9.26	7.87	6.20	
14B794	100	9.26	7.87	6.20	
14B796	150	9.26	7.87	6.20	
14B797	250	9.26	7.87	6.20	
14B798	500	9.26	7.87	6.20	
14B799	1800	10.30	8.76	6.90	
14B800	3000	10.30	8.76	6.90	
14B807	10000	12.35	10.50	8.27	

OHMITE MOLDED COMPOSITION CONTROLS



Used in commercial and military electronic applications where highest quality and dependability are most important. Type AB style, rated at 2 watts at 70 degrees C. ambient. Resistance element is a thick, solid molded ring for longer life and smoother operation. All units are dust and splash proof, fungus and corrosion resistant, meet all specs. of MIL-R-94. Type CMU military designation RV4NAYS; CLU, RV4LAYS. All are 1 1/2" dia., 1/4" dia. shafts. CU has 2" round shaft, CMU has 7/8" slotted shaft. CLU has 5/8" slotted shaft with locking nut. Shpg. wt. 3 oz. All units are linear taper.

LINEAR TAPER, TYPE CU

Stk. No.	Resistance	Ohmite No.
14A866	50 Ohms	CU5001
14A865	100 Ohms	CU1011
14A983	150 Ohms	CU1511
14A864	250 Ohms	CU2511
14A984	350 Ohms	CU3511
14A863	500 Ohms	CU5011
14B985	750 Ohms	CU7511
14A862	1,000 Ohms	CU1021
14A986	1,500 Ohms	CU1521
14A861	2,500 Ohms	CU2521
14A987	3,500 Ohms	CU3521
14A860	5,000 Ohms	CU5021
14A988	7,500 Ohms	CU7521
14A859	10,000 Ohms	CU1031
14A989	15,000 Ohms	CU1531
14A858	25,000 Ohms	CU2531
14A990	35,000 Ohms	CU3531
14A857	50,000 Ohms	CU5031
14A943	75,000 Ohms	CU7531
14A856	.10 Meg	CU1041
14A944	.15 Meg	CU1541
14A855	.25 Meg	CU2541
14A945	.35 Meg	CU3541
14A854	.5 Meg	CU5041
14A946	.75 Meg*	CU7542
14A853	1.0 Meg*	CU1052
14A852	2.5 Meg*	CU2552
14A851	5.0 Meg*	CU5052

LINEAR TAPER, TYPE CLU

Stk. No.	Resistance	Ohmite No.
14B827	50 Ohms	CLU5001
14B828	100 Ohms	CLU1011
14A947	150 Ohms	CLU1511
14B829	250 Ohms	CLU2511
14A948	350 Ohms	CLU3511
14B830	500 Ohms	CLU5011
14A949	750 Ohms	CLU7511
14B831	1,000 Ohms	CLU1021
14A950	1,500 Ohms	CLU1521
14B832	2,500 Ohms	CLU2521
14A991	3,500 Ohms	CLU3521
14B833	5,000 Ohms	CLU5021
14A992	7,500 Ohms	CLU7521
14B834	10,000 Ohms	CLU1031
14A993	15,000 Ohms	CLU1531
14B835	25,000 Ohms	CLU2531
14A994	35,000 Ohms	CLU3531
14B836	50,000 Ohms	CLU5031
14A995	75,000 Ohms	CLU7531
14B837	.10 Meg	CLU1041
14A996	.15 Meg	CLU1541
14B838	.25 Meg	CLU2541
14A997	.35 Meg	CLU3541
14B839	.5 Meg	CLU5041
14A998	.75 Meg*	CLU7542
14B840	1.0 Meg*	CLU1052
14B841	2.5 Meg*	CLU2552
14B842	5.0 Meg*	CLU5052

Your Choice Each Type CU

1-9	10-49	50-99	100 Up
\$1.95	\$1.75	\$1.62	\$1.46

Your Choice Each Type CLU

1-9	10-49	50-99	100 Up
\$2.55	\$2.29	\$2.12	\$1.90

Type CMU

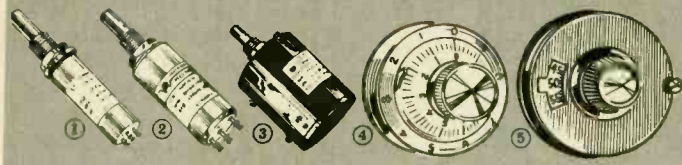
Stk. No.	Resistance	Ohms	Type CMU
14A909	50 Ohms	50	CMU5001
14A910	100 Ohms	100	CMU1011
14A911	150 Ohms	150	CMU1511
14A912	250 Ohms	250	CMU2511
14A913	350 Ohms	350	CMU3511
14A914	500 Ohms	500	CMU5011
14A915	750 Ohms	750	CMU7511
14A916	1,000 Ohms	1,000	CMU1021
14A917	1,500 Ohms	1,500	CMU1521
14A918	2,500 Ohms	2,500	CMU2521
14A919	3,500 Ohms	3,500	CMU3521
14A920	5,000 Ohms	5,000	CMU5021
14A921	7,500 Ohms	7,500	CMU7521
14A922	10,000 Ohms	10,000	CMU1031
14A923	15,000 Ohms	15,000	CMU1531
14A924	25,000 Ohms	25,000	CMU2531
14A925	35,000 Ohms	35,000	CMU3531
14A926	50,000 Ohms	50,000	CMU5031
14A927	75,000 Ohms	75,000	CMU7531
14A928	.1 Meg	.1	CMU1041
14A929	.15 Meg	.15	CMU1541
14A930	.25 Meg	.25	CMU2541
14A931	.35 Meg	.35	CMU3541
14A932	.5 Meg	.5	CMU5041
14A933	.75 Meg*	.75	CMU7542
14A934	1.0 Meg*	1.0	CMU1052
14A935	2.5 Meg*	2.5	CMU2552
14A936	5.0 Meg*	5.0	CMU5052

*Indicates 20% tolerance, all others are 10%.

Choice

Each	1-9	10-49	50-99	100 Up
No.	\$1.95	\$1.75	\$1.62	\$1.46
No. 14A875. CS-1 S.P.S.T. Switch for above.				68c

IRC MULTI-TURN PRECISION POTENTIOMETER AND "REVODEX" DIALS



Precision, high reliability multiturn controls. Features close resistance and linearity tolerance.

① Model 5000. Sub-miniature precision pot, 10-turn, 1.5 watts, only 1/2" dia., 1 1/8" L. Res. tolerance 10%, linearity tol. 1.0%. 1/4" shaft, 1/2" long. Available in following values: 100, 500, 1K, 5K, 10K, 25K, and 50K ohms. No. 42B40. Model 5000. Net Each. **\$10.00**

② Model 7500. Miniature precision pot, 10-turn, 3 watts, 3/4" dia., 1 1/8" long. Res. tolerance 5%, linearity tol. 0.5%. 1/4" shaft, 1/2" long. Available in following values: 100, 250, 500, 1K, 5K, 10K, 25K, 50K, 100K ohms. No. 42B42. Model 7500. Net Each. **\$12.**

Replacement Controls, L & T Pads

MALLORY VW 5-WATT Wire-Wound Controls

Miniature type with only a 3/4" diameter body. Ideal for applications where space is at a premium. Linear taper, 10% tolerance, mechanical rotation 305 degrees, electrical 275 degrees. Breakdown voltage 900 volts AC, RMS. Has standard 3/8"-32 bushing, 3/8" long. (1/4" shaft 2" long) Supplied with mounting nut and washer. Available in resistance values listed below. Shpg. wt. 2 oz.



Res. Ohms	Mfg. No.	Res. Ohms	Mfg. No.	Res. Ohms	Mfg. No.	Res. Ohms	Mfg. No.
1	VW-1	25	VW-25	300	VW-300	3000	VW-3K
2	VW-2	30	VW-30	400	VW-400	4000	VW-4K
3	VW-3	40	VW-40	500	VW-500	5000	VW-5K
5	VW-5	50	VW-50	600	VW-600	7500	VW-7P5K
6	VW-6	60	VW-60	750	VW-750	10,000	VW-10K
8	VW-8	75	VW-75	1000	VW-1K	15,000	VW-15K
10	VW-10	100	VW-100	1500	VW-1P5K	20,000	VW-20K
15	VW-15	200	VW-200	2000	VW-2K	25,000	VW-25K
20	VW-20	250	VW-250	2500	VW-2P5K		

When Ordering Specify Stock No. 14A500 and Resistance Value.

Value	1-9 Each	10-24 Each	25-49 Each	50-99 Each	100 up Each
1 Ohm to 1000 Ohms	\$1.38	\$1.24	\$1.15	\$1.04	\$0.92
1500 Ohms to 5000 Ohms	1.40	1.30	1.20	1.08	.96
7500 Ohms and 10,000 Ohms	1.50	1.35	1.25	1.13	1.00
15,000 Ohms and 20,000 Ohms	1.58	1.40	1.30	1.17	1.04
25,000 Ohms	1.65	1.49	1.38	1.24	1.10

MALLORY MLC SUB-MINIATURE CONTROL

Only 1/2" diameter, the MLC control is ideal for replacement in most transistor portables, or anywhere an ultra-compact control is needed. Has 1/4"-32 bushing with mounting nut, 1/8" steel shaft, 1/2" long. SPST switch is rated at 2 amp 125 V. AC. Available in values listed below with or without switch, in audio or linear taper. Shpg. wt. 1 oz.

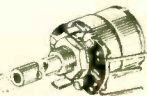


TYPE MLC LESS SWITCH				TYPE MLC WITH SWITCH			
Stk. No.	Type	Ohms	Taper*	Stk. No.	Type	Ohms	Taper*
14A933	MLC13L	1000	4	14A951	MLC222LS	2200	4
14A934	MLC252A	2500	1	14A952	MLC252AS	2500	1
14A935	MLC53A	5000	1	14A953	MLC53AS	5000	1
14A936	MLC53L	5000	4	14A954	MLC53LS	5000	4
14A937	MLC14L	10,000	4	14A955	MLC14AS	10,000	4
14A938	MLC54L	50,000	4	14A956	MLC55AS	.5 Meg	4
14A939	MLC15A	.1 Meg	1	14A957	MLC55LS	.5 Meg	4
14A940	MLC15L	.1 Meg	4	14A958	MLC16AS	1 Meg	1
14A941	MLC25L	.2 Meg	4	14A959	MLC16LS	1 Meg	4
14A942	MLC25AL	.25 Meg	4				

Your Choice, Net Each \$1.14 Your Choice, Net Each \$1.86
*Taper 1 is audio, Taper 4 is linear.
No. 12B1205. KNOB for 1/8" shaft MLC Controls. Each 10c

MALLORY CONTROLS WITH PUSH-PULL SWITCH

Push-in to turn off . . . pull-out to turn on . . . leave volume control always set at the same desired listening level. Adds amazing new operating convenience to Hi-Fi amplifier, radio or TV set. Carbon element type control is complete with push-pull SPST switch rated 3 amps at 125 volts AC.

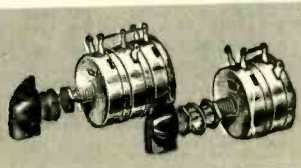


Stk. No.	Type	Resistance	Taper	Stk. No.	Type	Resistance	Taper
14B843	PP15A	100K Ohms	audio	14B846	PP55L	500 K Ohms	lin.
14B844	PP254A	250K Ohms	audio	14B847	PP16A	1 Megohm	audio
14B845	PP55A	500K Ohms	audio	14B848	PP16L	1 Megohm	lin.

Your Choice, Net Each, Control with Switch \$1.35

MALLORY "L" AND "T" & NEW "L-A" PADS

Std. 15 Audio Watts (4 watts DC) L&T pads 1 1/8" dia. L pad is 1 1/8" deep; T pad is 1 1/4" deep. Both have 1/4" shaft, 2" long with 3/8" bushing. Space-saver 10 Audio watts (3 watts DC) RL and RT pad are compactly designed. RT pad is 1 1/8" deep; RL pad is 1 1/4" deep. Both are 1 1/8" dia. with 1" bushing, 1/4" shaft, 3/8" long. All are complete with mounting hardware, knob, and dial plate.



15 WATT							
Stk. No.	Type	Resistance	Net Ea.	Stk. No.	Type	Resistance	Net Ea.
15B565	L-4	4	\$2.73	15B580	T-4	4	\$3.54
15A584	L-6	6	2.73	15A589	T-8	8	3.54
15A585	L-8	8	2.73	15A590	T-15	15	3.54
15A586	L-15	15	2.73	15B581	T-50	50	3.54
15B574	L-250	250	2.73	15B582	T-100	100	3.54
15A587	L-500	500	2.73	15B583	T-200	200	3.54
15B576	L-1000	1000	2.73	15B592	T-250	250	3.54
15A596	L-2000	2000	2.73	15A591	T-500	500	3.54
15B578	L-4000	4000	2.73	15B593	T-600	600	3.54

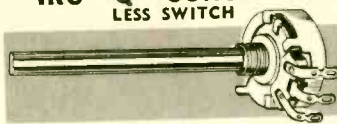
"L-A" PADS WITH 1" BUSHING, 1 1/2" SHAFT
Same as the famous Mallory L-Pad. For mounting in speaker cabinets, etc.
15A642 L8A 8 \$2.78 15A650 L16A 16 \$2.78

10 WATT							
Stk. No.	Type	Resistance	Net Ea.	Stk. No.	Type	Resistance	Net Ea.
15B454	RL4	4	\$2.52	15B460	RT4	4	\$3.33
15B455	RL8	8	2.52	15B461	RT8	8	3.33
15B456	RL16	16	2.52	15B497	RT16	16	3.33
15B457	RL50	50	2.52	15B498	RT50	50	3.33
15B458	RL250	250	2.52	15B499	RT250	250	3.33
15B459	RL500	500	2.52	15B517	RT500	500	3.33

NOTE: For Quantity Prices on above L & T Pads, subtract 5% for 10 to 24 Pieces; 10% for 25 to 49 Pieces (Not Assorted).

IRC REPLACEMENT CONTROLS

IRC "Q" CONTROLS LESS SWITCH



Standard Radio and TV replacement controls. Small size, 1 1/8" diameter with universal 3" shaft. Will meet most every replacement requirement with no additional special parts needed. Use type 76 attachable switches. Shpg. wt. 4 oz.

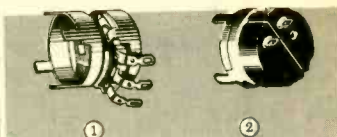
Stk. No.	IRC Type	Ohms Res.	Taper
14C377	Q11-201	250	A
14B416	Q11-103	500	A
14B417	Q11-108	1000	A
14C379	Q11-109	1500	A
14C380	Q11-110	2000	A
14C381	Q13-111	2500	C
14B419	Q11-112	3K	A
14B421	Q11-114	5K	A
14B425	Q11-116	10K	A
14B426	Q13-116	10K	C
14A399	Q11-119	20K	A
14B432	Q11-120	25K	A
14B435	Q11-123	50K	A
14B436	Q13-123	50K	C
14C383	Q11-125	75K	A
14B440	Q11-128	100K	A
14B441	Q13-128	100K	C
14C384	Q13-328	150K	A
14B444	Q11-130	250K	A
14B445	Q13-130	250K	C
14B451	Q11-133	500K	A
14B452	Q13-133	500K	C
14B454	Q14-133	500K	D
14B456	Q11-137	1 Meg.	A
14B457	Q13-137	1 Meg.	C
14A395	Q11-139	2 Meg.	A
14B463	Q13-139	2 Meg.	C
14A394	Q11-239	2.5 Meg.	A
14A393	Q11-140	3 Meg.	A
14B470	Q11-141	5 Meg.	A
14B471	Q11-143	10 Meg.	A

YOUR CHOICE NET EACH \$1.02

EXPLANATION OF IRC CONTROL TAPERS

"A" Linear. "C" Logarithmic for audio. "H" Tapped logarithmic. "D" Right hand semi-logarithmic for bias, contrast and picture control. "Sp" Logarithmic for audio compensation.

① IRC MULTISECTIONS



Factory assembled Multisections designed to attach to the standard control, like a switch, making it a dual type for use with standard controls at left.

Type 76 switches may then be added where required. Wt. 2 oz.

Stock No.	IRC Type	Res. Ohms	Taper
14B183	M11-116	10 K	A
14B200	M11-120	25 K	A
14B201	M11-123	50 K	A
14B203	M13-128	.1 Meg	C
14B204	M11-130	.25 Meg	A
14B206	M11-133	.5 Meg	A
14B207	M13-133	.5 Meg	C
14B208	M11-137	1.0 Meg	A
14B209	M13-137	1.0 Meg	C
14B210	M11-139	2.0 Meg	A
14B319	M13-139	2.0 Meg	C
14B212	M11-141	5.0 Meg	A

CHOICE EACH \$1.35

② SNAP-ON SWITCHES

Type 76-1 S.P.S.T. Switch No. 14B506. EACH 60c
Type 76-2 D.P.S.T. Switch. No. 14B507. EACH 60c

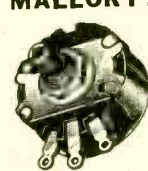
TAPPED "Q" CONTROLS

Stock No.	IRC Type	Ohms Res.	Tap per
14B453	Q13-133X	500K	125K H
14A389	Q19-133X	500K	250K Sp.
14B458	Q13-137X	1 Meg	250K H
*14B462	QVC-539X	1 Meg	500K Sp.
14B464	Q13-139X	2 Meg	500K H
14B466	Q18-139X	2 Meg	1 Meg Sp.

*Fader Control. Shpg. wt. 4 oz.

YOUR CHOICE. NET EACH \$1.44 (Less Switch).

MALLORY 2-WATT WIRE WOUND POTENTIOMETERS



Has knurled shaft with screwdriver slot. Suited for television replacement of focus, hold and positioning controls or any circuit requiring a 2-watt unit. All are linear taper. Dia. 1 1/8"

Stock No.	Mallory Type	Ohms Res.	Net Each
14B235	R25L	25	\$0.93
14B236	R50L	50	.93
14B237	R250L	250	.93
14B238	R1000L	1000	.93
14B239	R1500L	1500	.93
14B240	R2500L	2500	.93
14B241	R5000L	5000	.93

MALLORY "LL" STEREO L-PAD

A dual L-Pad designed as stereo balance or master volume control of low level, low impedance audio circuits. Consists of two separate L-Pads mounted in a piggy-back arrangement and operated by a common shaft for convenient adjustment of both channels from one control panel. Extra long 1" bushing allows mounting in speaker cabinets. Shaft length 1 1/2". 15 watts rating. Packaged with knob, mtg. nuts, instructions and two-faced dial plate.



\$5.70

Stk. No.	Type	Impedance	Net Each
15A627	LL 8	8 Ohms	\$5.70
15A635	LL16	16 Ohms	5.70

MALLORY VOLUME CONTROL ACCESSORIES DIAL PLATES

MOUNTING BRACKET
14A186. RB-249. 2 1/2" centers mounting bracket. Each 5c



Calibrated 0-10 in proper degrees matching rotation of various volume controls and rheostats.

EXTENSION SHAFT
14A189. RS-242. Extension shaft 1/4 x 4" with 3/8" flat. Each 57c

No. 14A160; Type 395 for use with "M" and "WW" controls.
No. 14A162; Type 397 for use with carbon controls.
No. 14A163; Type 398 for carbon controls with switch.
Your Choice, Each 21c

You May Depend On B-A For Fastest Service

Volume Controls, Pots, L&T Pads

CENTRALAB 5-WATT WIRE WOUND CONTROLS



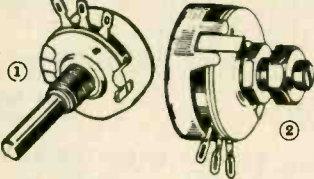
Rated a full 5 watts, in a 2 watt size and at 2 watt price. Only 1 1/2" diameter x 3/8" deep. Has 3" long, full round 1/4" aluminum shaft. Bushing is standard 3/8" long, 3/8-32 thread. 295° rotation. Shpg. wt. 4 oz.

Res. Ohms	Mfg. No.	Res. Ohms	Mfg. No.	Res. Ohms	Mfg. No.	Res. Ohms	Mfg. No.
1	WW-010	25	WW-250	400	WW-401	7500	WW-752
2	WW-020	30	WW-300	500	WW-501	10K	WW-103
3	WW-030	40	WW-400	750	WW-751	15K	WW-153
4	WW-040	50	WW-500	1000	WW-102	20K	WW-203
5	WW-050	60	WW-600	1500	WW-152	25K	WW-253
6	WW-060	75	WW-750	2000	WW-202	30K	WW-303
8	WW-080	100	WW-101	2500	WW-252	40K	WW-403
10	WW-100	200	WW-201	3000	WW-302	50K	WW-503
15	WW-150	250	WW-251	4000	WW-402	75K	WW-753
20	WW-200	300	WW-301	5000	WW-502	100K	WW-104

When Ordering Specify Resistance Value and Stock No. 14B303.

	Each	Each	Each	Each	Each
1 Ohm to 7500 Ohms	1-9	10-24	25-49	50-99	100-249
10, 15, 20, 25, 30K Ohm	\$1.32	\$1.19	\$1.10	\$1.05	\$0.99
40K Ohm, 50K Ohm	1.59	1.43	1.33	1.26	1.19
75K Ohm, 100K Ohm	2.01	1.81	1.68	1.59	1.51
	2.46	2.22	2.05	1.95	1.85

CENTRALAB HOT MOLDED POTENTIOMETERS



Model 12. Molded composition controls, designed to meet MIL-R-94B environmental and test requirements, offer exceptionally long life and noise-free operation. Totally enclosed and sealed against moisture and dirt. Features increased high voltage stability due to wide clearance between bushing and collector track. Rated at 2.25 watts at 70 degrees C. Size 1 1/2" dia., 5/8" deep. All values are linear taper at 20% tolerance. Available in following resistance values. Order By Stock Number and Resistance.

Ohms	Ohms	Ohms	Ohms	Ohms	Ohms	Ohms
50	250	1,000	5,000	25,000	100,000	500,000
100	500	2,500	10,000	50,000	250,000	1 Meg.

① Type HMS has standard 3/8" bushing with 1/4" stainless steel, slotted shaft 2 1/2" long. Meets MIL designation RV4NAYSK.

② Type HML has 3/8" locking type bushing with stainless steel, slotted shaft 3/8" long. Meets MIL designation RV4LAYSA.

Stk. No.	Type	1-9 Ea.	10-24 Ea.	25-49 Ea.	50-99 Ea.	100-249 Ea.
14A217	HMS	\$1.95	\$1.76	\$1.63	\$1.47	\$1.20
14A216	HML	2.55	2.30	2.13	1.92	1.35

CENTRALAB L-PADS AND BRIDGED T-PADS



Constant impedance attenuators. Rated 20 watts audio. Size 1 1/2" dia., 1 1/2" deep fits outlet boxes. Has 3/8" bushing with 1/4" round shaft, 1 1/8" long. Complete with gold anodized dial plate, black knob, instructions. Wt. 6 oz.

① L-Pad Attenuators. Centralab Model WL. 4, 8, 16, 500, 600, 1000, 1250, 2000, 2500 ohm values.

Stk. No.	1-9 Ea.	10-24 Ea.	25-49 Ea.	50-99 Ea.	100-249 Ea.
14A221	\$3.57	\$3.21	\$2.98	\$2.83	\$2.68

② Bridged T-Pad Attenuators. Model WDT. 4, 8, 16, 500, 600 ohm values.

Stk. No.	1-9 Ea.	10-24 Ea.	25-49 Ea.	50-99 Ea.	100-249 Ea.
14A222	\$4.77	\$4.29	\$3.98	\$3.78	\$3.58

③ Wall Outlet Plate for above controls. Made to fit standard outlet boxes. Center hole fits any 3/8" bushing. Size 4 1/2" L. x 2 3/4" wide. \$90c

No. 14A218. Brushed Gold anodized finish. Model AK-34. Net Ea. \$90c

No. 14A220. Brushed Aluminum anodized finish. Model AK-35. Net Ea. \$90c

④ Adapter Bushing for mounting above controls in thick panels or enclosures. Fits any control with standard 3/8" bushing and extends bushing 1". No. 14A223. Type AK-31. Brass Adaptor. Net Each \$45c

STEREO TWIN COMPENTROLS—Designed especially for stereo preamplifiers and stereo control centers, these twin compentrols provide synchronized compensation to channels in a stereo system. Complete with 3" shaft, mtg. hardware (less switch). Shpg. wt. 6 ozs.

Stk. No.	Factory No.	Front Ohms	Rear Ohms	Net Each	5 Each
14A348	C2-70	1 Meg.	1 Meg.	\$3.30	\$2.97

MALLORY COLOR TV CONTROLS

MALLORY TYPE HVC. Replacement controls for adjusting the 3 high voltage red, green and blue circuits. Specifically designed with nylon insulating snap-in mntg. and shaft to isolate the control from the hi-voltage.

No.	Resistance	1-24	25-49
No. 14C725. HVC63L. 6000 ohm		\$1.02	\$0.92
No. 14C726. HVC155L. 1.5 meg		1.02	.92
No. 14C727. HVC355L. 3.5 meg		1.02	.92

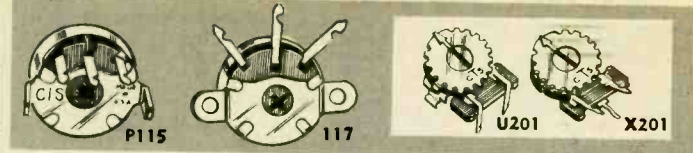
MALLORY TYPE MRC. Convergence controls with printed circuit mounting and permanent knob, nylon case. 1.5 watts.

No.	Resistance	10-49
14A479. MRC10P. 10 Ohm		66c
14A480. MRC30P. 30 Ohm		
14A481. MRC60P. 60 Ohm		

No.	Resistance	10-49
14A482. MRC100P. 100 Ohm		60c
14A483. MRC120P. 120 Ohm		
14A484. MRC150P. 150 Ohm		

Your Choice	1-9 Each	10-49 Each
	66c	60c

IRC-CTS SPECIAL CONTROLS



WIREWOUND TRIMMERS

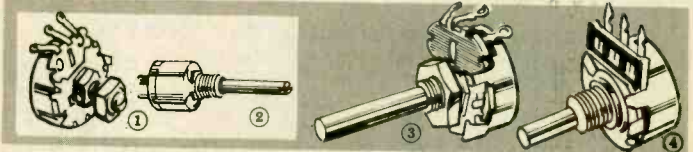
Fully enclosed, insulated nylon rotor, cross slot adjustment. 2 watt, linear taper, ± 10% tolerance. Both have printed circuit board terminals.

Type P115. Twist tab mounting for printed circuit board. Type 117 have rivet ear mountings. 5, 10, 25, 50, 100, 250, 500, 1,000, 2,500, 5,000, 10,000 ohm. No. 14A8. P115. Your Choice 1-24 25-49 50-99 100 Up. No. 14A9. 117. Each \$1.25 \$1.00 \$0.75 \$0.50

MINIATURE CARBON TRIMMERS 1/2 WATT ± 20%

U201 Series. 3/8" dia. Arrow indicator knob, slotted for front or rear screwdriver adjustment. Snap-in shelf supporting parallel to printed circuit board.

X201 Series. As above with vertical mounting. 100 500 2,500 10,000 50,000 250,000 1 Meg. 250 1,000 5,000 25,000 100,000 500,000 No. 14A10. U201. Your Choice 1-24 25-49 50-99 100 Up. No. 14A19. X201. Each \$0.50 \$0.45 \$0.40 \$0.30



IRC-CTS RV4 3-WATT COMPOSITION CONTROLS

1 1/2" dia. locking bushing type 7/8" slotted shaft, 1/2" long. Completely enclosed construction. Linear taper. Carbon-Ceramic element, long-life, no noise. Mill No. RV4LAYSD-CTS No. 96LT. Available in 100, 250, 500, 1,000, 2,500, 5,000, 10,000, 25,000, 50,000, 100,000, 250,000, 500,000 ohms and 1 Meg.

Your Choice Each 1-34 35-49 50-64 65-99 100 Up. No. 14A21. \$2.55 \$2.18 \$1.79 \$1.58 \$1.33

IRC-CTS RV6 1/2-WATT COMPOSITION CONTROLS

Type 300, Style RV6. 7/8" long slotted shaft, 1/8" dia., 1/4" mounting bushing. Control diameter 1/2". Requires only 3/8" mounting space behind the panel. High stability, carbon-ceramic element. Linear taper. Available in 100, 250, 500, 1,000, 2,500, 5,000, 10,000, 25,000, 50,000, 100,000, 250,000, 500,000 ohms and 1 Meg.

Your Choice Each 1-34 35-49 50-64 65-99 100 Up. No. 14A20. \$4.95 \$4.05 \$3.80 \$3.10 \$2.24

AW SERIES 5-WATT WIREWOUND CONTROLS

Compact, fully enclosed 3/8" dia. with locating lugs. Has 1/4" shaft, 3" long, 3/8" mtg. sleeve. Linear taper, ± 10% tolerance. Available in 10, 15, 20, 25, 50, 100, 200, 250, 500, 1,000, 2,000, 2,500, 3,000, 5,000, 10,000 Ohm.

No. 14A7. Choice Each \$1.14

MC SERIES 200 MINIATURE CARBON CONTROLS

5/8" dia., 1/8" shaft, 1" long. Screwdriver slotted. Mounting bushing 1/4" dia., 1/4" long, printed circuit type terminals. Choice of tapers, power rating 1/4 watt, tolerance ± 20%. *Audio taper, all others linear.

Type MC—Less Switch 1,000 5,000* 10,000 50,000 250,000 500,000 2,500* 5,000 500,000* 2,500* 5,000 25,000 100,000 500,000* 1 Meg.* 5,000* 10,000* 1 Meg.*

Your Choice Each 1-24 25-49 50-99 100-174 No. 14A5. Less Switch \$1.14 \$1.03 \$0.95 \$0.86 No. 14A6. With Switch 1.86 1.67 1.55 1.40

ORDER BY STOCK NUMBER AND RESISTANCE VALUE

500,000 OHM VOLUME CONTROL WITH SWITCH



Most needed of all controls... at terrific savings! Regular 7/8" midjet size with 1 1/2" long flattened shaft and finest brass hardware. Very smooth operating. Regular SPST switch permanently attached.

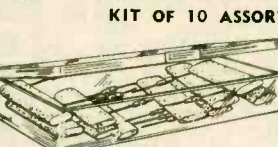
No. 17B518. 55c 10 Lots, 49c Each

HAMILTON-HALL FUSED RESISTORS

Often needed replacement in series wired TV sets by Motorola, Crosley, Hoffman, Raytheon, Sylvania, Zenith, RCA, Admiral, Hallicrafters, Sonora and others. 5 watt rating.

Stk. No.	Resistance	Stk. No.	Resistance
17A425	4.7 ohms	17C444	7.5 ohms
17A447	5 ohms	17A449	10 ohms
17B429	5.6 ohms	17B428	22 ohms
17A448	6 ohms	17B317	47 ohms

KIT OF 10 ASSORTED 5 WATT FUSED RESISTORS



In Handy Clear Plastic Box. The contents of this assortment are the most popular sizes needed in 90% of the repair jobs. Contains: 6-7.5 ohm, plus 1 each 4.7, 5.6, 9 and 22 ohm. All top quality. Selected from the listing above. \$1.98

17C427. Kit of 10, Special... \$1.98

GLO-BAR RESISTORS

Used in TV sets having string series filament circuits as produced by GE, Motorola, Sears, Hoffman, Teleton and others. Resistance decreases with rise in temperature.

No.	Mfg. No.	Res. Hot @ MA Load	Repl. Mfg. No.	Each
17C416	HG-20	20 Ohms, 600 MA	GE RRW051	\$0.85
17B318	HG-19	19 Ohms, 600 MA	Motorola 6R720260	.85
17C442	HG-35	35 Ohms, 600 MA	GE RRW054	1.14
17B319	HGU	100 Ohms to 20 Ohms hot. univ. replacement		1.11

Electrolytic Condensers

AEROVOX Sub-Miniature ELECTROLYTICS

Type PTT-PWE. Plastic case tubular, fully insulated. For transistorized circuitry and miniature electronic assemblies.

Size Chart: A- $\frac{1}{4} \times \frac{5}{8}$;; B- $\frac{1}{4} \times \frac{3}{4}$;; C- $\frac{1}{4} \times \frac{7}{8}$;; E- $\frac{3}{8} \times \frac{3}{4}$;; F- $\frac{3}{8} \times \frac{1}{2}$;; G- $\frac{1}{2} \times 1$;; H- $\frac{3}{8} \times \frac{3}{4}$;; J- $\frac{3}{8} \times \frac{7}{8}$;; K- $\frac{3}{8} \times 1$;; L- $\frac{3}{8} \times 1\frac{1}{8}$;; M- $\frac{3}{8} \times 1\frac{1}{4}$;; N- $\frac{3}{8} \times 1\frac{1}{2}$;; O- $\frac{3}{8} \times 1\frac{1}{2}$;; P- $\frac{3}{8} \times 1\frac{1}{2}$;; R- $\frac{3}{8} \times 1\frac{1}{2}$;; S- $\frac{3}{8} \times 1\frac{1}{4}$;; T- $\frac{3}{8} \times 1\frac{1}{2}$;; U- $\frac{1}{2} \times 1\frac{1}{4}$;;

100 and up quantities will be billed at Factory OEM prices.

3 V. DC Working

Stk. No.	Size	Mfd.	Each	Each	Each
			\$0.42	\$0.29	\$0.23
15B12	A	1	.42	.29	.23
15B18	B	25	.42	.29	.23
15B19	C	50	.42	.29	.23
15B61	H	100	.45	.32	.25
15B62	K	200	.45	.32	.25
15B63	L	300	.54	.36	.28
15B64	O	500	.75	.45	.35
15A919	T	800	.75	.45	.35

6 V. DC Working

15B65	A	1	.42	.29	.23
15B66	A	2	.42	.29	.23
15B67	A	5	.42	.29	.23
15B69	A	10	.42	.29	.23
15B70	A	20	.42	.29	.23
15B71	A	30	.42	.29	.23
15B72	A	50	.45	.32	.25
15B73	A	100	.45	.32	.25
15B74	A	200	.48	.34	.26
15B75	A	300	.75	.45	.35

10 V. DC Working

15B76	A	2	.42	.29	.23
15B77	A	5	.42	.29	.23
15B78	A	10	.42	.29	.23
15B79	A	20	.42	.29	.23
15B80	A	30	.45	.32	.25
15B81	A	50	.45	.32	.25
15A920	J	100	.45	.32	.25
15A921	L	200	.75	.45	.35
15A922	O	300	.75	.45	.35

12 V. DC Working

15C84	A	1	.42	.29	.23
15C85	A	2	.42	.29	.23
15C86	A	5	.42	.29	.23
15C87	B	10	.42	.29	.23
15C88	E	20	.45	.32	.25
15C89	E	30	.45	.32	.25
15C90	H	50	.45	.32	.25
15C91	K	100	.60	.38	.30

15 V. DC Working

15C92	A	1	.42	.29	.23
15C93	A	2	.42	.29	.23
15C111	A	5	.42	.29	.23
15C112	B	10	.42	.29	.23
15D128	B	15	.42	.29	.23
15D129	E	25	.45	.32	.25
15D141	H	50	.45	.32	.25
15D142	K	100	.60	.38	.30
15A923	O	200	.75	.45	.35

25 V. DC Working

15B166	A	1	.42	.29	.23
15B167	A	2	.42	.29	.23
15B168	B	5	.42	.29	.23
15B169	E	10	.42	.29	.23
15B170	H	20	.45	.32	.25
15D146	H	25	.45	.32	.25
15B171	H	30	.45	.32	.25
15D173	K	50	.45	.32	.25
15D174	N	100	.66	.41	.32
15A924	T	150	.75	.45	.35

50 V. DC Working

15B181	A	1	.42	.29	.23
15B182	A	2	.42	.29	.23
15B183	C	5	.42	.29	.23
15B184	H	10	.45	.32	.25
15B185	J	20	.45	.32	.25
15B186	K	25	.48	.34	.26
15B187	K	30	.60	.38	.30
15B188	M	40	.75	.45	.35
15B189	N	50	.75	.45	.35

CAN ELECTROLYTICS



AEROVOX: Insulated Can
Has flexible wire leads. Wt. 8 oz.
450-Volt DC Working—525-Volt Peak

Mfd.	No.	Size	Each
16	15A254	$1\frac{3}{8} \times 3$	\$1.82
30	15A255	$1\frac{3}{8} \times 3$	1.78

600-Volt DC Working—750 Volt Peak

Mfd.	No.	Size	Each
8	15A233	$1\frac{3}{8} \times 4\frac{1}{2}$	\$1.85
16	15A234	$1\frac{3}{8} \times 4\frac{1}{2}$	2.37

ANTENNA ROTATOR CAPACITORS
50 Volt AC

Stk. No.	Mfd.	Size	Each
15C909	70	$\frac{7}{8} \times 2\frac{3}{8}$	\$0.75
15C910	100-120	$1 \times 2\frac{3}{4}$	1.02

TWIST-LOK ELECTROLYTIC CAPACITORS

MALLORY - AEROVOX - SPRAGUE

Hermetically sealed dry electrolytic capacitors. 85° C. Designed to withstand the severe requirements for television and radio replacement. Has bakelite washers for insulated mounting where necessary.

Because electrolytic condensers have a wide capacity tolerance (—10% to +50 to 150%) a capacitor for almost every possible requirement can be selected from the following listing.

Twist Locks May Be Assorted to Obtain 10 Lot Price—Average wt. 8 oz.



SINGLE SECTION TYPES

Cap. Mfd.	Volts DC	Size Inches	Stock No.	Price Each	10 to 24	Cap. Mfd.	Volts DC	Size Inches	Stock No.	Pr. ce Each	10 to 24
10	450	1 x 1 1/2	15A270	\$.93	\$.83	125	200	1 x 3	15A348	\$1.50	\$1.35
10	500	1 x 2	15A689	.96	.87	125	350	1 3/8 x 2	15A703	2.19	1.97
15	450	1 x 1 1/2	15A271	1.26	1.13	125	450	1 3/8 x 3	15B411	2.37	2.13
20	450	1 x 1 1/2	15A272	1.08	.98	140	150	1 x 3 1/4	15A737	1.26	1.13
20	500	1 x 2	15A211	1.11	1.00	140	250	1 x 3	15A350	1.74	1.57
30	150	1 x 2	15A690	.93	.84	150	150	1 x 2 1/2	15B414	1.29	1.16
30	450	1 x 1 1/2	15A692	1.17	1.06	150	250	1 3/8 x 2	15A704	1.86	1.67
30	500	1 x 2	15A693	1.22	1.11	150	300	1 3/8 x 2	15A754	2.10	1.89
40	475	1 3/8 x 2 1/2	15B477	1.50	1.35	150	350	1 3/8 x 2	15B293	2.37	1.93
50	150	1 x 2	15A759	.99	.89	200	150	1 x 3	15A738	1.47	1.32
50	300	1 x 1 1/2	15B296	1.56	1.18	200	300	1 3/8 x 2 1/2	15B294	2.37	1.95
40	500	1 x 2 1/2	15B297	1.50	1.24	200	150	1 3/8 x 2 1/2	15A739	1.68	1.51
80	150	1 x 2	15B415	1.11	1.00	300	50	1 x 2 1/2	15A751	1.59	1.43
80	350	1 3/8 x 2 1/2	15B298	1.71	1.40	500	50	1 x 1 1/2	15B604	1.53	1.38
100	150	1 x 2	15B602	1.20	1.08	1000	15	1 3/8 x 2	15A735	2.13	1.92
120	150	1 3/8 x 2	15A382	1.23	.98	1000	25	1 3/8 x 3	15B669	2.64	2.38
100	250	1 x 3	15A700	1.62	1.44	3000	15	1 3/8 x 2 1/2	15B549	2.07	1.87
120	150	1 x 2	15B299	1.23	1.10				15B550	2.55	2.29
100	450	1 3/8 x 2 1/2	15B300	2.07	1.77						

DUAL SECTION TYPES

5-200	200	1 3/8 x 2 1/2	15B301	\$1.83	\$1.56	40-100	450	1 3/8 x 3 1/2	15B307	\$2.91	\$2.60
10-10	450	1 x 2	15A274	1.14	1.02	50-30	150	1 x 2	15B464	1.20	1.08
10-10	500	1 x 2 1/2	15A398	1.23	1.11	50-30	150	1 x 2	15A404	1.20	1.08
15-15	450	1 x 2 1/2	15A706	1.35	1.21	50-50	150	1 x 1 1/2	15A279	1.29	1.16
20-20	150	1 x 1 1/2	15A506	1.02	.92	60-40	450	1 3/8 x 3	15A752	2.37	2.13
20-20	250	1 x 1 1/2	15A707	1.14	1.03	60-60	150	1 x 1 1/2	15A758	1.41	1.27
20-20	350	1 x 2 1/2	15A708	1.71	1.54	80-2	450/350	1 3/8 x 3	15C366	2.51	1.93
20-20	450	1 x 2 1/2	15A275	1.53	1.36	80-30	450	1 3/8 x 3 1/2	15A810	2.49	2.24
20-20	500	1 3/8 x 2	15B208	1.71	1.54	80-40	150	1 x 2	15A740	1.38	1.24
30-31	150	1 x 1 1/2	15A278	1.11	1.00	80-40	450	1 x 2 1/2	15A409	1.38	1.24
30-31	350	1 x 3	15B608	1.74	1.57	80-50	175	1 3/8 x 3	15A812	3.12	2.81
30-30	450	1 3/8 x 2	15B609	1.83	1.65	80-80	300	1 3/8 x 3	15A709	2.43	2.19
40-10	475	1 3/8 x 2 1/2	15A811	1.86	1.67	80-80	350	1 3/8 x 3 1/2	15A808	2.82	2.54
40-20	150	1 x 1 1/2	15B493	1.08	.96	100-60	450	1 3/8 x 4	15A354	3.51	3.16
40-40	150	1 x 1 1/2	15A507	1.14	1.00	100-60	350	1 3/8 x 3	15B489	3.69	3.29
40-40	250	1 x 1 1/2	15B611	1.50	1.31	100-100	300	1 3/8 x 2 1/2	15A378	2.70	2.43
40-40	450	1 3/8 x 2 1/2	15B494	2.07	1.87	125-60	150	1 3/8 x 2	15A806	2.25	2.02
40-40	475	1 3/8 x 3	15B408	2.58	2.32	200-150	150	1 3/8 x 3	15A807	2.40	2.16
40-40	500	1 3/8 x 2 1/2	15A813	2.64	2.38	200-200	250	1 3/8 x 4	15B490	3.66	3.29
						200-200	15	1 x 3 1/2	15A762	2.64	2.38

THREE SECTION TYPES

10-10-10	350	1 x 1 1/2	15B621	\$1.44	\$1.30	40-20-20	250	1 x 3	15A757	\$1.74	\$1.57
10-10-10	450	1 x 2	15A276	1.56	1.46	40-30-20	150	1 x 2	15A512	1.50	1.35
10-10-10	475	1 x 3	15B474	1.62	1.46	40-30-30	475	1 3/8 x 3	15A747	3.09	2.79
10-20-30	350	1 x 2 1/2	15B302	1.95	1.49	40-40-10	450	1 3/8 x 3	15B453	2.52	2.27
10-100/80	400/350	1 3/8 x 4	15B303	3.66	2.85	40-40-20	150/25	1 x 1 1/2	15B672	1.44	1.30
10/100/200	450/200/25	1 x 3 1/2	15A358	2.04	1.84	40-40-20	450/25	1 3/8 x 2	15A433	2.37	2.13
15-10-20	350/25	1 x 1 1/2	15B473	1.50	1.35	40-40-40	150	1 x 2	15A435	1.56	1.40
15-15-10	450	1 x 3	15B472	2.64	2.38	40-40-40	450	1 3/8 x 3	15B467	2.94	2.64
20-10-10	450	1 x 2	15B673	1.77	1.59	40-40-40	450	1 3/8 x 3	15A743	2.97	2.67
20-10-20	350/25	1 x 1 1/2	15A283	1.53	1.38	40-40/100	450/200	1 3/8 x 3			
20-10-20	450/25	1 x 1 1/2	15A711	1.62	1.46	50-40-30	150	1 x 1 1/2	15A447	1.62	1.46
20-20-20	350/25	1 x 1 1/2	15B481	1.68	1.51	50-50-50	150	1 x 1 1/2	15A742	1.80	1.62
20-20-20	400/25	1 x 3	15A509	1.71	1.54	50-50/20	150/25	1 x 3	15B468	1.59	1.43
20-20-20	450	1 3/8 x 2	15B465	2.16	1.94	60-30-10	450	1 3/8 x 3	15A745	2.70	2.43
20-20-20	450/25	1 x 2	1								

Electrolytic Capacitors

TUBULAR ELECTROLYTIC CAPACITORS



- CORNELL-DUBILIER
- AEROVOX
- MALLORY

Small size, hermetically sealed in aluminum with an overall insulating sleeve. Tinned wire leads on all single section, duals and triples have insulated wire leads with mounting strap. Average wt. 4 oz. Prices to 500 pieces available. Select from Cornell-Dubilier famous Blue-Beaver, Aerovox PRS Dandee and Mallory "TC" series capacitors.

SPECIFY BRAND DESIRED, CAPACITY AND STOCK NUMBER

6 WORKING VOLTS DC—SINGLE SECTION

Cap. Mfd.	Stock No.	C-D	Manufacturer Aero-vox Mal-lory	Size Inches	1-24	Price Each 25-49	50-99	100-UP
5	15B900	5-6	.....	3/8x1 1/8	\$.048	\$.035	\$.027	\$.022
25	15B904	25-6	.....	3/8x1 1/8	.51	.37	.29	.23
50	15B905	50-6	.....	3/8x1 1/8	.57	.41	.32	.26
100	15A973	100-6	1100	1/2x1 1/8	.72	.50	.39	.31
250	15A974	250-6	1110	1/2x1 1/8	.81	.61	.49	.39
500	15A975	500-6	1120	1/2x1 1/8	.93	.73	.57	.45
1000	15A607	1000-6	610	3/8x1 1/8	1.14	.89	.69	.55
2000	15B261	2000-6	1145	3/4x2	1.38	1.04	.84	.67

15 WORKING VOLTS DC—SINGLE SECTION

Cap. Mfd.	Stock No.	C-D	Manufacturer Aero-vox Mal-lory	Size Inches	1-24	Price Each 25-49	50-99	100-UP
100	15B907	100-15	.....	1/2x1 1/8	.75	.52	.41	.33
500	15A544	500-15	1505	1/2x1 1/8	1.05	.82	.64	.51
1000	15B291	1000-15	1501	3/8x1 1/8	1.38	1.07	.83	.67
2000	15A911	2000-15	.....	3/4x2	1.92	1.26	.97	.78
4000	15A913	4000-15	.....	7/8x2 3/4	2.91	2.25	1.75	1.40

25 WORKING VOLTS DC—SINGLE SECTION

Cap. Mfd.	Stock No.	C-D	Manufacturer Aero-vox Mal-lory	Size Inches	1-24	Price Each 25-49	50-99	100-UP
10	15A241	10-25	1250	22	3/8x1 1/8	.60	.42	.33
25	15A242	25-25	1260	26	3/8x1 1/8	.60	.44	.35
50	15A243	50-25	1265	29	3/8x1 1/8	.66	.47	.37
100	15A244	100-25	1270	2501	1/2x1 1/8	.81	.57	.45
250	15A799	250-25	.....	1/2x1 1/8	1.02	.79	.62	.49
500	15A800	500-25	.....	3/4x2	1.38	1.07	.83	.67
1000	15B760	1000-25	.....	5/8x2	2.37	1.82	1.42	1.14
2000	15B784	2000-25	.....	7/8x2 1/2	2.91	2.25	1.75	1.40

50 WORKING VOLTS DC—SINGLE SECTION

Cap. Mfd.	Stock No.	C-D	Manufacturer Aero-vox Mal-lory	Size Inches	1-24	Price Each 25-49	50-99	100-UP
1	15B134	1-50	.....	3/8x1 1/8	.54	.39	.31	.24
2	15B431	2-50	.....	3/8x1 1/8	.54	.39	.31	.24
5	15A236	5-50	302	3/8x1 1/8	.60	.42	.32	.26
10	15A237	10-50	1320	32	3/8x1 1/8	.60	.42	.33
25	15A238	25-50	1340	36	1/2x1 1/8	.63	.44	.35
50	15A239	50-50	1350	39	1/2x1 1/8	.72	.51	.40
100	15A240	100-50	1360	.....	1/2x1 1/8	.84	.59	.46
150	15A801	150-50	.....	5/8x1 1/8	.93	.66	.51	.41
250	15A802	250-50	.....	3/4x1 1/8	1.05	.87	.64	.51
500	15A839	500-50	.....	7/8x1 1/8	1.44	1.11	.86	.69
1000	15B785	1000-50	.....	1 x2	2.52	1.93	1.49	1.20
2000	15A788	2000-50	.....	1 3/8x2 3/4	3.48	2.60	2.02	1.61

150 WORKING VOLTS DC—SINGLE SECTION

Cap. Mfd.	Stock No.	C-D	Manufacturer Aero-vox Mal-lory	Size Inches	1-24	Price Each 25-49	50-99	100-UP
4	15A221	4-150	1400	.....	3/8x1 1/8	.60	.43	.33
8	15A222	8-150	1405	.....	1/2x1 1/8	.63	.45	.34
12	15A951	12-150	.....	1/2x1 1/8	.66	.42	.36	.29
16	15A224	16-150	44	.....	1/2x1 1/8	.69	.49	.38
20	15A225	20-150	1440	45	1/2x1 1/8	.72	.50	.39
30	15A226	30-150	1460	.....	3/4x1 1/8	.78	.55	.43
40	15A227	40-150	1470	48	3/4x1 1/8	.81	.58	.45
50	15A228	50-150	1480	.....	3/4x1 1/8	.84	.59	.46
80	15A789	80-150	.....	7/8x1 1/8	.96	.68	.54	.43
100	15A797	100-150	.....	1 x2	1.05	.78	.54	.46
150	15B817	150-150	.....	1 x2 1/2	1.14	.82	.63	.51
250	15B828	250-150	.....	1 x3	1.53	1.11	.86	.69
300	15B289	300-150	499	1 x3	1.77	1.35	1.04	.84

250 WORKING VOLTS DC—SINGLE SECTION

Cap. Mfd.	Stock No.	C-D	Manufacturer Aero-vox Mal-lory	Size Inches	1-24	Price Each 25-49	50-99	100-UP
5	15B262	.....	50X	1 1/2x1 1/4	\$.63	\$.048	\$.035	\$.030
8	15B870	8-250	.....	1 1/2x1 1/4	.69	.54	.41	.39
10	15B263	.....	52	1 1/2x1 1/4	.72	.55	.43	.35
12	15A884	12-250	.....	1 1/2x1 1/4	.75	.57	.44	.36
20	15B264	20-250	.....	1 1/2x1 1/4	.81	.66	.52	.41
40	15B265	40-250	55	3/4x2	.93	.76	.59	.47
50	15B266	50-250	59	3/4x2	1.02	.83	.64	.52
100	15B267	100-250	1265	1 x2	1.47	.98	.76	.61
200	15C786	200-250	.....	1 3/8x3 1/8	2.10	1.28	1.00	.80

350 WORKING VOLTS DC—SINGLE SECTION

Cap. Mfd.	Stock No.	C-D	Manufacturer Aero-vox Mal-lory	Size Inches	1-24	Price Each 25-49	50-99	100-UP
5	15B284	.....	60	1 1/2x3 1/4	.63	.50	.35	.30
10	15B285	.....	62	1 1/2x3 1/4	.75	.61	.44	.36
20	15B286	20-350	65	3/4x1 1/8	.87	.68	.52	.42
60	15B287	60-350	68	1 x2	1.17	.91	.71	.57
100	15B288	100-350	69	1 x3	1.53	1.11	.86	.69

450 WORKING VOLTS DC—SINGLE SECTION

Cap. Mfd.	Stock No.	C-D	Manufacturer Aero-vox Mal-lory	Size Inches	1-24	Price Each 25-49	50-99	100-UP	
2	15A377	2-450	.....	3/8x1 1/8	.66	.52	.40	.32
4	15A496	4-450	.....	3/8x1 1/8	.69	.53	.42	.34
5	15A201	.....	70	1 1/2x1 1/4	.72	.56	.43	.35
8	15A202	8-450	1715	71	3/4x1 1/8	.75	.59	.46	.37
10	15A203	10-450	1720	72	3/4x1 1/8	.78	.62	.47	.38
12	15A204	12-450	1725	3/4x1 1/8	.81	.64	.50	.40
16	15A205	16-450	1730	74	3/4x1 1/8	.84	.65	.53	.42
20	15A206	20-450	1735	75	3/4x1 1/8	.93	.73	.56	.45
30	15A948	30-450	.....	1 x2	1.02	.80	.62	.50
40	15A207	40-450	1750	78	1 x2 1/2	1.08	.83	.64	.52
50	15A748	50-450	.....	1 x2 1/2	1.26	.97	.75	.60
60	15B424	60-450	795	1 x3	1.41	1.08	.83	.67	
80	15A796	80-450	.....	1 x3	1.68	1.28	.87	.69
100	15B425	100-450	.....	1 x3 1/2	1.92	1.48	1.15	.92
200	15A610	200-450	.....	1 3/8x4 1/8	3.00	2.50	1.95	1.56

500 WORKING VOLTS DC—SINGLE SECTION

Cap. Mfd.	Stock No.	C-D	Manufacturer Aero-vox Mal-lory	Size Inches	1-24	Price Each 25-49	50-99	100-UP	
8	15A402	8-500	1805	3/4x1 1/8	.78	.61	.47	.38
10	15B423	.....	81	1 1/8x1 3/4	.81	.67	.49	.39

500 WORKING VOLTS DC—SINGLE SECTION

Cap. Mfd.	Stock No.	C-D	Manufacturer Aero-vox Mal-lory	Size Inches	1-24	Price Each 25-49	50-99	100-UP
12	15A652	12-500	.....	3/4x1 1/8	.84	.66	.51	.41
16	15A403	16-500	1820	.....	.90	.70	.54	.43
20	15B426	20-500	.....	83	.96	.74	.60	.47
30	15B292	30-500	.....	84	1.05	.84	.65	.52

600 WORKING VOLTS DC—SINGLE SECTION

Cap. Mfd.	Stock No.	C-D	Manufacturer Aero-vox Mal-lory	Size Inches	1-24	Price Each 25-49	50-99	100-UP
10	15B429	.....	92	1 1/8x2 1/8	1.77	1.35	1.05	.84
12	15A724	12-600	.....	1 1/8x3 1/8	1.65	1.24	.96	.78
16	15A405	16-600	1880	.....	1.89	1.52	1.18	.94
20	15A725	20-600	.....	1 1/8x3 1/8	2.10	1.72	1.34	1.08

700 WORKING VOLTS DC—SINGLE SECTION

Cap. Mfd.	Stock No.	C-D	Manufacturer Aero-vox Mal-lory	Size Inches	1-24	Price Each 25-49	50-99	100-UP
8	15A406	8-700	.....	1 1/8x3 1/8	1.47	1.12	.87	.69
16	15B755	16-700	.....	1 1/8x4 1/8	2.10	1.72	1.34	1.08

25 WORKING VOLTS DC—DUAL SECTION

Cap. Mfd.	Stock No.	C-D	Manufacturer Aero-vox Mal-lory	Size Inches	1-24	Price Each 25-49	50-99	100-UP
25-25	15A450	.....	26	1 1/8x1 1/4	\$.84	\$.84	\$.72	\$.57

150 WORKING VOLTS DC—DUAL SECTION

Cap. Mfd.	Stock No.	C-D	Manufacturer Aero-vox Mal-lory	Size Inches	1-24	Price Each 25-49	50-99	100-UP
20-20	15A230	2215	.....	3/4x1 1/8	.99	.80	.76	.61
20-30	15B462	3215	45	7/8x1 1/8	1.02	.79	.61	.41
20-40	15A463	4215	.....	7/8x1 1/8	1.05	.81	.63	.50
30-30	15A400	3315	2175	7/8x1 1/8	1.08	.81	.63	.51
40-40	15A984	4415	.....	7/8x2	1.11	.88	.67	.53
50-30	15A401	5315	.....	7/8x2	1.17	.88	.67	.53
50-50	15A449	5515	2200	7/8x2	1.26	.89	.69	.56
80-40	15A438	8415	2210	1 x2 1/2	1.32	1.16	.90	.72
80-50	15B551	8515	4975	1 x2 1/2	1.38	.97	.76	.61

450 WORKING VOLTS DC—DUAL SECTION

Cap. Mfd.	Stock No.	C-D	Manufacturer Aero-vox Mal-lory	Size Inches	1-24	Price Each 25-49	50-99	100-UP
8-8	15A209	8045	.....	7/8x1 1/8	1.02	.88	.83	.67
10-10	15A979	1145	.....	7/8x2	1.17	.88	.67	.53
20-20	15A980	2245	.....	1 x3	1.50	1.39	.89	.71
40-40	15B434	4445	.....	1 x4 1/8	2.04	1.87	.....	.....

TRIPLE SECTION TYPES

Mfd.	Volts	Stk. No.	Manufacturer	Size Ins.	1-9 Ea.	10-49 Ea.
20-20-20	150	15A803	CD—BBRT222-15	7/8x1 1/8	\$1.32	\$1.20
20-20-20	150/25	15A441	Mallory—TCT3053	1 1/8x2 1/4	1.23	1.19
30-30-30	150	15A442	Mallory—TCT31			

Special Electrolytic Capacitors

MALLORY COMPUTER GRADE CAPACITORS

ULTRA-RELIABLE ALUMINUM ELECTROLYTICS



Type CG high capacity units for filter and storage use in power supplies, computers, telephone networks, high grade test instruments or wherever extreme reliability is required. Temperature range -20 to +85° C. Capacity tol. of 3 to 150 WVDC, -10% +75%; 151 to 450 WVDC -10% +50%. Insulating sleeve furnished. An extensive listing of over 150 capacities and voltage ratings available, write for bulletin 9-282.

Stk. No.	Mfg. No.	Cap. Mfd.	V. DC	Size	1-49 Ea.	50 Up Ea.
15B314	CG4352U10F1	43,500	10	3 x 4 1/8"	\$8.25	\$6.48
15C396	CG533U15G1	53,000	15	3 x 5 3/8"	9.30	7.30
15C395	CG152U25A1	1,500	25	1 3/8 x 2 1/8"	1.72	1.35
15B315	CG852U25D1	8,500	25	2 x 4 1/8"	3.90	3.07
15A391	CG112U35A1	1,100	35	1 3/8 x 2 1/8"	1.89	1.49
15C392	CG472U35K1	4,700	35	2 x 3 1/8"	3.48	2.73
15C393	CG243U35G1	24,000	35	3 x 5 3/8"	7.75	6.09
15B316	CG14U50F1	10,000	50	3 x 4 1/8"	6.70	5.27
15C369	CG452U50D1	4,500	50	2 x 4 1/8"	3.47	2.72
15C370	CG345U75D1	3,450	75	2 x 4 1/8"	4.03	3.17
15C371	CG822U75F1	8,200	75	3 x 4 1/8"	7.25	5.70
15B317	CG225U100D1	2,250	100	2 x 4 1/8"	4.12	3.23
15B318	CG155U150D1	1,550	150	2 x 4 1/8"	4.01	3.15
15C394	CG562U150G1	5,600	150	3 x 5 3/8"	9.87	7.76
15C372	CG13T200D1	1,000	200	2 x 4 1/8"	4.51	3.54
15B319	CG82T250D1	800	250	2 x 4 1/8"	4.72	3.74
15B320	CG72T300D1	700	300	2 x 4 1/8"	4.72	3.74
15B321	CG55T350D1	550	350	2 x 4 1/8"	5.10	4.01
15B322	CG24T450D1	240	450	2 x 4 1/8"	3.42	2.69

MALLORY TYPE RP AC CAPACITORS

CONTINUOUS DUTY (Motor Run)



For heavy duty AC applications such as motor running, fluorescent ballasts, etc. Widely used on air conditioner motors, oil burners, etc. Sealed metal case, oil filled, non-inflammable providing a high safety factor and long life. Tol. ±10%, 330 V AC. Quick disconnect terminals with flash guard to prevent arcing. See mounting brackets below for RP type.

Stk. No.	Mfg. No.	Mfd. Dia.	Lgth.	Each	Stk. No.	Mfg. No.	Mfd. Dia.	Lgth.	Each
15A479	RP3301	1 3/8"	1 1/2"	\$1.51	15A488	RP3306	6 2"	2 1/8"	\$2.70
15A480	RP3302	2 1/8"	2 1/4"	1.87	15B776	RP3307	7 2"	3 3/8"	2.84
15A485	RP3303	3 2"	3 1/4"	2.23	15B777	RP3308	8 2"	3 3/8"	3.01
15A486	RP3304	4 2"	4 1/4"	2.23	15B778	RP3310	10 2 1/2"	3 3/8"	3.44
15A487	RP3305	5 2"	5 1/4"	2.45	15B779	RP3312	12 2 1/2"	3 3/8"	3.92

Vertical Mounting Brackets for RP, HC & CG Types

15A491	VR3	1 3/8"	1 1/2"	12c	15A492	VR8	2 to 2 1/8"	14c
15A895	VR4	1 1/2"	1 1/4"	14c	15A898	VR12	3"	30c
15A897	VR6	1 3/4"	1 1/8"	14c				

MALLORY HI-CAPACITY DRY ELECTROLYTICS



INDUSTRIAL TYPE CAPACITOR. For filtering dry disc rectifiers, electric fence controls or any uses requiring high capacity at low voltage. Has screw terminals and vertical mounting bracket. Plastic case provides complete insulation. Wt. 8 oz. HC 1060A is special fence control replacement.

See lower left for mounting brackets.

* (HC) Polarized; (NP) Nonpolarized

Mfd.	Volts	Mfg. No.*	Size	Stk. No.	1-9 Ea.	10-24 Ea.
6000	10	HC1060A	1 1/2 x 4 1/4"	15B992	\$5.20	\$4.48
2000	15	HC1520A	1 1/2 x 2 3/8"	15B993	3.47	2.97
4000	15	HC1540A	1 1/2 x 4 3/8"	15B994	5.37	4.61
6000	15	HC1560A	1 1/2 x 3 3/8"	15B995	5.62	4.82
1000	25	HC2510A	1 1/2 x 2 3/8"	15A790	3.19	2.73
2000	25	HC2520A	1 1/2 x 3 3/8"	15A791	4.15	3.58
4000	25	HC2540A	1 1/2 x 4 3/8"	15A792	5.58	4.79
500	50	HC5005A	1 1/2 x 2 3/8"	15A793	3.33	2.85
1000	50	HC5010A	1 1/2 x 3 3/8"	15A794	4.25	3.65
2000	50	HC5020A	1 1/2 x 4 3/8"	15A795	5.06	4.34
4000	50	HC5040	2 1/8 x 4 3/8"	15A713	7.32	6.27
1000	150	HC15010A	1 1/2 x 4 3/8"	15A717	6.44	5.52
500	200	HC20005A	1 1/2 x 3 3/8"	15A729	5.53	4.74
200	300	NP3025	2 1/8 x 4 3/8"	15B765	7.00	6.00
300	450	HC45003	2 1/8 x 4 3/8"	15A732	8.47	7.28

MALLORY MOTOR STARTING CAPACITORS



Housing is water and oil proof molded bakelite. Easily installed, universally interchangeable with capacitors of like dimensions and ratings. All are for 110-125 volt AC motors, except * is for 220 volt AC motors. To select proper capacitor you may use the Mfd. rating on original capacitor and select the same or next higher Mfd. capacity. Size table No. ①: 1 1/8 x 2 3/8, No. ②: 1 1/8 x 3 3/8, No. ③: 1 1/8 x 4 3/8. Wt. 1/2 lb.

Mfd.	Mfg. No.	Stk. No.	Each	Mfd.	Mfg. No.	Stk. No.	Each
56	① PSU5310	14B632	\$0.77	194	② PSU19410	14B652	\$1.40
75	② PSU7510	14B634	.92	216	③ PSU21610	14B646	1.46
97	③ PSU9710	14B637	1.00	282	④ PSU28210	14B647	1.75
108	④ PSU10810	14B638	1.03	378	⑤ PSU37810	14A648	2.16
124	⑤ PSU12410	14B639	1.06	430	⑥ PSU43010	14B653	2.50
130	⑥ PSU13010	14B640	1.06	540	⑦ PSU54010	14B651	2.93
145	⑦ PSU14510	14B644	1.15	25*	⑧ PSU2520	14B682	1.66
158	⑧ PSU15810	14B645	1.17	50*	⑨ PSU5020	14B679	2.03
192	⑨ PSU19210	14B636	1.35				

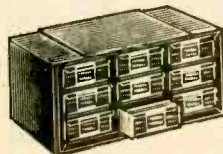
Horizontal Brackets for PSU

Stk. No.	Mfg. No.	Length	Each	Stk. No.	Mfg. No.	Description	Size	Each
14C585	HB-2	3 1/4"	\$0.13	14C589	PL3	On Motor	1 7/8"	\$0.08
14C586	HB-4	3 1/2"	.13	14C590	PL8	On Motor	2 1/8"	.12
14C588	HB-8	4 1/2"	.15	14C591	PLA3	Off Motor	1 7/8"	.08

SPRAGUE TUBULAR ELECTROLYTIC ASSORTMENT CABINET IS FREE

Contains 18 types, one each of the most often required capacitors from 25 through 450 volt, including dual types. Wt. 4 lbs.

No. 15A959. Complete with Cabinet... **\$16.14**



SPRAGUE SUB-MINIATURE ELECTROLYTICS



Sprague Type TE Little-Lytics for transistorized equipment, radios, etc. Highly dependable, low leakage, long shelf life. Metal encased with plastic sleeve. Welded connections eliminating intermittents and opens. Temperature range to 85° C (185° F).

3 WORKING VOLTS DC

Cap. Mfd.	Stock No.	Mfg. No.	Size Inches	1-24	25-49	50-99	100 Up
5	15A615	TE1052.2	7/8 x 1/2"	\$0.51	\$0.37	\$0.29	\$0.23
10	15B883	TE1053	7/8 x 1/2"	.51	.37	.29	.23
25	15A926	TE1055	1 1/4 x 1/2"	.51	.37	.29	.23
50	15A985	TE1058	1 1/4 x 1/2"	.72	.53	.41	.33
100	15A616	TE1059.5	7/8 x 1/2"	.81	.61	.47	.38
300	15A622	TE1066	3/8 x 1/2"	.87	.65	.51	.41
500	15A623	TE1068	3/8 x 1/2"	.99	.74	.58	.46

6 WORKING VOLTS DC

1	15B893	TE1080	7/8 x 1/2"	.54	.38	.30	.24
2	15B896	TE1081	7/8 x 1/2"	.54	.38	.30	.24
3	15B848	TE1082	7/8 x 1/2"	.54	.38	.30	.24
4	15B849	TE1083	7/8 x 1/2"	.54	.38	.30	.24
5	15B914	TE1084	7/8 x 1/2"	.54	.38	.30	.24
10	15B912	TE1087	1 1/4 x 1/2"	.54	.38	.30	.24
15	15B930	TE1089	1 1/4 x 1/2"	.54	.38	.30	.24
25	15B931	TE1091	1 1/4 x 1/2"	.54	.38	.30	.24
30	15B872	TE1092	1 1/4 x 1/2"	.57	.42	.33	.26
60	15B915	TE1101	3/8 x 1 1/4"	.75	.55	.43	.34
100	15B916	TE1102	3/8 x 1 1/4"	.81	.61	.47	.38
150	15A624	TE1103	3/8 x 1 1/4"	.81	.61	.47	.38
250	15A625	TE1105	3/8 x 1 1/4"	.87	.65	.51	.41
300	15A628	TE1106	3/8 x 1 1/2"	.93	.69	.54	.43

10 WORKING VOLTS DC

10	15B937	TE1114	1 1/4 x 1/2"	.57	.41	.32	.25
50	15A629	TE1119	3/8 x 1 1/4"	.81	.61	.47	.38
100	15A632	TE1119.3	3/8 x 1 1/4"	.81	.61	.47	.38
200	15A633	TE1119.6	3/8 x 1 1/4"	.96	.71	.55	.44

12 WORKING VOLTS DC

1	15A637	TE1120	7/8 x 1/2"	.57	.41	.32	.25
2	15A639	TE1121	7/8 x 1/2"	.57	.41	.32	.25
5	15A641	TE1127	7/8 x 1/2"	.57	.41	.32	.25
10	15A643	TE1128	7/8 x 1/2"	.57	.41	.32	.25
25	15A645	TE1131	1 1/4 x 1/2"	.75	.55	.43	.34
50	15A646	TE1133	3/8 x 1 1/4"	.81	.61	.47	.38
100	15A647	TE1135	3/8 x 1 1/4"	.81	.61	.47	.38
200	15A648	TE1137	3/8 x 1 1/4"	.96	.71	.55	.44
250	15A667	TE1138	3/8 x 1 1/4"	.57	.42	.32	.26

15 WORKING VOLTS DC

Cap. Mfd.	Stock No.	Mfg. No.	Size Inches	1-24	25-49	50-99	100 Up
1	15A927	TE1148	7/8 x 1/2"	.57	.41	.32	.25
2	15A671	TE1149	7/8 x 1/2"	.57	.41	.32	.25
4	15A675	TE1151	7/8 x 1/2"	.57	.41	.32	.25
5	15B965	TE1152	1 1/4 x 1/2"	.57	.41	.32	.25
10	15B966	TE1155	1 1/4 x 1/2"	.57	.41	.32	.25
15	15A676	TE1156	1 1/4 x 1/2"	.57	.41	.32	.25
20	15B967	TE1157	1 1/4 x 1/2"	.57	.41	.32	.25
25	15A677	TE1157.1	7/8 x 1/2"	.75	.55	.43	.34
30	15B968	TE1158	7/8 x 1/2"	.75	.55	.43	.34
50	15A678	TE1160	3/8 x 1 1/4"	.81	.61	.47	.38
100	15B982	TE1162	3/8 x 1 1/4"	.81	.61	.47	.38
150	15A679	TE1163	3/8 x 1 1/4"	.87	.65	.51	.41
200	15A680	TE1164	3/8 x 1 1/2"	.96	.72	.56	.45

25 WORKING VOLTS DC

1	15A681	TE1200	7/8 x 1/2"	\$0.54	\$0.41	\$0.32	\$0.25
2	15A682	TE1201	7/8 x 1/2"	.54	.41	.32	.25
5	15B969	TE1202	7/8 x 1/2"	.57	.43	.33	.27
6	15B917	TE1203	1 1/4 x 1/2"	.57	.43	.33	.27
10	15B971	TE1204	1 1/4 x 1/2"	.60	.44	.34	.27
15	15B972	TE1205	1 1/4 x 1/2"	.75	.55	.43	.34
20	15B981	TE1206	3/8 x 1 1/4"	.81	.61	.47	.38
25	15A683	TE1207	3/8 x 1 1/4"	.81	.61	.47	.38
35	15A986	TE1208	3/8 x 1 1/4"	.81	.61	.47	.38
50	15A684	TE1209	3/8 x 1 1/4"	.81	.61	.47	.38
100	15A685	TE1211	3/8 x 1 1/2"	.90	.66	.52	.41

50 WORKING VOLTS DC

1	15A686	TE1300	7/8 x 1/2"	.54	.41	.32	.25
2	15A687	TE1301	7/8 x 1/2"	.54	.41	.32	.25
3	15B697	TE1302	1 1/4 x 1/2"	.57	.42	.33	.26
4	15B761	TE1302.1	1 1/4 x 1/2"	.57	.42		

Mylar-Paper-Polystyrene Capacitors

CORNELL-DUBILIER CAPACITOR ASSORTMENTS

PLASTIC 6 DRAWER CABINET IS FREE
You pay only for the capacitors



Assortment of DPMS Dipped Paper Mylars. Consists of 95 selected 600 volt DPMS capacitors from .001 mfd. through .22 mfd. No. 15B901. (Cabinet Free) Each. **\$18.75**

Assortment of PM Molded Mylar Tubulars. Consists of 95 selected 600 volt PM molded mylar tubulars from .001 mfd. through .22 mfd. No. 15B902. (Cabinet Free) Each. **\$18.90**

Assortment of WMF Wrapped Mylar Tubulars. Consists of 55 selected 100 volt WMF mylar tubulars from .001 through .47 mfd. No. 15B903. (Cabinet Free) Each. **\$15.30**

CORNELL-DUBILIER DIPPED PAPER MYLARS

TYPE DPMS radial lead design ideal for present day printed board or point-to-point assembly. Perfectly sealed by multiple dipped process, mylar-paper dielectric. High temperature -55 to +125° C. Tol. ±10%.



200 VOLT					600 VOLT				
Mfd.	Size	Stk. No.	Each	Price	Mfd.	Size	Stk. No.	Each	Price
.022	.35x.85	15A688	\$15	.12	.001	.34x.69	15A809	\$15	.10
.047	.45x.85	15A694	.18	.13	.0015	.34x.69	15B836	.15	.10
.1	.47x1.2	15A699	.21	.15	.002	.34x.69	15A814	.15	.10
.15	.54x1.2	15B731	.24	.17	.0022	.34x.69	15B837	.15	.10
.22	.59x1.3	15A733	.27	.20	.0033	.37x.69	15B838	.15	.10
.47	.73x1.6	15A805	.36	.26	.0039	.37x.69	15B845	.15	.10
400 VOLT					600 VOLT				
.01	.39x.69	15B830	.15	.10	.005	.44x.69	15B840	.15	.10
.015	.43x.69	15B847	.15	.11	.0068	.44x.69	15A821	.15	.10
.02	.39x.85	15B831	.18	.13	.01	.39x.87	15A823	.18	.11
.022	.4x.85	15B870	.18	.13	.022	.44x.87	15B841	.18	.13
.047	.41x1.15	15B846	.21	.14	.027	.47x.87	15B842	.18	.13
.05	.41x1.2	15B833	.21	.14	.033	.42x1.1	15C880	.21	.15
.068	.44x1.2	15B871	.24	.17	.047	.49x1.1	15C881	.21	.15
.1	.5x1.2	15B834	.24	.17	.05	.49x1.1	15B843	.21	.15
.15	.56x1.3	15B872	.30	.20	.1	.64x1.1	15A826	.24	.15
.22	.62x1.5	15B783	.36	.25	.22	.75x1.5	15A832	.27	.21
.25	.6x1.6	15B835	.36	.25	.25	.83x1.5	15C882	.42	.28
							15B844	.42	.28

SPACE SAVING ULTRA-COMPACT TUBULARS Cornell-Dubilier WRAPPED MYLAR WMF

Encased in $\frac{1}{8}$ " tough Mylar film wrap, end sealed with high density plastic. Moisture proof, high stable long life units. Temperature range -55° to 125° C. Tolerance 10%. Order by Stock No. for each group and capacity.

Stk. No. 15A996 100 WVDC					Stk. No. 15A997 200 WVDC				
Mfd.	Size	Each	Price	Each	Mfd.	Size	Each	Price	Each
.001	.15x1/2"	\$0.21	\$0.14	\$0.11	.001	.15x1/2"	\$0.21	\$0.14	\$0.11
.01	.15x1/2"	.21	.15	.12	.01	.17x1/2"	.21	.15	.12
.022	.2x3/8"	.24	.16	.13	.022	.25x5/8"	.24	.16	.13
.033	.2x3/8"	.24	.16	.13	.033	.25x3/4"	.24	.16	.13
.047	.2x3/8"	.27	.18	.14	.047	.29x3/4"	.27	.17	.14
.068	.26x3/4"	.27	.18	.14	.068	.34x3/4"	.27	.18	.14
.1	.28x7/8"	.36	.23	.18	.1	.37x7/8"	.36	.23	.18
.22	.33x1"	.39	.26	.20	.22	.44x1 1/8"	.39	.26	.20
.33	.37x1 1/8"	.45	.29	.22	.33	.48x1 1/8"	.45	.29	.22
.47	.44x1 1/4"	.51	.33	.26	.47	.55x1 1/4"	.51	.33	.26
1.0	.6x1 1/2"	.87	.56	.44	1.0	.67x1 3/4"	.87	.56	.44
2.0	.8x1 3/4"	1.50	.98	.76	2.0	.87x1 7/8"	1.50	.98	.76
Stk. No. 15A998 400 WVDC					Stk. No. 15A999 600 WVDC				
.01	.25x5/8"	.27	.17	.13	.01	.3x3/4"	.30	.19	.15
.022	.3x3/4"	.27	.18	.14	.022	.37x1/8"	.30	.20	.15
.047	.34x7/8"	.30	.19	.15	.047	.45x1 1/8"	.33	.21	.16
.1	.4x1"	.33	.21	.17	.1	.56x1 3/8"	.42	.28	.22
.22	.55x1 3/8"	.42	.26	.21	.22	.72x1 1/8"	.51	.34	.27
.47	.67x1 1/8"	.78	.51	.39	.47	.86x2"	1.14	.75	.59

MALLORY PVC MYLAR CAPACITORS FLEXIBLE BLUE POLYVINYL COATED

High purity aluminum foil, 100% DuPont Mylar dielectric. Flat, space saving shape, min. size. Radial copper leads ideal for printed circuitry as well as conventional wiring. Flexible moisture seal at leads, will not crack, unaffected by soldering iron heat. Very low drift, 40 to 105° C. temp. range. Tol. ±10%. Sizes are thickness and length.



Order by Stk. No. and Mfd. Capacity

Stk. No. 15C410. 100 V. DC Working					Stk. No. 15B421. 400 V. DC Working				
Mfd.	Size	1-9	10-49	50-99	Mfd.	Size	1-9	10-49	50-99
.018	.7x1 1/4"	\$0.15	\$0.12	\$0.09	.47	.1x1 3/4"	\$0.45	\$0.35	\$0.27
.033	.7x1 1/4"	.15	.12	.09	.5	.1x1 1/2"	.46	.37	.28
.047	.7x1 1/4"	.15	.12	.10					
.1	.7x1 1/4"	.18	.15	.12					
.25	.7x1 1/4"	.24	.20	.16					
.33	.7x1 1/4"	.28	.23	.18					
.47	.7x1 1/4"	.31	.26	.20					
Stk. No. 15B420. 200 V. DC Working					Stk. No. 15B422. 600 V. DC Working				
.01	.7x1 1/4"	.15	.12	.09	.001	.1x1 1/2"	.15	.11	.08
.033	.7x1 1/4"	.15	.12	.10	.0015	.1x1 1/2"	.15	.11	.08
.05	.7x1 1/4"	.15	.12	.10	.002	.1x1 1/2"	.15	.11	.08
.1	.7x1 1/4"	.21	.16	.12	.0022	.1x1 1/2"	.15	.11	.08
.25	.7x1 1/4"	.24	.20	.16	.0025	.1x1 1/2"	.15	.11	.08
.5	.7x1 1/4"	.35	.29	.21	.0033	.1x1 1/2"	.15	.11	.08
1.0	.7x1 1/4"	.55	.43	.33	.0047	.1x1 1/2"	.15	.11	.08
Stk. No. 15B421. 400 V. DC Working					Stk. No. 15B422. 600 V. DC Working				
.0022	.1x1 1/2"	.15	.11	.08	.047	.1x1 1/2"	.24	.16	.12
.0047	.1x1 1/2"	.15	.11	.08	.05	.1x1 1/2"	.24	.16	.12
.01	.1x1 1/2"	.15	.11	.08	.1	.1x1 1/2"	.27	.21	.15
.02	.1x1 1/2"	.15	.12	.09	.15	.1x1 1/2"	.30	.25	.18
.047	.1x1 1/2"	.18	.15	.11	.25	.1x1 1/2"	.45	.29	.21
.05	.1x1 1/2"	.18	.15	.11	.47	.1x1 1/2"	.61	.48	.37
.1	.1x1 1/2"	.21	.17	.13	1.0	.1x1 1/2"	1.05	.84	.72

MOLDED TUBULAR CAPACITORS

Sprague TM-Difilm Black Beauty tubulars are dual dielectric (Mylar paper) with rock hard case of non-inflammable mica filled molded material. Black Beauties offer long life under high humidity and temperature conditions. Double marked for easy identification. Size Table: A-1/8x1"; B-3/8x1 1/4"; C-1/2x1 1/4"; D-1/2x1 1/2"; E-5/8x1 1/8"; F-3/4x2 1/8"; G-3/4x2 1/4"; H-1x2 1/2" Specify stock number and value when ordering.

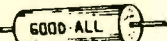


2TM Series 200 V. No. 15A3					6TM Series 600 V. No. 15A7				
Cap. Mfd.	Size Inches	Price Each	100-249	250-999	Cap. Mfd.	Size Inches	Price Each	100-249	250-999
.01	A	\$0.15	\$0.11	\$0.09	.005	B	\$0.15	\$0.11	\$0.09
.02	B	.15	.12	.09	.006	B	.15	.12	.09
.022	B	.15	.12	.09	.0068	B	.18	.12	.09
.047	C	.15	.13	.10	.008	BB	.18	.12	.10
.05	C	.15	.13	.10	.08	BB	.18	.12	.10
.1	D	.21	.14	.11	.015	BB	.18	.12	.10
.22	E	.24	.21	.16	.02	BB	.18	.13	.10
.25	E	.24	.21	.17	.022	CC	.18	.13	.10
.47	G	.36	.34	.31	.25	CC	.21	.14	.11
.5	G	.36	.35	.33	.27	CC	.21	.14	.11
1.0	G	.63	.54	.42	.34	CC	.21	.15	.12
4TM Series 400 V. No. 15A5					MB Series 1600 V. No. 15A9				
.001	A	.15	.11	.09	.07	.005	B	.39	.31
.01	B	.15	.11	.09	.07	.006	B	.39	.31
.02	BB	.15	.12	.09	.08	.0068	B	.39	.31
.022	BB	.18	.12	.09	.08	.1	B	.39	.32
.03	CC	.18	.12	.10	.08	.15	C	.39	.32
.047	CC	.18	.13	.10	.08	.2	C	.39	.32
.05	CC	.18	.14	.11	.09	.22	C	.39	.32
.068	DD	.21	.16	.11	.09	.25	C	.39	.32
.1	E	.21	.16	.12	.10	.5	H	.75	.67
.15	E	.24	.21	.17	.13	1.0	H	1.05	.89
.22	G	.27	.23	.18	.14				
.25	G	.30	.28	.26	.21				
.47	G	.45	.40	.31	.25				
.5	G	.45	.43	.34	.27				
1.0	H	.75	.69	.62	.49				
6TM Series 600 V. No. 15A7					PM Series 200 V. No. 15A22				
.0001	A	.15	.11	.09	.07	.001	A	\$0.21	\$0.15
.00025	A	.15	.11	.09	.07	.0015	A	.21	.15
.0005	A	.15	.11	.09	.07	.0022	B	.21	.15
.001	A	.15	.11	.09	.07	.0033	B	.21	.15
.0015	A	.15	.11	.09	.07	.0039	B	.21	.15
.002	A	.15	.11	.09	.07	.0047	B	.21	.15
.0022	A	.15	.11	.09	.07	.0056	B	.21	.15
.003	A	.15	.11	.09	.07	.0068	B	.21	.15
.0033	A	.15	.11	.09	.07	.01	B	.21	.15
.004	B	.15	.11	.09	.07	.0015	C	.21	.15
.0047	B	.15	.11	.09	.07	.0022	C	.21	.15
						.0033	C	.21	.15
						.0039	C	.21	.15
						.0047	C	.21	.15
						.0056	C	.21	.15
						.0068	C	.21	.15
						.01	C	.21	.15
						.015	C	.21	.15
						.022	DD	.21	.15
						.027	DD	.21	.15
						.033	DD	.21	.15
						.039	DD	.21	.15
						.047	DD	.24	.15
						.05	EE	.24	.15
						.082	EE	.27	.20
						.1	F	.27	.20
						.12	F	.27	.20

Capacitors & Capacitor Testers

TRW ELECTRONICS INSTRUMENT GRADE CAPACITORS FOR HIGH RELIABILITY

TYPE 663UW MYLAR SUB-MINIATURE TUBULAR
Plastic film enclosed, epoxy end fill. Highly stable, long life. Temperature range to 85° C. 10% tolerance.
Specify Stock Number and Capacity.



Stk. No. 15A213 100 V.		Stk. No. 15A214 200 V.		Your Choice Each		
Mfd.	Size	Mfd.	Size	1-24	25-49	50-99
.001	.156x1/2	.001	.156x1/2	\$0.62	\$0.37	\$0.26
.0022	.156x1/2	.0022	.156x1/2	.62	.37	.26
.0033	.156x1/2	.0033	.156x1/2	.62	.37	.26
.0047	.156x1/2	.0047	.156x1/2	.66	.40	.29
.0068	.156x1/2	.0068	.156x1/2	.66	.40	.29
.01	.156x1/2	.01	.171x1/2	.70	.42	.31
.022	.203x5/8	.022	.25x3/4	.70	.42	.31
.033	.218x5/8	.033	.25x3/4	.74	.44	.32
.047	.234x3/4	.047	.296x3/4	.74	.44	.32
.068	.265x3/4	.068	.343x3/4	.74	.44	.32
.1	.281x3/8	.1	.375x1/2	.78	.47	.34
.22	.328x1/2	.22	.438x1/2	.87	.51	.37
.33	.438x1/2	.33	.517x1/2	.90	.54	.40
.47	.468x1/2	.47	.546x1/2	.99	.59	.43
.68	.562x1/2	.68	.609x1/2	1.08	.64	.46
1.00	.593x1/2	1.00	.671x1/2	1.20	.72	.52
2.00	.812x1/2	2.00	.875x2	1.57	.94	.68

663UW available in 400, 600 and 1000 volt.

TYPE 601PE 50 VOLT MYLAR

Slim line type for transistor circuitry. Mylar non-inductive extended foil construction. Moisture tight, Epoxy case. Excellent temperature stability. 601PE offers higher stability, better reliability at greater economy than ceramic equivalents. All are 50 V. 10% tolerance.

Specify B-A Stock No. 15A899 and Capacity when ordering.

Mfd.		Size		1-24		25-49		50-99	
W.	H.	D.	Each	Each	Each	Each	Each	Each	Each
.01	.31	.56	.18	\$0.75	\$0.45	\$0.32	.068	.53	.24
.015	.31	.56	.18	.78	.47	.34	.1	.65	.24
.022	.36	.56	.18	.83	.50	.36	.15	.67	.26
.033	.53	.40	.19	.87	.52	.37	.22	.73	.29
.047	.53	.45	.20	.91	.55	.40	.33	.81	.31

Other tolerances and 35 and 600 volt units are also available.

TYPE X663F METALIZED MYLAR

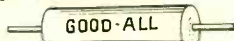
Ultra-miniature, lightweight, long life capacitors. These highly stable instrument grade units are ideal where space saving is a factor. Tolerance 10%. Closer tolerance and higher voltage units are available. Specify Stock Number and Capacity.



Stk. No. 15A217 100 V.		Stk. No. 15A229 200 V.		Your Choice Each			
Mfd.	Depth	Width	Lgth.	Mfd.	Depth	Width	Lgth.
.01	.125	.187	1/8	.01	.125	.187	1/8
.022	.171	.250	1/8	.022	.171	.250	1/8
.033	.187	.265	1/8	.033	.187	.265	1/8
.047	.156	.265	1/8	.047	.156	.265	1/8
.068	.187	.296	1/8	.068	.187	.296	1/8
.1	.218	.328	1/8	.1	.218	.328	1/8
.22	.234	.375	1/8	.22	.234	.375	1/8
.33	.250	.421	1/8	.33	.250	.421	1/8
.47	.312	.484	1/8	.47	.312	.484	1/8
.68	.312	.515	1/8	.68	.312	.515	1/8
1.00	.390	.578	1/8	1.00	.390	.578	1/8
1.50	.406	.578	1/4	1.50	.406	.578	1/4
2.00	.406	.718	1/4	2.00	.406	.718	1/4
5.00	.515	.906	1/4	5.00	.515	.906	1/4
10.0	.515	.921	1/4	10.0	.515	.921	1/4

NEW TYPE 463UW POLYCARBONATE DIELECTRIC

463UW capacitors offer extremely high insulation resistance (75,000 megohm-microfarads), full rating to 125° C. and small size.



Stk. No. 15A11 50 Volt		Stk. No. 15A20 100 Volt		Your Choice Each		
Mfd.	Size	1-24	25-49	50-99	Mfd.	Size
.01	.297x5/8	0.70	0.43	0.31	.01	.297x3/4
.047	.328x3/4	.89	.54	.38	.047	.375x3/4
.1	.359x3/4	1.12	.67	.48	.1	.422x1
.47	.547x1 1/8	1.59	.96	.69	.47	.641x1 5/8
1.0	.641x1 1/2	2.03	1.23	.89	1.0	.812x1 7/8

CORNELL-DUBILIER TYPE T OIL-FILLED CAPACITORS

Rectangular can, 85° tolerance ± 10%. Oil filled, hermetically sealed. Transmitting capacitor. Supplied with universal mounting as illustrated. Avg. shpg. wt. 5 lbs.



Stk. No.	Mfg. No.	Mfd.	Volts	Size	Prices Each			
					1-9	10-24	25-49	50-99
15A1359	T6010	1	600	2 1/4 x 1 1/8 x 1 1/8	\$3.16	\$1.66	\$1.51	\$1.41
15A1360	T6020	2	600	2 7/8 x 1 1/8 x 1 1/8	3.67	1.92	1.74	1.62
15A1361	T6040	4	600	3 1/2 x 1 1/8 x 2 1/2	4.87	2.52	2.28	2.12
15A1368	T10040	4	1000	4 3/4 x 1 1/8 x 2 1/2	5.44	2.80	2.54	2.36
15A1370	T10100	10	1000	4 3/4 x 1 3/4 x 3 3/4	9.31	4.74	4.28	3.97
15A1383	T20010	1	2000	3 7/8 x 1 1/8 x 2 1/2	5.65	3.09	2.79	2.60

CORNELL-DUBILIER BATHTUB TYPE DYR

All units listed have two insulated terminals. Inductively wound, oil filled, hermetically sealed in metal can. ± 20% tolerance—operating temperature to 85° C.



Stk. No.	Mfg. No.	Mfd.	WVDC	Size	Prices Each			
					1-9	10-24	25-49	50-99
15B345	DYR6025	.25	600	1 1/8 x 1 x 3/4	\$1.83	\$1.22	\$1.07	\$0.76
15B349	DYR6050	.5	600	1 1/8 x 1 x 3/8	1.92	1.28	1.12	.80
15B351	DYR6100	1.	600	2 x 1 3/4 x 1 1/8	2.19	1.46	1.28	.91
15B359	DYR6200	2.	600	2 x 2 x 1 7/8	2.91	1.94	1.70	1.21
15A328	DYR10100	1.	1000	2 x 2 x 1 7/8	2.73	1.83	1.60	1.10

CORNELL-DUBILIER METALIZED CAPACITORS MPY

• 125° C • SPACE SAVING
• MOISTURE RESISTANT

Type MPY. Metalized paper dielectric enclosed in moisture proof tri-clad case. Small size, wax free, non-leaking, operates up to 125° C. without de-rating. Tolerance ± 20%. Specify stock number and cap.



Stk. No. 15B6 200 Volt			Stk. No. 15B8 400 Volt						
Mfd.	Size	1-24	25-49	50-99	Mfd.	Size	1-24	25-49	50-99
.022	1/4 x 5/8	\$0.45	\$0.34	\$0.26	.022	1/8 x 5/8	\$0.45	\$0.34	\$0.26
.047	1/4 x 3/8	.45	.34	.26	.047	1/8 x 5/8	.48	.36	.28
.1	3/8 x 5/8	.54	.38	.30	.1	3/8 x 1 1/8	.60	.43	.33
.22	1/2 x 5/8	.66	.47	.37	.22	1/2 x 1 1/8	.72	.54	.42
.47	3/4 x 1 1/8	.78	.56	.44	.47	3/4 x 1 1/8	.96	.72	.56
1.00	1 x 1 1/8	1.08	.81	.63	1.00	1 x 1 1/8	1.32	.99	.77
2.00	5/8 x 1 1/8	1.47	1.10	.86	2.00	1 1/8 x 2 3/8	1.74	1.31	1.01

Stk. No. 15A21 600 Volt		Mfd.			Size				
Mfd.	Size	1-24	25-49	50-99	Mfd.	Size	1-24	25-49	50-99
.01	1/4 x 5/8	\$0.45	\$0.34	\$0.26	.47	5 x 1 1/8	\$1.14	\$0.86	\$0.67
.047	3/8 x 3/8	.54	.41	.32	1.0	3/8 x 1 1/8	1.44	1.08	.84
.1	3/8 x 1 1/8	.60	.45	.35	2.0	3/8 x 2 3/8	2.10	1.58	1.23

AEROVOX MOLDED SILVER MICA CAPACITORS

(K) Enclosed in XM molded bakelite, 1000-volt test, 500-volt working, ± 5% Tol. *300 V. DCW. English marked and color coded.

Type CM-20

Type CM-30

Sizes: K- $\frac{1}{8} \times \frac{1}{8} \times \frac{1}{8}$; C- $\frac{1}{8} \times \frac{1}{8} \times \frac{1}{4}$; C*- $\frac{1}{8} \times \frac{1}{8} \times \frac{1}{2}$.

Specify Stk. No. 15B191 and Capacity

Type 1469 (Similar to CM30-2)				Type 1464 (Similar to CM30-35)						
Fig.	Mfd. Capacity	1-24 Each	25-99 Each	Fig.	Mfd. Capacity	1-24 Each	25-99 Each			
K	.000005	.00001	\$1.18	\$1.17	\$0.09	C	.00051	\$3.33	\$3.30	\$1.17
K	.000022	.000025	.18	.17	.09	C	.00056	.36	.33	.18
K	.000027	.000033	.18	.17	.09	C	.00068	.39	.36	.20
K	.000039	.00004	.18	.17	.09	C	.00075	.39	.36	.20
K	.000047	.00005	.18	.17	.09	C	.00082	.42	.39	.21
K	.000051	.000056	.18	.17	.09	C	.001	.45	.41	.23
K	.000068	.00007	.18	.17	.09	C	.0015	.51	.47	.26
K	.000075	.0001	.18	.17	.09	C	.002	.60	.55	.30
K	.00015	.0002	.21	.19	.11	C	.0025	.72	.66	.36
K	.00025	.0003	.24	.22	.12	C	.003	.84	.77	.42
K	.00035	.0004	.30	.28	.15	C	.004	1.02	.94	.51
K	.00049	.0004	.30	.28	.15	C	.005	1.20	1.10	.60
K	.00037	.0005	.33	.30	.17	C*	.001	1.86	1.71	.93

AEROVOX DIPPED SILVERED MICAS

• Smaller size. • Radial leads. • -55° to 125° C. temperature range. • Meets MIL C-58 tests. Dipped plastic coated. ADM-15 5mmf. thru 500 mmf. are all $\frac{1}{8}$ " long, $\frac{1}{16}$ " wide, $\frac{1}{32}$ " thick. All are 500 volt except *300 V. †Type ADM 19, Size $\frac{1}{8} \times \frac{1}{8} \times \frac{1}{32}$.



Order by Stock Number 15D143 and Capacity			
Mfd. Capacity	1-24 Each	25-99 Each	100 Each
.000005	\$0.17	\$0.15	\$0.08
.00001	.17	.15	.08
.000022	.17	.15	.08
.000033	.17	.15	.08
.000047	.17	.15	.08
.000051	.17	.15	.08
.000068	.17	.15	.08
.000075	.17	.15	.08
.0001	.17	.15	.08

NEW SPRAGUE TO-6 CAPACITOR ANALYZER INCLUDES BURN-OUT-PROOF METER



Moderately priced, laboratory quality and accuracy. Measure capacity up to 2000 mfd. in five overlapping ranges. Special 1 mmf. to 100 mmf. range. Safely tests low voltage transistor capacitors. Insulation resistance read directly on meter, up to 50,000 megohms. No guessing with neon bulbs. Leakage current measured directly on meter with exact rated voltage (up to 600 volts available) applied. Power factor measured by Wien bridge. Magic-eye tube simplifies bridge balancing and power factor measurements. Push button switching speeds operation. Size 8 7/8" high, 14 7/8" wide, 6 7/8" deep. Wt. 12 1/2 lbs.

No. 35A19. Complete **\$99.50**

NEW MERCURY ELECTRONICS MODEL 1400 IN-CIRCUIT CAPACITOR TESTER

Save valuable time by testing capacitors in the circuit without unsoldering and resoldering.

Short Test: detects shorted capacitors of all types in-circuit with shunt resistance to 6 ohms.

Open Test: detects open capacitors in-circuit with shunt resistance as low as 15 ohms.

Value Test: indicates capacitor value in-circuit from 2 to 450 mfd.

Hi-Leak Test: sensitive to 150 megohm—Tests at 300 volts DC.

Features: • Special low test voltage provided for safely testing transistor low voltage electrolytics. • Highly sensitive rectangular tuning eye indicator.

Two-tone metal cabinet, 10x6 1/4 x 4 1/2". Wt. 4 lbs. **\$24.95**

No. 35B7. Model 1400 Kit. Net Each **\$34.95**

No. 35D36. Model 1400. Wired ready to use. Net each **\$34.95**

Ceramic Capacitors, Delay Relays

SPRAGUE CERAMIC CAPACITORS GENERAL PURPOSE TYPES



Selected for superior performance in specific applications as described with each type.

SPRAGUE TYPE HIGH-K

HIGH CAPACITY GENERAL PURPOSE CERAMICS

For by-pass and coupling circuits.

Stk. No.	Cap.	WVDC	1-99	100-249	Stk. No.	Cap.	WVDC	1-99	100-249
15A177	.01 Mfd.	1000	.15	.06	15B329	.04 Mfd.	500	.27	.20
15B250	.015 Mfd.	500	.15	.08	15A194	.05 Mfd.	500	.27	.20
15B327	.02 Mfd.	500	.15	.09	15A195	.1 Mfd.	500	.78	.58

SPRAGUE TYPE TG

MINIATURE DISCS FOR TRANSISTOR CIRCUITRY, 50 VOLTS DC WORKING
Designed for transistor, coupling and by-pass.

Stk. No.	Mfg. No.	Mfd.	1-99	100-249	Stk. No.	Mfg. No.	Mfd.	1-99	100-249
15B552	TGD50	.005	.15	.09	15B554	TGS30	.03	.15	.11
15B553	TGS10	.01	.15	.08	15B555	TGS50	.05	.30	.21
15B557	TGS20	.02	.15	.11	15B556	TGP10	.1	.39	.28

SPRAGUE TYPE BL

2000 VOLT CERAMIC DISCS FOR BUFFER APPLICATIONS Low Cost—Small Size—Light Weight

Stk. No.	Mfg. No.	Mfd.	1-99	100-249	Stk. No.	Mfg. No.	Mfd.	1-99	100-249
15B952	BL-D10	.001	.21	.16	15B957	BL-D60	.006	.21	.16
15B953	BL-D20	.002	.21	.16	15B958	BL-D70	.007	.21	.16
15B954	BL-D30	.003	.21	.16	15B960	BL-D80	.008	.21	.16
15B955	BL-D40	.004	.21	.16	15B961	BL-S10	.01	.24	.18
15B956	BL-D50	.005	.21	.16					

SPRAGUE HIGH VOLTAGE DISCS

TYPE 30GA 3000 W.V.D. C. GENERAL PURPOSE

Stk. No.	Mmf.	Size	1-99	100-249	Stk. No.	Mmf.	Size	1-99	100-249
15A869	10	3/8	.15	.10	15A877	220	3/8	.15	.10
15B385	50	3/4	.15	.10	15A878	500	3/8	.21	.15
15A874	68	3/4	.15	.10	15A868	.0022 Mfd.	3/8	.21	.15
15A875	100	3/8	.15	.10	15A873	.005 Mfd.	3/8	.24	.17
15A876	150	3/8	.15	.10					

TYPE 75GA, 7500 W.V.D. C. GENERAL PURPOSE

Stk. No.	Mmf.	Size	1-99	100-249	Stk. No.	Mmf.	Size	1-99	100-249
15A890	33	3/4	.42	.32	15B388	100	1 1/8	.42	.32
15B387	47	3/4	.42	.32	15A894	470	3/4	.48	.36

SPRAGUE TEMPERATURE COMPENSATING DISCS

NPO ZERO DRIFT WITH TEMPERATURE—1000 W.V.D.C.

Stk. No.	Mmf.	Size	1-99	100-249	Stk. No.	Mmf.	Size	1-99	100-249
15A767	1.	3/8 x 3/8	.15	.06	15B335	25	1 1/2 x 3/8	.15	.06
15A768	1.5	3/8 x 3/8	.15	.06	15B336	33	1 1/2 x 3/8	.15	.06
15A769	2.2	3/8 x 3/8	.15	.06	15B337	47	1 1/2 x 3/8	.15	.07
15A770	3.3	3/8 x 3/8	.15	.06	15B338	68	3/4 x 3/8	.15	.07
15A771	4.7	3/8 x 3/8	.15	.06	15B339	100	3/4 x 3/8	.15	.07
15A772	6.8	3/8 x 3/8	.15	.06	15B340	150	3/4 x 3/8	.15	.10
15B332	10	3/8 x 3/8	.15	.06	15B379	220	3/8 x 3/8	.18	.12
15B333	15	3/8 x 3/8	.15	.06	15B380	270	3/8 x 3/8	.24	.17
15B334	22	3/8 x 3/8	.15	.06					

CENTRALAB TRANSMITTING CERAMICS



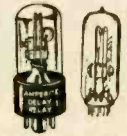
For high frequency circuits. Tolerance type 850 ± 10%; 858 ± 20%. All have 6-32 tapped studs except * which has solder lugs. Size 1 1/8" x 3/8" long. 5000 volts.

Stk. No.	Mfg. No.	Cap. Mmf.	Temp. Coeff.
15B787*	850SL	100	N750
15A246	850S	100	N750
15A247	858S	500	Hi K
15A248	858S	1000	Hi K

CHOICE, EACH \$2.70

AMPERITE TIME DELAY RELAY

Thermostatic type hermetically sealed, unaffected by altitude, moisture or other atmospheric conditions. Contacts are SPST rated at 3 amps. Standard type are 2 7/8" high, less pins, x 1 1/4" maximum diameter, have octal base. Miniature type are 2 1/2" above pins x 7/8" diameter with 9 pin miniature base.



See ordering information below.

Delay Sec.	Normally Open Contacts		Normally Closed Cont.	
	6.3	12	6.3	12
2	26N02	115N02	2 6C2	26C2
3	6N03	115N03	3 6C3	26C3
5	6N05	115N05	5 6C5	26C5
8		115N08	8	
10	6N010	115N010	10	26C10
15	6N015	115N015	15	6C15
20	6N020	115N020	20	6C20
30	6N030	115N030	30	6C30
45	6N045	115N045		
60	6N060	115N060	60	6C60
90	6N090	115N090	90	6C90
120	6N0120	115N0120	120	6C120
180	6N0180	115N0180	180	6C180

No. 20B805. STANDARD OCTAL BASE TIME DELAY RELAY. For standard octal base types specify our stock number and Amperite type number.
No. 20B806. 9-PIN MINIATURE TIME DELAY RELAY. For 9-pin miniature type specify our stock number and add T to Amperite type number.
26N0180, 115N0180, 26C180, 115C180 not available in Min. 9-Pin Series.
Your Choice of any type, Net Each \$2.35

CENTRALAB GENERAL PURPOSE CERAMIC DISCS TYPE DD

Highly efficient general purpose capacitor. Durez insulation with overall protective coating for maximum protection against humidity and voltage breakdown. 1000 DC volts working, *600 V. Tolerance 10% through 1500 Mmf., balance guaranteed minimum value. Size .156" maximum thickness, 5 thru 820 mmf. .290" dia., 1000 thru 2500 .385" dia., 3300 thru 6800 .59 dia., .01 is .69" dia. and .02 is .92" dia.



Mmf.	Mmf.	Mmf.	Mmf.	Mmf.	Mmf.	Mmf.	Mfd
5	25	56	150	300	560	2000	*.01
10	27	68	180	330	680	2200	*.02
12	30	75	200	350	750	3300	
15	33	82	220	360	800	4000	
18	39	91	240	390	820	4700	
20	47	100	250	470	1000	5000	
22	50	120	270	500	1500	6800	

Specify No. 15B121 and Capacity from table above

	1-24	25-99	100-249	250-499
.5 Mmf. through 6800 Mmf.	\$.15	\$.12	\$.10	\$.075
.01 Mfd.	.24	.19	.16	.12
.02 Mfd.	.45	.36	.30	.225

CENTRALAB HI-CAPACITY LOW VOLTAGE DISCS

TYPE UK, UK10, DA, CK, DDM

For transistor circuits requiring high capacity and very low power factor combined with small size and light weight.



Stk. No.	Mfd.	Dia.	1-24	25-99	Stk. No.	Mfd.	Dia.	1-24	25-99
15A886	.1	3/8"	\$.42	\$.34	15B560	.01	3/8"	Each	Each
15A855	.47	3/8"	.24	.19	15B561	.02	3/8"	.21	.16
15A856	1.	3/8"	.36	.28	15B563	.03	3/8"	.21	.16
15A858	.05	1/4"	.18	.14	15B564	.05	3/8"	.30	.24
15A859	.1	3/8"	.18	.14	15B566	.1	3/8"	.60	.47
15A860	.2	3/8"	.18	.14					
15A861	.47	3/8"	.42	.33					
15A862	.02	1/2" sq.	.36	.28					
15A864	.1	1/2" sq.	1.35	1.07					

CENTRALAB ZERO CHANGE TYPE TCZ

Used in frequency determining circuits fixed or trimmed, in precise applications or capacitance standards. Show zero change from -20° to 85° C. Tubular type, 600 V. DC 5 thru 39 mmf. size .2" dia. x .4"; 43 thru 68 mmf. .2" dia. x .69"; 100 mmf. .225" x .86". Tol. ± .25 mmf through 10 mmf; ± 2% through 100 mmf.



Stk. No.	Mmf.	Stk. No.	Mmf.	Stk. No.	Mmf.	Stk. No.	Mmf.
15A260	.5	15A280	10	15A309	27	15C373	47
15A268	1.5	15A281	15	15A310	33	15C374	62
15A269	3.3	15A282	20	15A311	39	15C375	68
15A277	4.7	15A308	24	15A312	43	15C376	100

Your Choice 1-24 Ea. 30c 25-99 Ea. 23c 100-249 Ea. 20c

CENTRALAB NEG. 750 TYPE TCN

Shows negative capacity of 750 parts per million per degree C rise in temperature. 600 V. DC. Size 3.3 through 100 mmf. .2x.4; 120 through 180 mmf. .2x.69; 240 mmf. .225x.86; 300 mmf. .285x1.16.



Stk. No.	Mmf.	Stk. No.	Mmf.	Stk. No.	Mmf.	Stk. No.	Mmf.
15B220	3.3	15B232	20	15A179	47	15B153	120
15A148	5.	15A151	24	15B324	56	15B342	180
15A149	10.	15A178	30	15A180	68	15B344	240
15A150	15.	15B249	39	15A218	100	15B352	300

3.3 thru 240 mmf. 1-24 Ea. 30c 25-99 Ea. 23c 100-249 Ea. 20c
300 Mmf. 1-24-Ea. 45c 25-99 Ea. 35c 100-249 Ea. 30c

CENTRALAB CERAMIC TRIMMERS



Type 825. Provides precision adjustment with smooth linear change per degree rotation. Miniature size, 3/16" x 1/8" wide. 500 V. DC W. NPO are zero drift; N300 and N500 have uniform negative change 300 and 500 parts per million per degree C.

Stk. No.	Mmf.	Type	Stk. No.	Mmf.	Type	Stk. No.	Mmf.	Type
15A567	1.5-7	NPO	15A569	4-30	N500	15A570	7-45	N500
15A568	3-12	NPO	15B516	5-20	N300			

Your Choice, 1-9 Each \$1.17 10-24, Each 98c



Type 827. Features small size, high stability linear adjustment and simple mounting. Size 1/8" wide, 3/4" long. Has two hole phenolic mounting plate, requires 3/8" hole if mounted through chassis. 500 W. V. DC, insulation resistance greater than 10K meg.

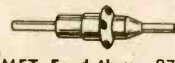
Stk. No.	Mmf.	Type	Stk. No.	Mmf.	Type
15B662	2.5-7	827A	15B664	6-30	827C
15B663	3.5-12	827B	15B666	7-35	827D

Your Choice, 1-9 Each 90c 10-24, Each 75c

CENTRALAB CERAMIC FEED-THRU CAPACITORS



Type FT



Type MFT

FT Feed-thru. Efficient RF bypassing with terminals to support other components or use as tie points. Tolerance 20% for 1000 mmf. and +50 -20% for 1500 mmf. 500 WV DC.

Stk. No.	Mmf.	1-24	25-49	15B522	50	10%	30c	24c
15B658	1000	75c	60c	15B527	100	10%	30c	24c
15B659	1500	75c	60c	15B532	1000	GMV	30c	24c

B-A Offers Factory OEM Prices and Off-Shelf Delivery

Voltage Control Transformers

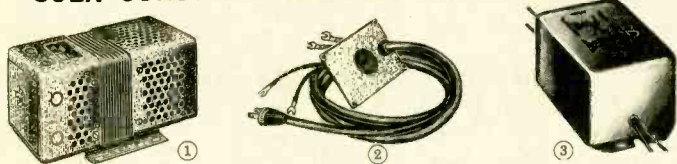
OHMITE "VT" VARIABLE TRANSFORMERS



Compact industrial duty voltage control auto-formers wound on toroidal cores. Variable output is from zero to 17% above line voltage for all except types with "N" suffix in Mfg. No. The "N" types are limited to line voltage maximum and provide more current due to heavier winding. Types with "E" suffix in No. are intended for permanent mounting on table, panel or in-conduit line. Portable units with "F" suffix have line cord, outlet and fuse. Open frame types have screw terminal board with clearly marked schematic. VT20B is fully enclosed, surface mounting. VT4, VT4N, VT8, VT8N and VT20 shafts can be extended from either end for panel or bench mounting. All have low resistance brush contact of exclusive Ohmite design, which for years has distinguished famous Ohmite rheostats, and feature long life with low maintenance, voltage regulation independent of load, no wave form distortion and very low temperature rise. Dimensions are largest overall sizes. Mountings are fully interchangeable with competitive units of similar ratings. VTO2E and VTO2F 50 cycle ratings apply only if overvoltage feature is not used.

Stock No.	Mfg. No.	Input Volts	Input Cycles	Output Volts	Output Amps	Wt. Lbs.	Size	1-9 Each	10-24 Each
37C304	VT1	120	60	0-120/132	1.0	1.5	2 1/2 x 1 1/2	\$ 8.00	\$ 7.20
37C312	VT1N	120	60	0-120	1.2	1.5	2 1/2 x 1 1/2	8.00	7.20
37C317	VTO2	120	60	0-120/132	1.75	2.25	2 1/2 x 2 1/2	9.00	8.10
37D322	VTO2N	120	60	0-120	2.0	2.25	2 1/2 x 2 1/2	9.00	8.10
37B287	VTO2E	120	50-60	0-120/132	1.4	2.8	4 1/2 x 3 1/2 x 2 1/2	14.00	12.60
37B288	VTO2F	120	50-60	0-120/132	1.75	3.2	4 1/2 x 3 1/2 x 2 1/2	15.50	13.95
37C326	VT3	120	60	0-120/132	2.6	3.0	2 1/2 x 2 1/2	10.50	9.45
37B328	VT3N	120	60	0-120	3.0	3.0	2 1/2 x 2 1/2	10.50	9.45
37B289	VT4	120	50-60	0-120/140	3.5	5.25	4 1/2 x 4 1/2	14.00	12.60
37B292	VT4N	120	50-60	0-120	4.75	5.25	4 1/2 x 4 1/2	14.00	12.60
37B294	VT4F	120	50-60	0-120/140	3.5	7.8	6 x 4 1/2 x 4 1/2	20.50	18.45
37B295	VT8	120	50-60	0-120/140	7.5	10.25	5 1/2 x 5 1/2	18.00	16.20
37B296	VT8N	120	50-60	0-120	10.0	10.25	5 1/2 x 5 1/2	18.00	16.20
37B297	VT8E	120	50-60	0-120/140	6.0	13.5	7 1/2 x 5 1/2 x 5 1/2	23.00	20.70
37B299	VT8F	120	50-60	0-120/140	7.5	13.8	7 1/2 x 5 1/2 x 5 1/2	24.50	22.05
37B302	VT20	120	50-60	0-120/140	20.0	22.0	5 1/2 x 8 1/2	50.00	45.00
37B305	VT20B	120	50-60	0-120/140	20.0	22.5	7 1/2 x 8 1/2 x 4 1/2	55.00	49.50

SOLA CONSTANT VOLTAGE TRANSFORMERS



STANDARD SINUSOIDAL TYPE CVS

Harmonic-free, static-magnetic line voltage regulators having ultra-fast regulating action. Response time 1.5 cycles or less. Output voltage is constant within $\pm 1\%$ with input voltage variation as great as $\pm 15\%$. Less than 3% total RMS harmonic content in output; therefore well suited for critical instruments and systems. All Type CVS Transformers have exposed core, end housings and screw terminals in outlet box, Fig. 1 above. Units of like type may be paralleled to increase output.

Stock No.	Mfr's. Type	*Input Volts	Output Volts	Output Watts	Size L. W. H.	Shpg. Wt.	Net Price 1-4	5-9
31A35	23-13-060	95 to 130	118	60	6 1/2 x 4 x 5 1/2	10	\$32.00	\$28.80
31A36	23-22-112	Note 1	118	120	8 x 4 x 5 1/2	10	41.00	36.90
31B33	23-22-125	Note 1	118	250	9 1/2 x 5 1/2 x 7 1/2	14	56.00	50.40
31B34	23-22-150	Note 1	118	500	12 1/2 x 9 x 6 1/2	14	87.00	78.30
31A37	23-25-210	Note 2	118 & 236	1000	17 1/2 x 9 x 6 1/2	80	146.00	131.40
50A111	23-25-220	Note 2	118 & 236	2000	19 1/2 x 12 1/2 x 10 1/2	80	265.00	238.50
50A120	23-25-230	Note 2	118 & 236	3000	21 1/2 x 12 1/2 x 10 1/2	183	356.00	320.40

*Input Volts: Note 1 dual range, 95 to 130 and 190 to 260 volts; Note 2 three range input, 95 to 130, 175 to 235 and 190 to 260 volts.

NORMAL-HARMONIC TYPE CVN

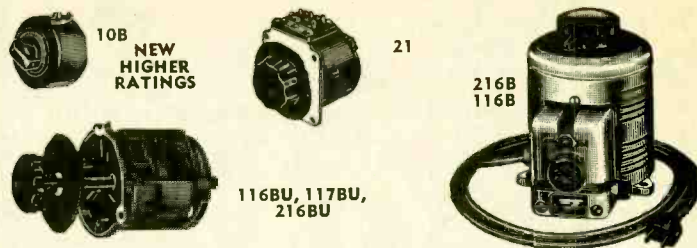
Reliable regulators for most electrical loads, such as filaments, relays, solenoids and other transformers serving AC loads. Regulation $\pm 1\%$ with input voltage variation as great as $\pm 15\%$. Average total RMS harmonic content in output voltage, 14%. Input 95 to 130 volts for all CVN types.

Stock No.	Mfr's. Type	Output Volts	Output Watts	Mtg. Fig.	Size L. W. H.	Shpg. Wt.	Net Price 1-4	5-9
13A56	20-10-015	118	15	3	5 1/2 x 2 1/2 x 3 1/2	4	\$ 16.00	\$ 14.40
13D216	20-13-060	118	60	1	6 1/2 x 4 x 5 1/2	10	27.00	24.30
37B177	20-13-112	118	120	1	7 1/2 x 4 x 5 1/2	13	36.00	32.40

PLUG-IN ADAPTOR KITS FOR CVS-CVN ABOVE

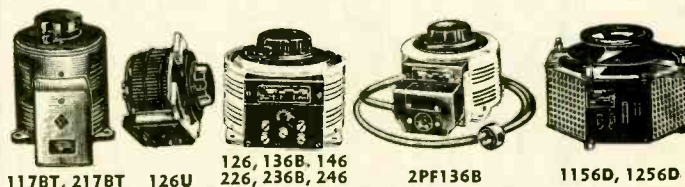
Fits CVS or CVN 60 and 120 W.	2-Wire 999-004	Stk. No. 31A38.	Each.	\$2.50
	3-Wire 999-018	Stk. No. 31B40.	Each.	\$3.75
Fits CVS 250 W. only	2-Wire 999-005	Stk. No. 31B44.	Each.	\$2.50
	3-Wire 999-019	Stk. No. 31C41.	Each.	\$3.75
Fits CVS 500 And 1000 W.	2-Wire 999-009	Stk. No. 31A39.	Each.	\$3.25
	3-Wire 999-020	Stk. No. 31A45.	Each.	\$3.75

Superior POWERSTAT VARIABLE TRANSFORMERS WITH "POWRKOTE" HIGH TEMPERATURE INSULATED COILS



For precise variable AC voltage control from zero up to or above line voltage with full rated current available over the entire range. Design is highly efficient auto-former type with single winding over toroidal core. Extremely low heating, zero waveform distortion and excellent regulation from no load to full load. Gold alloy plated commutator, virtually maintenance free. Uncased types 10B, 21, 116BU, 117BU, 126U and 216BU are panel mounting. Portable types 116B, 216B and 2PF136B have input cord and output receptacle. Cased types 117BT and 217BT for bench or wall mount have enclosed terminal board. Other cased types 126, 136B, 226, 236B, 1156D and 1256D for behind panel, bench or wall mount exposed terminals. Current is maximum for a constant-current load. KVA is maximum for a constant-impedance load.

Stock No.	Mfr's. No.	Input Volts	Input Cycles	Output Volts	Output Amps	KVA	Size Dia. Depth	Wt. Lbs.	Net Each
37A239	10B	120	50/60	0-120	2.25	.36	2 1/2" x 2 1/2"	2.4	\$ 9.00
		120	60	0-132	2.25	.30			
37A240	21	120	50/60	0-120	4.5	.78	3 3/8" x 3 3/8"	5.5	14.00
		120	50/60	0-140	4.5	.63			
37A241	116BU	120	50/60	0-120	10.0	1.6	4 7/8" x 4 5/8"	12	18.00
		120	50/60	0-140	10.0	1.4			
37A242	116B	120	50/60	0-120	10.0	1.6	4 3/8" x 6 1/2"	12	26.00
		120	50/60	0-140	10.0	1.4			
37B224	117BU	120	60	0-120	12.0	1.8	4 5/8" x 4 7/8"	12	20.00
37A225	117BT	120	60	0-120	12.0	1.8	5" x 6 1/2"	12	25.00
37B226	126U	120	50/60	0-120	15.0	2.4			
		120	50/60	0-140	15.0	2.1	6" x 5 7/8"	17	34.00
37B232	126	120	50/60	0-120	15.0	2.4			
		120	50/60	0-140	15.0	2.1	6" x 5 7/8"	17	39.00



Stock No.	Mfg. No.	Input Volts	Input Cycles	Output Volts	Output Amps	KVA	Size Dia. Depth	Wt. Lbs.	Net Each
37A341	136B	120	50/60	0-120	22.0	3.4	7 3/4" x 6 1/2"	25	\$ 55.00
		120	50/60	0-140	22.0	3.1			
37A342	2PF136B	120	50/60	0-120	22.0	3.4	7 3/4" x 6 1/2"	26	72.00
		120	50/60	0-140	22.0	3.1			
37B236	1156D	120	50/60	0-140	50.0	6.6	14 1/2" x 8 1/2"	79	130.00
37B264	216B	240	50/60	0-240	3.5	1.2	5 1/2" x 6 1/2"	12	29.00
		240	50/60	0-280	3.5	.98			
37B265	216BU	240	50/60	0-240	3.5	1.2	4 7/8" x 4 5/8"	12	22.00
		240	50/60	0-280	3.5	.98			
37B266	217BT	240	60	0-240	5.0	1.7	5 3/8" x 6 3/8"	12	28.00
37B267	226	240	50/60	0-240	7.5	2.4	6 1/2" x 5 3/8"	17	39.00
		240	50/60	0-280	7.5	2.1			
37A343	236B	240	50/60	0-240	10.0	3.1	7 3/4" x 6 1/2"	25	55.00
		240	50/60	0-280	10.0	2.8			
37B268	1256D	240	50/60	0-280	28.0	7.8	14 1/2" x 8 1/2"	79	130.00
37A186	146	120	50/60	0-120	30.0	4.2	9 1/2" x 4 7/8"	30	94.00
		120	50/60	0-140	30.0	4.2			
37A187	246	240	50/60	0-240	15.0	4.6	9 1/2" x 4 7/8"	30	94.00
		280	50/60	0-280	15.0	4.2			

All Superior Powerstats are available from B-A at Lowest Prices

SOLA TV-APPLIANCE AUTOMATIC LINE VOLTAGE REGULATOR

Banishes flicker and distortion from Television screen due to line voltage variations caused by home appliances or other electric powered devices. Unit plugs into AC socket and has outlet for the TV power cord. Turns on automatically—no extra switching. Input line voltage may vary from 95 V. to 130 V., but output holds steady at 115 V. $\pm 3\%$. Size 8 1/2" x 7 1/4" x 4 1/2" high. Wt. 27 lbs. for 300 W., 20 lbs. for 180 W.

Stk. No.	Sola Type	Watts	List	Net Each
31B31	CVA72104	300	\$41.00	\$32.80
31B43	CVA72103	180	38.00	30.40



NEW SOLA COLOR TV AUTOMATIC REGULATOR

Utilizes the Sola harmonic free principle which delivers a stable sine wave output. Eliminates one major cause of color set instability. Input 95-130 V. Nominal output 115-120 V. 400 VA max. 7 3/8" x 4 1/8" x 9 1/8" H. Wt. 32 lbs.

No. 31A42. Type CVA72107. Mfg. list \$60.00. Net Each. \$48.00

All Products of Ohmite, Superior & Sola are available from B-A

Stancor Transformers



MICROPHONE AND LINE INPUT TRANSFORMERS

*Dual primary, 500 and 200 ohm sections C, T. Use A4350 for line to line, 10 W. power rating; others mike to grid. VE and TD mountings are fully shielded for low hum pickup. A4779 is for Sgl. or PP grids, all others for single grid. Wt. 1 lb.

Stock No.	Mfr's No.	Pri. Ohms	Sec. Ohms	Mtg.	Size H.W.D.	Net Each			
						1-9	10-24	25-49	50-99
13A570	A4778	600/500CT	240,000	CI	2 1/2 x 2 3/4 x 1 1/2	4.87	4.38	4.14	3.90
13A571	A4779	600/500 CT	60,000CT	A	1 3/8 x 2 1/2 x 1 1/8	3.06	2.75	2.60	2.45
13A5	A4350	500/333/200/125/50	Like Pri.	Q	2 x 3 1/4 x 1 1/2	4.80	4.32	4.08	3.84
13A4	A4351	500/333/200/125/50	89,000	TD	2 1/2 x 2 3/4 x 2 3/4	5.46	4.91	4.64	4.37
13A379	A4705	200/70	80,000	A	1 3/4 x 2 3/4 x 1 1/8	3.77	3.39	3.20	3.02
13B107	A4706	100	60,000	A	1 3/8 x 2 3/4 x 1 1/2	2.73	2.46	2.32	2.18

UNIVERSAL OUTPUT TRANSFORMERS

A3825, for single tube 0.3 to 4 ohm sec.; A3849, .02 to 21 ohm sec. A3856, A3823 for single or PP have .05 to 122 ohm sec. A3852, A3830 for PP tubes have .05 to 122 ohm sec. A3830, A3852 are J mtg., all others Q mtg.

Stock No.	Mfr's No.	Primary	Watts	Size H.W.D.	Net Each			
					1-9	10-24	25-49	50-99
13A19	A3856	4K to 14K	4	1 3/8 x 2 3/4 x 1 1/8	3.20	2.88	2.72	2.56
13A20	A3823	4K to 14K	8	1 3/8 x 2 3/4 x 1 1/8	3.79	3.41	3.22	3.03
13A614	A3825	1.5K to 4.5K	8	2 x 3 3/4 x 1 1/2	3.04	2.74	2.58	2.43
13A27	A3849	1.5K to 10K	10	1 3/8 x 2 3/4 x 1 1/8	3.65	3.29	3.10	2.92
13A22	A3852	PP 4K to 14K	18	2 1/2 x 2 3/4 x 2 1/4	4.57	4.11	3.88	3.66
13A26	A3830	PP 3K to 10K	20	2 1/2 x 2 3/4 x 2 1/4	4.89	4.40	4.16	3.91

INTERCOM, TRANSCEIVER, PHONE PATCH TRANS.

*Modulation and speaker output auto-transformer, used in citizens band and amateur transceivers. A8090 and A8091 are intercom outputs.

Stock No.	Mfr's No.	Description	Mtg.	Size H.W.D.	Net Each			
					1-9	10-24	25-49	50-99
13A1	A4744	VC to Grid, 4 to 25K Ohms	VE	1 3/8 x 2 3/4 x 1 1/2	2.32	2.09	1.97	1.86
13A410	A4748	VC to Grid, 45 to 50K Ohms	A	1 3/8 x 2 3/4 x 1 1/2	3.22	2.90	2.74	2.58
13A714	A8090	3W Line to VC, 45 Ohm Pri.	Q	1 3/8 x 2 3/4 x 1 1/2	2.20	1.98	1.87	1.76
13A471	A8091	8W to 3-4 or 6-8 Ohms	Q	1 3/8 x 2 3/4 x 1 1/2	2.39	2.15	2.03	1.91
13A489	A3817	Transceiver 5K to 6750-4, 10W	A	1 3/8 x 1 1/2 x 2 1/4	3.79	3.41	3.22	3.03
13A247	A4749	Phone Patch (2 Required)	TD	1 3/8 x 1 1/2 x 2 1/4	7.49	6.74	6.37	5.99

INTERSTATE TRANSFORMERS (Avg. Shpg. Wt. 1 Lb.)

A-53, single 7K-20K ohm plate to single grid. A4711 PP 7K-15K plates to PP grids, others single 7K-15K ohm plate to PP grids. Max. DC in primary 10 MA. Core size 1/2" x 1/2" except A63C and A4711, 3/8" x 3/8".

Stock No.	Mfr's No.	Turns Ratio	Mtg.	Size H.W.D.	Net Each			
					1-9	10-24	25-49	50-99
13A359	A53	1:3	A	1 3/8 x 2 3/4 x 1 1/2	2.34	2.11	1.99	1.87
13A208	A52C	1:2	A	1 3/8 x 2 3/4 x 1 1/2	2.57	2.31	2.18	2.06
13A6	A53C	1:3	A	1 3/8 x 2 3/4 x 1 1/2	2.74	2.47	2.33	2.19
13A7	A63C	1:3	A	1 3/8 x 2 3/4 x 1 1/2	3.22	2.90	2.74	2.58
13A10	A4711	1:1	A	1 3/8 x 2 3/4 x 1 1/2	3.85	3.47	3.27	3.08

DRIVER TRANSFORMERS (Avg. Shpg. Wt. 3 Lbs.)

Turns ratio is pri. to 1/2 sec. DCMA is for pri. Pri. imped. 10K ohms. Mtg. A.

Stock No.	Mfr's No.	Turns Ratio	DC MA	Size H.W.D.	Net Each			
					1-9	10-24	25-49	50-99
13A15	A4713	2:1	30	1 3/8 x 2 3/4 x 1 1/2	2.50	2.25	2.13	2.00
13B111	A4723	3:1	30	1 3/8 x 2 3/4 x 1 1/2	2.55	2.30	2.17	2.04

PLATE MODULATION TRANSFORMERS

Pri. imped. A3812, 10K C. T. A3845, 10K C. T.

Stock No.	Stancor No.	Suggested Mod. Tubes	Class "C" Load Ohms.	Audio Watts	Mtg. Fig.	Dimensions H. W. D.	Your Cost
13B121	A-3845	PP 6N7, 6V6	8M/6.5M/5M/3M	25	C	3 3/4 x 2 5/8 x 2 1/4	6.89

UNIVERSAL POLY-PENANCE TRANSFORMERS

Matches 2,000 to 20,000 ohm class "B" amplifier to class "C" load of same.

Stock No.	Stancor No.	Audio Watts	Max. D. C. ma Pri.	Mtg. Fig.	Dimensions H. W. D.	Your Cost	
							13B155	A-3893	60	190	180	D	4 3/4 x 3 1/4 x 4 1/2	$15.72
13B156	A-3894	125	225	225	D	4 3/4 x 4 1/4 x 4 1/2	20.64

CONSTANT 70.7 V. LINE TO VOICE COIL TRANS.

For matching speakers to amplifier output allowing desired power level without need for separate speaker level controls. To determine transformer primary impedance at any given power step use formula Z=K/P where Z=transformer impedance, P=desired power at speaker, K=constant 5000 for 70.7 V. A8084 has 8 ohm sec., A8105 has 4/8 ohm sec.; all others 4/8/16 ohm.

Stock No.	Mfr's No.	Power Steps in Watts	Mtg. Type	Size H. W. D.	Net Each			
					1-9	10-24	25-49	50-99
13B178	A8084	4/2/1/5						
		.25/12	A	1 3/8 x 2 3/4 x 1 1/2	2.91	2.62	2.47	2.33
13A415	A8103	16/8/4/2	J	2 3/4 x 2 1/4 x 3 1/4	5.44	4.90	4.62	4.35
13A414	A8102	8/4/2/1/5	J	2 x 1 1/2 x 2 1/4	3.97	3.57	3.37	3.18
13A262	A8105	5/2.5/1.25/						
		.62/.31	Q	1 3/8 x 2 3/4 x 1 1/2	3.24	2.92	2.75	2.59
13A575	A8080	5/4/3/2/1	Q	1 3/8 x 2 3/4 x 1 1/2	3.22	2.90	2.74	2.58
13A361	A8081	10/9/8/7/6	J	2 x 2 1/2 x 1 1/2	3.54	3.19	3.01	2.83
13A362	A8082	15/14/13/12/	J	2 1/2 x 2 3/4 x 1 1/2	4.30	3.87	3.66	3.44

LINE TO VOICE COIL TRANSFORMERS

A8101 and A7947 are type Q mtg. others type J. Wt. .4 to 2.2 lbs.

Stock No.	Mfr's No.	Primary Ohms	Sec. Ohms	Audio Watts	Size H.W.D.	Net Each			
						1-9	10-24	25-49	50-99
13B16	A8101	500	6-8/3.2	5	1 3/8 x 2 3/4 x 1 1/2	1.99	1.79	1.69	1.59
13B25	A3883	500	15/8/6/4	25	2 1/2 x 2 3/4 x 1 1/2	3.85	3.47	3.27	3.08
13B37	A7947	2000/1500/							
		1000/500							
13A532	A8104	3000/2000/	6-8/3.2	8	1 3/8 x 2 3/4 x 1 1/2	3.29	2.96	2.80	2.63
		1500/1000/500	16/8/4	10	2 1/2 x 2 3/4 x 1 1/2	4.77	4.29	4.05	3.82

OUTPUT TRANSFORMERS—SGL. PLATE TO V.C.

A3336 has 3% and 6% primary taps used in hum reduction. A3337 S mtg., others A mtg. Avg. wt. 5 lbs.

Stock No.	Mfr's No.	Impedance		Watts	Size H.W.D.	Net Each			
		Pri.	Sec.			1-9	10-24	25-49	50-99
13A378	A3332	2000	3.2	3	1 3/8 x 2 3/4 x 1 1/2	1.57	1.41	1.33	1.26
13B126	A3876	2000	4	5	1 3/8 x 2 3/4 x 1 1/2	1.67	1.50	1.42	1.34
13A412	A3336	2500	4.5	5	1 3/8 x 2 3/4 x 1 1/2	2.30	2.07	1.96	1.84
13B322	A3328	4000	3.5	3	1 3/8 x 2 3/4 x 1 1/2	1.62	1.46	1.38	1.30
13A338	A3309	5000	3-4	3	1 3/8 x 2 3/4 x 1 1/2	2.19	1.97	1.86	1.75
13B127	A3877	5000	4	5	1 3/8 x 2 3/4 x 1 1/2	1.67	1.50	1.42	1.34
13B89	A3337	5000	6-8	10	2 1/2 x 2 3/4 x 1 1/2	2.57	2.31	2.18	2.06
13B323	A8092	5000	3-4	8	1 3/8 x 1 1/2 x 2 1/4	2.49	2.24	2.12	1.99
13A34	A3878	7000	4	5	1 3/8 x 2 3/4 x 1 1/2	1.74	1.57	1.48	1.39
13A533	A8114	7600	3.2	5	1 3/8 x 2 3/4 x 1 1/2	2.22	2.00	1.89	1.78
13A375	A3329	8000	3.5	3	1 3/8 x 2 3/4 x 1 1/2	1.62	1.48	1.38	1.30
13B128	A3879	10000	4	5	1 3/8 x 2 3/4 x 1 1/2	1.70	1.53	1.45	1.36
13A366	A3327	25000	4	5	1 3/8 x 2 3/4 x 1 1/2	2.14	1.93	1.82	1.71

OUTPUT TRANSFORMERS PP PLATES TO V.C.

*Indicates 500/250/15/8/4 ohms except A3304 and A3311 do not have 250 ohms. A3800, A3801, A3304 and A3311 style C mtg. Others similar to A. Wt. .4 to 4.8 lbs.

Stock No.	Mfr's No.	Impedance		Watts	Size H.W.D.	Net Each			
		Pri.	Sec.			1-9	10-24	25-49	50-99
13A36	A3800	5000CT	*	30	3 5/8 x 3 x 3 1/2	7.77	6.99	6.60	6.22
13A363	A3872	5000CT	15/8/4	18	2 1/2 x 2 3/4 x 2 1/2	5.22	4.70	4.44	4.18
13B132	A3801	6600CT	*	35	4 x 3 3/4 x 3 3/8	9.89	8.90	8.41	7.91
13A12	A4432	10000CT	4	10	2 3/4 x 2 x 1 1/2	3.14	2.83	2.67	2.51
13A38	A3304	10K-7KCT	*	25	3 3/8 x 2 3/4 x 2 1/2	7.32	6.59	6.22	5.86
13B2	A3311	10000CT	*	25	3 3/8 x 3 x 3 1/2	7.39	6.65	6.28	5.91
13A500	A3831	10000CT	8/4/2	5	1 3/8 x 2 3/4 x 1 1/2	3.15	2.84	2.68	2.52
13B325	A8093	10000CT	3-4	10	1 3/8 x 1 1/2 x 2 1/4	2.60	2.34	2.21	2.08
13A411	A3335	10000CT	6-8	10	2 1/2 x 2 3/4 x 1 1/2	3.57	3.21	3.03	2.86
13A365	A3496	14000CT	4	5	1 3/8 x 2 3/4 x 1 1/2	3.34	3.01	2.84	2.67
13A17	A3857	25000CT	4	5	1 3/8 x 2 3/4 x 1 1/2	2.77	2.49	2.35	2.22

TUBE TO LINE TRANSFORMERS

Sec. A3250, 500/333/200/125/50 ohms. Sec. A3841 500 ohms. A3250 Pri. 15 MA DC. A3841 Pri. 60 MA DC. 10 W. Q and J mtg. respect.

Stock No.	Mfr's No.	Primary Ohms	Size H.W.D.	Net Each			
				1-9	10-24	25-49	50-99
13A377	A3250	Sgl. 20K/10K/5K Plate or P.P. 20K Plates	2 x 3 1/4 x 1 1/2	4.62	4.16	3.93	3.70
13A250	A3841	7K/6K/5K/4K/2.5K	2 1/2 x 3 1/2 x 2 1/2	5.95	5.36	5.06	4.76

Stancor Transformers



TRANSISTOR AUDIO TRANSFORMERS

Designed especially for transistor applications. Highest quality throughout. Types TA-15, TA-16 and TA-17 are transformers for a 30 watt transistor mobile modulator using P.P. 2N278's. Ask for No. 25A125. Bulletin 545 Showing modulator circuit. *TA-61 Turns Ratio: Pri. to 1/2 Sec. 1:1, All A mtgs. except TA-17 is C mtg.; TA 56, J mtg.; TA57 S mtg.

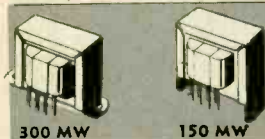
Stock No.	Type No.	Use	Ohms. Imp.		DC MA	Power Watts	Ht.	Base Area			Net Each		
			Pri.	Sec.				1-9	10-24	25-49			
13A806	TA-1	Input	600CT	10	20	0.05	1 1/2	1 1/2	1 1/2	\$2.37	\$2.13	\$2.01	
13A814	TA-15	Mike	50-100	10	50	5MW	1 1/2	1 1/2	1 1/2	2.00	1.80	1.70	
13A807	TA-2	In. Stg.	100CT	10CT	100	0.25	1 1/2	2 1/2	1 1/2	2.24	2.02	1.90	
13A808	TA-3	In. Stg.	100	1000CT	100	0.25	1 1/2	2 1/2	1 1/2	2.22	2.00	1.89	
13A809	TA-4	In. Stg.	500CT	5000CT	12	.03	1 1/2	2 1/2	1 1/2	3.15	2.84	2.68	
13A818	TA-52	In. Stg.	500CT	500CT		.3	1 1/2	1 1/2	1 1/2	3.74	3.37	3.18	
13A810	TA-7	Driver	100	100CT	100	0.5	1 1/2	2	1 1/2	2.19	1.97	1.86	
13A815	TA-16	Driver	20	36CT	400	1W	1 1/2	2 1/2	1 1/2	2.24	2.02	1.90	
13A821	TA-58	Driver	100	200CT	200	.5	1 1/2	2	1 1/2	2.60	2.34	2.21	
13A822	TA-59	Driver	500CT	200CT	50	.5	1 1/2	2	1 1/2	2.67	2.40	2.27	
13A823	TA-61	Driver					1 1/2	2 1/2	1 1/2	3.14	2.83	2.67	
13A811	TA-9	Output	1000	4/8/16	10	0.2	3/4	1 1/2	3/4	5.89	5.30	5.01	
13A812	TA-10	Output	2000CT	4/8/16		0.2	3/4	1 1/2	3/4	6.00	5.40	5.10	
13A813	TA-12	Output	20CT	8	500	10.0	1 1/2	1 1/2	1 1/2	2.22	2.00	1.89	
13A816	TA-17	Mod.	8CT	7500/5000		35W	3 1/2	3	2 1/2	7.85	7.07	6.67	
13A817	TA-50	Output	9 tap	@ 4	920	10	2	1 1/2	1 1/2	3.22	2.90	2.74	
13A819	TA-56	Output	48CT	3/2/8/16	550	10	2 1/2	2 1/2	2	3.57	3.21	3.03	
13A820	TA-57	Output	100CT	3/2/8/16	500	10	2 1/2	2 1/2	2	3.74	3.37	3.18	
13A824	TA-62	Output	25	4	400	4	1 1/2	2 1/2	1 1/2	2.40	2.16	2.04	

TRANSISTOR POWER TRANSFORMERS

For powering transistorized devices from AC line

Primaries, 117 V. 60 cy. AC. TP-2, TP-3 and TP-4 have tapped primary to obtain lower secondary voltage. *TP-1, for bridge rectifier has two separate secondaries rated 13-18 volts AC @ 900 MA. All are upright enclosed C style mount except TP-2, TP-3 are Fig. A.

Stock No.	Stancor No.	Secondary AC Volts	DC MA	H.	W.	D.	Wt. Lbs.	Net Prices Each		
								1-9	10-24	25-49
13A793	TP-1	*13-18	*900	3	3	2 1/2	2.75	\$5.60	\$5.04	\$4.76
13A632	TP-2	10/20CT/40CT	100	1 1/2	2 1/2	1 1/2	0.7	4.52	4.07	3.84
13A633	TP-3	10/20CT/40CT	300	2 1/2	3 1/2	2	1.5	6.07	5.46	5.16
13A637	TP-4	10/20CT/40CT	1000	3 1/2	2 1/2	3	3.25	10.19	9.17	8.66



STANCOR MINIATURE TRANSISTOR AUDIO TRANSFORMERS

Open frame style with coded wire leads. Size, 150 milliwatt units 1 1/2" between mtg. tabs, 1 1/2" high, 1 1/2" wide, 5/8" deep, wt. .65 oz. 300 milliwatt units 1 3/8" between holes, 1 3/8" high, 1 3/8" wide, 3/4" deep, wt. 1.2 oz. *Indicates 300 MW units. All others rated 150 MW.

Stock No.	Stancor No.	Application	Turns Ratio	Imped. Pri.	Ohms Sec.	Net Each		
						1-9	10-24	25-49
13A827	TA24	In. Stg.	10.0:1	500CT	50K	\$3.99	\$3.59	\$3.39
13A829	TA27	In. Stg.	4.08:1	1200	20KCT	3.99	3.59	3.39
13A830	TA30	In. Stg.	1.00:1.22	5KCT	7.5CT	4.00	3.60	3.40
13A831	TA31	In. Stg.	1.00:1.41	5KCT	10KCT	3.99	3.59	3.39
13A832	TA34	In. Stg.	6.97:1	10K	200CT	4.22	3.80	3.59
13A833	TA35	In. Stg.	2.24:1	10K	2KCT	3.99	3.59	3.39
13A834	TA38	In. Stg.	1.72:1	500CT	150CT	4.05	3.65	3.44
13A837	TA47	Input	1.00:14.1	1000CT	200,000CT	3.99	3.59	3.39
13A825	TA21	Output	5.53:1	500CT	4.8.16	4.19	3.77	3.56
13A826	TA23	Output	5.65:1	600CT	4.8.16	4.57	4.11	3.88
13A828	TA25	Output	6.75:1	825CT	4.8.16	3.99	3.59	3.39
13A835	TA41	Output	5.00:1	400CT	4.8.16	3.99	3.59	3.39
13A836	TA42	Output	5.60:1	500CT	4.8.16	3.99	3.59	3.39

VERY TINY TRANSISTOR TRANSFORMERS ONLY 1/2 INCH LARGEST DIMENSION



89c

FINEST QUALITY IMPORT AT TERRIFIC SAVINGS

Exceptionally small, nicely constructed. Equivalent domestic made units would cost many times more. The right types for building transistor radios, tiny audio or mike amplifiers, etc. Mtg. tabs and wire leads. Actual size 1/2" x 1/2" x 1/2" H.

No. 17C693. Input. Pri. impd. 200K ohms. Sec. 1000 ohms. Choice Each
 No. 17C694. Driver. Pri. impd. 10K ohms. Sec. 2000 ohms. 89c
 No. 17C695. Output. Pri. impd. 500 ohms. Sec. 8 ohms. 10 @ Ea. 79c

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 Kansas City, Mo., Area Code 816, BA 1-4266
 Denver, Colorado, Area Code 303, 222-8986

POWER TRANSFORMERS

Top quality—well within industry standards. All primaries for 117 V. 60 cy. AC. Type PM, full shielded horizontal mtg. P and PC, enclosed upright mtg.

TO PROVIDE APPROX. 260 V. DC TO CONDENSER INPUT FILTER

Stock No.	Mfr's No.	H.V. Sec. V. CT. MA	5V. @	6.3V. CT @	Size H.W.D.	Wt. Lbs.	Net Each			
							1-9	10-24	25-49	50-99
13A381	PC 8402	480 55	2A	2A	3 1/2 x 2 1/2 x 2 1/2	2.4	\$5.87	\$5.28	\$4.99	\$4.70
13A382	PC 8403	500 70	2A	2.5A	3 1/2 x 2 1/2 x 3 1/2	3.2	7.02	6.32	5.97	5.62
13A383	PC 8404	520 90	2A	3A	3 1/2 x 2 1/2 x 3 1/2	4	7.90	7.11	6.72	6.32
13A384	PC 8405	540 120	3A	3.5A	4 x 3 1/2 x 3 1/2	4.9	10.30	9.27	8.76	8.24

FOR USE WITH CHOKE INPUT FILTER, VR-TUBE REGULATED SUPPLY, OR HIGHER VOLTAGE WITH CONDENSER INPUT FILTER

Type P and PC, enclosed upright mtg. P8356, and P8355 for TV replacement do not have CT on 6.3 V. fil.

Stock No.	Mfr's No.	H.V. Sec. V. CT. MA	5V. @	6.3V. CT @	Size H.W.D.	Wt. Lbs.	Net Each			
							1-9	10-24	25-49	50-99
13A668	P 8356	540 315	3A	8.8A	3 1/2 x 3 1/2 x 3 1/2	6.5	12.65	11.39	10.75	10.12
13A648	P 8355	570 310	3A	9.5A	3 1/2 x 3 1/2 x 3 1/2	6.4	13.64	12.28	11.59	10.91
13A578	PC 8406	650 40	2A	2A	3 1/2 x 2 1/2 x 2 1/2	2.4	6.65	5.99	5.65	5.32
13A386	PC 8407	650 55	2A	2A	3 1/2 x 2 1/2 x 3 1/2	3.2	6.90	6.21	5.87	5.52
13B13	PC 8422	650 150	3A	5A	4 x 3 1/2 x 3 1/2	5.8	10.94	9.85	9.30	8.75
13A339	PC 8408	680 70	2A	2.5A	3 1/2 x 3 x 3 1/2	3.8	8.49	7.64	7.22	6.79
13A388	PC 8409	700 90	2A	3A	3 1/2 x 3 x 3 1/2	4.5	10.48	9.43	8.91	8.38
13A389	PC 8410	720 120	3A	3.5A	4 x 3 1/2 x 3 1/2	5.5	10.04	9.04	8.53	8.03
13A390	PC 8411	750 150	3A	4.5A	4 1/2 x 3 1/2 x 4	5.8	13.80	12.42	11.73	11.04
13A391	PC 8412	800 200	3A	5A	4 1/2 x 4 x 4	8.2	14.37	12.93	12.21	11.50

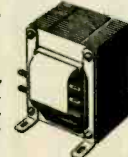
FOR USE WITH 6X5, 6AX5, 6X4 OR SELENIUM RECTIFIER

*PS8415 and PA8421 do not have CT on high voltage winding.

Stock No.	Mfr's No.	H.V. Sec. V. CT. MA	5V. @	6.3V. CT @	Size H.W.D.	Wt. Lbs.	Net Each			
							1-9	10-24	25-49	50-99
13B30	PS8415	*125 15		.6A	2 x 2 1/2 x 1 1/2	.7	2.69	2.42	2.29	2.15
13B32	PA8421	*125 50		2A	2 1/2 x 3 1/2 x 2 1/2	1.5	4.22	3.80	3.59	3.38
13B84	PS8416	250 25		1A	2 1/2 x 2 1/2 x 3	2.2	3.23	2.90	2.74	2.58
13A394	PC8418	480 50		2.5A	3 1/2 x 2 1/2 x 2 1/2	2.2	5.34	4.81	4.54	4.27
13A395	PC8419	480 70		3A	3 1/2 x 2 1/2 x 2 1/2	2.6	6.12	5.51	5.20	4.90
13A618	PC8420	520 90		4A	3 1/2 x 3 x 3 1/2	3.5	7.14	6.43	6.07	5.71

STANCOR SELENIUM RECTIFIER TRANS.

Variable tap isolated primary and secondary windings provide output voltages in 12 steps within ranges shown. In many cases will fill the need for custom made special voltage transformers at great savings in cost and time. DC output voltages are based on conventional circuits employing tap disc selenium rectifiers and high capacity filters. RT-201, 2 1/2 x 3 3/8 x 3 1/8" H. Wt. 2.5 lbs.; RT-202, 2 1/2 x 3 1/2 x 3 3/8" H. Wt. 3.8 lbs.; RT-204, 4 1/8 x 3 1/4 x 4" H. Wt. 5.1 lbs.; RT-206, 5 1/2 x 3 1/2 x 4 1/4" H. Wt. 9.1 lbs.; RT-208, 5 1/2 x 3 3/4 x 4 3/4" H. Wt. 12.6 lbs.; RT-2012, 4 3/8 x 6 3/8 x 5 3/8" H. Wt. 20.5 lbs.; RT-408, 4 3/8 x 7 1/2 x 5 3/8" H. Wt. 26.5 lbs.; RT-4012, 5 5/8 x 6 1/4 x 7 1/8" H. Wt. 33.5 lbs. Res=resistive, Cap=capacitive loads.



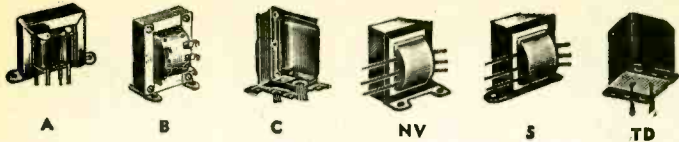
Stock No.	Stancor No.	Rect. Ckt.	AC Volts Range	DC Amps.	DC V. Out. Res. Load	DC V. Out. Cap. Load	Net Each	
							1-9	10-24
13A734	RT-201	CT Bridge	11.7-29.4 11.1-28.5	2 1.25	3.3 to 11.2 7.4 to 23	3.5 to 13.8 8.7 to 30	\$ 5.55	\$ 5.00
13A735	RT-202	CT Bridge	12.2-29.7 12.2-29.7	4 2	3.7 to 11.1 8.9 to 24.3	4 to 14.7 10.8 to 33	7.72	6.95
13A736	RT-204	CT Bridge	11.7-29.2 11.8-29.2	8 4	4.3 to 12 8.8 to 24	4.5 to 14.5 11.4 to 32.4	9.95	8.96
13A737	RT-206	CT Bridge	12-29.8 12-29.6	12 6	8.4 to 11.5 8.4 to 24	3.9 to 14.4 10 to 32	14.24	12.82
13A738	RT-208	CT Bridge	12.2-29.2 12.1-29.2	15 8	3.9 to 11.4 8.7 to 23.7	4.4 to 14.8 10.4 to 32.5	17.95	16.16

HIGH CURRENT FILTER CHOKES

For use with selenium rectifiers in DC power supplies. Mtg. similar to RT series transformers above with leads instead of lugs. RMS voltage rating 1500 V. C2690 and C2691 have dual windings; first rating is series, second, parallel.

Stock No.	Mfr's No.	Ind. Hys.	DC Amps.	Ohms Res.	Size H.W.D.	Wt. Lbs.	Net Price			
							1-9	10-24	25-49	50-99
13A276	C2690	0.3 & 0.75	1 & 2	3 & .75	3 1/2 x 2 1/2 x 3 1/2	5	\$8.59	\$7.73	\$7.30	\$6.87
13A277	C2691	80 MH & 20 MH	2.5 & 5	0.6 & 0.15	3 1/2 x 3 1/2 x 3 1/2	7	11.95	10.76	10.18	9.56
13A550	C2685	.035	2	.75	2 1/2 x 2 1/2 x 2 1/2					

Stancor Transformers, TV Components



SMOOTHING FILTER CHOKES

C2318 insulated for 2000 V. RMS; C1001, C1421, for 3000 V.; all others 1500 V. insulation. For high current filter chokes see Page 87.

Stock No.	Mfr's. No.	Hys.	MA	Ohms	Fig.	Size H.W.D.	Wt.	Net Each		
								1-9	10-24	25-49
13A51	C1515	20	15	900	A	1 1/2 x 2 1/2 x 1 1/2	.7	2.60	2.34	2.21
13A590	C2318	12	30	400	A	1 1/2 x 2 1/2 x 1 1/2	.5	2.20	1.98	1.87
13A41	C1706	4.5	50	300	A	1 1/2 x 2 1/2 x 1 1/2	.4	1.49	1.34	1.27
13A61	C1279	8.5	50	400	A	1 1/2 x 2 1/2 x 1 1/2	.7	1.85	1.67	1.57
13A42	C1707	7	50	550	A	1 1/2 x 2 1/2 x 1 1/2	.4	1.74	1.57	1.48
13A43	C1003	16	50	580	A	2 x 3 1/2 x 1 1/2	1.1	2.37	2.13	2.01
13A44	C1708	13	65	500	A	2 x 3 1/2 x 1 1/2	1	2.87	2.40	2.27
13A45	C1002	15	75	400	A	2 1/2 x 3 1/2 x 2 1/2	1.7	3.15	2.84	2.68
13A46	C1709	8	85	250	A	2 x 3 1/2 x 2	1.4	2.70	2.43	2.30
13A597	C2305	5	100	300	TD	2 1/2 x 2 1/2 x 2 1/2	1.5	3.89	3.50	3.31
13A48	C1001	10.5	110	225	A	2 1/2 x 3 1/2 x 2 1/2	2.3	4.02	3.62	3.42
13A49	C1421	7	140	165	C	3 1/2 x 2 1/2 x 2 1/2	2.5	5.14	4.63	4.37
13A638	C2304	2.3	150	60	A	2 x 3 1/2 x 1 1/2	1	2.87	2.31	2.18
13A47	C1710	7	150	200	A	2 1/2 x 4 x 2 1/2	2.2	4.22	3.80	3.59
13A635	C2327	1.5	200	85	A	1 1/2 x 2 1/2 x 1 1/2	.8	2.19	1.97	1.86
13C208	C2326	1	300	43	A	2 1/2 x 3 1/2 x 2 1/2	1.7	3.27	2.94	2.78
13A600	C2334	2.8	300	60	A	2 1/2 x 3 1/2 x 4	2.5	4.12	3.71	3.50
13A636	C2328	.8	375	25	A	2 1/2 x 3 1/2 x 2	1.5	4.12	3.71	3.50

FILAMENT TRANSFORMERS

Primaries for 117 V. 60 cy. AC. P6456, P6454, P6308, P6309 have tap for 117-107 V. All have electrostatic shield between windings, except P3050, P6467, P6134, P6433, P6464, P8190, P6466, P8130 and P6469. Sec. is center tapped except P8389, P8190 and P6469.

Stock No.	Mfr's. No.	Secondary V. CT. @ A.	Test Volts	Mtg. Fig.	Size H.W.D.	Wt.	Net Each		
							1-9	10-24	25-49
13A335	P4026	2.5 1.5	2500	A	1 1/2 x 2 1/2 x 1 1/2	3.32	2.99	2.82	
13B139	P6133	2.6 5	7500	S	2 1/2 x 3 1/2 x 2 1/2	1.5	4.30	3.87	
13A29	P6454	2.5 10	7500	S	3 1/2 x 3 1/2 x 2 1/2	2.5	4.67	4.20	
13B141	P3060	2.5 10	10000	B	3 1/2 x 2 1/2 x 2 1/2	2.5	7.70	6.93	
13A399	P6467	5 3	2500	A	2 x 3 1/2 x 2	1.4	3.65	3.29	
13B23	P5000	5.0 6	2500	C	3 1/2 x 2 1/2 x 3	3.1	6.60	5.94	
13A630	P6433	5 15	2500	B	3 1/2 x 2 1/2 x 2 1/2	3	8.39	7.55	
13A281	P6465	6.3 6	1500	A	1 1/2 x 2 1/2 x 1 1/2	4	2.24	2.02	
13B21	P8389	6.3 1	1500	A	1 1/2 x 1 1/2 x 2 1/2	6	2.22	2.00	
13B99	P6134	6.3 1.2	3000	A	1 1/2 x 2 1/2 x 1 1/2	8	2.39	2.15	
13A401	P8190	6.3 1.2	5000	A	2 x 3 1/2 x 1 1/2	1	3.10	2.79	
13A402	P6466	6.3 3	2500	A	2 x 3 1/2 x 2	1.4	3.62	3.26	
13A329	P6456	6.3 6	2000	A	2 1/2 x 3 1/2 x 2 1/2	2	4.29	3.86	
13B146	P3064	6.3 6	2500	B	3 1/2 x 2 1/2 x 2 1/2	2.4	5.80	5.22	
13B147	P6308	6.3 10	2500	B	3 1/2 x 2 1/2 x 2 1/2	3.4	7.34	6.61	
13A631	P6468	6.3 10	2000	C	3 1/2 x 3 1/2 x 3	3.5	7.64	6.88	
13A721	P6309	6.3 20	2500	B	4 1/2 x 3 1/2 x 3	6.7	11.19	10.07	
13A336	P6458	10 5	2000	NV	3 1/2 x 2 1/2 x 2 1/2	5	5.34	4.81	
13A330	P6461	10 10	2000	C	3 1/2 x 3 1/2 x 3 1/2	5.0	9.67	8.70	
13B192	P8130	12.6 2	1500	A	2 1/2 x 3 1/2 x 2	1.4	3.95	3.56	
13A331	P8358	12.6 3	1500	A	2 x 3 1/2 x 2	1.4	4.62	4.34	
13B211	P6469	25.2 1	1500	A	2 x 3 1/2 x 2	1.4	3.89	3.32	
13A332	P8357	25.2 2	1500	A	2 1/2 x 4 x 2 1/2	2.2	5.95	5.36	

AUTOMATION CONTROL TRANSFORMERS



Typical applications: Relays, solenoids, control valves, small motors, electronic tubes, heating elements, low voltage lighting, signal lamps, buzzers, bells, etc. Dual winding primaries are connected parallel for 115 V. in series for 230 V. 50-60 cy. AC. Dual secondaries also may be connected series or parallel. J mtg. except P6378 and P6379 are BV type.

Stock No.	Mfg. No.	Secondary		Series	V.A.	I.A.	Wt.	Size H. W. D.	Net Prices		
		Parallel	Series						1-9	10-24	25-49
13B24	P6375	6 V.	@ 2A.	12 V.	@ 1A.	12	1	2 1/2 x 1 1/2 x 2 1/2	\$3.67	\$3.30	\$3.12
13A622	P6376	6 V.	@ 4A.	12 V.	@ 2A.	24	1.5	3 1/2 x 3 1/2 x 2	4.30	3.87	3.66
13A623	P6377	12 V.	@ 4A.	24 V.	@ 2A.	48	2.5	3 1/2 x 3 1/2 x 2 1/2	5.35	4.82	4.55
13A624	P6378	12 V.	@ 8A.	24 V.	@ 4A.	96	4.3	3 1/2 x 2 1/2 x 3	7.70	7.83	7.40
13A627	P6379	12 V.	@ 16A.	24 V.	@ 8A.	192	8	4 1/2 x 3 1/2 x 3 1/2	14.25	12.83	12.11

FULLY ENCLOSED CONTROL TRANSFORMERS

NORMAL REACTANCE TYPE—PRIMARY: 115 V. 50/60 CPS

For relays, solenoids, signals, etc. May be operated continuously in ambient temperatures up to 50° C. at rated capacities. Meet U/L requirements for air-cooled transformers. 8" leads approved for standard code wiring.

Stock No.	Mfg. No.	Secondary		Series	V.A.	Wt.	Size H. W. D.	Net Prices		
		Volts	Amps					1-9	10-24	25-49
13A345	NCF-2450	24	2.1	50	3 1/2	2 1/2	3 1/2	\$8.02	\$7.22	\$6.82
13A346	NCF-2475	24	3.15	75	4 1/2	3 1/2	3 1/2	8.92	8.03	7.58
13A347	NCF-24100	24	4.15	100	5 1/2	3 1/2	3 1/2	11.95	10.76	10.16



STANCOR LINE VOLTAGE CONTROL TRANSFORMERS

LINE ISOLATION 50/60 CY. AC INPUT

Eliminates most shock hazard because of possibly grounded circuits within the equipment. A necessity when testing AC-DC sets. Built-in electro-static shields are grounded to core. P6410 is K style with line cord and plug on input; receptacle on output.

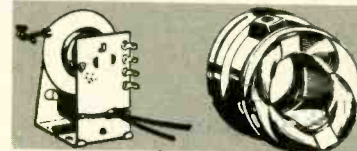
P6160 in K mtg. with line cord, tap switch and receptacle. P6415 and P6161 for service work has line cord and three output receptacles.

Stock No.	Mfr's. No.	Watts Max.	Input Volts	Output Volts	Size			Wt. Lbs.	1-9	10-24	25-49
					H.	W.	D.				
13A443	P6410	50	115	115	3 3/4	2 1/2	3 1/2	3.7	\$ 8.49	\$ 7.64	\$ 7.22
13A444	P6160	100	125/115/105	115	4 1/4	4	3 3/4	7	16.47	14.82	14.00
13B682	P6161	250	125/115/105	115	4 1/4	4	5 1/2	14.2	22.90	20.61	19.47
37A196	P6415	350	117	105/115/125	5 1/2	4 1/2	5 1/2	17	24.68	22.22	20.88

230 TO 115 V. STEP-DOWN AUTO-TRANSFORMERS

For operation of 110 V. A.C. devices in areas where 220 V. 50 or 60 Cy. A.C. is the standard supply voltage. All types have 110 V. A.C. plug-in receptacle mounted on side of transformer. Windings are not isolated. P6287 is K style except output receptacle is on top.

Stock No.	Mfr's. No.	Watts Max.	H.	Size W. D.		Wt. Lbs.	1-9	10-24	25-49
				W.	D.				
13A317	P6287	40	3 1/2	2 1/2	2 1/2	2.2	\$ 7.60	\$ 6.84	\$ 6.46
13A318	P5063	100	4	3 1/4	3 1/2	4.5	9.87	8.88	8.39
13A82	P5064	150	4 1/2	3 3/8	3 3/8	5.2	11.19	10.07	9.51
13B151	P5065	300	4 1/2	4	4 1/2	8.8	14.77	13.29	12.55
13A296	P6141	500	4 1/2	4	5 1/8	13.7	19.55	17.60	16.62



STANCOR TV COMPONENTS

B-A WILL SELECT YOUR TV REPLACEMENT PARTS FOR YOU!

Should you find it impossible to order the correct replacement TV item from the listings below... then send us your order stating make, model and chassis number of set, name of part and original part number. B-A will select the correct replacement for you.

Ask for FREE Stancor "Part-To-Part" TV Transformer Guide Stk. No. 25A117.

EXACT REPLACEMENT FLYBACK TRANSFORMERS

Stk. No.	Stancor No.	Net Each	Stk. No.	Stancor No.	Net Each
13B477	A8130/HO159	\$9.00	13A839	HO282	\$9.90
13B478	A8131/HO160	7.90	13A840	HO293	9.90
13B479	A8134/HO163	11.10	13A841	HO301	8.10
13B480	A8135/HO164	10.38	13A842	HO304	9.00
13B481	A8224/HO173	9.96	13A843	HO305	9.90
13B482	A8231/HO180	9.90	13A844	HO315	9.00
13B483	A8234/HO183	6.00	13A845	HO320	9.00
13B484	A8235/HO184	6.00	13A846	HO331	9.60
13B485	A8244/HO194	9.00	13A847	HO345	9.00
13B486	A8248/HO198	11.10	13A848	HO346	9.00
13B487	A8252/HO202	8.10	13A849	HO347	9.00
13B488	A8253/HO203	8.10	13A850	HO350	9.00
13B489	A8254/HO204	8.10	13A851	HO353	9.00
13B490	A8255/HO205	8.10	13A852	HO357	9.00
13B491	A8263/HO213	8.10	13A853	HO363	9.90
13B492	A8265/HO215	10.20	13A854	HO366	9.90
13B493	A8285/HO235	9.00	13A855	HO367	9.90
13B494	A8292/HO242	8.10	13A856	HO375	9.00
13B495	A8296/HO246	8.10	13A857	HO377	9.00
13B496	HO254	8.10	13A858	HO378	9.90
13A497	HO271	8.10	13A859	HO600C	14.40
13B499	HO280	10.38	13A860	HO601C	13.50
13A838	HO281	11.10	Average shipping weight 1 lb.		

VERTICAL DEFLECTION OUTPUT TRANSFORMERS

Type VO-109 is multi-ratio type, both isolation and autotransformer.

Stk. No.	Stancor No.	Net Each	Stk. No.	Stancor No.	Net Each
13A502	A8112/VO83	\$3.47	13B646	VO101	\$3.76
13A503	A8123/VO87	3.37	13B647	VO105	3.37
13A504	A8140/VO88	6.95	13B652	VO108	3.22
13A505	A8141/VO89	4.80	13A660	VO109	6.27
13A506	A8143/VO91	3.95	13B661	VO111	4.02
13A507	A8144/VO92	3.67	13A662	VO112	4.12
13B643	A8148/VO96	3.95	13B663	VO115	4.04
13B645	A8149/VO97	3.34	13B664	VO116	4.32
			13B665	VO129	4.00

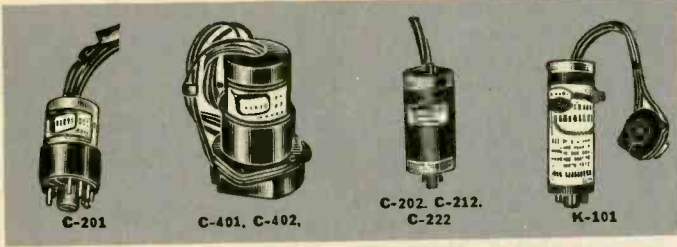
STANCOR DEFLECTION YOKES

Stk. No.	Stancor No.	Net Each	Stk. No.	Stancor No.	Net Each
13B400	DY-2A	\$9.30	13B446	DY-32A	\$11.10
13B403	DY-8A	9.30	13B447	DY-36A	10.80
13B404	DY-9A	9.30	13B448	DY-38A	10.20
13B406	DY-10A	9.90	13B449	DY-39A	9.90
13B407	DY-11A	10.20	13A450	DY-40A	10.80
13B413	DY-13A	10.38	13B451	DY-41A	10.20
13A429	DY-14A	9.30	13B452	DY-42A	10.80
13B430	DY-15A	9.30	13B453	DY-44A	10.80
13B431	DY-16A	10.80	13B454	DY-45A	13.20
13A432	DY-23A	10.80	13B455	DY-46A	12.00
13A436	DY-26A	11.40	13B456	DY-53A	13.20

TV BRIGHTENERS & SERVICE AIDS

WANT A BETTER PICTURE?

Perma-Power TV TUBE BRIGHTENERS



SIMPLE TO INSTALL—NO WIRING—JUST PLUG-IN
ADD MONTHS TO LIFE OF WEAK OR FAILING PICTURE TUBES

FOR PICTURE TUBES WITH DUODECAL BASE

6.3 V. FILAMENTS—BOOST TO 7.8 V.

- Model C201—Series or Parallel 0.6 A. Filaments No. 29B57. Net Each **\$1.46**
- Model C401—Parallel 0.3, 0.45 or 0.6 A. Filaments No. 29A101. Net Each **87c**
- Model C402—Series 0.6 A. Filaments only. No. 29A102. Net Each **87c**

UNIVERSAL "TU-BRITE"

"IF THE BASE IS RIGHT, THE BOOST IS RIGHT"

Completely universal, series or parallel, regardless of heater rating. No charts to check. Has slide switch for series or parallel. Will not endanger delicate filaments through too much voltage boost. Mfg. List \$3.75.
No. 29B54. Model C-202. Duodecal Base. Choice Each **\$2.21**
No. 29B55. Model C-212. 110° Button Base.
No. 29B56. Model C-222. 110° Shell Base.

NEW HUE-BRITES FOR COLOR

Brings out the lost sharpness and detail of fading color picture tubes. Fits 12 pin base. C501 for parallel 6.3 V., 0.18 A. fils.; C-511 for 6.3 V. 0.8 A. fils.
No. 29B58. Model C-501. For Round Tubes. **\$5.73**
No. 29B46. Model C-511. For Rectangular Tubes. Your Choice Each.

"NU-BRITE" TV TUBE RESTORER

Corrects dozens of picture tube faults. Simple cure for open cathode, heater to cathode short, open control grid, control grid to cathode short, low emission or combination of above. For series or parallel, electrostatic or magnetic focus tubes. Wt. 1 lb.
No. 29B156. Model K-101. Mfg. List \$6.65. Net Each **\$3.90**

PICBOOST "DUZ-ALL" COMPLETE TV PICTURE TUBE SAVER

Works on either series or parallel filaments. Isolated windings correct filament-cathode "shorts". Variable control permits selection of exact amount of voltage boost needed. Controlled increase in very small steps stretches picture tube life many times that available with fixed voltage boosters. Fully enclosed in metal case 6 1/2" x 2 1/4" x 1 3/8" H. Mounts inside set. With instructions for simple plug-in installation. Shpg. wt. 2 lbs.
29A282. CBC model DUB. Mfg. list \$4.90. Ea. **\$2.88**

TV PICTURE TUBE "BRIGHTENER"

DIM PICTURE TUBES RESTORED TO NEW BRILLIANCE

Makes dull smoggy pictures bright and crisp, extends life for many months. Works with electrostatic and magnetic picture tubes in sets having parallel tube filaments. Very simply installed, just plug-in.
No. 20A339. Net Each **87c** For **\$4.79**

BARGAIN PRICED!

87c



TUBE GUARD

Eliminates voltage surge, main cause of TV and radio failure. Feeds current slowly while tubes and parts warm-up. Minimizes replacement costs. For TV, radios, Hi-Fi, recorders, CB—all types of electronic equipment.
No. 17B215 Special Each **\$1.19**



\$1.19

GETS RID OF VOLTAGE SURGE

STANCOR COLOR TV DEGAUSSING COIL

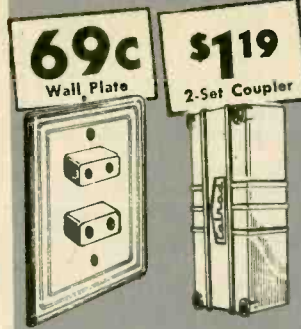
SHARPENS COLOR BY REMOVING PIX TUBE MAGNETISM

A service tool "must" for every shop. Ruggedly constructed to withstand years of abuse. Has in-line cord switch. Complete instructions included. Very easy to use.
No. 13A340. Model DGC-100. Net Ea. **\$14.75**



FOR IMPROVED TV RECEPTION!

HANDY TV-FM WALL PLATES AND COUPLERS



69c
Wall Plate

\$1.19
2-Set Coupler

Plates. Fit standard electrical outlet box. For 300 ohm lead, eliminating unsightly wires. Fine quality import. Ivory.
No. 17B903. 1 Outlet, TV or FM with plug Net Each **69c**
No. 17B904. 2 Outlets, TV and FM with plugs. Net Each **89c**
Couplers. Makes one antenna serve 2 or more outlets. Requires 300 ohm line from antenna and to each outlet. Very easy to wire. Built in isolation network prevents sets interfering with each other. Fine quality import.
No. 17B901. For 2 TV or TV and FM. Net Each **\$1.19**
No. 17B902. For 4 TV or TV and FM. Net Each **\$1.59**

PLUG-IN NOISE FILTER



39c
Ea. 10 Lots

ELIMINATES NOISE ON RADIO OR TV SETS FROM APPLIANCES

Stops noises from switches, small motors, fluorescent lights, etc. Plug into light socket and plug radio or TV into filter. Use also on power connection of all small appliances.
No. 14B66 Each **45c** 10 Lots Each **39c**

TV Interference ELIMINATOR IMPROVES PICTURE - REDUCES NOISE



69c

REG. \$1.17 VALUE

Simple way to obtain maximum performance from any TV set. Connects between antenna lead and set, reduces interference before it enters. Easy to install.
No. 17B514. Spec. Import Value **69c**

PICTURE PERFECT RABBIT EAR TV ANTENNA



99c

Tip proof weighted mahogany plastic base, extra length 4 section dipole elements, molded nylon support. None finer anywhere.
No. 38836. Special Each **99c**

HANDY TV ANTENNA CONNECTORS



15c
Each 10 Lots

REG. 35c Net Value

Mighty handy. Makes connecting and disconnecting 300 ohm lead from TV set quick and easy. Clothespin type. Snaps onto antenna terminals of set.
No. 17B420. 10 Lots, Net Each **19c** Each **15c**

TV CHEATER CORDS BARGAIN PRICED!



29c
Each, 10 Lots

Top quality No. 18 POSJ UL approved 6-foot cords. Essential for TV servicing. Enables plugging in set while back panel is detached or chassis out of cabinet. Always handy to have—buy several.
No. 19B907. Each **35c**
10 Lots Each **29c**

TV SERVICE CORDS



6 Ft. Patch Cord. Connects between chassis and back panel. Mates with standard connectors like Fig. (2) or (3).
No. 19A880. Each **54c** 10 Lots, Each **49c**
New Polarized Cheater Cord. Used on Motorola, Westinghouse and others. 6 ft., with AC plug.
No. 19A881. Each **54c** 10 Lots, Each **49c**
Notched Cheater Cord. Snaps into back panel. 6 ft. long.
No. 19A884. Each **35c** 10 Lots, Each **29c**

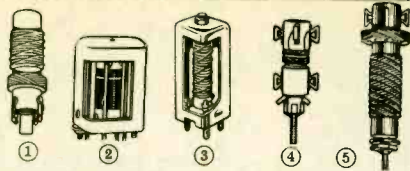
STANDARD TV INTERLOCK RECEPTACLE. Mfg. ctrs. 1 1/4".
② No. 16B540. Recessed mounting. CHOICE, **9c** 10 Lots, **8c**
③ No. 14B254. Flush mounting. NET EACH.

④ ⑤ HIGH QUALITY EXTENSION LEADS

- No. 14B281. 4 Ft. high voltage anode lead. Each **79c**
- No. 14B283. 4 Ft. 6 wire pix tube extension. Each **\$1.29**
- No. 14A167. 3 Ft. Sylvania 110° pix tube extension. Each **\$1.32**
- No. 14A168. 3 Ft. RCA 110° pix tube extension. Each **\$1.32**
- No. 14B284. Universal 8 Wire yoke extension. Each **\$1.47**
- 110° ADAPTER TYPE CRT HARNESS. For testing on bench CRT.
- No. 14B165. For Sylvania 110° CRT. Each **\$1.32**
- No. 14B166. For RCA 110° CRT. Each **\$1.32**

Miller RF & IF Coils

COMPACT RF AND OSCILLATOR COILS FOR CONSTRUCTION OR REPLACEMENT



AIR CORE BROADCAST BAND COILS

High gain, four-bank Litz wire wound secondaries, high impedance primaries. Tune 540-1700 KC with 365 mfmf. condenser.

① Unshielded (3/8" D. x 2 1/2" H.)		② Shielded (1 3/8" Sq. x 2 1/2" H.)			
Stk. No.	Miller No. Description	Each	Stk. No. Miller No. Description	Each	
17A935	43-A Antenna	1.15	17A940	44-A Antenna	1.26
17A936	43-RF RF	1.09	17A941	44-RF RF	1.26
17A938	43-C 2-Winding Osc.	1.09	17A943	44-C 2-Winding Osc.	1.26
17A939	45-C Tapped Osc.	1.09			

③ SHIELDED AIR CORE MINIATURE COILS

Ultra compact. 3/4" sq. x 2" H. Tune with 365 mfmf. condenser.

Order by Group Stock No. 17A698 and Miller No. Description		140-425 KC	Net Ea.	540-1700 KC	Net Ea.	2.1-6.3 MC	Net Ea.
Antenna	X-121A	1.76	A-121A	1.62	B-121A	1.62	
RF Stage	X-121RF	1.76	A-121RF	1.62	B-121RF	1.62	
Oscillator	X-121C	1.76	A-121C	1.62	B-121C	1.62	

④ MINIATURE ADJUSTABLE COILS

Extremely compact iron core units 1/2" dia. x 1 1/2" long. Tune 540-1600 KC with any condenser having maximum capacity between 250 and 450 mfmf. Oscillator coils track with IF amplifier between 100 and 550 KC. Type 70-OSC has primary and tapped secondary; 69-OSC has capacity coupled winding. Clip mtg. in 1/8" hole. A-320C, two winding type; A-321C, tapped.

UNSHIELDED			SHIELDED		
Stk. No.	Miller No. Description	Each	Stk. No.	Miller No. Description	Each
17A932	70-A Antenna	1.26	17B524	A-320A Antenna	\$1.91
17A933	70-RF RF	1.26	17B528	A-320RF RF	1.91
17A934	70-OSC Oscillator	1.12	17B546	A-320C Oscillator	1.91
17A650	69-OSC Oscillator	1.12	17B547	A-321C Oscillator	1.91

⑤ COMPACT UNIVERSAL OSCILLATOR COIL

Iron core adjustable for tracking with variable condensers having max. value between 250 and 450 mfmf. in all types of circuits with all types of tubes. Size 5/8" dia. x 1 1/2" high. Spring mtg. Clips fit 1/8" dia. hole. RF range 500-1800 KC. IF range 100-550 KC. 4 oz.

No. 17A956. Miller No. 71-OSC. Net Each \$1.62

⑥ ADJUSTABLE ALL-WAVE RADIO COILS

High Q shielded. 3/8 x 2". Tune with 365 mfmf. condenser. Order by Group Stock No. 17A699 and Miller No. Net Each \$1.76

Description	140-420 KC	540-1700 KC	1.7-5.5 MC	5.5-18 MC	12-36 MC
Antenna	X5495A	A5495A	B5495A	C5495A	D5495A
RF Stage	X5495RF	A5495RF	B5495RF	C5495RF	D5495RF
Std. Osc.	X5495C	A5495C	B5495C	C5495C	D5495C
Tapped Osc.	X5496C	A5496C	B5496C	C5496C	D5496C

SHIELDED SUB-MINIATURE OSCILLATOR COIL

Perfect companion to miniature IF's below. 3/8" sq., 3/8" H. Tunes with 78-100 mfmf. condenser. Requires no padder.

No. 17B790. Miller Type 2021. Net Each \$2.06

UNSHIELDED TRANSISTOR OSCILLATOR COILS

Range 540 to 1650 KC. IF, 455 KC. Mtg. clip fits 1/8" hole. Size 3/8x1" H. 2020 and 2022 are 5 lug type for single transistor oscillator-mixer. 2023 is 6 lug type for two transistor oscillator and mixer.

Stk. No.	Type	Tunes With	Use Padder	Net Ea.
17C477	2020	365 Mfmf.	.0004 Mfd.	\$1.62
17B789	2022	78-100 Mfmf.	None	1.62
17B984	2023	365 Mfmf.	.0004 Mfd.	1.62

1/2" MINIATURE TRANSISTOR IF'S (3/4" HIGH)				
17B982	2031	455KC	Input, Pri. 10 K, Sec. 600	\$2.47
17C457	2041	455KC	Input, Pri. 25 K, Sec. 600	2.47
17B794	2042	455KC	Output, Pri. 25 K, Sec. 1000	2.47

FM RF COILS AND TUNING CONDENSER

Signal frequency, 88-108 MC, permeability tuned coils for clip mounting in 1/8" dia. hole. Designed to tune with 6.6-23 mfmf. 3 section condenser Type 1461 below. Osc. coil tracks with 10.7 MC IF.

Stk. No.	Miller No.	Description	Net Each
17A652	1447	88-108 MC Ant. Coil	\$1.24
17A653	1448	88-108 MC RF Coil	1.24
17A654	1449	88-108 MC Osc. Coil	1.24
17A656	1461B5	3 Sect. FM Tuning Cond.	3.97

FM STEREO MULTIPLEX INDUCTORS

Specialized high quality coils for constructing a top-notch FM stereo system. These coils and the recommended circuitry enable separation of the complex FM Stereo broadcast signal to obtain right and left hand sound channels. All 5 coils are needed for the complete system. Shielded 3/4" sq. x 1 3/8" high. Wt. 2 oz. ea.

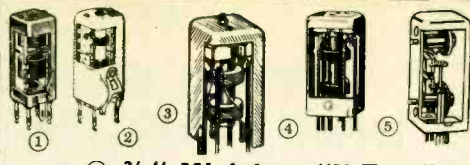
Stk. No.	Type	Description	Net Ea.	Stk. No.	Type	Description	Net Ea.
17B505	1351	Low Pass Filter	\$1.91	17B517	1354	19 KC Oscil.	\$2.50
17B507	1352	Series Band Pass	1.76				
17B509	1353	Shunt Band Pass	1.76	17B521	1355	38 KC Output	2.35

CAPACITY RELAY COIL

Basic oscillator coil for constructing a capacity operated control system for displays, show windows, alarms, etc. System would take the place of normal "off-on" switch and provide automatic control when a person or object moves close. Coil size: 7/8" dia. x 2 1/4" H. With typical wiring diagram. Shpg. wt. 4 oz.

No. 17A655. Type 695. Net Each \$2.32

HIGH QUALITY AIR CORE AND IRON CORE IF TRANSFORMERS



① 3/4" Miniature "K-Tran" Iron Core IF's

Standard chassis type clip mounted IF's for general replacement and new construction. Slug tuned, top and bottom. Silver mica condensers. 3/4" sq., 2" H. #12H6, 12C6 have diode filters. 12C12 has tapped primary. Wt. 2 oz.

Stk. No.	Type	Description	Net Ea.	Stk. No.	Type	Description	Net Ea.
17B683	12H1	262KC Input	1.71	17A895	12W1	1500 KC Input	1.94
17B687	12H6*	262KC Output	1.76	17A896	12W2	1500 KC Output	1.94
17A886	12C1	455 KC Input	1.59	17A889	1463	10.7 MC Input	1.91
17A887	12C2	455 KC Output	1.59	17A890	1464	10.7 MC Discr.	2.20
17B753	12C6*	455 KC Output	1.68	17A891	1465	10.7 MC Ratio Det.	2.29
17B754	12C12	455 KC Input	1.91				
17B501	12C45	455 KC Discr.	2.65				

① COMMUNICATIONS IF TRANSFORMERS

For use where selectivity and stability are important. 3/4 x 3/4 x 2" H. Type 1709 has 2.5 KC bandwidth. 1710, 3 KC bandwidth; 1730, 15 KC bandwidth. 1725 and 1726 are for 455 KC crystal filter circuits. 1770 is double tuned.

Stk. No.	Type	Description	Net Ea.	Stk. No.	Type	Description	Net Ea.
17B929	1709	100 KC (2.5 KC)	\$2.50	17B549	1727	455 KC BFO	\$1.76
17B508	1710	100 KC IF	2.06	17B555	1730	1800 KC IF	2.06
17B519	1711	100 KC BFO	1.91	17B598	1770	455 KC IF	2.50
17B542	1725	Filter Input	2.12	17B599	1731	1610 KC Coupling	2.32
17B548	1726	Filter Output	1.91				

3/4" "K-TRANS" FOR PRINTED CIRCUITS

Same construction as standard chassis mount series above, except for terminals and mounting. Designed especially for replacement and new construction on modern circuit boards.

Stk. No.	Type	Description	Net Ea.	Stk. No.	Type	Description	Net Ea.
17C445	13PC1	455 KC Input	\$1.62	17B756	1463PC	10.7 MC Input	\$1.91
17C450	13PC2	455 KC Output	1.62	17B758	1465PC	10.7 MC Ratio Det.	2.29

② 3/4" Miniature "J"-Tran Iron Core IF's

Modern top-tuned type. Has hollow hexagonal-hole cores which permit either double or single ended tuning. Snap fastener mount. 3/4" sq., 2" High. *With diode filter condenser. Special types 14C7 and 14C8 are for battery radios, 14C9 and 14C10 for AC-DC radio. 6270 also interstage.

Stk. No.	Type	Description	Net Ea.	Stk. No.	Type	Description	Net Ea.
17A360	14H1	262 KC Input	\$1.76	17A381	14C8	455 KC Output	\$1.62
17A365	14H2	262 KC Output	1.76	17A384	14C9	455 KC Input	1.62
17A368	14H6*	262 KC Output	1.85	17A385	14C10	455 KC Output	1.62
17A369	14C1	455 KC Input	1.62	17A387	6270	4.5 MC Input	1.76
17A370	14C2	455 KC Output	1.62	17A388	6271	4.5 MC Ratio Det.	2.91
17A379	14C7	455 KC Input	1.62				

③ 1 1/8" Midget IF's—Mica Trimmer Tuned—2" High

Double tuned construction for excellent gain and selectivity.

Description	IRON CORE		AIR CORE			
	Stk. No.	Miller No.	Stk. No.	Miller No.		
455 KC Input	17A909	012-C1	\$2.21	17A635	112-C1	\$2.15
455 KC Interstage	17A473	012-C2	2.21	17A474	112-C2	2.15
455 KC Fullwave Output	17A911	012-C3	2.21			
455 KC Halfwave Output	17A912	012-C4	2.21	17A637	112-C4	2.15

④ Low Cost Universal IF Transformers

AIR CORE-CERAMIC TRIMMERS—2 1/2" HIGH

Popular all purpose replacements for household and portable radios.

Stk. No.	Description	Net Ea.	Stk. No.	Description	Net Ea.
17A917	312C1 455 KC Input	\$1.91	17A919	312C4 455 KC Output	\$1.91

⑤ 1 3/8" Permeability Tuned Transformers

For unmatched stability. Capacitors are zero drift silver micas. Both tuning slugs accessible from one side of shield can. Can size 1 3/8" square, 3 1/4" high except BFO which is 2 1/4" high. Wt. 6 oz. F.W., full wave. H.W., half wave.

Description	455 KC		1500 KC		
	Stk. No.	Miller No.	Stk. No.	Miller No.	
Input	17A921	912-C1	17B931	912-W1	\$2.91
Interstage	17A922	912-C2	17B944	912-W2	2.91
Output (F.W.)	17B930	912-C3	17B945	912-W3	2.91
Output (H.W.)	17A924	912-C4	17B946	912-W4	2.91
B.F.O.	17A925	912-C5	17B947	912-W5	2.26

10.7 MC Transistor FM/IF TRANSFORMERS

Double tuned famous "J" Tran construction permitting both primary and secondary to be adjusted from either top or bottom. Designed specifically for transistor type 2N1745 or equivalent. 3/4" sq., 2" H. Bandwidth ratings are at 3 db point. Type 1605, 320 KC peak to peak; 1606, 310 KC peak to peak. New, improved designs.

Stk. No.	Type	Replaces Type	Description	Pri. Imp.	Sec. Imp.	Net Ea.
17A900	1601	1463-T1	1st IF, 214 KC Bandwidth	27K	300	\$2.23
17A937	1602	1463-T2	2nd IF, 195 KC Bandwidth	27K	300	2.32
17A942	1603	1463-T3	3rd IF, 195 KC Bandwidth	75K	300	2.32
17A970	1604	1464-TD	Discrim. 630 KC Pk. to Pk.	27K	...	2.50
17A971	1605	1465-TRD	Ratio Det. with Diodes	10K	...	4.70

TV ANTENNA COUPLING TRANSFORMERS

Improves TV reception by permitting use of 72 ohm or 52 ohm coaxial lead from antenna to TV set. Greatly reduces ghost and noise pickup. System requires two transformers, one at antenna, other at set.

No. 17C560.	Type 6161.	52/300 or 300/52	Ohms. Each.	\$1.91
No. 17C561.	Type 6162.	72/300 or 300/72	Ohms. Each.	1.91

Miller Coils, Forms, TV Coils, Ferrite Antennas



MILLER SLUG TUNED CERAMIC COIL FORMS

Precision made of ceramic material meeting Jan 1-19 Grade 5 Specs., silicone impregnated to reduce moisture absorption. All have two adjustable solder terminal clips except type 66A022 which has molded ceramic terminal ring providing highest possible coil "Q". With single hole mtg. hardware.

Miller Type	With Slug For 1.0-20 MHZ	With Slug For 2.0-40 MHZ	With Slug For 40-300 MHZ	Form Size Dia.	Lgth.	Mtg. Hole	Net Each
4300	17A908	17B910	17B913	.205	.593	.166	\$1.06
4500	17B914	17B915	17B916	.260	.858	.192	1.15
4400	17B918	17B920	17B923	.375	1.06	.252	1.29
66A022	17B926	17B927	17B928	.500	1.25	.252	1.94

MILLER SLUG TUNED PHENOLIC COIL FORMS

Constructed of impregnated tubing that can be certified to MIL-P-79B type PBG Specs. Mechanically stronger than ceramic, exhibiting extremely low loss. With 2 adj. solder rings, except 22A series has 4 lugs.

Miller Type	With Slug For 1.0-20 MHZ	With Slug For 2.0-40 MHZ	With Slug For 40-300 MHZ	Form Size Dia.	Lgth.	Mtg. Hole	Net Each
20A000	17B948	17B949	17B950	.250	.843	.192	\$0.88
21A000	17B951	17B952	17B953	.375	1.125	.252	.88
22A000	17B962	17B963	17B964	.500	1.937	.252	1.35

MILLER HIGH "Q" SLUG TUNED WOUND COILS

ON CERAMIC FORMS 1/4" DIA. x 7/8" LONG

Order by Stock No. 17A700 and Mfg. No. of coil selected.

Mtg. Range	uh	10	10	10
No.	Min.	Max.	Each	Each
4501	.4	.8	\$1.47	\$1.39
4502	1	1.6	1.47	1.39
4503	1.6	2.8	1.53	1.45
4504	2.8	5	1.56	1.48
4505	5	9	1.62	1.54
4506	9	16	1.68	1.59
4507	16	24	1.73	1.64

ON CERAMIC FORMS 3/8" DIA. x 1 1/8" LONG

Order by Stock No. 17C782 and Mfg. No. of coil selected.

Mtg. Range	uh	10	10	10
No.	Min.	Max.	Each	Each
4403	.9	1.6	\$1.59	\$1.51
4404	1.5	3.2	1.62	1.54
4405	3.1	6.8	1.65	1.57
4406	6.7	15	1.71	1.62

ON PHENOLIC FORMS 1/4" DIA x 7/8" LONG

Order by Stock No. 17A705 and Mfg. No. of coil selected.

Mfg. No.	Range	uh	Net	10
No.	Min.	Max.	Each	Each
20A107RBI	.079	.125	1.00	0.95
20A157RBI	.119	.187	1.00	.95
20A227RBI	.170	.275	1.00	.95
20A337RBI	.240	.410	1.06	1.01
20A477RBI	.310	.580	1.06	1.01
20A687RBI	.430	.850	1.06	1.01
20A827RBI	.580	1.00	1.06	1.01
20A106RBI	.670	1.25	1.06	1.01
20A156RBI	.900	1.87	1.06	1.01
20A226RBI	1.60	2.75	1.06	1.01
20A336RBI	2.00	4.10	1.06	1.01
20A476RBI	2.80	5.80	1.06	1.01

COIL SELECTOR CHART FOR PHENOLIC FORM COILS ABOVE

Shows proper coil for use in circuits intended for the various amateur bands when parallel capacitance is known.

Band	40 MMFD	90 MMFD	130 MMFD
1.8 MC (160 Mtrs)	20A224RBI	20A825RBI	20A685RBI
3.6 MC (75/80 Mtrs)	20A475RBI	20A225RBI	20A155RBI
7.2 MC (40 Mtrs)	20A155RBI	20A686RBI	20A336RBI
14.2 MC (20 Mtrs)	20A336RBI	20A156RBI	20A106RBI
21.3 MC (15 Mtrs)	20A156RBI	20A106RBI	20A337RBI
28.0 MC (10 Mtrs)	20A827RBI	20A337RBI	20A227RBI
51.0 MC (6 Mtrs)	20A227RBI	20A107RBI	

MILLER COIL FORMS



Low loss mica base phenolic. Supplied less prongs for permanent mounting. Dia. 1" x 3/8" long.
 No. 17A1107. No. 45000. Each \$44c
 No. 45004 with 4 prongs for standard tube base socket. 57c
 No. 17A1108. Each 57c
 No. 45005 with 5 prongs for standard tube base socket. 57c
 No. 17A1109. Each 57c

MILLER HIGH Q FERRITE ROD ANTENNAS



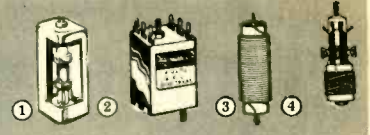
Highest quality Litz wire, wound on low loss ferrite cores. Takes place of antenna coil, hank or loop. Range 540-1650 KC.

Stk. No.	Type	For Set	Tunes With	Net Each
17A958	6300	Tube	350-450 Mmfd.	\$1.00
17B907	2002	Transistor	250-450 Mmfd.	1.32
17B987	2007	Transistor	100-250 Mmfd.	1.73
17B988	2001	Transistor	365 Mmfd.	1.76
17B989	2003	Transistor	130 Mmfd.	1.76
17B791	2004	Transistor	365 Mmfd.	1.94
17B792	2005	Transistor	130 Mmfd.	1.94
17B828	705A	Tube	300-400 Mmfd.	2.09
17C479	2000	Transistor	365 Mmfd.	2.00

MILLER TV COILS

B-A CAN SUPPLY ALL MILLER COIL PRODUCTS

Order stating Miller No.; Miller Coil Guide and Catalog will be supplied FREE on request with an order. No. 25A101. ASK FOR IT.



① 4.5 MC INTERCARRIER SOUND IF COMPONENTS
 Iron core single and double tuned. Discriminator is Foster-Seeley type. Dimensions 1 1/8" sq. x 2 1/8" H. except 1469, 1470 and 1480, without shield. 6203, 6204 and 6205 are miniature 3/4" sq., 2" high.

Stk. No.	Type	Description	Net Ea.	Stk. No.	Type	Description	Net Ea.
17A533	1466	Input-Int. Stg.	\$2.09	17A893	6204	Discrim.	\$2.20
17A534	1467	Discrim.	2.41	17A537	1470	Trap	1.03
17A535	1468	Ratio Det.	2.50	17B451	1480	Quadrature	1.06
17A536	1469	Pick Off	1.03	17B783	1481	Quadrature	1.38
17A892	6203	Input-Int. Stg.	1.94	17A894	6205	Ratio Det.	2.20

② HORIZONTAL OSCILLATOR & SYNC. CONTROL COILS
 Permeability tuned shielded assemblies for use in horizontal sweep oscillator and automatic frequency control circuits. Maximum size 1 1/8" sq. x 2 1/2" high.

Stk. No.	Type	Description	Net Ea.
17B863	6183	Osc. & Sync. Freq. & Phase Stabilizer	2.21
17A538	6210	Sync. Stabilizer, 16-42 mh.	1.62
17C578	6211	Sync. Stabilizer, 16-42 MH., tapped	1.62
17A581	6212	Horiz. Osc., tapped 12-35 mh.	1.62
17A582	6324	Horiz. Osc., tapped 60-130 mh.	1.62

③ VIDEO PEAKING COILS
 On molded plastic forms, except shunt types, wound over resistor. Type 6175 Filament Choke, 3/8" dia. x 7/8" long; All video Peaking Coils, 7/8" dia. x 3/8" long.

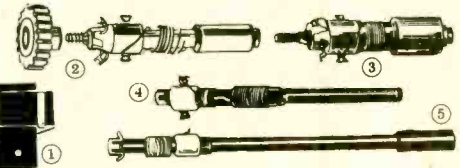
Order by Group	Stock No.	Miller No.	Net Each	62c
Micro Hy.	Miller No.	Micro Hy.	Miller No.	Micro Hy.
0.8	6175	100	6112	250
20	6152	120	6153	300
36	6176	180	6180	470
60	6110	200	6154	500

④ ADJUSTABLE WIDTH CONTROLS
 With mtg. clip to fit 3/8" or 1/2" hole. Required in TV, widely used in low frequency oscillator circuits and as adjustable RF chokes.

Stock No.	Miller No.	Induct. Milli-Hy.	Net Each	Stock No.	Miller No.	Induct. Milli-Hy.	Net Each
17B739	6313	5-5	1.29	17B747	6321	1-5 Tapped	1.29
17B740	6314	2.5-17	1.29	17B748	6322	1.5-10	1.23
17B741	6315	4-30	1.29	17B749	6323	5-5 Tapped	1.35
17B742	6316	4-30AGC	1.76	17A582	6324	60-130 Tapped	1.62
17B744	6318	3-3	1.21	17B764	6330	45-215	1.76
17B745	6319	15-60	1.62	17B720	6195	185-1	1.06
17C590	6320	3-3 Tapped	1.23	17B727	6199B	5-1.7	1.12

SUPER POWERFUL RADIO ANTENNAS

REPLACES LOOPS AND ANTENNA HANKS FOR GREATLY IMPROVED PERFORMANCE



① SUPEREX FLAT LOOPSTICKS FOR JAPANESE TRANSISTOR RADIOS
 Adjustable to match tuning condenser in set. Actually peps up performance because of extremely high sensitivity.
 No. 14C81. Model 1FT-600, 1 1/4" long. Net Each \$1.38
 No. 14C82. Model 2FT-397, 2 1/8" long. Net Each \$1.38

② FLAT LOOPSTICKS FOR TUBE RADIOS FOR THE ULTIMATE IN SENSITIVITY
 Sliding coil adjustment provides perfect tuning match.
 No. 14C83. Model 2F, 2 3/4" long. Net Each \$1.62
 No. 14A37. Model 3F, 3 5/8" long. Net Each \$1.62
 No. 14C84. Model 5F, 5 1/4" long. Net Each \$1.62
 No. 14A38. Model 7F, 7" long. Net Each \$1.76

③ POPULAR "VARI-LOOPSTICK"
 With adjustment knob and circuits. Most popular for experimenters who like to build tiny crystal radios.
 No. 14A85. Model VL. Net Each \$59c

④ POWERFUL "VARI-TENNA" FOR TUBE RADIOS
 Boosts sensitivity and gain up to 25 times over old loops and hanks. Completely adjustable by screwing "slug" in and out. Small enough to fit any set. Also popular for tiny tunable crystal radios. 2" long, 1/8" dia. Clip-mounts in 3/8" hole. Mfg. list \$1.25.
 No. 14C89. Model VT. Net Each \$73c

⑤ TRANSISTOR LOOPSTICK
 Micrometer adjustment for maximum performance. Tapped for impedance match. 2" long, 1/8" diameter.
 No. 14C86. Model VLT-240. For 365-410 Mmfd. Tuning Cond. Net Ea. \$73c
 No. 14C87. Model VLT-950. For 75-365 Mmfd. Tuning Cond. Net Ea. \$73c

⑥ SUPER ENERGIZED FERRI-LOOPSTICK FOR TUBE RADIOS
 Even more powerful than the Vari-Tenna. Has larger ferrite core, fully adjustable, by sliding in and out of coil form. Self-locking. Extended length approx. 4". Clip mounts in 1/8" hole or with bracket supplied. Mfg. list \$1.50.
 No. 14C94. Net Each \$88c

⑦ EXTRA POWERFUL 7" KING-SIZE LOOPSTICK FOR TUBE RADIOS
 Outperforms them all. Almost like adding another stage of amplification to the set. Gives amazing performance because of extreme high "Q" of 425. Self-locking full adjustment for "peaking." With mounting bracket. Mfg. list \$2.25.
 No. 14C277. Net Each \$1.32

Instrument Control Knobs & Dials

NEW MILLER VERNIER PANEL DIALS

FEATURE HAIR-LINE POINTER AND TRUE PROFESSIONAL APPEARANCE

AS LOW AS
\$8.09



Easy reading 0-100 logging scale plus 6 self calibrating scales on the larger models, 4 on the smaller MD-5. Drives are smooth acting vernier. MD-7 and MD-8 have dual speed fast tuning 6 to 1 ratio with fine tuning 36 to 1 ratio over 6-division portion of the scale. Frame is black wrinkle finished, extending 1/2" from panel. For 1/4" shafts.

Stock No.	Miller No.	Tuning Ratio	W.	Size H.	Net Each
29C59	MD-5	9 to 1	6 1/4"	4 1/2"	\$8.09
29C60	MD-6	9 to 1	7 3/8"	4 7/8"	8.82
29C61	MD-7	36 to 1 & 6 to 1	6 1/4"	4 1/8"	14.70
29C62	MD-8	36 to 1 & 6 to 1	7 3/8"	4 7/8"	14.70

PANEL DIALS FOR RECEIVERS AND TRANSMITTERS

POPULAR MILLER MIDGET DIAL WITH PRECISION 8:1 RATIO



Right for today's miniature size equipment. Calibrated 0-100 plus 5 blank write-in scales. Only 4x3 1/4". Flat black. Fits 1/4" shafts. Shpg. wt. 1 lb. No. 29A91. Millen 10039. Net Each. **\$6.30**

GROTH TURN COUNT DIAL REGISTERS FRACTIONAL TURNS TO 99.9



For use on multi-turn devices such as roller coil inductance, inductances, multi-turn potentiometers and vacuum capacitors. Mounts on front panel by 4 corner screws or the shaft bushing. Has removable 1/4" shaft extending 1 1/2" behind dial. Dial case measures 2" W., 4" H., 3/8" thick. Shpg. wt. 8 oz. No. 29A64. TC2 Dial (2 1/8" dial dia.). Net Each. **\$5.50**

No. 29A65. TC3. (3" dial dia.). Net Each. **\$5.75**

No. 29A66. TCS Spinner Handle. Net Each. **75c**

NATIONAL CONTROL KNOBS



MOLDED TENITE KNOBS

Precision type, for finest equipment. All for 1/4" dia. shaft. Types HR, HFP have aluminum insert. Furnished with 1-8-32 slotted head set screw except type HFP has 2-5-40 Allen head set screws set 90° apart and HRT series which have 2-8-32 slotted head set screws 90° apart. Additional height on type HFP due to skirt extension is .166. HRS series dial is 1 7/8" dia. Av. shpg. wt. 1 oz.

Stk. No.	Mfg. No.	Color	Description	Net Each	100 Each	200 Each
15A1109	HR	Black	1 1/8" dia., 3/4" H.	\$0.39	\$0.37	\$0.35
15A1110	HR	Gray	1 1/8" dia., 3/4" H.	.39	.37	.35
15A1114	HFP	Black	1.038" ptr., .610" H.	.80	.76	.72
15B1117	HRS-3	Black	HR with dial, 0-10, 300°	.66	.63	.59
15A1101	HRS-3	Gray	HR with dial, 0-10, 300°	.66	.63	.59
15B1120	HRS-4	Black	HR with dial, etched line	.66	.63	.59
15B1122	HRS-5	Black	HR with dial, 0-10, 180°	.66	.63	.59
12A13	R	Black	HRP with 1 5/8" dial, 0-10, 180°	.69	.65	.62
15B1102	HRT	Black	2 1/8" D., 1 1/8" H. Chr. trim	1.04	.99	.94
15A1105	HRTM	Black	1 1/2" D., 3 1/8" H. Chr. trim	.58	.55	.52

PROFESSIONAL SOLID ALUMINUM KNOBS, 1/4" SHAFTS

Single 6-32 slotted head set screw in types HG and HGF; 8-32 in type HRB; 2-4-40 Allen head screws at 90° in type HRM.

15A1116	HRM	Satin Chrome	black arrow, 1/2x3/8"	.96	.91	.86
15A1097	HRB	Polished	1 7/8" Lg. x 1/2" H.	.65	.62	.59
15A1099	HG	Polished	1 1/8" x 5/8" H., 1 1/8" flange, Red Line	.60	.57	.54
15A1100	HGF	Like HG,	with flat sides, red dot	.75	.71	.68

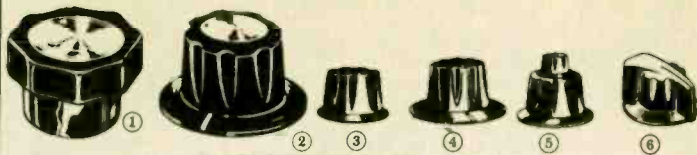
DIAL CORD AND SPRING



NYLON DIAL CABLE
16B431 .026" dia. Thin 100 Ft. **68c**
16B432 .028" dia. Med. 100 Ft. **78c**
16B433 .038" dia. Large 100 Ft. **99c**
DIAL DRIVE SPRINGS
Kit of 25. 6 sizes for any job.
No. 11A77. Kit of 25. **\$1.35**

DAVIES INSTRUMENT AND CONTROL KNOBS

WITH SPUN SILVER INLAY



BLACK WITH SPUN SILVER INLAY

Dress up knobs for panels and equipment. Precision molded of tough black plastic, gloss finished. All have 1/4" hole and set screw. Fig 2 series has white filled pointer line on skirt.

Fig.	Stk. No.	Type	Size	Net Each	10 Each	100 Each
①	12A1213	4100	1 1/8" D. x 5/8" H.	44c	39c	37c
①	12A1214	4101	1 3/8" D. x 3/4" H.	45c	41c	38c
①	12A1215	4102	1 3/8" D. x 3/4" H.	52c	47c	44c
②	12A1216	1913	1 1/8" D. x 5/8" H.	38c	34c	32c
③	12A1217	1925	1 1/8" D. x 5/8" H.	28c	25c	24c
④	12A1218	1930	1 1/2" D. x 7/8" H.	40c	36c	34c
⑤	12A1229	1940	2" D. x 1 1/8" H.	54c	49c	46c

ALL BLACK WITH WHITE LINE POINTER

Modern fluted, skirted style like used on most professional electronic equipment. Flawlessly molded of very durable, heat resistant black plastic, gloss finished with white filled pointer line on top and skirt of Fig. ③, ④ and ⑤, on skirt only of Fig. ④. Fig. ⑥ for dual shaft concentric controls is combination of type 1910 and 1920 sizes. All are set screw type for 1/4" shaft.

Fig.	Stk. No.	Type	Size	Net Ea.	10 Ea.	100 Ea.
⑥	12A1222	1910	3/4" D, 1/2" H	\$0.15	\$0.14	\$0.13
⑥	12B60	1913D	1 1/8" D, 5/8" H	.17	.15	.14
④	12A1224	1920	1 1/4" D, 3/4" H	.18	.16	.15
④	12A1226	1930	1 1/2" D, 7/8" H	.19	.18	.16
④	12B61	1940D	1 1/2" D, 7/8" H	.29	.26	.25
⑤	12A1228	Dual	3/4" x 1 1/4"	.30	.27	.26
⑥	12B62	1919	1 1/4" Lg., 3/8" H	.20	.18	.17

QUALITY KNOBS FOR ALL PURPOSES



Set screw knobs for 1/4" shaft. ①, ② and ③ have brass insert.

Fig.	Stk. No.	Type	Size	Net Ea.	10 Ea.	100 Ea.
①	12B432	4104	1 1/2" D, 3/4" H	.44	.40	.37
①	12A40	4108	2 1/8" D, 5/8" H	.54	.49	.46
②	12A37	4100Q	1 1/8" D, 3/4" H	.36	.32	.30
②	12A38	4102P	1 5/8" D, 3/4" H	.39	.35	.33
③	12A34	4100	1 1/8" D, 3/4" H	.23	.21	.20
③	12A35	4102	1 5/8" D, 3/4" H	.27	.24	.23
③	12A36	4103	2 3/8" D, 3/8" H	.40	.36	.34

① 10
② 8c
③ 8c
④ 10c
⑤ 9c
⑥ 8c
⑦ 8c
⑧ 8c
⑨ 8c
⑩ 8c
⑪ 8c
⑫ 8c
⑬ 8c
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Lustrous black molded bakelite with white filled pointer line. For 1/4" shaft. All are set screw type. *Indicates brass insert type. For 100 lots, not assortment, deduct 15% from each price.

Fig.	Stk. No.	Size	Color	Each	10, Ea.	Fig.	Stk. No.	Size	Color	Each	10, Ea.
①	12A1203	3/4"	Bl.	15c	14c	⑦	12A693	1"	Bl.	14c	13c
①	12B26	1 1/8"	Bl.	12c	11c	⑦	12A45	1 1/4"	Bl.	9c	8c
①	12A1204	1 1/8"	Bl.	27c	25c	⑦	12A44	1 1/4"	Red	9c	8c
②	12B27	1 1/2"	Bl.	15c	14c	⑦	12B1033*	1 1/4"	Bl.	14c	13c
②	12A919	1 1/8"	Bl.	14c	12c	⑧	12A43	2"	Bl.	17c	15c
②	12A920	1 1/8"	Bl.	11c	10c	⑧	12A42	2"	Red	18c	16c
②	12A692	1 1/8"	Bl.	12c	11c	⑧	12B1034*	2"	Bl.	21c	19c

KURZ-KASCH STYLE CONTROL KNOBS

WITH WHITE POINTER LINE
PLASTIC HOLE AND SET SCREW
AS USED ON OHMITE
POWER RHEOSTATS



Stk. No.	Description	1-4	5-9	10-24
14A850	1 1/2" Dia. Black—1/4" Shaft. Ohmite 5150	29c	25c	19c
14A115	1" Dia. Black—1/4" Shaft	29c	25c	19c
14A849	3/4" Dia. Black—1/8" Shaft. Ohmite 5151	29c	25c	19c

CLOCK-RADIO KNOB KIT

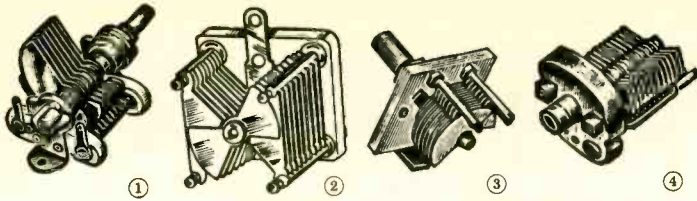


• SAVES TIME TRYING TO FIND EXACT DUPLICATES
• REPLACE ALL KNOBS WITH NEW MATCHING SET

Handy Kit of 25 Miniature Knobs. 5 each white, black, red, brown and clear. Fit 1/8" split shafts on clocks, electric range controls, clock radios, etc. 3/8" dia., 1/2" long. Import Savings.

No. 17B143. Per Kit of 25. Special. Shpg. wt. 1 lb. **99c**

Variable Condensers—Dial Accessories



① HAMMARLUND MC-MCD

The popular high quality steatite insulated midget condenser. Stable two bearing design, 1/4" shaft extends 1" to the front and also 1/2" to rear for ganging. Has cadmium plated brass plates. Mounts on base or with single hole through the panel. Air gap .024". *Semi-circular plates (straight line capacity) all others are mid line plates (straight line wave length). Av. shpg. wt. 7 oz.

17A58*	MC20S	20	5.5	\$2.40
17A59*	MC35S	35	6	2.45
17A60*	MC50S	50	6.5	2.60
17A62	MC75M	80	7.3	2.75
17A63*	MC100S	100	8.3	2.95
17A64	MC100M	100	7.7	2.90
17A65*	MC140S	140	10	3.15
17A68	MC250M	250	12	3.70
17A69	MC325M	320	13.5	4.20

MCD DUAL CONDENSERS

17A1147	MCD100M	100	6.3	7.85
17A1148	MCD140M	140	7.8	8.35

② HAMMARLUND BUTTERFLY

Precision design for VHF and UHF. Perfect symmetry for dual split stator circuit and isolated rotor for series application. Air gap .03". Size 1 3/8" sq., 1 1/2" deep. Shpg. wt. 1 lb.

Stk. No.	Type	Max.	Min.	Net Ea.
17A1092	BFC-12	14.5	3.4	\$2.25

③ HAMMARLUND HF MICROS

Very efficient in critical high frequency circuits. Steatite insulation. Equipped with special wide front bearing. Plate spacing .015. *Have .045 spacing. Shpg. wt. 6 oz.

Stock No.	Mfr's Type	Max. Mmf.	Min. Mmf.	NET EACH
17A84	HF-15	17.5	2.8	\$1.30
17A85	HF-35	36	3.2	1.40
17A86	HF-50	52	3.7	1.60
17A87	HF-100	102	3.3	1.80
17A88	HF-140	142	6.3	1.95
17B89	*HF-15-X	15	3.6	1.30
17A90	*HF-30-X	30	5.2	1.70

④ HAMMARLUND APC MICROS

Particularly adaptable to S.W. Steatite base. Air gap .015". Screwdriver adjustment. Shpg. wt. 4 oz.

Stock No.	Mfr's Type	Max. Mmf.	Min. Mmf.	NET EACH
17A79	APC-25	25	3.0	\$1.20
17A80	APC-50	50	3.9	1.35
17A82	APC-100	100	5.5	1.60
17A83	APC-140	140	6.7	1.80

SHAFT TYPE APC

APC-B has 1/4 inch shaft, otherwise exact same size as APC illustrated above. Shaft length 1/2".

17B91	APC-25B	25	3	\$1.30
17B92	APC-50B	50	3.9	1.40
17B93	APC-100B	100	5.5	1.70
17B94	APC-140B	140	6.7	1.90

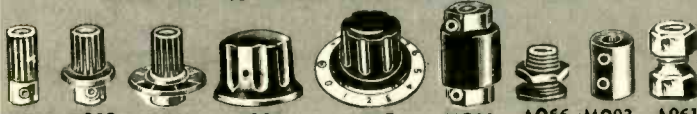
CERAMIC TRIMMERS AND PADDERS



With low loss ceramic base and clear India Ruby mica dielectric. Type A: 3/4"x5/8" Type B: 7/8"x1 1/8"

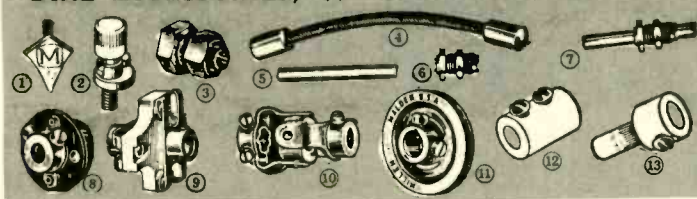
No.	MMFD.	Fig.	Each	10 Ea.
17A77	3-30	A	\$2.29	\$2.26
15A1527	9-180	A	.32	.30
15A1524	25-280	A	.38	.35
15A1526	80-480	A	.47	.43
15A1522	65-340	B	.56	.51
15A1523	275-970	B	.71	.67

MILLEN 1/8-INCH KNOBS-COULPERS



Stk. No.	Description	Net Ea.	Stk. No.	Description	Net Ea.
17A614	A019 1/4x3/8" Blk. Knob	38c	17A621	M008 Ins. Coupler	54c
17A615	A018 Knob W/3/8" Skirt	39c	17A622	A066 Shaft Bearing	38c
17A616	A007 Knob W/5/8" Dial	42c	17A623	M003 Brass Coupler	39c
17A617	A006 3/4x1/2" Blk. Knob	48c	17A624	A061 Shaft Lock	39c
17A618	A015 1/2" Dial-180° CW	72c	12A6	1/8"x12" Brass Shaft	24c

DIAL ACCESSORIES, 1/4" COUPLINGS, SHAFTS



High quality American made 1/4" shaft accessories. "M" items are Millen; "J" Johnson; "N" National. Deduct 10% for 10 lots, not assorted.

Fig.	Stk. No.	Description	Net Ea.	Fig.	Stk. No.	Description	Net Ea.
(1)	17A612	M10021 Marker	.21	(7)	12A10	Bearing W/6" Shaft	\$0.52
(2)	17B799	M10050 Dial Lock	.54	(8)	12A1361	NTX10 Ins. Cplg.	0.67
(3)	17A611	M10061 Shaft Lock	.40	(9)	12A1360	J250 Steatite Cplg.	1.05
(4)	12A11	John. 3" Flex Shaft	.60	(10)	17B706	M39005 Univ. Joint	.60
(5)	12A12	John. 6" Flex Shaft	.86	(11)	17B704	M39016 Hi Volt Cplg.	.60
(6)	12A5	Brass 1/4x12" Shaft	.29	(12)	12A1184	Br 1/4x3/8" Coupling	.20
(7)	12A7	Ins. 1/4x12" Shaft	.33	(12)	12B1185	Br 1/4x3/8" Coupling	.20
(8)	12A1359	John. Shaft Bearing	.19	(13)	12A1196	Br Extend 1 3/8" L x 1/4"	.25
(9)	12A9	Bearing W/3" Shaft	.37	(13)	12B1197	Br Extend 1 3/8" L x 1/4"	.25

National RIGHT-ANGLE DRIVE



For coupling 1/4" shafts. Zinc housing and gears. Overall length 4 1/2". 1/4" shaft extends 2". Ideal for driving condensers, etc. Wt. 6 oz. No. 29A76. Net Each... **\$4.31**



JOHNSON SUBMIDGETS

Type M. Miniature air capacitors. Ideal for compact equipment. Mounts through panel, can be either screwdriver or knob adjustment.

Steatite end plate only 5/8x3/4". 1/4" dia. slotted shaft extending 1/4" from bushing and mount in 1/4" hole. Rigidly soldered rotor and stator assemblies. Plate spacing .017, rating 750-volt R.M.S. Av. wt. 6 oz.

Stock No.	Mfg. No.	Cap.	Mmf.	Net Each
14A311	160-102	1.5	5.0	\$0.90
14A312	160-104	1.8	8.7	.95
14A313	160-107	2.3	14.2	1.00
14A314	160-110	2.7	19.6	1.10

Stock No.	Mfg. No.	Cap.	Mmf.	Net Each
14A316	160-205	1.8	5.1	1.30
14A317	160-208	2.2	8	1.45
14A318	160-211	2.7	10.8	1.60

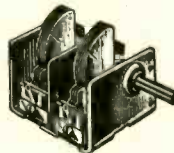
JOHNSON TYPE U & V SUB-MINIATURES

FOR PRINTED BOARD MOUNTING. All metal parts are silver plated, ceramic is steatite. Screwdriver adjustment.

Stock No.	Mfg. No.	Cap.	Mmf.	Net Each
14B361	189-1-5	3.5	1.2	\$0.60
14B362	189-2-5	5.4	1.3	.63
14B363	189-3-5	7.3	1.4	.65
14A364	189-4-1	9.1	1.5	.68
14A365	189-5-1	11.	1.7	.70
14A366	189-6-1	13.	1.8	.72
14A368	189-7-1	15.	2.	.72
14A369	189-8-1	17.	2.2	.76

Stock No.	Mfg. No.	Cap.	Mmf.	Net Each
14A370	193-4-5	13.	1.4	.70
14A388	193-6-5	20.	1.7	.72
14B390	193-8-5	27.	2.	.74
14B398	193-10-5	34.	2.2	.76

ONE, TWO AND THREE GANG SEMI-MIDGET CONDENSERS



With ball bearing rotors, heavy brass rotor contact springs and 1/4" dia. shaft.

Stk. No.	Sec.	Size	Net Each
19A1212	1	3 1/8 x 2 3/4 x 2 1/8"	\$1.20
19A1214	2	1 1/8 x 2 x 3 1/8"	1.88
19A1216	3	1 1/8 x 2 x 4 1/8"	3.38

MILLER 2-GANG MIDGET TYPE

Type 2110. Osc. section 10-78 mmfd. Ant. section 10-130 mmfd. Counter clockwise rotation. 12 mmfd. trimmers on each section. Wt. 6 oz. Size 1 1/8 x 1 1/8"

No. 17B985. Net Each... **\$2.06**

Type 2112. Osc. section 10-365 mmfd. Ant. section 10-365 mmfd. Counter clockwise rotation. 12 mmfd. trimmers on each section. Size 2 1/8 x 1 1/8 x 1 1/8"

No. 17B986. Net Each... **\$2.50**

Cut Section Superhet Type 555.27. Planetary drive for precise tuning. 2-gang, RF section 10 to 365 mmfd. Osc. section 8.6 to 170.6 mmfd. Size 2 1/8 x 1 1/8 x 1 1/8". Wt. 10 oz.

No. 17A580. Net Each... **\$3.15**

TEKNI-CAL PANEL MARKING DECAL SETS

ADD CUSTOM PROFESSIONAL APPEARANCE TO EQUIPMENT

- Economical
- Permanent
- Neat Appearance



Quick, easy, transfer labels for permanent marking of electronic instruments and equipment. Many sets contain 1000 or more marks, titles, symbols, etc., of appropriate sizes for their purpose. Alphabet sets include 1/8", 1/4", 3/8" and 1" complete sets of letters and numerals. Specify Stock No. and Color.

Stk. No.	Mfg. No.	Description	Color Choice	Net Per Set
20B128	204	Alphabet	Black, White, Red, Gold	1.65
20B135	306	Audio	Black, White	1.85
20B138	507	Dials	Black, White	1.85
20B139	603	Instrument	Black, White	1.85
20B140	706	Oscilloscope	Black, White	1.85
20B141	807	Com. Receivers	Black, White	1.65
20B143	1002	Service Set	Black, White, Gold	.75
20B144	1106	1/2" Transmitter	Black, White	1.65
20B145	1106R	3/8" Transmitter	Black, White	1.85
20B146	1202	Workshop	Black, White	1.65
20B149	1402	VTVM	Black, White	1.85
20B152	2202	Hi-Fi Audio	Black, White, Gold	1.85
20B155	2302-3	3" Meter Faces	White	2.65

FINISHING SOLVENT FOR TEKNI-CAL TRANSFERS

Dissolves clear background, permanently adheres transfers to panel. No. 20A176. 1 oz. Net Each... **95c**

DATAK INSTANT LETTERING DRY TRANSFERS

Not a decal... goes on instantly... looks like printing. Transfers dry to practically any surface—metal, wood, glass, plastic, paper. Lettering is clean, crisp and opaque, with no background film.

Applies to panels, chassis, meter faces, etc. by rubbing over lettering as it appears on see-thru backing sheet, giving professional appearance to equipment. Each kit contains hundreds of markings. Specify color.

No. 20A687.	Titles for Electronic Equipment. Black or White. Contains 24 sheets, hundreds of reprinted titles. For...	\$4.95
No. 20A678.	Refill Alphabet. 12 sheets Black or White	\$2.50
No. 20A679.	Refill Numerals. 12 sheets Black or White	\$2.50
No. 20A689.	Terminal & Chassis Marking Kit. Black or White	\$4.95
No. 20A690.	Meter & Dial Marking Kit 968. Ass't'd. Black, White and Red. Contains 12 sheets 5x8"	\$4.95
No. 20A694.	Datak Protective Coat. 1 Oz. Bottle	\$1.00

Panel Lights, Sockets

DIALCO PILOT LIGHT ASSEMBLIES



① DIALCO ULTRA-MINIATURE DATALITES

For use with replaceable lamp cartridges. Choice of colors. Flat end types available legend (numbers or singly or grouped as a data strip.

508-7538-504 Lamp Holder
① Mounts in $\frac{3}{8}$ " hole. Removable from front. Aluminum with black anodized finish. Accepts all lamp cartridges, neon or incandescent.

12C532. **\$1.22** 100 Up **93c**
Each Each

LAMP CARTRIDGES

Use with holder above or individually mntd. thru panel with connectors or speed clip shown below. Lamp dia. $\frac{3}{16}$ ".

Incandescent Series

Order by stock number and color. Choice of colors: Red, Green, Amber, Blue, White, Yellow, Clear.

Fig. No.	Volts	Amps	1-99	100 Up
① 12C535	6.3	.2	\$1.17	\$0.89
② 12C534	6.3	.2	1.17	.89
③ 12B528	14	.08	1.17	.89
④ 12B527	14	.08	1.17	.89
⑤ 12C526	28	.04	1.17	.89
⑥ 12C525	28	.04	1.17	.89

Neon Lamp Cartridge

With built-in resistor. Use same as incandescent listed above. Order by stock number and color. Choice of: Red, Amber, White, Yellow, Clear.

Series 45 With NE-2E Lamp

Fig. No.	AC or DC	Volts	1-99	100 Up
① 12C522	105 to 125	1.14	\$0.91	
② 12C521	105 to 125	1.14	1.14	.91

45H With NE-2H Hi-Brightness Lamp
① 12C524 110 to 125 1.14 .91
② 12C523 AC Only 1.14 .91

PERMANENT DATALITE

① Dialco #249-7841 Datalites with permanent built-in neon NE-2E lamps. Stovepipe lens, two insulated terminals. Conforms to mil specs. Mounts in $\frac{3}{8}$ " hole. $1\frac{1}{2}$ " long, $\frac{1}{2}$ " O.D. Has built-in 100K resistor for use on 105-125 volts. Specify color: Red, Yellow, White or Clear.
No. 12A896. Each Net. **\$1.34**

7538 CONNECTORS AND SPEED CLIP

XP50 Cartridge connector, molded phenolic.
No. 12C419. Net Each. **15c**
XP51 Speed clip. Self-retaining spring steel tubular device. Holds lamp securely.
No. 12C438. Net Each. **5c**
XP12 Aluminum sleeve, phenolic insulated.
No. 12C428. Net Each. **62c**

DRAKE NEON INDICATORS



Panel Type Drake HR117. Attractive, inexpensive indicator assemblies for many applications in radio, hi-fi, electronics equipment, appliances, toys, etc. Mounts in $\frac{1}{2}$ " hole by means of a snap-in plug. Has leads for direct connection to 110-125 volt AC-DC. Assembly is complete with high brightness type long life neon bulb and built-in limiting resistor. Specify choice of color—Red, Clear.

No. 12A993 1-9 Each **34c** 10-49 Each **31c**

Drake No. 110-022 Flushlite. For use on 110-125 volts AC or DC. One piece translucent dome construction. Mounts with two screws. Mtg. Ctrs. $1\frac{1}{2}$ ". Base, $\frac{3}{8}$ " wide. $1\frac{1}{8}$ " long. Ideal for line failure indicators. Specify Choice of Color—Red or Milk White.

No. 12A994. Each **49c** 10-49 Each **44c**

Drake Type 105 Post-Lite. Low cost, attractive, long life indicator units. One piece body and Jewel of polystyrene. Mounts in $\frac{1}{2}$ " hole. Extends $\frac{3}{4}$ " in front of panel and $1\frac{1}{8}$ " behind. For AC or DC volt use, has built-in resistor and high brightness neon bulb. Easy to install. Specify Colorless or Red.

No. 12A995. Each **67c** 10-49 Each **60c**

COMPLETELY SEALED TYPE

⑤ Oil-Tight Dialco #103-3101 heavy duty industrial type. Gasket sealed against oil, water or dust. Front lamp replacement. 1" hale mtg. Chrome finish. Uses **S6, 115 Volt bulbs**. UL listed. Faceted lens for 180° viewing. Less bulb. Specify red, green, amber or clear.

12A974. Ea. **\$2.64** 10 Ea. **\$2.40**

POPULAR LOW COST TYPE

⑥ Dialco #810410 $\frac{1}{4}$ " mtg. For low voltage miniature bayonet lamps. UL listed. Smooth $\frac{1}{2}$ " jewel. Front panel removable bulb. $2\frac{1}{4}$ " long for panels up to $\frac{3}{8}$ ". Solder terminals, less lamp. Specify color, red, green, amber or white.

No. 12A825. Ea. **96c** 10 Ea. **90c**

ATTRACTIVE LOW COST TYPE

⑦ Dialco #812210. For low voltage miniature bayonet lamps. Bulb replaceable from the front. $2\frac{1}{4}$ " long, requires $\frac{1}{4}$ " mounting hole for panels up to $\frac{3}{8}$ " thick. Solder terminals. Smooth jewel with $\frac{1}{2}$ " nickel plated brass mounting. Specify color: Red, Green, Amber, White or Blue. Less lamp.

No. 12A885. Ea. **82c** 10 Ea. **77c**

POPULAR 1 INCH LENS

⑧ Dialco #32-3101 1" mtg. hole. Uses **S6, 115 Volt bulbs**. Faceted $\frac{1}{4}$ " lens. Chrome plated holder. UL listed. $2\frac{1}{2}$ " length. Less lamp. Specify color, red, green, amber or clear.

12A1165. Ea. **\$1.48** 10 Ea. **\$1.33**

DOME LENS TYPE

⑨ Dialco #951310, for low voltage miniature bayonet base lamps. Popular dome lens, front removable lamp. Mounts in $\frac{1}{4}$ " hole. Two solder terminals. Overall length $2\frac{1}{2}$ ". Wt. 1 oz. Supplied less lamp. Specify color, red, green, amber or clear.

No. 12A835. Ea. **87c** 10 Ea. **82c**

NEON INDICATOR LIGHTS

BUILT-IN RESISTOR

⑩ Dialco #95-0408 popular dome lens. $\frac{1}{4}$ " mtg., built-in resistor for using **NE51 Neon bulb** on 105-125 V. Lgth. $2\frac{1}{8}$ ". Requires $\frac{1}{4}$ " mounting hole. UL listed. Less lamp. Specify, red, amber, white or clear.

12A666. Ea. **99c** 10 Ea. **95c**

Dialco #95-0463 for high brightness **NE51H Neon bulbs**. Produces six times more light than regular NE51. Description same as 95-0408 above. Less lamp. Specify color, red, amber, white or clear.

12A972. Ea. **99c** 10 Ea. **95c**

Replacement plastic caps for 95-0408 and 95-0463 listed above. Specify color, red, amber, white or clear.

No. 12A973. Ea. **19c** 10 Ea. **18c**

⑪ Dialco 95-9108. Enclosed type for use with NE51 and NE51H miniature bayonet neon bulbs.

Use on 115-120 volts. Plastic dome lens. Solder terminals. Length $2\frac{1}{8}$ ", requires $\frac{1}{4}$ " mounting hole. UL listed. Less bulb. Specify color: Red, Amber, White or Clear.

No. 12A886. For NE51 Bulb. No. 12A887. For NE51H high brightness bulb.
CHOICE, Ea. **87c** 10 Ea. **82c**

⑫ Dialco 162-8430. Sub-Miniature Series. For use with No. 327, or 328 bulbs. Solder terminals. Front mounting in $\frac{1}{4}$ " hole. Bulb front removable. Overall size $1\frac{3}{8} \times \frac{5}{8}$ ". Wt. $1\frac{1}{2}$ oz. Full view stovepipe lens. Supplied less bulb. Specify Red, Green, Yellow, Blue, White or Clear.

12A555. Ea. **\$1.21** 10 Ea. **\$1.13**

SUB-MINIATURE SERIES

⑬ Dialco #101-5030. Uses tiny flange type bulbs No. 327 or 328, front removable. Mounts from front of panel in $\frac{1}{4}$ " hole. Two terminal, fully insulated. Overall length $1\frac{3}{8}$ "; $\frac{3}{4}$ " O.D. Specify Red, Green, Amber or White. Supplied less bulb. Wt. 2 oz.

12A977. Ea. **\$1.26** 10 Ea. **\$1.17**

LOW COST TYPES

⑭ DIALCO. $\frac{1}{2}$ " faceted jewel, removable from front for easy access to bulb. Mounts in $\frac{1}{4}$ " hole. Specify color, red, green or amber. Less lamp.
12A1161. Min. bayonet socket. Ea. **50c** 10 Ea. **46c**

⑮ DIALCO. Economical angle bracket assemblies. With $\frac{1}{2}$ " convex jewel. Mount in $\frac{1}{4}$ " hole. Bracket held by threaded shank of lens holder. Bulb accessible from rear. Specify color, red, green or amber.

No. 12A1156. Miniature screw socket. Ea. **34c** 10 Ea. **31c**

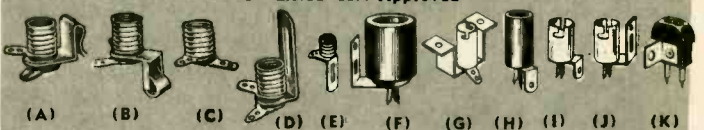
No. 12A1157. Miniature bayonet socket. Ea. **34c** 10 Ea. **31c**

⑯ Dialco 80-0901. Attractive torpedo wide-view lens mounted in one inch nickel plated screw cap. For use with S6 screw base candelabra 115 volt, installed from the front. UL approved. Side screw terminals. Length behind panel, 2"; mounts in 1" hole. Specify color: Red, Green or Amber. Less lamp.

12A979. Ea. **\$1.48** 10 Ea. **\$1.34**

LEECRAFT SOCKETS FOR SMALL LAMPS

*UL Listed CSA Approved



MINIATURE SCREW BASE

No.	Fig.	1-24	25-99
12A1142	A	20c	15c
12A1146	C	20c	15c
12A1144	D	20c	15c
12A1145	E	20c	15c

MINIATURE BAYONET BASE

No.	Fig.	1-24	25-99
12A1152	A	20c	15c
12A1153	B	20c	15c
12A1147	C	20c	15c
12A1150	D	20c	15c
12A1151	E	20c	15c
18C798	G	20c	15c

110V CANDELABRA SCREW BASE
12A833 C 20c 15c
12A1154 D 20c 15c
12A1155 *E 20c 15c

BAKELITE SCREW BASE
12B708 H 30c 25c

INTERMEDIATE SCREW BASE
Wire leads—insulated*. For ozone lamps etc.
12B700 F 35c 30c

WEDGE BASE WIRE TERM.
For 158-159 Lamps
12B706 K 30c 25c

SPECIAL SOCKETS



① **HOODED PANEL LIGHT**
For front panel illumination. Polished nickel plated hood rotates to direct light. $\frac{1}{2}$ " mtg. hole. Bulb removable from front.
12B246. Johnson 147-330. **90c**
For Min. Sc. base lamps. Ea. **99c**
No. 12B247. Johnson 147-329. For Min. bay. base lamps. Ea. **99c**

② **BAKELITE BASE TYPES**
Double contact candelabra bayonet. Fits neon lamps, NE32, NE48.
No. 12A1170. Each **52c**

③ **SINGLE CONTACT CANDELABRA**
Same construction as above. Fits auto lamps, etc.
No. 12A1172. Each **52c**

④ **MILLEN 33991 SOCKET**
Double Contact Candelabra for type 991 VR tube or neon lamps. Also fits standard auto lamps.
No. 12A1421. Each **63c**

PILOT LIGHT JEWELS

All purpose jewel lenses. Mount with nut in panels $\frac{3}{8}$ " thick. Specify color: Red, Green or Amber.

Stk. No.	Size	Lens	Fig.	Each
12A829	$\frac{3}{4}$ "	Smooth	A	\$1.26
12A1159	$\frac{1}{2}$ "	Smooth	A	.16
12B710	$\frac{1}{2}$ "	Faceted	B	.13
12A830	$\frac{1}{8}$ "	Smooth	A	.16
12B709	$\frac{1}{8}$ "	Faceted	B	.15

SURFACE MTG. SOCKETS

BAKELITE SCREW BASE
For miniature base lamps.
No. 20A343. Ea. **15c**
For candelabra base lamps.
No. 20A342. Ea. **15c**

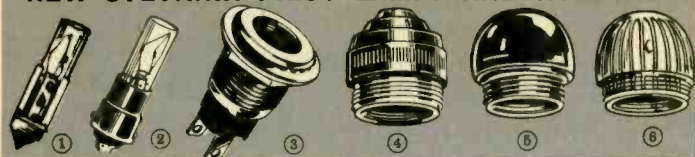
BAKELITE CLEAT RECEPTACLE
For standard screw base lamps.
No. 20A341. Ea. **25c**

PILOT BULB REMOVER

Handles hard to get bulbs easily. High grade rubber.
No. 16B561. Net Each. **28c**

Panel Indicators & GE Lamps

NEW SYLVANIA PILOT LAMPS AND HOLDERS



EXTENDED SERVICE PILOT AND INDICATOR LAMPS

Feature minimum of 5000 hours life, flat top bulb, slide or bayonet bases. 6 to 120 volt. **Special Note:** Type 120 PSB or 120MB offers the smallest size incandescent indicator lamps available for operation directly on 105-120 volt line, no resistor required. Fig ② lamps may be used in any miniature bayonet pilot light assembly.

Fig. Stk. No.	Mfg. No.	Fig. Stk. No.	Mfg. No.	Volts	Amps	1-9	10-99
① 12A1684	6PSB	② 12A1691	6MB	6	.14	\$46	\$4.40
① 12A1685	12PSB	② 12A1692	12MB	12	.17	.46	.40
① 12A1686	24PSB	② 12A1693	24MB	24	.073	.46	.40
① 12A1687	28PSB	② 12A1694	28MB	28	.04	.46	.40
① 12A1688	48PSB	② 12A1695	48MB	48	.053	.46	.40
① 12A1689	60PSB	② 12A1696	60MB	60	.05	.46	.40
① 12A1690	120PSB	② 12A1697	120MB	120	.025	.46	.40

③ UNIVERSAL HOUSING FOR SLIDE BASE LAMPS

Supplied less end caps—make cap selection from listing below. Nickel plated finish. Rated 75 watts, 125 volts. U/L listed. Has combination Amp slide-on or solder terminals. Length 1 1/4". Fits panels up to 1 1/2".

No. 12A1679. Less Lens. 1-9 Each... 85c 10-99 Each... 56c
 ④ 12A1680. Jeweled. Choice of Red, Green, Blue or Amber.
 ⑤ 12A1681. Transparent. Choice of Red, Green, Blue, Amber, Yellow or Clear.
 ⑥ 12A1683. Opaque. Choice of Red, Green, Yellow or White.
 ⑦ 12A1682. Fluted. Choice of Red, Green, Blue, Amber or Clear.
YOUR CHOICE, 1-9 Each... 18c 10-99 Each... 15c 100-499 Each... 15c

ESP LIGHTS AND HOUSINGS



① ESP LONG LIFE INDICATOR LIGHTS

Slide base series feature 5000 to 15,000 hour life, have positive positioned filaments for maximum signal efficiency. Very low current.

Stk. No.	Lamp No.	Volts	Amps	1-9 Ea.	10-99 Ea.	100-499 Ea.
12A1698	6ESP	6	.035	\$0.46	\$0.40	\$0.38
12A1699	12ESP	12	.035	.46	.40	.38
12A1700	24ESP	24	.035	.46	.40	.38
12A1701	28ESP	28	.035	.46	.40	.38
12A1702	48ESP	48	.035	.51	.48	.42

② INDICATOR TYPE HOUSINGS & LENS CAPS (For ESP Lamps)

TYPE B0153 SOCKET. Made of black nylon, installed from front of panel and secured with Tinnerman nut. Keyed to take 0160 round or 0170 square lens. Attractive low cost units.

No. 12A1719. 1-9 Each... 28c 10-99 Each... 25c 100-499 Each... 23c

③ & ④ ROUND OR SQUARE LENS

Order by stock number and specify color. Specify: Red, Clear, Amber, White, Green, Blue or Yellow.

③ No. 12A1720. Round Series 0160 Your 1-9 Ea. 10-99 Ea. 100-499 Ea.
 ④ No. 12A1721. Square Series 0170 Choice 19c 17c 15c

INDICATOR TYPE CARTRIDGE LIGHTS & LENS



The finest quality in signal lamp devices. Have two pin base and fit the housing and caps below. Housings are black anodized aluminum to Mil specs. A-8625. Mounts in 3/8" hole. Lenses are polycarbon for high temperature operation. Available in two styles, five colors each.

① LONG LIFE, LOW CURRENT CARTRIDGE LIGHTS

Stock No.	Lamp No.	Volts	Amps	1-9 Ea.	10-24 Ea.
12A1711	909	6	.035	\$0.97	\$0.87
12A1712	918	12	.035	.97	.87
12A1713	933	24	.015	.97	.87
12A1714	938	28	.035	.97	.87
12A1715	941	48	.035	1.00	.90

② HOUSING FOR LAMPS LISTED ABOVE

No. 12A1716. Mts. in 3/8 hole.
 1-9 Each... 91c 10-24 Each... 82c 25-99 Each... 76c 100-249 Each... 68c

MATCHING LENS

③ No. 12A1717. Transparent. Specify Amber, Clear, Red, Blue or Green.
 ④ No. 12A1718. Translucent. Specify Yellow, White, Red, Blue or Green.
CHOICE 1-9 Each... 26c 10-24 Each... 25c 25-99 Each... 24c

① PILOT TYPE CARTRIDGE LIGHTS

Voltage range from 6 to 120 volts. Very long life, conventional two pin plug-in base. Clear glass permits choice of lens color. Use lens shown under indicator type lamps above.

Stk. No.	Lamp No.	Voltage	Amp.	1-9 Ea.	10-24 Ea.	25-99 Ea.	100-249 Ea.
12A1703	21	6	.8	\$97	\$87	\$80	\$72
12A1704	31	12	2.0	.97	.87	.80	.72
12A1705	41	24	1.7	.97	.87	.80	.72
12A1706	51	28	1.1	.97	.87	.80	.72
12A1707	61	48	2.5	.97	.87	.80	.72
12A1708	71	60	3.0	.97	.87	.80	.72
12A1709	81	120	3.0	.97	.87	.80	.72

② SYLVANIA HOUSING NUMBER SM-2

Fits pilot type lamps listed above. Requires 3/8" hole. Use Fig. ③ and ④ Lens listed above.
 12A1710. 1-9 Ea... 91c 10-24 Ea... 82c 25-99 Ea... 76c 100-249 Ea... 68c

MINIATURE GE LAMPS



(A) Tubular—Min. Screw Base

(E) Miniature 2-Pin

Cat. No.	Mazda No.	Volts	Amps	YOUR COST Each	for 10
16A153	40	6.3	0.15	.14	.81
16A151	41	2.5	0.50	.21	1.27
16A155	46	6.3	0.25	.14	.81
16A156	48	2	0.06	.21	1.27
43A156	335	28	.04	1.46	8.76

(B) Tubular—Min. Bayonet Base

Cat. No.	Mazda No.	Volts	Amps	YOUR COST Each	for 10
16A158	43	2.5	0.50	.21	1.27
16A159	44	6.3	0.25	.14	.81
16B365	45	3.2	.35	.17	1.06
16A160	49	2	0.06	.17	1.06
16A161	47	6.3	0.15	.14	.81
16B134	313	28	.17	.30	1.78
16A584	1490	3.2	0.16	.17	1.06
16B154	1815	12	0.20	.19	1.16
16B135	1819	28	.04	.35	2.07
16A210	1829	28	.07	.34	2.03
16C177	1847	6.3	.15	.17	1.06
16C178	1891	12	.24	.16	.98

(C) Round—Min. Screw Base

Cat. No.	Mazda No.	Volts	Fig.	YOUR COST Each	for 10
16A163	14	2.5	(C)	.18	.99
16A465	PR2	2.4	(H)	.19	1.16
16B137	PR3	3.57	(H)	.19	1.16
16C221	PR4	2.33	(H)	.19	1.16
16C222	PR6	2.47	(H)	.19	1.16
16C223	PR12	5.95	(H)	.19	1.16
16B342	112	1.2	(J)	.16	.99
16A171	222	2.2	(J)	.16	.99
16C224	224	2.15	(K)	.19	1.16

(D) Round—Min. Bayonet Base

Cat. No.	Mazda No.	Volts	Fig.	YOUR COST Each	for 10
16A166	51	6.8	0.20	.15	.87
16B138	53	12	.12	.13	.79
16A167	55	6.8	0.40	.13	.79
16B139	57	14	.24	.13	.79

Note: Deduct 10% from 10 lot price in quantities of 100 and up per type for all lamps.

(L) BULBS FOR NEW HIGH INTENSITY AND MEDICAL LAMPS

16C237. Type 1156. 12 V. sgl. contact bayonet base. Ea... 44c 10 Ea... 26c
 16B226. Type 1133. 6 V. sgl. contact bayonet base. Ea... 39c 10 Ea... 23c
 16B343. Type 1493 6 V. double contact bayonet base. Ea... 1.02 10 Ea. 61c

56 CANDELABRA BASE 110-120 V. BULB

6 watts, clear glass, candelabra base. For indicator and other needs.

No. 16A168.	10	100 @
Net Each	21c	Lots 19c Each 17c
Bayonet Base 656DC.	Same as above except with double contact bayonet base.	10 100
No. 16C162.	Ea. 33c	Each 30c Each 27c



GE NEON AND ARGON LAMPS



NEON TYPES

Standard Screw Base
 Clear glass neon filled glow lamps. Have built-in resistor. For 110-125 volt AC or DC.

No.	Type	Watts	Each	10 @ Ea.
16A143	NE30	1	\$1.14	\$0.91
16A142	NE34	2	1.76	1.41
16A141	NE40	3	2.66	2.05

Candelabra Screw Base
 16A145 NE45 1/4 .81 .65

Double Contact Candelabra Bay. Base Resistorless Type
 No. Type Watts Each 10 @ Ea.
 16A147 NE32 1 1.14 .91
 16A148 NE48 1/4 .67 .54

Miniature Bayonet Base Type
 Requires 200 M ohms for NE51 and 56 M ohms for NE51H high-brightness type to use on 105-125 volts. Used extensively in neon panel indicators.

16B170	NE51 1/25	.20	.16
16A150	NE51H	.22	.18

Midget Flange Type

Used in panel indicators. NE-2D standard brightness requires 100K resistor, NE-2J Hi-brightness requires 30K resistor to use on 110-125 V.

Stk. No.	Type	Each	10 Ea.
16C206	NE2D	78c	62c
16D302	NE2J	78c	62c

NE2 1/25 Watt Neon
 Unbased, with 2 wire leads. Bulb is 1/8" dia. 1 1/8" long. Requires 200,000 ohm series resistor for 105-125 V. operation.

16A140. Each... 10c 10 For... 88c

ARGON GLOW LAMPS

Have blue glow with limited ultraviolet content. For 110-125 volts AC or DC. AR4 requires series 15K resistor, AR9 200K.

Stk. No.	Type	Watts	1-9	10 Ea.
16D265	AR-1	2	\$1.90	\$1.52
16D266	AR-3	1/4	.86	.68
16D267	AR-4	1/4	.76	.66
16D283	AR-9	1/25	.20	.16

SYLVANIA END CAPS & SOCKETS



① End Caps. Fit directly on ESP-PSP lamps.
 No. 12A1675. Specify Red, Yellow, White, Green, Blue. Choice Each... 7c
 No. 12A1676. Rectangular Socket. Each... 26c
 ② No. 12A1677. Round Socket. Each... 26c
 ③ 12A1678. Strip of 12 Indiv. Sockets, 1/2" ctr. Cut to number needed. Ea. \$3.10

Buss Fuses & Mountings

BUSS GLASS TUBE FUSES

Formerly Called 3AG



Quick-acting general purpose fuses for radios, amplifiers, etc. Rated 250 V. UL Approved. Size 1/4"x1/4".

Stock No.	Amps Type Rating	Box of 5	100 For
14A101	AGC 1/8	.75	12.50
14A102	AGC 1/8	.75	12.50
14A103	AGC 1/8	.75	12.50
14A104	AGC 1/8	.75	12.50
14A105	AGC 1/8	.75	12.50
14A106	AGC 1/8	.75	12.50
14A107	AGC 1/8	.75	12.50
14A108	AGC 1/8	.75	12.50
14A109	AGC 1/8	.75	12.50
14A110	AGC 1/8	.75	12.50
14A111	AGC 1/8	.75	12.50
14A112	AGC 1/8	.75	12.50
14A113	AGC 1/8	.75	12.50
14A114	AGC 1/8	.75	12.50
14A115	AGC 1/8	.75	12.50
14A116	AGC 1/8	.75	12.50
14A117	AGC 1/8	.75	12.50
14A118	AGC 1/8	.75	12.50
14A119	AGC 1/8	.75	12.50
14A120	AGC 1/8	.75	12.50
14A121	AGC 1/8	.75	12.50
14A122	AGC 1/8	.75	12.50
14A123	AGC 1/8	.75	12.50
14A124	AGC 1/8	.75	12.50
14A125	AGC 1/8	.75	12.50
14A126	AGC 1/8	.75	12.50
14A127	AGC 1/8	.75	12.50
14A128	AGC 1/8	.75	12.50
14A129	AGC 1/8	.75	12.50
14A130	AGC 1/8	.75	12.50
14A131	AGC 1/8	.75	12.50
14A132	AGC 1/8	.75	12.50
14A133	AGC 1/8	.75	12.50
14A134	AGC 1/8	.75	12.50
14A135	AGC 1/8	.75	12.50
14A136	AGC 1/8	.75	12.50
14A137	AGC 1/8	.75	12.50
14A138	AGC 1/8	.75	12.50
14A139	AGC 1/8	.75	12.50
14A140	AGC 1/8	.75	12.50
14A141	AGC 1/8	.75	12.50
14A142	AGC 1/8	.75	12.50
14A143	AGC 1/8	.75	12.50
14A144	AGC 1/8	.75	12.50
14A145	AGC 1/8	.75	12.50
14A146	AGC 1/8	.75	12.50
14A147	AGC 1/8	.75	12.50

BUSS ABC CERAMIC TUBE FUSES

Formerly Called 3AB

Size 1/4x1/4". High interrupting capacity fuses for use on circuits delivering as high as 25,000 amps at 125 V. or 10,000 amps at 250 V.

Stock No.	Amps Type Rating	Box of 5	100 For
14A39	ABC 1	.65	11.00
14A40	ABC 2	.65	11.00
14A41	ABC 3	.65	11.00
14A42	ABC 5	.65	11.00
14A43	ABC 8	.65	11.00
14A44	ABC 10	.65	11.00
14A45	ABC 12	.65	11.00
14A46	ABC 15	.65	11.00
14A47	ABC 20	.65	11.00

LOW VOLTAGE FUSES

All the following are 1/4" dia., with various lengths shown.

BUSS AGC FUSES, 32 VOLT

Formerly Called 3AG

Stock No.	Amps Rating	Lgth. Ins.	Box of 5	100 For
14A187	4	1 1/4	\$0.28	\$4.70
14A188	5	1 1/4	.20	3.30
14A194	7 1/2	1 1/4	.20	3.30
14A195	10	1 1/4	.20	3.30
14A196	15	1 1/4	.20	3.30
14A197	25	1 1/4	.23	3.80
14A198	30	1 1/4	.23	3.80

BUSS AGA FUSES, 32 Volt

Formerly Called 1AG

Stock No.	Amps Rating	Lgth. Ins.	Box of 5	100 For
14A48	5	5/8	\$0.23	\$3.80
14A49	7.5	5/8	.23	3.80
14A50	10	5/8	.23	3.80
14A51	20	5/8	.23	3.80
14A57	30	5/8	.23	3.80

BUSS AGW FUSES, 32 Volt

Formerly Called 7AG

Stock No.	Amps Rating	Lgth. Ins.	Box of 5	100 For
14A264	15	7/8	\$0.23	\$3.80
14A265	20	7/8	.23	3.80
14A266	30	7/8	.23	3.80

BUSS SFE FUSES, 32 VOLT

For Auto, Radio, Instrument Protection.

Stock No.	Amps Rating	Lgth. Ins.	Box of 5	100 For
14A92	4	5/8	\$0.23	\$3.80
14A95	6	3/4	.23	3.80
14A96	7 1/2	7/8	.20	3.30
14A97	9	7/8	.20	3.30
14A98	14	1 1/8	.18	3.00
14A99	20	1 1/4	.18	3.00
14A100	30	1 3/8	.23	3.80

BUSS GJV PIGTAIL FUSES



For 250 volts. Size 1/4x1/4" with leads. UL approved.

Stock No.	Amps Rating	Box of 5	100 For
14A686	1/8	\$1.00	\$16.50
14A687	1/4	.75	12.50
14A688	3/8	.75	12.50
14A689	1/2	.75	12.50
14A690	1	.60	10.00
14A691	2	.60	10.00
14A696	3	.60	10.00
14A698	5	.65	11.00

FUSETRON FUSES

Dual-Element, Slow Blowing Formerly Called 3AG



High time lag withstands heavy surges—quick on shorts. Used in circuits having high inductive or capacitive starting loads. Sizes 3/8 to 1 for 250 V, UL listed; 1 2/10 to 6 1/4 for 125 C, UL listed; 8 to 30 for 32 V. 1/4x1/4".

Stock No.	Buss No.	Amps Rating	5 For	100 For
14A524	MDL 3/8	\$1.45	\$24.00	
14A525	MDL 1/2	1.05	18.00	
14A526	MDL 3/4	1.05	18.00	
14A527	MDL 1	1.05	18.00	
14A538	MDL 1 1/8	1.05	18.00	
14A539	MDL 1 1/4	1.05	18.00	
14A601	MDL 2 1/10	1.05	18.00	
14A602	MDL 1/4	1.05	18.00	
14A605	MDL 3/10	1.05	18.00	
14A606	MDL 3/8	1.05	18.00	
14A627	MDL 4/10	1.05	18.00	
14A628	MDL 1/2	1.05	18.00	
14A641	MDL 6/10	1.05	18.00	
14A642	MDL 7/10	1.05	18.00	
14A649	MDL 3/4	1.05	18.00	
14A650	MDL 8/10	1.05	18.00	
14A659	MDL 1	1.05	18.00	
14A660	MDL 1 2/10	1.00	17.00	
14A661	MDL 1 1/4	1.00	17.00	
14A662	MDL 1 1/2	1.00	17.00	
14A663	MDL 1 6/10	1.00	17.00	
14A664	MDL 2	1.00	17.00	
14A665	MDL 2 1/2	.75	13.00	
14A666	MDX 3	.75	13.00	
14A667	MDX 3 2/10	.75	13.00	
14A668	MDX 4	.75	13.00	
14A669	MDX 5	.75	13.00	
14A670	MDX 6 1/4	.90	15.00	
14A671	MDL 8	.75	13.00	
14A672	MDL 10	.75	13.00	
14A673	MDL 15	.75	13.00	
14A674	MDL 20	.75	13.00	
14A675	MDL 25	.75	13.00	
14A693	MDL 30	.75	13.00	

BUSS AGX FAST ACTING FUSES

Formerly Called 8AG



For protection of delicate equipment, meters, etc. Glass enclosed; 1x1/4" dia. Provide high speed action. UL Approved. Voltage rating: 1/200 to 1, 250 V; 1/2 to 5, 125 V.

Stock No.	Amps Rating	5 For	100 For
14A275	1/200	\$2.15	\$36.00
14A276	1/100	1.90	32.00
14A391	3/8	1.70	28.00
14A392	1/2	1.05	17.50
14A396	3/4	.75	12.50
14A397	1/4	.50	8.50
14A504	3/8	.50	8.50
14A505	1/2	.50	8.50
14A508	3/4	.50	8.50
14A509	1	.30	5.00
14A510	1 1/2	.30	5.00
14A511	2	.30	5.00
14A512	3	.30	5.00
14A513	5	.20	3.30

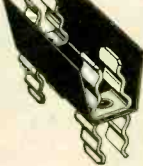
BUSS AGS FUSES

Formerly Called 4AG

Heavy duty straight element 1/4x3/8".

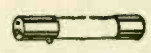
Stock No.	Amps Rating	Volts	Box of 5	100 For
14A610	1	250	\$0.50	\$8.50
14A611	2	250	.50	8.50
14A616	3	250	.50	8.50
14A617	5	32	.42	7.00
14A618	10	32	.42	7.00
14A619	15	32	.42	7.00
14A620	20	32	.42	7.00
14A621	25	32	.42	7.00
14A622	30	32	.42	7.00
14A623	40	32	.50	8.50

BUSS INSULATED TWIN CLIPS



For easy replacement of TV pigtail fuses without soldering. Takes ordinary fuse without pigtail on one side. Other side snaps on to blown pigtail fuse in TV set. No. 12A628. Ea. 14c 10 For \$1.20

LIMITED CURRENT BAYONET TYPE C AND N FUSES



Design safeguards against use of wrong size and type of fuse. Fit only lock-type bayonet holders. UL listed.

Stock No.	Amps Rating	Box of 5	100 For
14A732	1/4	\$0.65	\$11.00
14A733	3/10	.65	11.00
14A753	3/8	.65	11.00
14A754	1/2	.65	11.00
14A755	3/4	.65	11.00
14A756	1	.36	6.00
14A757	1 1/4	.36	6.00
14A758	2	.36	6.00
14A759	2 1/2	.36	6.00
14A760	3	.36	6.00
14A765	3 1/2	.45	7.50
14A766	7	.45	7.50

Fusetron Fuse Slo-Blo Type N

250 V. through 1 1/4 amp.; 125 V. through 5 amp.

Stock No.	Amps Rating	Box of 5	100 For
14A883	2/10	1.10	19.00
14A884	3/4	1.10	19.00
14A885	3/10	1.10	19.00
14A886	4/10	1.10	19.00
14A887	1/2	1.10	19.00
14A888	6/10	1.10	19.00
14A889	7/10	1.10	19.00
14A890	3/4	1.10	19.00
14A898	1 1/4	1.00	17.00
14A899	1 1/2	1.00	17.00
14A900	1 6/10	1.00	17.00
14A901	1 3/4	1.00	17.00
14A902	2	1.00	17.00
14A903	2 1/2	.95	16.00
14A904	2 3/10	.95	16.00
14A905	3 1/2	.95	16.00
14A906	4	.95	16.00
14A907	5	.95	16.00

MINIATURE TYPE GMA

Commonly found in equipment of foreign make. 125 volts or less. Size 5MM. x 20MM. (.197 x .769"). Order by both stock number and amps.

Stock No.	Amps Rating	Box of 5	100 For
14A574	1/8	1.60	27.00
14A612	1/4, 1/2, 7/10	1.20	20.00
14A624	1, 1 1/2, 1 1/2, 2	1.00	17.00
14A643	3, 4, 5, 6, 10	1.00	17.00

Buss Foreign Car FUSES

Service such cars as Volkswagen, Mercedes and others using the German type fuses.

Buss Glass Tube Fuses reduce danger of spraying hot metal when fuse opens on heavy short-circuit. Fits German type fuse blocks. Size 1/4x3/8".

Stock No.	Amps Rating	Box of 5	100 for
14C133	GBC 8	.23	3.80
14C134	GBC 15	.23	3.80
14C142	GBC 16	.23	3.80
14C143	GBC 25	.23	3.80
14C148	GBF 25	.28	4.70

LIMITRON FUSES—GBB



Protection for solid state devices, diodes or rectifiers. Extremely fast opening on overload and fault currents. Will hold peak voltage below rating of the diode. Ceramic tube size 1/4x1/4". 130 volts through 10 amp, 65 volt 12 through 30 amp.

Stock No.	Amps Rating	1-99 Ea.	100 Up
14A728	1	\$0.60	\$0.50
14C729	1 1/4	.60	.50
14C730	2	.60	.50
14C731	3	.60	.50
14C737	5	.60	.50
14C738	6	.60	.50
14C739	7	.60	.50
14C740	8	.60	.50
14C741	9	.60	.50
14C742	10	.60	.50
14C743	12	.60	.50
14C744	15	.60	.50
14C745	20	.60	.50
14C746	25</		

Littelfuse, Fuses & Drake Indicators

3AG STANDARD FUSES LITTELFUSE SERIES 312000



Quick-acting general purpose fuses for radios, amplifiers, etc. Rated 250 V. UL Approved. Size 1/4"x1/4".

Stock No.	Amps. Rating	Box of 5	100 For
12A891	1/100	\$1.92	\$32.00
12A892	1/32	1.68	28.00
12A857	1/16	.75	12.50
12B827	1/10	.75	12.50
12A858	1/8	.75	12.50
12A964	15/100	.75	12.50
12A965	.175	.75	12.50
12A963	3/16	.75	12.50
12A1113	1/4	.51	8.50
12A966	3/10	.51	8.50
12A859	3/8	.51	8.50
12A1114	1/2	.51	8.50
12A1115	3/4	.51	8.50
12A1116	1	.30	5.00
12B828	1 1/4	.30	5.00
12A1117	1 1/2	.30	5.00
12B836	1 6/10	.30	5.00
12A1118	2	.30	5.00
12B844	2 1/2	.28	4.70
12A1120	3	.28	4.70
12A860	4	.39	6.50
12A861	5	.39	6.50
12A862	6	.39	6.50
12A967	8	.60	10.00

8AG SERIES 361000



For protection of delicate equipment meters, etc. Glass enclosed; 1x1/4" dia. Short time lag. Voltage rating up to 250 AC or DC, except 5A, 32V.

Stock No.	Amps Rating	5 For	100 For
12B863	1/500	\$5.16	\$86.00
12A1100	1/200	2.16	36.00
12A1101	1/100	1.92	32.00
12A1102	1/32	1.68	28.00
12A1103	1/16	1.05	17.50
12B869	1/10	.75	12.50
12A1105	1/8	.75	12.50
12B870	3/16	.75	12.50
12A1106	1/4	.51	8.50
12A1107	3/8	.51	8.50
12B875	4/10	.51	8.50
12A1108	1/2	.51	8.50
12A1109	3/4	.51	8.50
12A1110	1	.33	5.50
12A1111	1 1/2	.33	5.50
12A1112	2	.33	5.50
12A845	3	.33	5.50
12A846	5	.33	5.50

1AG 301000 SERIES



Medium acting for low voltage (up to 32 V.) applications. Heaters, auto radio, lights, cigar lighter, clock, etc. Length 3/8", dia. 1/4".

Stk. No.	Amps	Box of 5	100 For
12A1237	1	\$0.30	\$5.00
12A1238	2	.30	5.00
12A1239	2 1/2	.30	5.00
12A1240	3	.28	4.70
12A1241	5	.23	3.75
12A1242	6	.23	3.75
12A1243	7 1/2	.23	3.75
12A1244	10	.23	3.75
12A1245	15	.23	3.75
12A1246	20	.23	3.75
12A1284	25	.23	3.75
12A1285	30	.23	3.75

7AG 303000 SERIES



Full size 7/8x1/4" for low voltage (up to 32 V.). Used in automobile circuits.

Stk. No.	Amps	Box of 5	100 For
12A1305	1	\$0.30	\$5.00
12A1306	2 1/2	.20	3.30
12A1307	4	.20	3.30
12A1308	6	.20	3.30
12A1096	15	.23	3.75
12A1097	20	.23	3.75
12A1301	30	.23	3.75

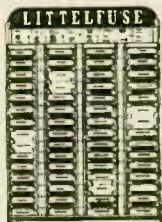
3AG "SLO-BLO" FUSES LITTELFUSE SERIES 313000



High time lag withstands heavy surges—quick on shorts. For 125 V. circuits, except 6 1/4 amp. & up, for 32 V. Size 1 1/4"x1/4".

Stock No.	Amps Rating	5 For	100 For
12B821	1/100	\$1.44	\$24.00
12A946	1/32	1.44	24.00
12A947	1/16	1.06	17.50
12A602	1/10	1.06	17.50
12A906	1/8	1.06	17.50
12A948	15/100	1.06	17.50
12B824	.175	1.06	17.50
12A949	3/16	1.06	17.50
12A604	2/10	1.06	17.50
12A605	1/4	1.06	17.50
12A819	3/10	1.06	17.50
12A950	3/8	1.06	17.50
12A907	4/10	1.06	17.50
12A606	1/2	1.06	17.50
12A951	7/10	1.06	17.50
12A952	3/4	1.06	17.50
12B601	8/10	1.06	17.50
12A908	1	1.06	17.50
12A607	1 1/2	.99	16.50
12A953	1 1/4	.99	16.50
12A954	1 1/2	.99	16.50
12A955	1 3/4	.99	16.50
12A956	1 6/10	.99	16.50
12A608	2	.76	12.50
12A957	2 1/2	.76	12.50
12B826	2 8/10	.75	12.50
12B609	3	.76	12.50
12A958	3 2/10	.76	12.50
12A610	4	.76	12.50
12A611	5	.75	12.50
12A959	6 1/4	.75	12.50
12A894	7	.76	12.50
12A960	8	.75	12.50
12A820	10	.76	12.50
12A612	15	.75	12.50
12A613	20	.75	12.50
12A961	25	.75	12.50
12A962	30	.75	12.50

FUSE ASSORTMENTS LITTELFUSE FUSEMASTER RACK



100 assorted Littelfuses in a wall-mounted clear plastic rack. Will hold up to 60 types, ready for instant use. Comes with 100 most used fuses for TV and radio replacement. Ideal for service shop or dealer stock. Removable labels permit stock adjustment to your exact needs.

Mfg. No. 094047. 1 lb. \$13.67
No. 12A584. Each.....

STANDARD FUSE KIT



Contains 5 each 3AG 1/4, 1/2, 1, 2, 3, 5 amp; 5 each "Slo-Blo" 1/4, 1/2, 5 each 8AG 1/4, 1/2 UL and 5 each 1/4, 1, 1 1/4, 2 1/2, (1C) limited current fuses, covering over 90% of replacements. Caddy size 4 1/2 x 3 1/4 x 1 1/8". Mfg. No. 094037.

No. 12A856. \$8.28
Wt. 1 lb. Each.....

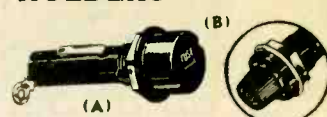
8AG FUSE POSTS



#371001A #372001A

Quicker, safer, simpler method for fuse mounting. Fuse is held in the end of the removable knob for safe fuse replacement. Molded body, mounts in panels up to 1/8" length behind panel 1 1/8". Solder terminals side and end. Choice of screwdriver slot cap type 371001A or finger grip type 372001A.
No. 12A1312. #371001A
No. 12A1247. #372001A
Choice Each... 50c 100 Ea.... 42c

LITTELFUSE HOLDERS



Has Clear plastic cap which lights when the fuse blows. Fits all 3AG fuses up to 20 amps. Select required voltage for the circuit it is to be used in. All are the same physical size: 2 3/8" overall, 1 1/8" behind panel. Mounts in 3/8" hole.

Stk. No. Mfg. No. Voltage Each
12B883 344125A 100-125 \$1.52
12B884 344250A 200-250 1.52

Fuse Mountings

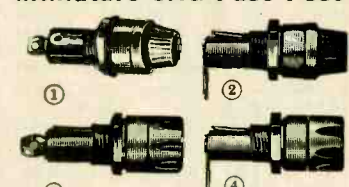
① For above panel connections. Littelfuse No. 387001.
12A1129. For 8AG, 1" fuse. Ea... 16c
Littelfuse No. 357001.
12A1130. For 3AG, 1 1/4" fuse. Ea. 16c
② Mounts directly on meter terminal. Littelfuse No. 383002.
12A1133. For 8AG 1" fuses only. Each... 32c

③ Spring clips for any length 1/4" diameter fuse. Littelfuse No. 101001.
12A1134. 12 for 28c 100 \$1.90
Universal In-Line Holder
Fits all fuses from SFE 1/2" through 3AG fuses. 1 1/4" by selecting proper length spring supplied with each holder.
No. 12B881. 150145. Each... 39c

All bakelite, fully insulated. Mounts in 1/2" hole in panels up to 1/8" thick. UL Approved. Type A, screwdriver slot, overall length 2 1/8"; Type B, finger knob, overall length 2 3/8".

Stock Factory Fits Net
No. No. Type Fuse Ea
12A1138 341001A Slot 3AG 50c
12A822 342001A Knob 3AG 50c

Miniature 3AG Fuse Post



Popular miniature types featuring fluted and knurled knobs with straight or right angle bottom terminals. Total length Fig. 1 and 2 only 1 1/2"; Fig. 3 and 4—1 1/8". Mounts in 1/2" hole, has lock washer and nut. Rating 15 amp. 250 volt, for 3AG fuses.
Stk. No. Mfg. No. 1-99 Ea. 100 Up
① 12A850 342012A \$.37 \$.31
② 12A802 342022A .42 .36
③ 12A803 342014A .37 .31
④ 12A804 342004A .44 .37

LITTELFUSE CIRCUIT BREAKERS



A complete range of high quality circuit breakers. Rated at 125 V. AC. Actual size 1 3/4" L, 1 1/8" H, 1/2" D., with universal length reset button. Resets by simply pushing in the button. Overload protection for radio, TV, amplifiers and many other applications. New, higher amperages for color applications.

Stock No.	Mfg. No.	Trip Rating	Net Each	5 For	Stock No.	Mfg. No.	Trip Rating	Net Each	5 For
12A1313	8151.75	1.75	\$0.78	\$3.25	12A1323	8153.25	3.25	\$0.78	\$3.25
12B1318	815002.2	.2	.78	3.25	12A1324	815004.4	4	.78	3.25
12A1319	8152.25	2.25	.78	3.25	12A1325	81504.5	4.5	.78	3.25
12A1320	81502.5	2.5	.78	3.25	12A1332	815005.5	5	.78	3.25
12A1321	8152.75	2.75	.78	3.25	12A1333	815006.6	6	.78	3.25
12A1322	815003.3	3	.78	3.25	12A1334	815007.7	7	.78	3.25

DRAKE MONEY-SAVING INDICATOR LIGHTS



Permanently installed Hi-Brightness neon lamp assembly ready to operate on 125 volts AC. Gives that new modern appearance to Hi-Fi, appliances, Ham gear and signal or indicator panels at a very low cost. Choice of two mountings. One-piece nylon body and lens construction. Size: body dia. 3/8"; Fig ① and ② 1 1/8" long; ③ and ④ 1 1/2" long. Specify Color: Red, White or Amber.
① Snap-In Type flush lens. No. 12B726. Ea... 50c 10-49 Ea.... 45c
② Snap-In Type tapered lens. No. 12B727. Ea... 50c 10-40 Ea.... 45c
③ Tinnerman Nut Mtg. Flush lens. No. 12B728. Ea... 46c 10-49 Ea.... 42c
④ Tinnerman Nut Mtg. Tapered lens. No. 12B729. Ea... 46c 10-49 Ea.... 42c

LOW COST DELUXE QUALITY INDICATORS MINIATURE PERMANENT NEON TYPE



MINEON TYPE 118. Operate directly on 115 volt AC. Mount from rear through panel up to 3/8" thick in a 3/8" hole. Lucite lens. Choice of fluted or flat end. Lucite lens 1/8" dia. Solder terminals. Built-in 100K resistor. High brightness type. Specify Color: Red, Yellow, Colorless and Translucent White.
⑤ Fluted Lens Type. Specify Color. No. 12B714. 1-9 Each... 92c 10-24 Ea.... 83c
⑥ Flat End Lens Type. Specify Color. No. 12B715. 1-9 Each... 92c 10-24 Ea.... 83c
⑦ NO. 168E INSTRUMENT LIGHT
Hood type for illuminating front of panel on instruments and equipment. Has miniature bayonet socket. Mounts from front in panels up to 1/8" in 1/8" diameter hole. Bulb replaceable from front.
No. 12B716. 1-9 Each... \$1.55 10-14 Ea.... \$1.40

Potter & Brumfield Relays

ATTENTION INDUSTRIAL BUYERS

B-A offers you factory Net Prices! Save time—we ship from stock. Use this quantity discount schedule. For all except mercury wetted types. Deduct from the single lot price shown 5% for 25 to 50 relays of a type, 10% for 51 to 99, 30% for 100 to 249, 35% for 250 to 499. Mercury wetted types deduct 22% for 10 to 24, 27% for 25 to 99.

We can supply all standard P&B relays. Request special catalog.

GENERAL PURPOSE TYPES

MEDIUM DUTY MR POWER RELAYS



For small motors, transmitters and general purpose use. Full floating armature. Fast action 60 cy. AC coils 3.25 watts. DC coils 1.6 watts. $\frac{1}{2}$ " silver contacts rated 8 amps. 115 V AC non-inductive. Size $2\frac{1}{2} \times 1\frac{1}{2} \times 1\frac{1}{2}$ " for single pole— $2\frac{1}{2} \times 2\frac{1}{2} \times 2\frac{1}{2}$ " for double pole.

Stk. No.	Type	Contacts	Coil V.	Each
19A1405	MR5A	SPDT	6AC	3.65
19A1417	MR5A	SPDT	24AC	3.65
19A1406	MR5A	SPDT	115AC	3.65
19A1333	MR5A	SPDT	230AC	4.10
19A1316	MR5D	SPDT	12DC	3.40
19A1318	MR5D	SPDT	110DC	3.90
19A1407	MR11A	DPDT	6AC	5.15
19A1319	MR11A	DPDT	12AC	5.15
19A1419	MR11A	DPDT	24AC	5.15
19A1408	MR11A	DPDT	115AC	5.15
19A387	MR11D	DPDT	12DC	4.90
19A1320	MR11D	DPDT	24DC	4.90
19A1334	MR14A	3PDT	6AC	6.15
19A1440	MR14A	3PDT	24AC	6.15
19A1422	MR14A	3PDT	115AC	6.15
19A1450	MR14A	3PDT	230AC	6.55



SMALL LIGHT DUTY KA RELAY

DC and 60 Cy. AC Coils

High quality, all purpose relay. UL listed. Silver contacts, choice, 5 or 10 amps. Single 6-32 stud mounting with locating tab. Solder lug terminals. Size $1\frac{1}{2} \times 1\frac{1}{2} \times 1\frac{1}{2}$ " high. 110 V. DC Coil res. 10,000 ohms. Wt. 2 oz.

Stk. No.	Type	Contacts	Coil V.	Each
19A1429	KA5AY	SPDT	6AC	\$3.35
19A1332	KA5AY	SPDT	12AC	3.35
19A1430	KA5AY	SPDT	24AC	3.35
19A1431	KA5AY	SPDT	115AC	3.35
19A1432	KA5DY	SPDT	6DC	3.20
19A379	KA5DY	SPDT	12DC	3.20
19A378	KA5DY	SPDT	24DC	3.20
19A1370	KA5DY	SPDT	110DC	3.85
19A1423	KA11AY	DPDT	6AC	4.05
19A1424	KA11AY	DPDT	12AC	4.05
19A1425	KA11AY	DPDT	24AC	4.05
19A1426	KA11AY	DPDT	115AC	4.05
19A1427	KA11DY	DPDT	6DC	3.55
19A1428	KA11DY	DPDT	12DC	3.55
19A1428	KA11DY	DPDT	24DC	3.55
19A1371	KA11DY	DPDT	110DC	4.20
19A1433	KA14AY	3PDT	6AC	4.45
19A1434	KA14AY	3PDT	12AC	4.45
19A1446	KA14AY	3PDT	115AC	4.45
19A380	KA14DY	3PDT	6DC	4.05
19A381	KA14DY	3PDT	12DC	4.05
19A382	KA14DY	3PDT	24DC	4.05
19A1372	KA14DY	3PDT	110DC	4.65

ENCLOSED PLUG-IN

Small size long life relay for dependable use in automation control, communications switching, etc. Enclosed in clear plastic dust cover. Size $1\frac{1}{2} \times 1\frac{1}{2} \times 2\frac{1}{2}$ " high. 10 amp contacts on KRP types ending in G, all others are 5 amps. Octal base for type P5 and P11, 11 pin for P14. Wt. 3 oz.

Choice of 5 or 10 Amp. Contacts

Stk. No.	Type	Contacts	Coil V.	Each
19A1354	KRP5A	SPDT	115AC	5.70
19A1390	KRP5AG	SPDT	115AC	5.85
19A1391	KRP11AG	DPDT	6AC	6.55
19A1357	KRP11A	DPDT	12AC	6.35
19B1349	KRP11AG	DPDT	12AC	6.55
19A1382	KRP11A	DPDT	24AC	6.35
19A1392	KRP11AG	DPDT	24AC	6.55
19A1439	KRP11A	DPDT	115AC	6.35
19A1393	KRP11AG	DPDT	115AC	6.55
19A1383	KRP11D	DPDT	6DC	6.30
19A1394	KRP11DG	DPDT	6DC	6.50
19A1384	KRP11D	DPDT	12DC	6.30
19A1395	KRP11DG	DPDT	12DC	6.50
19A1385	KRP11D	DPDT	24DC	6.30
19A1396	KRP11DG	DPDT	24DC	6.50
19A1358	KRP11D	DPDT	110DC	6.95
19A1462	KRP14A	3PDT	115AC	7.90
19A1397	KRP14AG	3PDT	115AC	8.20
19A1328	KRP14D	3PDT	12DC	7.80
19A1359	KRP14D	3PDT	24DC	7.80
19B1350	KRP14DG	3PDT	24DC	8.15
19B1351	KRP14DG	3PDT	110DC	8.75

KCP SENSITIVE TYPE

Same appearance as KRP above. Operates on 125 MW for SP, 250 MW for DP, and 375 MW for 3P. $\frac{1}{8}$ " silver contacts rated 2 amps. $\frac{1}{8}$ " square x 2" high. Wt. 3 oz. KCP5 and KCP11 have 8 pin base and KCP14, 11 pin base.

Stk. No.	Type	Cont.	Ohms	Each
19A1353	KCP5	SPDT	5K	\$6.30
19A1312	KCP5	SPDT	10K	6.70
19B1352	KCP11	DPDT	2.5K	6.60
19A1532	KCP11	DPDT	5K	6.70
19A1533	KCP11	DPDT	10K	7.15
19A1311	KCP14	3PDT	10K	8.65

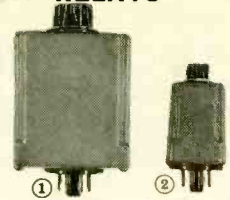
KRP-N INDICATOR TYPE

Same as regular KRP relays with indicating lamp to show current or voltage availability in power circuit. Wt. 3 oz. All have 10 amp contacts.

Stk. No.	Mfg. No.	Contacts	Coil V.	Each
19B1364	KRP11AN	DPDT	115AC	\$7.50
19B1379	KRP14AN	3PDT	115AC	9.15

SOLID STATE TIME DELAY RELAYS

Electronic timing with solid state switching combined to provide a trouble-free device with no moving parts. Other advantages are timing accuracy $\pm 10\%$, repeatability $\pm 2\%$, reset time 60 milliseconds, continuous duty, unlimited dependability.



① CD-38 Series are knob adjustable with internally mounted DPDT relay with 10 amp contacts. Size $1.75 \times 2.37 \times 2.87$ " high. Octal plug termination.

② CD-21 Series knob adjustable, smaller size for use with external relays, P & B Series KR for 115 V. AC or 24 DC. $1.4 \times 1.4 \times 2$ " H. Octal plug termination.

③ New CH Series. Lower cost, accuracy 10% of nominal, reset time 100 milliseconds octal plug-in. Size same as CD-38. * Provides delay on release, all others on operate. Has internally mounted DPDT relay.

Stk. No.	Mfg. No.	Volts	Fig.	Delay Sec.	Net Each
19B1459	CHB-38-30001	24 V. AC	1	1.0 to 10	\$18.50
19B1460	CHB-38-70001	115 V. AC	1	1.0 to 10	18.50
19B1461	CHD-38-30001	24 V. DC	1	1.0 to 10	17.50
19B1463	*CHB-38-70011	115 V. AC	1	1.0 to 10	22.50
19B1482	CDB-38-70003	115 V. AC	1	.1 to 10	43.80
19B1483	CDB-38-70005	115 V. AC	1	1.8 to 180	43.80
19B1484	CDD-38-30003	24 V. DC	1	.1 to 10	41.55
19B1486	CDB-21-70003	115 V. AC	2	.1 to 10	38.70
19B1487	CDB-21-70001	115 V. AC	2	1.8 to 180	38.70
19B1488	CDD-21-30003	24 V. DC	2	.1 to 10	38.35

JM MERCURY WETTED CONTACT RELAYS



Long life, high speed with unvarying dependability through billions of operations. Operating time for SPDT 3 milliseconds, release time 3.2 milliseconds making possible 100 operations per second. Contact rating 5 amps at 500 V. Temp. range -39° C. to 107° C.

JM1 and JM2 have octal base. Size: JM1— 1.1×2.63 ". JM2— $1\frac{1}{2} \times 3\frac{1}{2}$ ". Average wt. 10 oz. JM1 SPDT; JM2—DPDT.

New JMF Series. Module type with 5 pin printed board mounting. Contacts SPDT, break before make 2 amp rating. Size 10.62 long, .625 wide, .625 high. Wt. 1.25 oz.

Stock No.	Mfg. No.	Coil Ohms	Coil MA	Net Each	Stock No.	Mfg. No.	Coil Ohms	Coil MA	Net Each
19B401	JM1-109-12	130	38.8	\$14.75	19B1464	JMF1020-61	65	38.1	\$9.40
19B439	JM1-112-11	500	20.1	14.75	19B1465	JMF1070-61	450	12.9	9.40
19B440	JM1-114-11	700	20	14.75	19B1466	JMF1090-61	675	11.6	9.40
19B470	JM1-118-11	2500	10	15.00	19B1467	JMF1120-61	1425	8.4	9.40
19B472	JM1-119-11	4K	8.1	8.55	19B1471	JMF1150-61	2400	7.8	9.40
19B451	JM2-110-22	500	34.8	23.95	19B1472	JMF1160-61	4000	4.0	9.90

MH TELEPHONE TYPE



Extremely fast acting miniature relay. Overall size $1\frac{3}{8}$ " H. x $\frac{3}{4}$ " W. x $1\frac{1}{2}$ " L. Wt. 2 oz. 5 amp. silver contacts. Except MH11L, 3 amp.

Stk. No.	Type	Contacts	Coil V.	Each
19A1305	MH11L	DPDT	10K*	\$6.25
19A1306	MH17D	4PDT	6DC	6.25
19A1307	MH17D	4PDT	12DC	6.25
19A1308	MH17D	4PDT	24DC	6.25

*Ohms

PLATE CIRCUIT TYPE LB-5 LOW COST SPDT



Designed for top performance at unusually low cost 5 amp silver contacts, two hole mtg. centers $2\frac{1}{2}$ ". Wt. 2 oz.

Stk. No.	Coil Res.	Coil Ma.	Each
19A1413	2,500	9.0	\$2.70
19A1414	5,000	6.3	2.90
19A1444	10,000	4.5	3.15

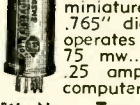
RS5 SENSITIVE RELAY



Low price, light weight for model controls, light dimmers, radiosonde, etc. 2 amp palladium contacts. Size $1 \times \frac{1}{2} \times \frac{1}{2}$ " H. Wt. $1\frac{1}{2}$ oz.

Stk. No.	Coil Ohms	Pull In	Each
19A1491	335	6 V.	\$2.75
19A1442	1.35 K	12 V.	2.90
19A1494	5 K	3.5 MA	3.30
19A1495	10 K	2.5 MA	3.80

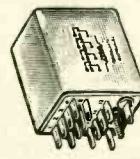
SENSITIVE TYPE



SM Series. Lightweight (1 oz.) hermetically sealed. Plugs in miniature 7 pin socket. Size .765" dia., $1\frac{1}{2}$ " high. SM5DS operates on 500 mw. SM5LS 75 mw.. All are SPDT with 25 amp contacts. Used in computers, model control etc.

Stk. No.	Type	V. or MA	Ohms	Each
19B1418	SM5DS	24V	900	\$6.90
19B1420	SM5LS	3.9MA	5K	7.20
19B1421	SM5LS	2.7MA	10K	7.70

NEW KHP & KHS



Small size — rugged 4PDT nylon enclosed relay. For exacting high speed data processing, computer and process control service. 3 amp silver contacts. Solder terminals with 3-48 stud. May be used with sockets listed below. $1\frac{1}{2}$ " H, $\frac{3}{4}$ " W, $1\frac{1}{2}$ " D. Wt. 2 1/4 oz. KHP have nylon cover. KHS are hermetically sealed.

Stk. No.	Mfg. No.	Volts	Net Ea.
19A1515	KHP17D11	6DC	\$5.05
19A1516	KHP17D11	12DC	5.05
19A1517	KHP17D11	24DC	5.05
19A1518	KHP17D11	48DC	5.25
19A1519	KHP17D11	90DC	5.90
19A1520	KHP17D11	110DC	5.90
19A1541	KHS17A11	6AC	9.55
19A1542	KHS17A11	12AC	9.55
19A1543	KHS17A11	24AC	9.55
19A1544	KHS17A11	115AC	9.90
19A1521	9KH1.	Term. Socket.	60c
19A1522	9KH2.	Ptd. Cr. Socket	60c

LM ADJUSTABLE TYPE



Features high-quality at medium cost. Sensitive relays with adjustable spring tension, adjustable release screw, and $\frac{3}{8}$ " dia. silver contacts rated at 5 amps. on 115 V. A.C.

No.	Coil Res.	Coil Ma.	Each
19A1412	5,000	4.5	4.35
19A161	10,000	3.2	4.65

BU INDUSTRIAL BUZZER



For signalling. AC operated. Stk. No. Volts AC

Potter & Brumfield Relays

POTTER & BRUMFIELD POWER TYPES

FOR HEATING-VENTILATING-AIR CONDITIONING-MOTOR STARTING
UL and CSA Listed—All Screw Terminals



PR HEAVY DUTY POWER RELAYS

A highly dependable, fast acting, sturdily constructed relay for continuous heavy duty use in industrial control applications. Molded phenolic base, bobbin and contact carrier. 25 amp silver contacts. 2 1/2" wide x 2 1/2" long x 2 3/8" high (PR11 are 4 3/8" long). AC types are 60 cycles, single throw types are normally open. Wt. 1 lb.

Stk. No.	Type	Contacts	Coil V.	Each	Stk. No.	Type	Contacts	Coil V.	Each
19A366	PR3AY	SPST	24AC	\$4.35	19A368	PR7AY	DPST	24AC	\$5.15
19A1402	PR3AY	SPST	115AC	4.35	19A1404	PR7AY	DPST	115AC	5.15
19A1335	PR3AY	SPST	230AC	4.75	19A369	PR7AY	DPST	230AC	5.60
19A1415	PR3DY	SPST	6DC	4.35	19A1373	PR7DY	DPST	12DC	5.15
19A1336	PR3DY	SPST	12DC	4.35	19A1321	PR7DY	DPST	24DC	5.15
19A370	PR5AY	SPDT	24AC	4.55	19A1369	PR11AY	DPDT	6AC	6.75
19A1403	PR5AY	SPDT	115AC	4.55	19A372	PR11AY	DPDT	24AC	6.75
19A371	PR5AY	SPDT	230AC	5.00	19A160	PR11AY	DPDT	115AC	6.75
19A1337	PR5DY	SPDT	12DC	4.55	19A373	PR11AY	DPDT	230AC	7.30
19A1322	PR5DY	SPDT	24DC	4.55	19A1338	PR11DY	DPDT	12DC	6.75
19A1368	PR7AY	DPST	6AC	5.15	19A377	PR11DY	DPDT	110DC	7.40

PR11A5 TYPE

Same power type PR described above. DPDT with additional set of SPDT contacts 1/2" silver rated 5 amps. Permits use of remote control circuits such as push button, time delay, etc.

Stk. No.	Type	Coil V.	Each
19A1342	PR11A5	115AC	8.55
19A1343	PR11A5	230AC	9.00

PM 4PDT POWER TYPE

For use in polyphase and heavy duty switching. 1/4" contacts rated 16 amps. 115 V.—8 amp 220 V. resistance AC, 1 H.P. per movable arm at 115 or 220 single phase. Meets UL requirements. 2 1/2" W, 3 3/8" D, 2 3/8" H. Heavy 8-32 screw terminals. Wt. 14 oz. For AC volts.

Stk. No.	Mfg. No.	Coil Volts	Net Each
19A1510	PM17AY	6	\$12.95
19A1512	PM17AY	24	12.95
19A1513	PM17AY	115	12.95
19A1514	PM17AY	230	13.40

METAL DUST COVER FOR PR Relays.
19A438. PB #35D013. Each. \$3.30
Cover for MS, MR and SP Relays.
19A1441. PB #35D130. Each. \$2.10

P&B SPECIAL PURPOSE RELAYS

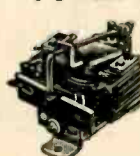
NEW GM SERIES IMPULSE SEQUENCING



Cam operated from single coil. Provides one to six openings per cam revolution. DPDT (11A or 11D) contact arrangements rated 3 amp, 115 V. AC. Use in vending, light or motor selection, etc. Size 1.81" W. x 1.43" D. x 1.84" H. Wt. 4 3/4 oz.

Stk. No.	Mfg. No.	Volts	Each
19A1534	GM11A	24 AC	\$7.60
19A1535	GM11A	115 AC	7.60
19A1538	GM11D	24 DC	7.30

PC IMPULSE TYPE



Armature driven rocker type actuator with single coil provides impulse switching for circuit reversing or on-off use. Requires only 60 MS pulse. Contacts rated at 7.5 amps. Size 2 1/8 x 2 1/8 mounting. Wt. 5 oz.

Stk. No.	Type	Coils	Coil V.	Each
19A1344	PC11A	DPDT	115AC	\$5.90
19A1345	PC17A	4PDT	24AC	8.15
19A1346	PC17A	4PDT	115AC	8.15

RELAY CONTACT CLEANER AND BURNISHER

Convenient pocket clip with plastic cap. Aluminum chuck holds blade securely. Hard tempered blade cleans any type contact, leaves no grit or dust.

No. 16B504. Janard P-4. With 12 Blades. Net Each.	\$3.90
No. 16B505. Package of 25 Replacement Blades. Package.	\$3.75

MS MOTOR STARTING

For capacitor start, induction run motors. Operates on back EMF of running winding. Meets all underwriters requirements. Size 2 1/8 x 2 1/2 x 2 1/8" high. Pure silver contacts.

For 3/4 H.P. Motors

Stk. No.	Type	Rating V. AC	Each
19A1455	MS2AY	SPST-NC 115	\$3.80
19A1456	MS2AY	SPST-NC 230	4.25

For Motors Up to 3 HP (DB Contacts)

Stk. No.	Type	Rating V. AC	Each
19A1457	MS4AY	SPST-NC 115	4.45
19A1458	MS4AY	SPST-NC 230	4.85

MB3D Power Contactor

Miniature high current type. Rated 60 amp at 28 V. DC up to 130 amp surge. Large silver contacts on brass arm. SPST double break normally open. Dimensions 1 5/8" L, 3/8" W, 1 3/8" H. For dynamometer control.

Stk. No.	Volts	Ohms	Each
19A389	12DC	62.3	\$5.80
19A390	24DC	245	5.80

Cover for PM Relays.
19C91. PB #35D227. Each. \$3.30

LATCHING TYPE KB



Consists of one coil to set latch and another coil to release it. Both operate on same voltage with only a momentary pulse. For memory devices, overload protection and automatic control. All are 5 amp contacts except last, two with 10 amp. No. ending in G which are 10 amp. Size 2 1/8 x 1 3/8 x 2 3/8". Wt. 6 oz.

Stk. No.	Type	Conts.	Coil V.	Each
19A1468	KB17AY	4PDT	6AC	11.05
19A188	KB17AY	4PDT	12AC	11.05
19A1469	KB17AY	4PDT	24AC	11.05
19A1470	KB17AY	4PDT	115AC	11.05
19A1360	KB17D	4PDT	12DC	9.90
19A1361	KB17D	4PDT	24DC	9.90
19A1443	KB17AG	4PDT	115AC	11.15
19A1399	KB17DG	4PDT	24DC	10.15

AP RATCHET OPERATED

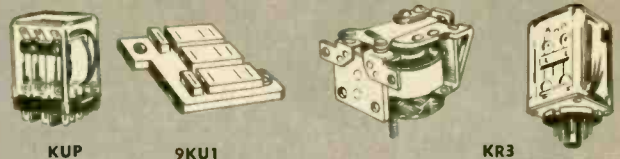
For applications requiring on-off or reversing action on alternate operations.



Positive action on electrical impulses as short as 60 milliseconds. Each successive impulse reverses contact position. 1/8" fine silver contacts. Rating 5 A. Size 3 3/4 x 2 1/4 x 2 1/8" H.

Stk. No.	Type	Contacts	Coil V.	Each
19A1435	AP11A	DPDT	24AC	\$9.20
19A1436	AP11A	DPDT	115AC	9.20
19A1529	AP11A	DPDT	230AC	9.70
19A1438	AP17A	4PDT	115AC	11.15

VERSATILE NEW GENERAL-PURPOSE RELAYS



New KUP 10 Amp Series. Covers a wide range of voltages and contact arrangements. Highly reliable, well designed, easy to install or replace. Price is substantially less than octal type plug-in relays. Enclosed in a clear plastic cover. Silver-cadmium-oxide contacts assure long trouble-free service. Size 2.22" high x 1.406" x 1.531". Wt. 3 Oz. Socket for KUP relays listed below.

KUP5A15-SPDT 10-Amp.				KUPD15-DPDT 10-Amp.			
Stk. No.	Coil V.	Coil Ohms	Each	Stk. No.	Coil V.	Coil Ohms	Each
19A1583	6 V. AC	5.1	\$3.70	19A1597	6 V. DC	32.1	\$4.05
19A1584	12 V. AC	21	3.70	19A1598	12 V. DC	120	4.05
19A1585	24 V. AC	75	3.70	19A1599	24 V. DC	472	4.05
19A1586	115 V. AC	2250	3.70	19A1600	110 V. DC	10K	4.65
19A1587	230 V. AC	9110	4.10	KUPI4A15 3PDT 10-Amp			
KUP5D15-SPDT 10-Amp				19A1563	6 V. AC	4.2	5.06
19A1588	6 V. AC	32.1	3.55	19A1564	12 V. AC	18	5.06
19A1589	12 V. DC	120	3.55	19A1565	24 V. AC	72	5.05
19A1590	24 V. DC	472	3.55	19A1566	115 V. AC	1700	5.06
19A1591	110 V. DC	10K	4.15	19A1567	230 V. AC	7200	5.45
KUPI1A15-DPDT 10-Amp				KUPI4D15-3PDT 10-Amp			
19A1592	6 V. AC	5.1	4.50	19A1568	6 V. DC	32.1	4.85
19A1593	12 V. AC	21	4.50	19A1569	12 V. DC	120	4.85
19A1594	24 V. AC	75	4.50	19A1570	24 V. DC	472	4.85
19A1595	115 V. AC	2250	4.50	19A1571	110 V. DC	10K	5.06
19A1596	230 V. AC	9110	4.90				

9KU1 SOCKETS FOR KUP RELAYS. Rated 10 amperes, molded nylon, pierced solder terminals. 1.307 x 1.50 inches. No. 19A1610. Net Each. \$1.75

KR3-H 20-AMP. MIDGET

A reliable heavy duty relay for use where space is limited and the contact current requirement is high. Available in both open mounting and plug-in types. All have twin 1/4" silver cadmium contacts SPST-N.O.-DB, rated 20 amp at 115 V. AC 60 cycle.

KR3-H open mounting type have combination 1/4" quick connect or solder terminals. Overall size 1.6 x 1.67 x 1.52 inches. Mounting 6-32 stud. Wt. 2 Oz.

Stk. No.	Mfg. No.	Coil V.	Each
19B1437	KR3AH	6 V. AC	\$4.10
19B1492	KR3AH	12 V. AC	4.10
19B1496	KR3AH	24 V. AC	4.10
19B1497	KR3AH	115 V. AC	4.10
19B1498	KR3DH	6 V. DC	3.90
19B1499	KR3DH	12 V. DC	3.90
19B1500	KR3DH	24 V. DC	3.90
19A1523	KR3DH	110 V. DC	4.50

KRP3-H as described above, enclosed in clear plastic housing. Overall size 2 1/8 x 1 1/2 x 1 3/8". Wt. 3 Oz.

Stk. No.	Mfg. No.	Coil V.	Each
19A1524	KRP3AH	6 V. AC	\$6.85
19A1525	KRP3AH	12 V. AC	6.85
19A1526	KRP3AH	24 V. AC	6.85
19A1527	KRP3AH	115 V. AC	6.85
19B1528	KRP3DH	6 V. DC	6.45
19B1530	KRP3DH	12 V. DC	6.45
19B1531	KRP3DH	24 V. DC	6.45
19A1540	KRP3DH	110 V. DC	7.10

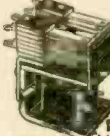
GB5 SENSITIVE SERIES



High sensitivity at low cost. 5 amp contacts. Single pole 125 milliwatts. Single pole 275 milliwatts. Single 8-32 tapped mounting. 2 1/8 x 1 3/8 x 1 1/8". Wt. 5 Oz.

Stk. No.	Mfg. No.	Coil MA	Each
19A1601	2500	6.8	\$3.60
19A1602	5000	4.8	3.80
19A1603	10,000	3.4	4.30

GA GENERAL PURPOSE



Low cost, multiple contact 5 amp all-purpose relay for many control circuit applications. Mounting single 8-32 tapped core. 1 3/8 x 1 3/8 x 1 1/8". Wt. 3/2 Oz.

Stk. No.	Mfg. No.	Coil V.	Each
19A1572	GA11A	6	\$3.50
19A1573	GA11A	12	3.50
19A1574	GA11A	24	3.50
19A1575	GA11A	115	3.50

GB5D-SPDT

Stk. No.	Coil Res.	Coil MA	Each
19A1604	2500	7.	5.10
19A1605	5000	5.	5.20
19A1606	10,000	3.53	5.80

GB17D-DPDT

19A1607	2500	10.5	8.10
19A1608	5000	7.4	8.25
19A1609	10,000	5.25	8.70

GB17D-4PDT

19A1607	2500	10.5	8.10
19A1608	5000	7.4	8.25
19A1609	10,000	5.25	8.70

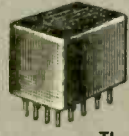
DPDT AC COIL

Stk. No.	Mfg. No.	Coil V.	Each
19A1576	GA14A	24	4.25
19A1577	GA14A	115	4.25

4PDT AC COIL

19A1578	GA17A	12	5.10
19A1579	GA17A	24	5.10
19A1580	GA17A	115	5.10
19A1581	GA17A	230	5.10

SERIES SC, SL, HC AND TL RELAYS



Permanent magnet, micro-miniature, shock and vibration resistant relays. Plug-in type mounting shown. All other mounting and terminal configurations as well as 6 or 12 volts are available at the same prices shown below. All are 24 volt. Size .795" wide x .89" high. Weight 3/4 Oz.

No. 19B1329. Type SC11D. DPDT contacts. Sgl. coil operated unit. Eo.	\$18.10
No. 19B1331. Type SL11D. DPDT contacts. Latching type with dual coil. 3 amp rating. Net Each.	\$19.85
No. 19B1348. Type HC11D. DPDT contacts. Non-polarized, non-latching. 2 amp. Similar to SC and SL but only half the size. Net Each.	\$17.50
No. 19B1356. Type TL17D. Dual coil micro-miniature 4PDT latching. 3 amp rating. Available in all configurations. Net Each.	\$28.75

Guardian Relays & Solenoids

GUARDIAN POWER RELAYS

With Interchangeable Coil Assemblies



① 2200 DPDT. Size 3 3/8" L. x 2 1/2" W. x 2 7/8" H. Wt. 11 1/2 ozs.
 ② 2210 DPST (normally open). Size 2 1/8" L. x 2 1/2" W. x 2 7/8" H. Wt. 10 oz. 25 amperes, continuous duty at 230 volts AC with 75% power factor. For heavy duty applications, motor starting, heater loads, etc. Operating power requirement for AC is 9.5 volt amperes, 60 cycles. Molded bakelite base, interchangeable coil. Screw terminals. Mounting: 2 holes for 8-32 screws.

GUARDIAN DISCOUNT SCHEDULE

Quantity users may DEDUCT from net prices of all Guardian products as follows:

- 25-49 of a kind 10%
- 50-99 of a kind 15%
- 100-249 of a kind 20%
- 250 and up 30%

B-A is your authorized stocking distributor for ALL Guardian products.

Stock No.	Volts AC	Mfg. No.	Net Each	Stock No.	Volts AC	Mfg. No.	Net Each
19A463	24	2200-DPDT-24	6.75	19A272	24	2210-DPST-NO-24	5.75
19A464	115	2200-DPDT-115	6.75	19A273	115	2210-DPST-NO-115	5.75
19A465	230	2200-DPDT-230	7.25	19A303	230	2210-DPST-NO-230	6.10

REPLACEMENT COILS FOR BOTH 2200 AND 2210 RELAYS

Stk. No.	Coil Volts AC	Net Each	Stk. No.	Coil Volts AC	Net Each
19A466	6 Volt	\$2.35	19A468	115 volt	\$2.35
19A467	24 Volt	2.35	19A469	230 Volt	2.65

REPLACEMENT CONTACT SWITCH PARTS FOR 2200

19A316. CS-2200-Left... Ea. \$1.95 19A318. CS-2200-Right. Ea. \$1.95

2400 POWER RELAYS

New design featuring inverted coil construction which protects armature and contacts insuring long life and reliable operation. DPDT contacts UL rated 15 amp at 115 V. AC. Non-inductive or 1 HP at 115/230 volts. Screw terminals. Size 3 1/2" x 2 1/2" x 2 1/2". Wt. 8 oz.

No. 19B358. 2400-115. 115 V. AC. EACH \$6.25

ALL PURPOSE ECONOMY RELAY AC-DC

Compact, lightweight relay capable of unusually heavy power control for its size. Long life, high quality relay, available in a variety of AC and DC voltages with a selection of contact combinations. 10 amp. contacts, 115 V., non-inductive load. 8 amp. for 4 pole types. Size, 1 1/8" x 1 1/2" x 1". Shpg. wt. 4 oz.

IR640 60 CYCLE AC					IR645 DC COILS				
Stock No.	Coil Volts	Mfg. No.	Cont. Comb.	Net Each	Stock No.	Coil Volts	Mfg. No.	Cont. Comb.	Net Each
19A417	6	IR640-A-6	SPST	\$2.90	19A430	6	IR645-A-6	SPST	\$2.90
19A418	6	IR640U-C-6	SPDT	3.15	19A431	6	IR645-C-6	SPDT	3.15
19A419	6	IR640U-2C-6	DPDT	3.40	19A432	6	IR645-2C-6	DPDT	3.40
19A420	6	IR640U-4C-6	4PDT	5.00	19A433	6	IR645-4C-6	4PDT	5.00
19A421	24	IR640U-A-24	SPST	2.90	19B265	12	IR645-A-12	SPST	2.90
19A422	24	IR640U-C-24	SPDT	3.15	19B266	12	IR645-C-12	SPDT	3.15
19A423	24	IR640U-2C-24	DPDT	3.40	19B267	12	IR645-2C-12	DPDT	3.40
19A424	24	IR640U-4C-24	4PDT	5.00	19B268	12	IR645-4C-12	4PDT	5.00
19A425	115	IR640U-A-115	SPST	2.90	19A434	24	IR645-A-24	SPST	2.90
19A426	115	IR640U-C-115	SPDT	3.15	19A435	24	IR645-C-24	SPDT	3.15
19A427	115	IR640U-2C-115	DPDT	3.40	19A436	24	IR645-2C-24	DPDT	3.40
19A428	115	IR640U-4C-115	4PDT	5.00	19A412	24	IR645-4C-24	4PDT	5.00
19A429	230	IR640U-2C-230	DPDT	4.20	19A413	110	IR645-A-110	SPST	3.40
					19A414	110	IR645-C-110	SPDT	3.70
					19A415	110	IR645-2C-110	DPDT	3.95
					19A416	110	IR645-4C-110	4PDT	5.25

All Guardian relays are continuous duty unless otherwise stated.

MEDIUM POWER AC OR DC

1200 & 1205. Highly efficient, small size, dependable relay. 8 amp contacts. Solder term. molded in phenolic barrier type back to meet UL specs. 1 5/8" x 1 1/4". Single hole mtg. Wt. 2.5 oz.

TYPE 1200 AC COIL

Stock No.	Coil Volts	Mfg. No.	Cont. Comb.	Net Each
19A452	6	1200-2C-6A	DPDT	3.75
19A454	24	1200-2C-24A	DPDT	3.75
19A456	115	1200-2C-115A	DPDT	3.75
19A457	115	1200-3C-115A	3PDT	4.25
19A458	230	1200-2C-230A	DPDT	4.00
19A459	230	1200-3C-230A	3PDT	4.50

TYPE 1205 DC COILS

Stock No.	Coil Volts	Mfg. No.	Cont. Comb.	Net Each
19A458	6	1205-2C-6D	DPDT	\$3.40
19A459	6	1205-3C-6D	3PDT	3.85
19A460	12	1205-2C-12D	DPDT	3.40
19A461	12	1205-3C-12D	3PDT	3.85
19A462	24	1205-2C-24D	DPDT	3.40
19A463	24	1205-3C-24D	3PDT	3.85
19A146	110	1205-2C-110D	DPDT	3.75
19A147	110	1205-3C-110D	3PDT	4.25

32 POLE TYPE 805

Group selector. Makes 32 common circuits, all insulated from ground. Rated 3A. 2 1/8" L. x 1 1/4" H. x 2 1/8" W. Wt. 6 oz. 24 V. DC. No. 19A444. Type IR-805-S. Each \$5.00

ENCLOSED PLUG-IN

① Type 1210 and 1215. Plug-in relay with clear lucite enclosure. Protects against dust, moisture, etc., for long trouble free service. Small size 2 3/8" x 1 3/8" x 1 3/8". Wt. 3.5 ozs. DPDT has octal base, 3PDT has 11 pin base. Contacts 8 amp. for all plug-in types.

① TYPE 1210 AC COIL

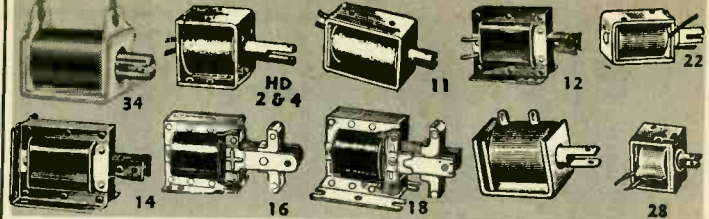
Stock No.	Coil Volts	Mfg. No.	Cont. Comb.	Net Each
19A527	6	1210-2C-6A	DPDT	\$6.00
19A528	6	1210-3C-6A	3PDT	7.50
19A529	24	1210-2C-24A	DPDT	6.00
19A530	115	1210-2C-115A	DPDT	6.00
19A531	115	1210-3C-115A	3PDT	7.50
19A148	230	1210-2C-230A	DPDT	6.25

① PLATE CIRCUIT TYPE

Stk. No.	Mfg. No.	Contacts	Each
19A525	1215-2C-2.5K ohms	DPDT	\$6.20
19A526	1215-2C-5K ohms	DPDT	6.30
19A541	1215-2C-10K ohms	DPDT	6.80
19A490	1215-3C-10K ohms	3PDT	7.75

② WITH BUILT-IN NEON LAMP
 Used for indicating circuit faults. For 115 V. AC operation. No. 19A491. 1210N-2C-115A. DPDT. Each \$6.75

GUARDIAN SOLENOIDS



"I" Intermittent types can be energized up to 5 minutes. "C" continuous duty types for unlimited time, if operated within power rating. Plunger has slotted end with 1/8" hole for coupling. See new 2HD and 4HD Heavy duty units.

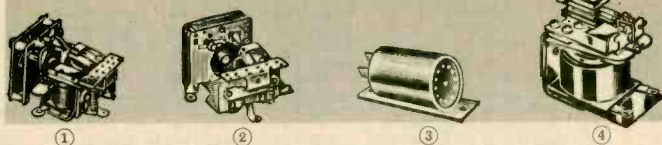
Stock No.	Mfg. No.	Duty	Volts	AC or DC	Ohms	Amps.	Adj. Stroke	*Max. Lift	Body Size L. W. H.	Wt. Oz.	Each Net
19B278	2HD	I	115	AC	39	.6	1/8-3/4	60 oz.	1 1/4" 1 1/4" 1 1/4"	13	8.66
19B279	2HD	I	24	DC	20	1.2	1/8-3/4	120 oz.	1 1/4" 1 1/4" 1 1/4"	13	8.93
19B280	4HD	I	24	DC	14	1.7	1/8-3/4	156 oz.	2 1/4" 1 1/4" 1 1/4"	15	6.41
19B281	4HD	I	110	DC	330	.33	1/8-3/4	156 oz.	2 1/4" 1 1/4" 1 1/4"	15	6.41
19B142	11	I	6	DC	2	3.00	1/8-7/8	39 oz.	1 1/4" 1 1/4" 1 1/4"	7.5	3.15
19B143	11	C	6	DC	5	1.2	1/8-5/8	21 oz.	1 1/4" 1 1/4" 1 1/4"	7.5	3.15
19B144	11	I	24	AC	5.1	1.10	1/8-5/8	20 oz.	1 1/4" 1 1/4" 1 1/4"	7.5	3.15
19B153	11	C	24	AC	12	.33	1/8-1	8 oz.	1 1/4" 1 1/4" 1 1/4"	7.5	3.15
19B155	11	C	24	DC	72	.333	1/8-5/8	21 oz.	1 1/4" 1 1/4" 1 1/4"	7.5	3.15
19B156	11	I	115	AC	125	.225	1/8-1	20 oz.	1 1/4" 1 1/4" 1 1/4"	7.5	3.15
19B155	11	C	115	AC	300	.072	1/8-1	8 oz.	1 1/4" 1 1/4" 1 1/4"	7.5	3.15
19B169	12	C	115	AC	150	.155	1/8-3/4	22 oz.	1 1/4" 1 1/4" 1 1/4"	6	4.46
19B103	14	I	115	AC	11	1.4	1/8-1 1/2	110 oz.	2 1/4" 1 1/4" 2 1/4"	19	6.04
19B170	14	C	115	AC	18	.52	1/8-1 1/2	65 oz.	2 1/4" 1 1/4" 2 1/4"	19	6.04
19B74	16	C	115	AC	85	.19	1/8-3/4	55 oz.	1 1/4" 1 1/4" 1 1/4"	7.5	3.68
19B186	18	I	115	AC	8.8	1.45	1/8-1	304 oz.	2 1/4" 1 1/4" 2 1/4"	16.5	4.99
19B90	18	C	115	AC	19.7	.39	1/8-1	145 oz.	2 1/4" 1 1/4" 2 1/4"	16.5	4.99
19B285	18	I	230	AC	45	.59	1/8-1	304 oz.	2 1/4" 1 1/4" 2 1/4"	16.5	5.25
19B286	18	C	230	AC	78	.20	1/8-1	145 oz.	2 1/4" 1 1/4" 2 1/4"	16.5	5.25
19A325	22	I	6	DC	4.7	1.27	1/8-3/4	24 oz.	1 1/4" 1 1/4" 1 1/4"	2.5	2.94
19A328	22	C	6	DC	9	.66	1/8-3/4	13 oz.	1 1/4" 1 1/4" 1 1/4"	2.5	2.94
19A337	22	I	24	DC	60	.47	1/8-3/4	24 oz.	1 1/4" 1 1/4" 1 1/4"	2.5	2.94
19A374	24	I	115	AC	310	.130	1/8-5/8	19 oz.	1 1/4" 1 1/4" 1 1/4"	3.0	3.41
19A375	24	C	115	AC	500	.07	1/8-5/8	12 oz.	1 1/4" 1 1/4" 1 1/4"	3.0	3.41
19A23	28	I	24	AC	7.5	.9	1/8-1 1/2	35 oz.	1 1/4" 1 1/4" 1 1/4"	3.5	3.15
19A24	28	C	24	AC	17.4	.34	1/8-1 1/2	20 oz.	1 1/4" 1 1/4" 1 1/4"	3.5	3.15
19A25	28	I	115	AC	220	.16	1/8-1 1/2	35 oz.	1 1/4" 1 1/4" 1 1/4"	3.5	3.41
19A27	28	C	115	AC	400	.077	1/8-1 1/2	20 oz.	1 1/4" 1 1/4" 1 1/4"	3.5	3.41
19A43	28	I	6	DC	3.3	1.8	1/8-1 1/2	41 oz.	1 1/4" 1 1/4" 1 1/4"	3.5	2.94
19A44	28	C	6	DC	7.7	.78	1/8-1 1/2	35 oz.	1 1/4" 1 1/4" 1 1/4"	3.5	2.94
19A47	28	I	12	DC	13	9.2	1/8-1 1/2	41 oz.	1 1/4" 1 1/4" 1 1/4"	3.5	2.94
19A58	28	C	12	DC	27	.45	1/8-1 1/2	35 oz.	1 1/4" 1 1/4" 1 1/4"	3.5	2.94
19A65	28	I	24	DC	50	.48	1/8-1 1/2	41 oz.	1 1/4" 1 1/4" 1 1/4"	3.5	2.94
19A68	28	C	24	DC	104	.23	1/8-1 1/2	35 oz.	1 1/4" 1 1/4" 1 1/4"	3.5	2.94
19C282	34	I	115	AC	400	.11	1/8-1 1/2	16 oz.	1 1/4" 1 1/4" 1 1/4"	2.5	2.31
19C254	34	I	6	DC	4.3	1.4	1/8-1 1/2	21 oz.	1 1/4" 1 1/4" 1 1/4"	2.5	2.31
19C396	34	I	24	DC	66	.36	1/8-1 1/2	21 oz.	1 1/4" 1 1/4" 1 1/4"	2.5	2.31

GUARDIAN UNIVERSAL "200" SERIES COIL AND CONTACT ASSEMBLIES

Two basic parts—a Coil Assembly with core piece and a Contact Assembly with switch blades, armature, spring and frame—comprise this versatile relay. Very easy to set up or change about. Order choice of Coil Assembly and choice of Contact Assembly from tables below. All coil assemblies are interchangeable and fit either Standard or Midget size Contact Assemblies. Shpg. wt. 4 oz.

60 CYCLE AC COILS					DC COILS				
Stock No.	Fact. No.	Coil Volts	Coil Rating Ohms	Price Each	Stock No.	Fact. No.	Coil Rating Ohms	Price Each	
19A31	200-6A	6	1.7	\$1.85	19A35	200-6D	6	12	\$2.00
19A32	200-12A	12	6.8	1.85	19A36	200-12D	12	50	2.00
19A33	200-24A	24	24	1.85	19A37	200-24D	24	200	2.00
19A34	200-115A	115	725	2.15	19A39	200-110D	110	3400	2.65
19B60									

GUARDIAN STEPPERS



For accurate sequence selecting, pulse multiplying, pulse dividing, circuit selecting, counting and latching.

① **IR-MER 24 POINT ELECTRICAL RESET STEPPER.** Positive reset on pulses as short as 10 MS. Capable of counting up to 21 then resetting automatically. Two or more may be interconnected to increase count as desired. Size $2\frac{1}{8} \times 2\frac{1}{8} \times 3\frac{1}{4}$ ". Wt. 11½ ozs. Contacts 1 amp.

No. 19A547. IR-MER-115 V. AC. 20 steps per sec. Each **\$15.75**

② **IR-MC 24 POINT MIDGET.** Continuous rotation stepper with 24 points. For accurate sequence circuit selecting. Constructed with oilite bearings. Ridged frame adds stability. Size $2\frac{1}{8} \times 3\frac{1}{8} \times \frac{1}{4}$ ". Wt. 9½ ozs.

No. 19A471. IR-MC-115 V. AC. 20 steps per sec. Each **\$14.75**

③ **ROTOMITE STEPPER—DC.** 12 positions—continuous rotation. Entirely new stepper design, completely metal enclosed. Will operate up to 20 steps per second. 3 amp contacts resistive load. Used in business machines, computer circuits, automation. Size 2" L. x 1½" dia. Wt. 5 oz. Continuous duty.

No. 19A486 6 Volts DC. Mfg. No. IR-705-12P-6D. Net Each **\$6.60**

No. 19A487 12 Volts DC. Mfg. No. IR-705-12P-12D. Net Each **\$6.60**

No. 19A488 24 Volts DC. Mfg. No. IR-705-12P-24D. Net Each **\$6.60**

④ **LATCHING ON/OFF RELAY—60 CYCLES AC.** Type IR-610L. Midget latching relay for use on 115 V. AC. Provides positive on-off control for positioning devices; remote controls, lighting circuits, etc. 5 amp contacts, snap action switching. Short duration pulse reverses switch and holds last position with coil de-energized. Size $2\frac{1}{8} \times 1\frac{1}{8} \times 1\frac{1}{8}$ ". Wt. 4 oz.

Stk. No.	Volts	Mfg. No.	Contacts	Net Each
19A376	115 AC	IR-610L-A115	SPST	\$4.45
19A398	115 AC	IR-610L-C115	SPDT	4.75

IMPULSE RATCHET RELAYS



Type 660. Contact ratings 12½ amp. resistive load 110 volts. Each impulse reverses contacts. Intermittent duty coil. Relay size $3\frac{1}{4} \times 2\frac{1}{8} \times 1\frac{1}{8}$ ". Wt. 7½ oz.

No. 19A523. Type 660-C-115AC. SPDT. Each **\$6.85**

No. 19A524. Type 660-2C-115AC. DPDT. Each **\$7.60**

SIGMA SENSITIVE RELAYS

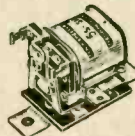


5F TYPE SPDT DC

Sensitive, general purpose DC relay with balanced armature construction. Offers precise operation with high

sensitivity SPDT 1 amp silver contacts. Open type design—mounting two 6-32 tapped holes. Size $1\frac{1}{8} \times 1\frac{1}{8} \times \frac{1}{4}$ ". Wt. 4¼ oz.

Stock No.	Sigma Type & Coil Resistance	Oper. M.A.	Net Each
19B592	5F-1000 -S-SIL 2.3	\$9.25	
19B594	5F-5000 -S-SIL 1.0	9.90	
19B596	5F-10000-S-SIL 0.7	10.85	



TYPE 41FZ AC RELAY

Highly sensitive, completely quiet, shodded-pole, long life relay. All *type operate on 0.2 volt-ampere, contacts carry 2 amps. All others require 0.4 V.A., have 10 amp contacts. Size $1\frac{1}{4} \times 2\frac{1}{4} \times 1\frac{1}{8}$ ". Wt. 2½ oz.

Stock No.	Sigma-Type 41FZ	AC Volts	Net Each
19A508	10ACG-BSL	6	\$3.90
19A509	35ACS-SIL	6*	4.50
19A512	5000ACG-BSL	120	4.10
19A513	10000ACS-SIL	120*	5.00

41F DC TYPE. 40 MW sensitivity. Same as 41FZ described above.

Stock No.	Sigma Type & Coil Resistance	Net Each
19B598	41F-500-S-SIL	\$4.30
19B588	41F-1000-S-SIL	4.30
19B590	41F-5000-S-SIL	4.50
19B591	41F-10000-S-SIL	4.75

SMALL SENSITIVE TYPE

11F. Low cost DC Relay. Very popular sensitive type. Size $1\frac{1}{2} \times 1\frac{1}{8} \times 1\frac{1}{8}$ " high. Weight 1 oz. 50 milliwatt sensitivity. SPDT silver contacts rated at 1 amp.

Stock No.	Mfg. No.	Coil Oper. Ohms	Net Each
19A504	11F-1000G-SIL	1000 7.0	\$1.95
19A580	11F-1500G-SIL	1500 5.8	1.95
19A505	11F-2300G-SIL	2300 4.6	1.95
19A506	11F-6000G-SIL	6000 2.9	2.15
19A507	11F-9000G-SIL	9000 2.4	2.35

Stock No.	Mfg. No.	Coil Oper. Ohms	Net Each
19B500	11FZ-25-ACS-SIL	6V. 3.05	
19B501	11FZ-9000-ACS-SIL	115V. 3.60	

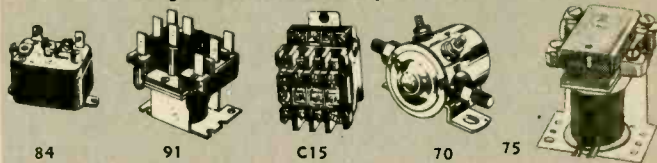
NEW GENERAL PURPOSE 65 DC SERIES

Reliable, low cost, small size open frame units only $\frac{1}{2} \times 1\frac{1}{8} \times 1\frac{1}{8}$ ". Wt. 1 oz. 90 milliwatts, 1 amp switching. For vending machines, automatic toys, games, etc. Positive response to low-power signal. SPDT.

No.	Mfg. No.	Coil V.	Coil Res.	Each
19B502	65F1	6 DC	410	\$1.50
19B520	65F1	12 DC	1640	1.50
19B599	65F1	24 DC	6560	1.50

RBM CONTROLS POWER RELAYS, CONTACTORS

For Refrigeration—Air Conditioning—Heating—Appliances



*First value inductive, second resistive load rating of contacts.
Type 84. Totally enclosed, screw terminals. Size $2\frac{3}{8} \times 1\frac{1}{8} \times 1\frac{1}{2}$ ".
Stk. No. Mfg. No. Coil Volts Contacts Amps*
19B179 84-902 24-AC SPNO 8-16 **\$2.90 \$ 2.61**
19B180 84-903 115 AC SPNO 8-16 **3.05 2.75**

Type 91. Quick-connect terminals, solenoid action. Size $2\frac{1}{2} \times 1\frac{1}{8} \times 2\frac{3}{8}$ ".
19B181 91-901 24 AC DPDT 12-15 **\$ 5.14 4.63**
19B182 91-902 115 AC DPDT 12-15 **5.37 4.84**

Type C15. Industrial contactor—pressure connector No. 10 wire. Size $3\frac{3}{8} \times 2\frac{3}{4} \times 3\frac{3}{8}$ ".
19B173 C15-902 110 AC 4PNO 1 to 2 HP **19.80 17.82**
19B174 C15-903 220 AC 4PNO 110 to 600 **19.80 17.82**

Type 70. Direct current power contactor. Copper contacts. $2\frac{1}{2} \times 3\frac{1}{2} \times 2\frac{1}{2}$ ".
Stk. No. Mfg. No. Coil Volts Contacts Amps
19B176 70-901 6 DC SPDB-NO 80 **3.74 3.37**
19B177 70-902 12 DC SPDB-NO 80 **3.74 3.37**
19B178 70-903 24 DC SPDB-NO 80 **3.74 3.37**
19C98 70-910 12 DC SPDT 80 **9.54 8.59**

Type 75. AC power contactor. Screw terminals, size $2\frac{1}{2} \times 2\frac{1}{8} \times 2\frac{1}{4}$ ".
19B211 75-902 115/120 2P-NO 2HP **4.59 4.13**
19B212 75-903 230/240 2P-NO 18 **4.59 4.13**

NEW RBM GENERAL PURPOSE RELAYS NO. 93

REAL COST-SAVING DESIGN. SINGLE HOLE MGT. OR PLUG-IN.

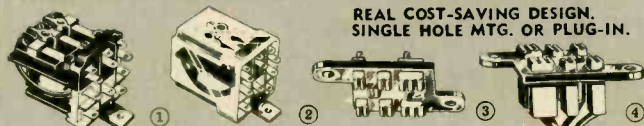
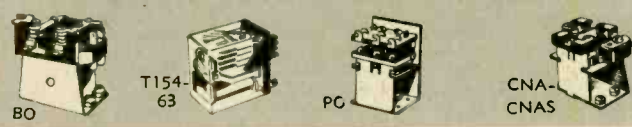


Fig. ① Type 93 Open Type, solder terminals, out front wiring, single hole mounting. A new idea in cost saving assembly. Overall size $1\frac{1}{8} \times 1\frac{1}{8} \times 1\frac{1}{8}$ ". Wt. approx. 2 oz. 10 amp button contacts.
Fig. ② Type 93 Enclosed Type with quick connect terminals. May be plugged into panel mount socket Fig. ③ (Socket for printed circuit wiring Fig. ④). Relay size $2\frac{1}{8} \times 1\frac{1}{8} \times 1\frac{1}{8}$ ". Wt. approx. 2½ oz. 10 amp rating.

① Open Type Solder Terminals				② Enclosed Quick Connect Terminals			
Stk. No.	Mfg. No.	Coil V. Cont.	Each	Stk. No.	Mfg. No.	Coil V. Cont.	Each
19A52	93-901	6 AC 1PDT	\$3.25	19A73	930-902	6 AC 2PDT	\$4.50
19B53	93-902	6 AC 2PDT	3.95	19B75	930-904	24 AC 1PDT	3.75
19B54	93-904	24 AC 1PDT	3.25	19B76	930-905	24 AC 2PDT	4.50
19A55	93-905	24 AC 2PDT	3.95	19B77	930-906	24 AC 3PDT	5.00
19A56	93-906	24 AC 3PDT	4.40	19B78	930-907	120 AC 1PDT	3.75
19A57	93-907	120 AC 1PDT	3.25	19B79	930-908	120 AC 2PDT	4.50
19A59	93-908	120 AC 2PDT	3.95	19A80	930-909	120 AC 3PDT	5.00
19A62	93-909	120 AC 3PDT	4.40	19A81	930-917	12 DC 2PDT	4.05
19A63	93-914	6 DC 2PDT	3.50	19A82	930-920	24 DC 2PDT	4.05
19A64	93-917	12 DC 2PDT	3.50	19B83	930-923	110 DC 2PDT	4.65
19B66	93-919	24 DC 1PDT	3.10	③ 19A85. 93-153-1. Panel Socket			
19A67	93-920	24 DC 2PDT	3.50	④ 19A86. 93-153-2. Printed Ckt. Socket			
19A69	93-921	24 DC 3PDT	4.00	Choice Ea. 1-24. 60c 25-49 Ea. 54c			
19A71	93-923	110 DC 2PDT	4.10	50-99 Each. 48c			

ALLIED CONTROL COMPANY RELAYS



B0 Series Power Types. Sturdy heavy duty power relay for the most demanding requirements. DPDT contacts. $1\frac{3}{8} \times 1\frac{1}{8} \times 1\frac{1}{2}$ ". 15 amp. Wt. 5½ oz.

Stk. No.	Mfg. No.	Coil V.	1-9	10-49	Stk. No.	Mfg. No.	Coil V.	1-9	10-49
43A204	B0-6A	6 AC	\$5.50	\$4.95	43A209	B0-6D	6.3 DC	\$5.05	\$4.55
43A205	B0-6A	24 AC	5.50	4.95	43A210	B0-6D	13.2 DC	5.05	4.55
43A206	B0-6A	115 AC	5.50	4.95	43A211	B0-6D	26.5 DC	5.05	4.55
43A207	B0-6A	230 AC	5.62	5.05	43A213	B0-6D	115 DC	5.60	5.04

T154 and T163 Series DC Relays. Miniature enclosed plug-in type. 2 amp contacts $1\frac{1}{8} \times 1\frac{1}{8} \times \frac{1}{2}$ " wide.

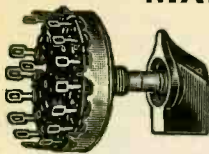
DPDT (Use 30055-1 Socket)					4PDT (Use 30055-2 Socket)				
Stk. No.	Mfg. No.	Coil V.	1-9	10-49	Stk. No.	Mfg. No.	Coil V.	1-9	10-49
43A257	T154-2C	6 DC	\$3.42	\$3.08	43A266	T154-4C	6 DC	\$3.82	\$3.44
43A258	T154-2C	12 DC	3.42	3.08	43A267	T154-4C	12 DC	3.82	3.44
43A259	T154-2C	24 DC	3.42	3.08	43A268	T154-4C	24 DC	3.82	3.44
43A260	T154-2C	48 DC	3.42	3.08	43A269	T154-4C	48 DC	3.82	3.44
43A263	T154-2C	115 DC	4.89	4.40	43A312	T163-4C	24 DC	4.33	3.90
43A311	T163-2C	24 DC	3.80	3.42	43A272	T154-4C	115 DC	5.29	4.76
43A277	30055-1	Socket for 2C.	1-9 Ea.	55c	43A278	30055-2	Socket for 4C	1-9 Ea.	60c
			10-49 Ea.	50c				10-49 Ea.	55c

PO Series. Heavy duty power type with 15 amp contacts. Open mounting, solder terminals. $1\frac{1}{8} \times 2\frac{1}{4} \times 1\frac{1}{2}$ ".

115 AC VOLTS				115 AC VOLTS			
No.	Mfg. No.	Contacts	1-9 10-49	No.	Mfg. No.	Contacts	1-9 10-49
43A245	PO-9A	3PDT	\$6.40 \$5.76	43A218	CNA-13A-115	SPST	8.00 7.20
43A247	PO-12A	4PDT	7.16 6.44	43A219	CNAS-13A-115	SPST	10.00 9.00

Mallory And Centralab Switches

MALLORY SWITCHES SINGLE-GANG 3100J & 3200J SERIES



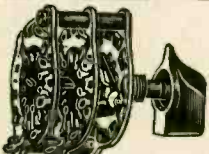
Compact switches having wide application for use in all electronic equipment. Rating 500 V. breakdown; max. current .125 amp 300 V. DC 3 amp @ 6 V. DC. Have 2" notched shafts, silver contacts, 3/8" dia. x 3/8" long brass threaded bushing with Bar knob and Mtg. hardware. Shpg. wt. 4 oz. See Plates Below.

Specify B-A Stock No. 12A366 and Type No. When Ordering.

Shorting Type	Non-Shorting Type	Poles	Positions	Base Dia.	Each 1-4	Each 5-9	Each 10-24	Each 25-49
3115J	3215J	1	5	1 1/4"	\$1.01	\$0.84	\$0.76	\$0.72
3112J	3212J	1	12	1 1/4"	1.01	.84	.76	.72
3122J	3222J	2	2	1 1/4"	1.01	.84	.76	.72
3123J	3223J	2	3	1 1/4"	1.01	.84	.76	.72
3126J	3226J	2	6	1 1/4"	1.01	.84	.76	.72
3134J	3234J	3	4	1 1/4"	1.04	.87	.78	.74
3142J	3242J	4	2	1 1/4"	1.04	.87	.78	.74
3143J	3243J	4	3	1 1/4"	1.04	.87	.78	.74
31117J	32117J	1	17*	1 1/4"	1.55	1.29	1.16	1.10
3129J	3229J	2	9*	1 1/4"	1.55	1.29	1.16	1.10
3136J	3236J	3	6*	1 1/4"	1.66	1.38	1.24	1.18
3163J	3263J	6	3*	1 1/4"	1.66	1.38	1.24	1.18

*Have adjustable stops to prevent turning to unused contacts.

MULTI-GANG 1300L SERIES



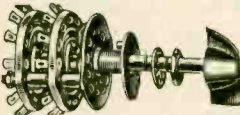
1 1/4" Mounting Radius. 1 fixed, 1 adjustable stop, silver pl. contacts, solid silver rotor contact slugs and alloy springs. 2" notched shafts. 1/2" spacing between sections except 3 gang which have 1" spacing. Rating 1000 V. break down; max current .6 amp @ 300 V. DC; 8 amp @ 6 V. DC. Bar knob, mtg. hardware included. Uses 1 1/4" Base-Plates. All switches are non-shorting. Shpg. wt. 4 oz.

Specify B-A Stock No. 12A367 and Type Number When Ordering.

Type	Gang	Pole	Pos.	1-4	5-9	10-24	25-49	Type	Gang	Pole	Pos.	1-4	5-9	10-24	25-49
1311L*	1	1	11	2.09	1.74	1.57	1.49	1322L	2	8	2	2.59	2.16	1.94	1.84
1312L	1	4	2	2.09	1.74	1.57	1.49	1323L	2	6	3	2.59	2.16	1.94	1.84
1313L	1	3	3	2.09	1.74	1.57	1.49	1325L	2	4	5	2.59	2.16	1.94	1.84
1315L	1	2	5	2.09	1.74	1.57	1.49	1331L*	3	3	11	3.24	2.70	2.43	2.31
1321L*	2	2	11	2.59	2.16	1.94	1.84	1335L	3	6	5	3.24	2.70	2.43	2.31

*No third or "off" position with all circuits open. Others have "off" posi.

CERAMIC SECTION 170C & 160C SERIES



Rotary, non-shorting, adjustable stops, 30° indexing, 2 gang, 1/2" spacing; 3 gang 1". *Indicates extra position (Off). Max. breaking current, resistive load, 5A. @ 300 V. AC-DC. Non-breaking 10 A. Hamband non-shorting continuous rotation, 90° index. 2 gang 1 1/8" spacing, all others 1". Rated 100 watts @ 1000 V. DC.

Specify B-A Stock No. 12A368 and Type When Ordering. Shpg. wt. 8 oz.

HAMBAND CERAMIC SECTION SWITCHES															
Type	Gg.	Pole	Pos.	1-4	5-9	10-24	25-49	Type	Gg.	Pole	Pos.	1-4	5-9	10-24	25-49
172C	1	1	11	\$2.38	\$1.98	\$1.78	\$1.69	161C	1	1	4	\$2.16	\$1.80	\$1.62	\$1.54
*173C	1	2	5	2.38	1.98	1.78	1.69	162C	2	2	4	3.06	2.55	2.30	2.19
*174C	1	3	3	2.38	1.98	1.78	1.69	163C	3	3	4	3.98	3.30	2.97	2.82
*176C	2	2	11	3.38	2.82	2.54	2.41	164C	4	4	4	4.86	4.05	3.65	3.47
*177C	2	4	5	3.38	2.82	2.54	2.41	165C	5	5	4	5.76	4.80	4.32	4.10
*178C	2	6	3	3.38	2.82	2.54	2.41								
*180C	3	3	11	4.32	3.60	3.24	3.08								
*181C	3	6	5	4.32	3.60	3.24	3.08								

No. 12A766. Hamswitch Plate. Type 488 Dial Plate. For 160 C. Series Above. Ea. 12c

MALLORY SWITCH DIAL PLATES

Aluminum figures etched on black background. 1 1/8" OD with 1/8" hole. All are for 1 1/4" base switches with 30° spacing, except those marked * which are for 1 1/16" base switches with 20° spacing. Shpg. wt. 2 oz.

Specify B-A No. 12C541 and Type When Ordering

Type	Marked	Type	Marked	Type	Marked	Type	Marked	Type	Marked
372	1 to 2	377	1 to 7	382	1 to 12	387	Off 1 to 7	456*	1 to 6
373	1 to 3	378	1 to 8	383	Off 1 to 3	388	Off 1 to 8	459*	1 to 9
374	1 to 4	379	1 to 9	384	Off 1 to 4	389	Off 1 to 9	467*	1 to 17
375	1 to 5	380	1 to 10	385	Off 1 to 5	390	Off 1 to 10		
376	1 to 6	381	1 to 11	386	Off 1 to 6	453*	1 to 3	Choice	Each 12c

MINIATURE PUSH-BUTTON



Use in test panels, meter circuits and labs or any application requiring a momentary contact switch of this type. Mounts in a single hole 1/4" dia. on panels to 1/4" thick. Mtg. radius is 1/8". Mtg. depth 1/8" min. (1011) and 3/4" max. (1016). 500 V. DC. Complete with mtg. hardware. Shpg. wt. 3 oz.

Specify B-A Stock No. 12C538 and Type When Ordering

Type	Action	1-4	5-9	10-24	25-49	Type	Action	1-4	5-9	10-24	25-49
1011	SPST, N.O.	\$.68	\$.57	\$.51	\$.48	1014	DPST, N.O.	\$.86	\$.72	\$.65	\$.62
1012	SPST, N.C.	.68	.57	.51	.48	1015	DPST, N.C.	.86	.72	.65	.62
1013	SPDT	.79	.66	.59	.56	1016	DPDT	1.04	.87	.78	.74

SPECIAL CENTRALAB SWITCHES

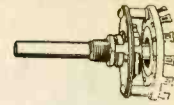


Type 1450. Use as SPST, SPDT, DPST, DPDT, 3PST, 3PDT, 4PST, 4PDT. 2 1/4" shaft. With knob. Shpg. wt. 4 Oz. **\$1.65**

Type 1451. 4-Pole, 2-Position. Especially for press-to-talk intercom. 2 1/4" shaft. With knob. Shpg. wt. 4 oz. **\$1.98**

No. 12A480. Net Each.

CENTRALAB SWITCHES MINIATURE STEATITE PA2000 SERIES



Small and compact—only 7/8" mtg. radius required! Silver plated spring brass clips and contacts; adjustable stop; 30° indexing. 1/2" spacing between sections; 1 1/8" shaft. Includes 1 1/4" bar knob and mounting hardware.

All are non-starting (break before make), except those marked with an asterisk signifying "shorting". Rating—excellent RF characteristics, low inter-capacity. Rated 2.75 amp at 15 VDC; 230 milliamps at 115 VAC. Average Shpg. wt. 6 oz.

Specify B-A Stock No. 12C481 and Type When Ordering

Type	Gg.	Pole	Pos.	1-4	5-9	10-24	25-49	Type	Gg.	Pole	Pos.	1-4	5-9	10-24	25-49
*2000	1	1	12	\$2.61	\$2.18	\$1.96	\$1.86	2019	1	6	2	\$2.61	\$2.18	\$1.96	\$1.86
2001	1	1	12	2.61	2.18	1.96	1.86	2021	2	6	5	3.72	3.10	2.79	2.65
*2002	1	2	6	2.61	2.18	1.96	1.86	*2022	3	6	6	4.74	3.95	3.56	3.38
2003	1	2	6	2.61	2.18	1.96	1.86	2023	3	6	6	4.74	3.95	3.56	3.38
*2004	2	2	12	3.72	3.10	2.79	2.65	2025	6	6	12	7.92	6.60	5.94	5.64
2005	2	2	12	3.72	3.10	2.79	2.65	2027	4	8	6	7.92	6.60	5.94	5.64
*2006	1	3	5	2.61	2.18	1.96	1.86	2029	3	9	5	4.74	3.95	3.56	3.38
2007	1	3	5	2.61	2.18	1.96	1.86	2031	2	10	3	3.72	3.10	2.79	2.65
*2008	3	3	12	4.74	3.95	3.56	3.38	2033	5	2	6	6.81	5.68	5.11	4.85
2009	3	3	12	4.74	3.95	3.56	3.38	2035	2	12	2	3.72	3.10	2.79	2.65
*2010	2	4	6	3.72	3.10	2.79	2.65	2037	6	12	6	7.92	6.60	5.94	5.64
2011	2	4	6	3.72	3.10	2.79	2.65	2039	3	15	3	5.37	4.48	4.03	3.83
2013	4	4	12	5.70	4.75	4.28	4.07	2041	3	18	2	5.37	4.48	4.03	3.83
*2014	1	5	3	2.61	2.18	1.96	1.86	*2042	1	1	10	2.37	1.98	1.78	1.69
2015	1	5	3	2.61	2.18	1.96	1.86	2043	1	1	6	2.37	1.98	1.78	1.69
2017	5	5	12	6.81	5.68	5.11	4.85	2045	2	2	6	3.30	2.75	2.48	2.35

MINIATURE PHENOLIC PA1000 SERIES

Miniature phenolic-insulated switches that meet rigorous commercial or military applications. Clip and contact arrangement assure low inter-circuit capacitance and low contact resistance. Ideal for limited space applications. 30° indexing, adjustable stop. 1 1/2 x 1 1/8" dia. Shaft 2 1/4" long. 2.75 amps @ 15V. DC. 230 MA @ 115 V. AC. Withstand 25 hour salt spray test. With knob, nut, lockwasher. Avg. shpg. wt. 5 oz.

Specify B-A Stock No. 12A755 and Type When Ordering.

Odd Numbered Switches are Non-Shorting—Even Numbers are Shorting Type															
Type	Gg.	Pole	Pos.	1-4	5-9	10-24	25-49	Type	Gg.	Pole	Pos.	1-4	5-9	10-24	25-49
1000	1	1	11	\$1.98	\$1.65	\$1.49	\$1.42	1011	1	4	2	\$1.98	\$1.65	\$1.49	\$1.42
1001	1	1	11	1.98	1.65	1.49	1.42	1012	2	4	5	2.82	2.35	2.12	2.01
1002	1	2	5	1.98	1.65	1.49	1.42	1013	2	4	5	2.82	2.35	2.12	2.01
1003	1	2	5	1.98	1.65	1.49	1.42	1014	2	6	3	2.82	2.35	2.12	2.01
1004	2	2	11	2.82	2.35	2.12	2.01	1019	2	6	3	2.82	2.35	2.12	2.01
1005	2	2	11	2.82	2.35	2.12	2.01	1020	3	6	5	3.57	2.98	2.68	2.55
1006	1	3	3	1.98	1.65	1.49	1.42	1021	3	6	5	3.57	2.98	2.68	2.55
1007	1	3	3	1.98	1.65	1.49	1.42	1024	2	8	2	2.82	2.35	2.12	2.01
1008	3	3	11	3.57	2.98	2.68	2.55	1025	2	8	2	2.82	2.35	2.12	2.01
1009	3	3	11	3.57	2.98	2.68	2.55	1028	3	12	2	3.57	2.98	2.68	2.55
1010	1	4	2	1.98	1.65	1.49	1.42	1029	3	12	2	3.57	2.98	2.68	2.55

SMALL GENERAL PURPOSE PHENOLIC SWITCHES



High quality laminated phenolic. Voltage breakdown 1000 volts AC—R.M.S. Rating 1.75A @ 24 V. DC, 230 milliamps @ 115 V. AC. (Make and break, resistive load.) Mts. in single hole. Bushing 3/8"-32 thread, 3/8" long. With mtg. nut and lock washer. Avg. shpg. wt. 6 oz.

Specify B-A Stk. No. 12A568 and Type When Ordering.

Type 1460: 1 pole, 2 position, shorting. Positive index. SPST or SPDT for phono-radio, tone or sensitivity control.

Type 1461: 1 pole, 3 position, shorting. Positive index. Use as miniature band change, steptype tone or sensitivity control, and P.A. channel selector.

Type 1462: 2 pole, 2 position, shorting. Positive index. Use as SPST, SPDT, DPST, DPDT. For meter reversing, P.A. channel, or switching BOTH lines on phono-radio control.

Type 1463: 1 pole, 2 position, non-shorting, spring return index. For meter reversing or inexpensive momentary talk switch on intercom systems.

Type 1464: 2 pole, 2 position, non-shorting. Spring return index. Use as meter switch and momentary line or remote speaker return on intercoms.

Your Choice of Types 1460 thru 1464

1-4, Each. \$1.08 5-9, Each. .90c 10-24, Each. .81c 25-49, Each. .77c

LEVER ACTION PHENOLIC SWITCHES



Space saving lever switches have many uses: With multiple switching sequences, these units mounted singly or in groups on special plates (listed below), are particularly adaptable to intercoms, PA systems, test instruments, broadcast antenna interchange, speaker selection, etc. All metal parts steel cad. plated. Mts. two 6-32 thread mounting holes on 1 1/2" centers in switch front plate. Rating 2.75 amp @ 15 V. DC; 230 milliamps at 115 V. AC (make and break, resistive load). 30° indexing. Complete with screws and black knob. Avg. shpg. wt. 4 oz.

Specify B-A Stk. No. 12A720 and Type When Ordering.

Shorting	Non-Shorting	Poles	Posit.	Indexing	1-4	5-9	10-24	25-49
1452	1454	2	3	Positive	\$1.26	\$1.05	\$.95	\$.90
1453	1455	2	3	Spring Return	1.26	1.05	.95	.90
1466	1467	2	3	Posit. & Sp. Return	1.26	1.05	.95	.90

Switches

CARLING TOGGLE SWITCHES



① AC-DC TOGGLE SWITCHES

1/2" bat type toggle switch with 3/8" stem length. Dia. 3/8" x 32 thread. *Has wire leads, all others have lug type terminals.

Stock No.	Mfg. Type	Action	Amperes		1-9 Each	10-99 Each	100 Up Each
			125 V.	250 V.			
12A647	110-73	SPST	6	3	\$.53	\$.44	\$.35
12A648	112-73	SPDT	3	1	.61	.55	.44
12A649	216-73	DPST	3	1	.90	.75	.60
12A650	316-73	DPDT	3	1	.99	.83	.66
12B402	111-16-73*	SPST	6	3	.59	.49	.39

HEAVY DUTY AC TOGGLE SWITCHES

1/2" bat handle toggle switch. Metal covered bakelite base. Stem 3/8" long, dia. 3/8" x 32 thread. *6-32 binder head screw terminals, all others have solder lugs. **Center Off. †one side momentarily on; other side N.C. ‡Both sides momentarily on. Center off. All 3/4 H.P.—115-230V. A.C. Shpg. wt. 2 oz. UL approved.

Stock No.	Mfg. Type	Action	Amperes		1-9 Each	10-99 Each	100 Up Each
			125 V.	250 V.			
① 12A651	2FA53-73	SPST	15	10	.54	.45	.36
② 12A653	2FB53-73	SPDT	15	10	.80	.51	.40
③ 12A654	2FC53-73	SPDT**	15	10	.60	.51	.40
④ 12A655	2GK50-73	DPST	15	10	.82	.68	.54
⑤ 12A657	2GL50-73	DPDT	15	10	.96	.80	.64
⑥ 12A658	2GM50-73	DPDT**	15	10	.96	.80	.64
⑦ 12A659	6FB53-73	SPDT†	15	10	.75	.65	.57
⑧ 12A660	6FC54-73	SPDT‡	15	10	.87	.72	.58

④ HI-POWER AC-DC TOGGLE SWITCH

3/8" dia. stem, 3/8" long 32 threads, 3/8" long bat handle. Bakelite base.

Stock No.	Mfg. Type	Action	Amperes	1-9 Each	10-99 Each	100 Up Each	
12A794	600C	SPST	20	10	.80	.66	.54

⑤ HEAVY DUTY AC-DC TOGGLE SWITCHES

1/2" toggle length, 3/8" stem length—32 thread. Screw terminals. Wt. 3 oz.

Stock No.	Mfg. Type	Action	Amperes	1-9 Each	10-99 Each	100 Up Each	
12A661	DK284-73	DPST	16, 1HP	8	.99	.86	.76
12A662	EK204-73	DPST	20, 1 1/2HP	10	1.65	1.45	1.15

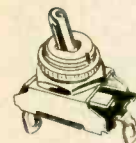
PUSH-PUSH AC-DC SWITCHES



Positive action push on, push again for off. For any application where a pushbutton is preferable. Stem 1/2" L. x 3/8" dia., body 7/8" L. x 3/8" W., depth behind panel 1/2". Complete with mtg. nuts. Screw terms. Shpg. wt. 3 oz.

Stock No.	Mfg. Type	Amperes	1-9 Each	10-99 Each	100 up Each
12A767	110-SP	6 3	\$1.05	\$0.88	\$0.70
12A756	160-SP	10 5	1.14	1.03	.93

CARLING SPST MIDGET SWITCH



Type 125RB. 3 amps at 125 volts AC. Solder terminals. Threaded stem diameter 3/8", stem length 1/2", Has bat handle length 3/8". With hex and knurled nuts. Wt. 2 oz.

No.	Price
1-9 Each	38c
10-99 Each	34c

KNIFE SWITCHES



Standard knife switches. Ideal for Radio, TV and electrical needs. Porcelain base. Rated 25 amps at 125 volts.

No.	Type	Size	Each	10 Ea.
12A550	SPST	1 x 1 1/2"	20c	18c
12A551	SPDT	1 x 2 1/2"	25c	19c
12A552	DPST	1 1/2 x 1 3/4"	31c	26c
12A553	DPDT	1 1/2 x 2 1/2"	45c	35c

STACKPOLE UL APPROVED SLIDE SWITCHES

WORLD'S LARGEST PRODUCER OF SLIDE SWITCHES



For any need where a small switch is wanted—mike current, tone control, low power supplies, etc. All contacts silver plated. Type "A", 1/2" wide x 1 3/8" long with 1/8" mtg. ctr.; Type B, 3/8" wide x 1.890" long, 1 1/8" mtg. ctr. Av. shpg. wt. 3 oz. All are positive action except where marked. All are UL approved.

*Spring-Return, No Detent †Push Button, Momentary, No Detent, N.O. #U.I.D. Not Stackpole

Stock No.	Mfg. No.	Type	Action	Amps. @ 125 V.		1-9 Each	10-99 Each	100-up Each
				AC	DC			
12A799	SS-26	A	SPST	4	1.0	.10	.09	.07
12A768	SS-26-1	A	SPDT	4	1.0	.11	.10	.075
12A404	SW-121	A	#DPST	1	0.5	.16	.14	.10
12A769	SS-50	A	DPDT	3	0.5	.18	.15	.13
12B837	SS-36-1	A	SPDT	6	1.0	.15	.13	.11
12B838	SS-33	B	DPDT	6	0.5	.26	.23	.19
12B839	SS-9	A	*SPST or SPDT	3	0.75	.20	.17	.15
12B840	SS-5	B	*DPDT	5	0.5	.29	.26	.23
12B841	SS-15	A	†SPST	1	...	.21	.18	.16
12B842	SS-12	B	‡PDT	3	0.5	.46	.41	.35

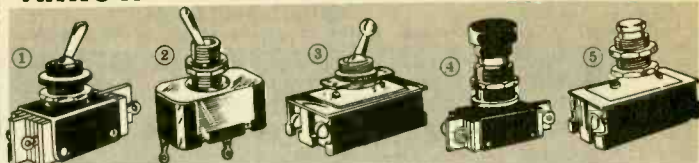
H&H SUB-MINIATURE SIZE SWITCHES



Only 1/4 x 1/2" diameter SPDT, or 1/2 x 1/2" DPDT. Body 1 1/4" high, .26" stem, 1/4" long. Stationary contacts gold plated coin silver. Terminals gold plated brass. 5 amp rating. Mounting hardware supplied.

Stk. No.	Mfg. No.	Action	1-9 Each	10-99 Each	100 Up Each
12B748	TC-3	SPDT—Center Off	\$3.00	\$2.40	\$2.25
12B751	TS-3	SPDT—None	3.00	2.40	2.25
12B752	TC-6	DPDT—None	3.90	3.12	2.93
12B781	PM-3	SPDT—Morn. Contact	2.86	2.29	2.15
12B782	PM-6	DPDT—Morn. Contact	3.51	2.81	2.63

ARROW—HART & HEGEMAN SWITCHES



① LIGHT DUTY TYPE AC-DC TOGGLE SWITCHES

Long life and dependability in radio and fractional horsepower applications. Laminated phenolic sections—slotted sleeve (3/8" dia. 32 thrs per inch) with hex and knurled nut—nickel finish. Solder lug connections. U.L. approved. *Bat Handle. †Ball handle. Shpg. wt. 2 oz.

Stock No.	H & H Type	Circuit	Sleeve Length	Amperes		1-9 Each	10-99 Each	100 Up Each
				125 V.	250 V.			
12A771	*2099ANV	SPST	3	3	\$0.56	\$0.46	\$0.39	
12A773	*2135OCF	SPDT	3	1	.71	.59	.49	
12A775	*20902AJ	DPST	3	1	1.03	.85	.70	
12A777	*20905AN	DPDT	3	1	1.18	.97	.80	
12A770	†20994BF	SPST	3	1	.56	.46	.39	
12A586	†21615BD	SPST	3	1	.71	.59	.49	
12A772	†21350-B	SPDT	3	1	.71	.59	.49	
12A774	†20902AM	DPST	3	1	1.03	.85	.70	
12A776	†20905Z	DPDT	3	1	1.18	.97	.80	

MOMENTARY ACTION—Normally Open—Bat Handle

Stock No.	Mfg. Type	Action	Amperes	1-9 Each	10-99 Each	100 Up Each
12B730	80054BE	SPST	3	.90	.76	.67
12B731	20907MA	DPST	3	1.37	1.13	.99

② STANDARD DUTY TYPE AC TOGGLE SWITCHES

Slow make and break. Designed to offer high capacity on a small phenolic base. Exceptionally long life expectancy. All have solder terminals. *Center off. †3/4 HP 120-240 V. AC; ‡ 1/6 HP 120-240 V. AC. Bat handle.

Stock No.	Mfg. Type	Action	Amperes		1-9 Each	10-99 Each	100 Up Each
			125 V.	250 V.			
12A1640	*82601	SPST	15	10	.56	.46	.39
12A1641	*82603	*SPDT	15	10	.65	.54	.44
12A1667	*82609	*DPDT	15	10	1.04	.85	.70
12A645	†83001	SPST	6	3	.49	.41	.36
12A646	†83004	*SPDT	6	3	.53	.44	.39
12A759	†83028	*DPDT	6	3	.80	.68	.54
43A165	81027FX	DPDT	6	3	2.66	2.18	1.78

③ STANDARD DUTY TYPE AC-DC TOGGLE SWITCHES—BALL HANDLE

Commonly used quick make, quick break with wiping blade action designed for small motor use. Screw terminals. *Rated 1 HP 125, 250 V. AC-DC.

Stock No.	Mfg. Type	Action	Amperes	1-9 Each	10-99 Each	100 Up Each
12B582	80607	SPST	12 6	1.08	.90	.73
12A786	80618	SPDT	12 6	1.08	.90	.73
12A779	*80600	DPST	16 8	1.08	.90	.73

④ EXTRA HEAVY DUTY AC-DC TOGGLE SWITCH—3 POSITION

On-Off-On. Positive off center. Lever can't be moved from one side through center without stopping. For heavy current circuits such as transmitters, amplifiers, etc. "Fast break" contacts. Screw terminals. 3/4 HP 250 V. AC-DC. With 2 hex nuts. UL approved. Ball handle. Shpg. wt. 2 oz.

Stock No.	Mfg. Type	Action	Amperes	1-9 Each	10-99 Each	100 Up Each
12A780	80638-D	DPDT	10 5	4.00	3.33	2.72

⑤ MOMENTARY PUSH SWITCHES AC—LIGHT DUTY

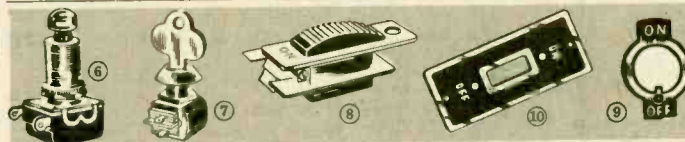
Slow make and break operated with light pressure—Laminated phenolic sections—slotted sleeve (3/8" dia. 32 threads per inch)—hex and knurled nut assembled. *Two circuit (reverses circuit when pushed). All have solder terminals. Shpg. wt. 2 oz.

Stock No.	H & H Type	Circuit	Sleeve Length	Button Color	Amperes		1-9 Each	10-99 Each
					125 V.	250 V.		
12B732	3391-GL	SPST-NO	3/8"	Red	1	...	.80	.66
12B733	3391-GL	SPST-NO	3/8"	Black	1	...	.80	.66
12B734	*3392	SP2	3/8"	Metal	1	...	.79	.65
12A723	*3392-A	SP2	3/8"	Red	1	...	.98	.81
12A724	*3392-A	SP2	3/8"	Black	1	...	.98	.81

⑥ MOMENTARY PUSH SWITCHES AC-DC—STANDARD DUTY

Normally open. Screw terminals. Rated 1 HP 125, 250 V. AC-DC. With 2 hex nuts. U.L. approved. Wt. 2 oz.

Stock No.	Mfg. Type	Action	Amperes	1-9 Each	10-99 Each
12A778	80630	DPST	12 6	1.81	1.34



⑦ MOMENTARY PUSH SWITCHES AC—LIGHT DUTY MIDGET SIZE

Slow make and break. Molded phenolic base (1/2" dia., 32 threads per inch). Hex and knurled nut assembled—standard button brass nickel finish. Solder lugs. N.O. is normally open. N.C. is normally closed. UL approved. Shpg. wt. 2 oz. *Has phenolic snap-on button. All are 1/10 HP 120 V. AC.

Stock No.	Mfg. Type	Action	Amperes	1-9 Each	10-99 Each	100 Up Each
12A897	80511E	SPST-NO	3	...	.42	.36
12A898	80511	SPST-NC	3	...	.42	.36
12A750	*80541ER	SPST-NO	3	...	.80	.66
12A749	*80541E	SPST-NO	3	...	.80	.66

⑧ ROTO-POWER AC-DC LOCK SWITCH

Lockswitch with key for use on power tools, appliances. Fits panels to 3/8". Laminated phenolic sections. Hex and dress nuts, key. Key removable in off position. Solder lugs. U.L. Wt. 2 oz.

Stock No.	Mfg. Type	Action	Amperes	1-9 Each	10-99 Each	100 Up Each
12A587	26561-L	SPST	6 3	1.26	1.10	...

No. 12B577. EXTRA KEY for 26561-L, Each... 16c
 ⑨ SPST "ON-OFF" SLIDE SWITCH. Type 81564. Molded phenolic base and lever. Rated 3 amps 250 V. AC-DC, 6 amps 125 V. Solder terminals. Takes 1 3/8 x 1 1/2" mtg. hole. Plate is 2 1/8 x 3/4" marked On-Off, U.L. listed. Wt. 2 oz. No. 12B741. 1-9 Each... 83c 10-99 Each... 70c 100 Up... 62c
 ⑩ ON-OFF PLATE. Fits slot in threaded sleeve of toggle switches. No. 12A785. Mounts Vertically. Each... 5c 10 For... 30c
 ⑪ SLIDE-SWITCH ON-OFF PLATE. Mounts vertically. For switches with 1/8" mtg. hole centers. Antique finish. Size 2 1/2 x 7/8". Wt. 1 oz. No. 17A1017. Each... 21c 10 @ Each... 18c

Switches, Motors, Solenoids

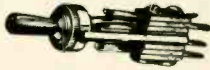


SWITCHCRAFT SPECIAL "MULTI-SWITCHES"

Because of the complexity of this series and their practically unlimited application B-A has Switchcraft factory trained personnel to help solve your switching problem and supply these switches. Write department S. W. at Burstein-Applebee Co.

SWITCHCRAFT LEV-R SWITCHES

Compact lever-action switches. Silver contacts rated at 3 amps, 120 volts, non-inductive load. Length 3 1/4"; width 5/8". Require 3/32" mtg. hole. *3 position type, others are 2 position.



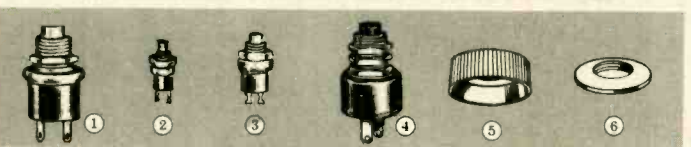
Spring Return Stock No.	Type	Locking Stock No.	Type	Action	1 to 49 Each	50-99 Each	100 Up Each
12B128	3001	12B130	3001L	SPST, NO	\$1.17	\$.97	\$.87
12B129	3002	12B131	3002L	SPST, NC	1.17	.97	.87
12A791	3003	12A792	3003L	DPDT, NO	1.92	1.13	1.01
12B132	3004	12B134	3004L	DPDT, NO	1.50	1.25	1.13
12B133	3005	12B136	3005L	DPDT, NC	1.50	1.25	1.13
12A429	3006	12A435	3006L	DPDT, NC	1.62	1.38	1.24
12A793	*3033	12A795	*3033L	SPDT, NO	1.47	1.25	1.13
12A796	*3036	12A797	*3036L	DP 2-Ckt.	1.71	1.45	1.31
12A431	*3037	12A437	*3037L	DPDT, NO	1.73	1.48	1.33

SWITCHCRAFT BUTTON SWITCHES

Momentary type. Ideal for use where space is limited. 200 Series mounts in 3/8" dia. hole. Sleeve 3/8" long, 3 amp, 115 volts DC. Series 900, provides behind panel mounting in 1/2" dia. hole. 250 mils, non-inductive load, AC. Type 951, Tiny Switch, similar to 200 Series, but mounts in 1/4" dia. hole. *Black Button. †Red Button.

Fig.	Stock No.	Type	Action	1-49 Ea.	50-99 Ea.	100 Up, Ea.
(A)	12A798	*201	SPST-NO	53c	44c	41c
(A)	12A787	*202	SPST-NC	53c	44c	41c
(A)	12A788	*203	SPDT	59c	49c	45c
(B)	12A789	†903	†SPDT	88c	75c	68c
(B)	12A790	*913	SPDT	88c	75c	68c
(B)	12A766	†951	SPST-NO	53c	45c	41c
(B)	12B126	†952	SPST NC	54c	45c	41c
(B)	12B127	†953	SPDT	60c	50c	45c

GRAYHILL PUSH SPST SWITCHES



① SILENT ACTION SPST SWITCH

Momentary. Normally open or normally closed. Rating 1/2 ampere, 115 V. AC. 3/32 threaded bushing, 1/4" O.D., 1 1/8" overall length including solder type terminals. Shpg. wt. 3 oz.
No. 12A687. #4001. N.O. Red. 1-49 Each... 90c 50-99 Each... 68c
No. 12A688. #4002. N.C. Black. 1-49 Each... 90c 50-99 Each... 68c

② SUB-MINIATURE SILENT ACTION SPST SWITCH

Momentary. Normally open or normally closed. Rated at 1 ampere, 115 V. AC. Button and housing molded phenolic. 1/4-32 threaded bushing, 3/8" O.D., 1 1/8" overall length including solder terminals.
No. 12A683. #30-1. N.O. Red. 1-49 Each... 95c 50-99 Each... 72c
No. 12A684. #30-2. N.C. Black. 1-49 Each... 95c 50-99 Each... 72c

③ MINIATURE PUSH SPST SILENT ACTION SWITCH

Momentary, normally open. Rated 1/2 amp., 115 V. AC. Button and housing molded phenolic. 3/8-32 threaded bushing, 1/2" O.D., 1 1/8" overall length including solder terminals. Shpg. wt. 2 oz.
No. 12A691. Type 23-1. Red. 1-49 Each... \$1.05 50-99 Each... 79c

④ SNAP ACTION SPST SWITCH

Momentary. Normally open. Rating: 10 amperes, 115 V. AC. 3/32 threaded bushing, 7/8" O.D., 1 1/8" overall length including solder type terminals. Shpg. wt. 3 oz.
No. 12A689. #2201. N.O. Red. 1-49 Each... \$2.05 50-99 Each... \$1.54

⑤ BUTTON GUARD

Use with series 2000, 4000, 35-1, and 30-16. Fits 3/32-32 thread.
No. 12A686. Type 10C-1015. Each... 25c

⑥ DECORATIVE MOUNTING NUT

Use with series 2000, 4000, 35-1, and 30-16. 3/32-32 thread.
No. 12B669. Type 7C1040. Each... 15c

HURST SYNCHRONOUS MOTORS

Small, rugged, for continuous duty applications; completely enclosed. Will not overheat even in stalled position. Gear train built to withstand more than motor's rated capacity, lifetime lubricated.

May be operated in any position. Requires 5 watts 95-130 V. AC 60 cycles. Stainless steel 1/8" shaft, 1" long, flattened. Three No. 6 mounting holes.

SMS Series 40 Inch Ounce. Unidirectional. Clockwise rotation. Size 2 1/2 x 1 3/4". Wt. 1 lb.

Stk. No. Speed Stk. No. Speed Each
43A178 1 43A181 10 \$12.28
43A179 4 43A182 30 12.28
43A180 6 43A183 60 12.28

PC-SM Positive Clutch Type for instantaneous start and stop. Basic SM motor. Wt. 1 1/4 lbs.

Stk. No. Speed Stk. No. Speed Each
43A283 1 43A286 10 \$17.86
43A284 4 43A287 30 17.86
43A285 6 43A288 60 17.86

DA Series 120 Inch Ounce. Instantly reversible with SPDT switch. Size 2 1/2 x 1 3/4". Wt. 1 1/2 lbs.

Stk. No. Speed Stk. No. Speed Each
43A289 1 43A292 10 \$14.60
43A290 4 43A293 30 14.60
43A291 6 43A294 60 14.60

CA Series 100 Inch Ounce. Reversible, quiet running, accurate both directions. Size 2 1/2 x 2 1/8". Wt. 1 1/4 lbs.

Stk. No. Speed Stk. No. Speed Each
43A295 1 43A298 10 \$12.51
43A296 4 43A299 30 12.51
43A297 6 43A300 60 12.51

Potter & Brumfield PRECISION SWITCHES



Potter & Brumfield precision snap-action switches are UL and CSA listed. Each type is directly interchangeable with competitive types shown. In addition switch mechanisms are an improved design providing longer life, precision action, more trouble-free service.

For more complete detailed specifications request catalog 400 B-A No. 25B107.

GENERAL PURPOSE TYPES

A1G1—SPDT. Ratings: 15 amps, 125, 250 or 480 volts AC; 1/2 amp 125 V. DC; 1/4 amp 250 V. DC; 1/8 HP 125 V. AC; 1/4 HP 250 V. AC.

Stock No.	G1 Type	Micro B-Z Equiv.	Oper. ForceOz.	1-9 Each
19A657	111-1	2R	9-13	\$1.57
19B658	112-1	2RS	9-13	1.95
19B659	113-1	2RD	9-13	1.95
19B660	114-1	2RQ1	9-13	3.55
19B661	115-1	2RL	5MX	1.73
19B662	116-1	2RL2	5MX	2.22
19A663	117-1	2RW80	2 1/2 MX	2.00
19A664	117-1-3	2RW863	1MX	2.11
19B666	117-1	2RW84	1MX	2.00
19B667	119-1	2RW822	6MX	2.54
19B668	117-1-2	2RW825	8MX	3.03
19B669	118-1	2RW82	3 1/2	2.54
19B670	111-8	2R-A2	9-13	1.71
19B671	112-8	2RS-A2	9-13	2.03
19B672	113-8	2RD-A2	9-13	2.03
19B673	114-8	2RQ1-A2	9-13	3.64
19A674	114-8-1	2RQ18-A2	9-13	6.34
19B675	115-8	2RL-A2	5MX	1.87
19B676	116-8	2RL2-A2	5MX	2.35
19B677	117-8	2RW80-A2	2 1/2 MX	2.09
19C614	119-8	2RW822-A2	6MX	2.62

M1 SERIES MINIATURE PRECISION SWITCHES

A1M1—SPDT. Ratings: Meets U/L requirements for 15 amps, 125, or 250 V. AC; 1/3 HP 125/250 V. AC; 1/2 amp, 125 V. DC; 1/4 amp 250 V. DC.

Stock No.	M1 Type	Micro V3 Equiv.	Oper. ForceOz.	1-9 Each
19A626	111-B	1	6-14	\$1.10
19A627	111-1	19	6-14	1.04
19A629	111-2	15	6-14	1.04
19A631	311-1	32	6-14	.96
19A634	311-B	23	6-14	1.00
19B639	131-B	601	6-14	1.50
19B678	117-6	L-1-D8	14-MAX	1.05
19B680	117-6-1	L-2-D8	8MAX	1.05
19B681	117-6-2	L-5-D8	8MAX	1.05
19B682	117-6-3	L-6-D8	8MAX	1.05
19B683	118-6	L-1-D8	4MAX	1.25
19A684	119-6	L-3-D8	14MAX	1.25

A1M2—Low operating force—SPDT. Rating: 30 volts DC; inductive 10 amps; 125 or 250 V. AC.

19B640 171-B 101 8MAX \$1.10
19B643 171-1 119 8MAX 1.04

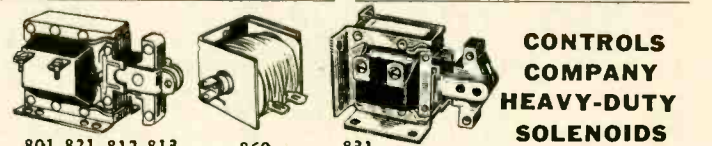
SUB-MINIATURE PRECISION SWITCHES

A1M4 (low differential) SPDT. Meets U/L requirements 10 amps, 250 V. AC.

Stock No.	Mfg. No.	Micro Equiv.	Oper. ForceOz.	1-9 Each
19D636	191-B	26	7-12	\$1.65

A1S1—SPDT. Meets U/L requirements for 5 amps, 125 or 250 V. AC.

Stock No.	G2 Type	Micro BA Equiv.	Oper. ForceOz.	Each
19A615	111-8	2R-A2	14-22	\$1.71
19A616	113-8	2RS-A2	14-22	2.03
19A617	114-1	2RQ1	14-22	3.87
19A618	114-8	2RQ1-A2	14-22	3.64
19A619	115-1	2RL	9MAX	2.00
19A620	115-8	2RL-A2	9MAX	1.87
19A622	116-8	2RL2-A2	9MAX	2.35
19A623	117-8	2RV-A2	2 1/2 MAX	2.14
19A624	118-1	2RV2	2 1/2 MAX	2.86
19A625	118-8	2RV2-A2	2 1/2 MAX	2.68



CONTROLS COMPANY HEAVY-DUTY SOLENOIDS

Types 801-821, 812, 813 and 831 heavy duty solenoids of superior quality for operating valves, clutches, switches, interlocks and mechanical controls. Features "double T" plunger design, moisture proof coil molded in Epoxy plastic, screw terminals.

Type 860. Compact unit where big power in a small size is required.

Stock No.	Mfg. No.	Duty	AC Volts	Max. Stroke	Max. PullLbs	L.	Overall W.	H.	1-9 Each	10-24 Each
43A101	801-101-2	Constant	115	3/8	7.7	1 1/2	1 1/4	1 1/2	\$ 5.54	\$ 4.44
43A102	801-102-2	Int.	115	3/8	8.0	1 1/2	1 1/4	1 1/2	5.54	4.44
43A104	812-101-2	Constant	115	1 1/4	14.5	2 1/2	1 1/2	2	7.22	5.82
43A105	812-102-2	Int.	115	1 1/4	17.0	2 1/2	1 1/2	2	7.05	5.68
43A107	813-101-2	Constant	115	1 1/4	14.5	2 1/2	2 1/2	2	8.14	6.48
43A108	813-102-2	Int.	115	1 1/4	18.0	2 1/2	2 1/2	2	7.58	6.09
43A109	813-103-2	Constant	230	1 1/4	22.0	2 1/2	2 1/2	2	8.34	6.64
43A110	821-101-2	Constant	115	1 1/2	18.0	2 1/2	2 1/2	2 1/2	10.35	8.27
43A111	821-102-2	Int.	115	1 1/2	20.0	2 1/2	2 1/2	2 1/2	9.62	7.70
43A112	821-103-2	Constant	230	1 1/2	32.0	2 1/2	2 1/2	2 1/2	10.55	8.43
43A113	860-101-2	Constant	115	3/8	29.0	1 1/2	1 1/4	1 1/2	3.00	2.70
43B120	831-101-2	Constant	115	1	7.0	2 1/2	2.0	2.23	7.70	6.93

PHILLIPS ADVANCE HIGH QUALITY ANTENNA RELAYS

Advance 52 Ohm Coax Relays. SPDT 1/4" pure silver contacts. Standard SO-239 coax connectors. Rated 5 A. with low SWR up to 300 MC. 1 1/8 x 3 1/8 x 3 7/8". For 115 V. 60 cy. AC. Wt. 1 lb.

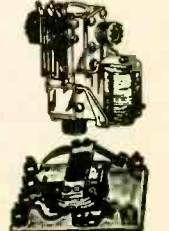
No. 17B346. Type CB1C115VA. Net Each... \$21.00

As above with extra DPDT external contacts.

No. 17B347. Type CB1C2C115VA. Net Each... \$24.55

Advance RF Relay. DPDT 10 A. silver wiping contacts, rated 1 KW. Highly efficient ceramic Steatite insulation. 2 1/8 x 3 3/8 x 1 1/4". For 115 V. 60 cy. AC. Wt. 13 oz.

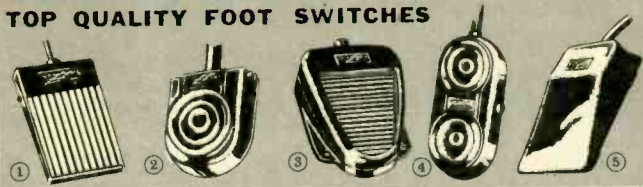
No. 17C837. Type AT/2C/115VA. Net Each... \$13.20



See Amateur Antenna Equipment Pages for Other Coaxial Relays

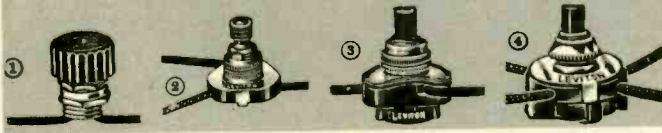
Switches, Sonalert

TOP QUALITY FOOT SWITCHES



- ① Model T51-S "Treadlite". Compact, rugged treadle switch. SPDT momentary contacts rated 7 amps at 125-250 V. AC. 1/6 H.P. 115 V. AC. Has rubber treading and skidproof rubber base pad. Durable black wrinkle finish casing. Size 3 1/2 x 2 3/8 x 1". Shpg. wt. 7 oz.
- No. 12B482. 1-9 Net Each. **\$2.47** 20-49 Each. **\$2.30**
10-19 Each. **\$2.47**
- ② Model T51-SC. As above, wired with 6 ft. cord and 2 prong series plug.
- No. 12B483. Wt. 1 lb. 1-9 Net Each. **\$4.00**
10-19 Each. **\$3.60** 20-49 Each. **\$3.35**
- ③ Model T-51-SC3. Same as above except with 3 conductor cable and plug for safety grounding.
- No. 12A542. 1-9 Net Each. **\$5.00**
10-19 Each. **\$4.50** 20-49 Each. **\$4.00**
- ④ Model 491-S "Compact". New, lightweight momentary contact switch with SPDT contacts rated 10 amps at 125 V. AC. 1/2 H.P. 115 V. AC. Has steel housing, black crackle finish, skid-proof rubber base. Size 2 7/8 x 2 1/2 x 1 1/8".
- No. 12B484. Wt. 1/2 lb. 1-9 Net Each. **\$3.25**
10-19 Each. **\$2.90** 20-49 Each. **\$2.72**
- ⑤ Model 491-SC. As above, wired with 6 ft. cord and 2 prong series plug.
- No. 12B485. Wt. 1/2 lb. 1-9 Net Each. **\$4.75**
10-19 Each. **\$4.24** 20-49 Each. **\$3.98**
- ⑥ Model 491-SC3. Same as above except with 3 conductor cable and plug for safety grounding.
- No. 12B546. 1-9 Net Each. **\$5.50**
10-19 Each. **\$4.95** 20-49 Each. **\$4.40**
- ⑦ Model 632-S "Clipper". New, momentary contact heavy duty switch. SPDT contacts take 20 amps at 125-250 V. AC. 1 H.P. 115-230 V. AC. Cast iron housing has anti-skid pad, black wrinkle finish, mtg. holes. Size 4 1/2 x 3 1/2 x 1 1/2". Shpg. wt. 2 1/2 lbs.
- No. 12B486. 1-9 Net Each. **\$8.25**
10-19 Each. **\$7.37** 20-49 Each. **\$6.92**
- ⑧ Model 632-D. As above, but maintains contact until again actuated.
- No. 12B487. Wt. 2 1/2 lbs. 1-9 Net Each. **\$11.00**
10-19 Each. **\$9.85** 20-49 Each. **\$9.21**
- ⑨ Model L-2-5 Lektra-Lock. Teeter-totter principle. Mechanical interlock prevents both sides being operated at same time. Pressure operated for on and off. Each side SPDT 15 A. 125-250 V. AC. Metal housing. 5x2 1/2x1 1/8". Complete with cord. Wt. 10 oz.
- No. 12B547. 1-9 Net Each. **\$5.80**
10-19 Each. **\$5.22** 20-49 Each. **\$4.64**
- ⑩ Model 121-S Junior Footswitch. An ideal unit for office machines and shop equipment. Also popular for knee operation. Momentary SPDT, 15 amp 125-250 V. AC. Aluminum housing 5 1/2x3 1/4x1 1/4". Wt. 1 lb.
- No. 12B572. 1-9 Net Each. **\$8.25**
10-19 Each. **\$7.42** 20-49 Each. **\$6.60**

LEVITON APPLIANCE SWITCHES



- ① SINGLE POLE ROTARY
For lamp and appliance repairs SPST switch. Rated 3-amp., 125-volt; 1-amp 250-volt. Has 3/8" shank, brown bakelite knob, 6" wire leads. Wt. 2 oz.
- No. 12A725. No. 574. Each. **28c** 10 Lots, Each. **24c**
- ② 3 POSITION ROTARY
For 3-light floor and desk lamps. Rated 3 amps at 125 volts. Bakelite case 1" dia. by 3/8" high. Shank 3/8" dia. by 3/8" long. Metal knob. 6" wire leads.
- No. 12B578. No. 582. Each. **57c** 10 Lots, Each. **43c**
- ③ SINGLE POLE PUSH-BUTTON
SPST. Rated 3 amp. at 125 volts. Bakelite case 1" long x 5/8" wide x 1 1/8" high. Shank, 3/8" dia. by 3/8" long. 6" wire leads. Plastic 3/8" dia. push button. Shpg. wt. 2 oz.
- No. 12B579. No. 575. Each. **33c** 10 Lots, Each. **25c**
- ④ FLUORESCENT LAMP STARTER SWITCH
For use with single 15 to 40 W. lamps. Eliminates starter from circuit. Measures 1 1/8" dia. by 3/4" high. Shank 3/8" dia. by 3/8". 6" wire leads. Bakelite push button. Shpg. wt. 2 oz.
- No. 12B580. No. 382. Each. **64c** 10 Lots, Each. **49c**

EAGLE FLUSH MOUNT



Momentary push button switch normally open. Ideal for signal bells, lights, buzzers, etc. Has heavy type deep pearl button with a nickel plated outer ring. Will not stick or jam. Has screw terminals. Snap mounts in 3/8" dia. hole. Perfect for mounting on metal boxes, chassis, etc. Depth of shank 1/2". Eagle #188. Shpg. wt. 2 oz.

No. 12A784. 1-9 Each. **35c** 10-99 Each. **30c** 100 Up Each. **28c**

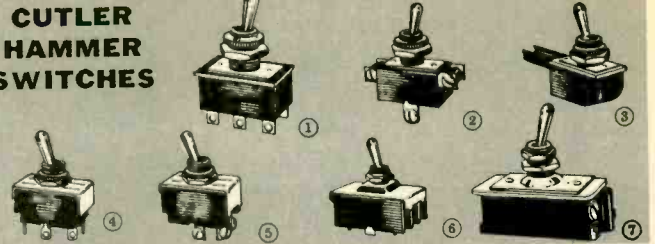
REAR SEAT SPEAKER SWITCH KIT



Complete assembly for switching between dual speakers such as auto rear seat and front seat speakers; TV, radio, PA remote speaker installations; etc. Permits operation of either speaker separately or both together. Kit comes complete with SP-3 Pos. Switch, bracket, dial, knob, hardware.

No. 12A414. Centralab PK-300. Each. **\$1.05**
No. 12B583. Switch Only, Centralab 1483. Net Each. **75c**
No. 14B874. Wired Fader Control Kit. For intermixing front and rear speakers. Shpg. wt. 3 oz. Net Each. **\$1.39**

CUTLER HAMMER SWITCHES



AC-DC TOGGLE SWITCHES, LIGHT DUTY (TO 6 AMPS)
Use for small motor driven tools, appliances, etc. Features quick-make, break contact. Long life and high arc resistance. Phenolic case. Stem 3/16" dia. threaded x 1/2" length. All have bat handle 3/4" long. U.L. Approved. Average shpg. wt. 3 oz.

① WITH SOLDER LUG TERMINALS

Stk. No.	C-H Type	Action	Amperes		1-24 Each	25-99 Each
			125 V.	250 V.		
12B556	8280K16	SPST	3	3	\$0.69	\$0.58
12B557	8381K8	SPST	6	3	.82	.66
12B558	8282K14	SPDT	3	1	.87	.73
12B559	8284K14	2 Circ.	3	1	.93	.75
12B560	8360K7	DPST	3	3	1.26	1.05
12B561	8370K7	DPST	6	3	1.38	1.13
12B562	8363K7	DPDT	3	3	1.44	1.21
12B563	8373K7	DPDT	6	3	1.56	1.30

② WITH SCREW TERMINALS

Stk. No.	C-H Type	Action	Amperes		1-24 Each	25-99 Each
			125 V.	250 V.		
12B564	8295K8	SPST	3	3	.84	.70
12B565	8396K8	SPST	6	3	.96	.79
12B566	8297K8	SPDT	3	1	1.11	.92
12B567	8372K7	DPST	6	3	1.85	1.38
12B569	8365K7	DPDT	3	3	1.80	1.59
12B570	8375K7	DPDT	6	3	2.01	1.67

③ WITH WIRE LEADS 6" LONG

Stk. No.	C-H Type	Action	Amperes		1-24 Each	25-99 Each
			125 V.	250 V.		
12B585	8290K16	SPST	3	3	.84	.70
12B589	8391K8	SPST	6	3	.96	.79

AC TOGGLE SWITCHES, STANDARD DUTY

All Rated 15 Amps 125 Volts—10 Amps 250 Volts. U.L. Approved
Slow-make, slow-break mechanism for long, dependable performance. All have 3/16" dia. threaded stem 3/4" long and 3/8" bat handles. Shpg. wt. 3 oz.

④ With Solder Lug Terminals

Stock No.	C-H Type	Action	Amperes		Stock No.	C-H Type	Action	Amperes	
			1-24 Each	25-99 Each				1-24 Each	25-99 Each
12B629	7501K13	SPST	\$0.71	\$0.58	12B635	7500K14	SPST	\$0.81	\$0.66
12B630	7505K4	SPDT	.81	.66	12B636	7504K4	SPDT	.96	.79
12B632	7561K4	DPST	1.08	.90	12B637	7560K5	DPST	1.26	1.06
12B633	7565K5	DPDT	1.26	1.06	12B638	7564K6	DPDT	1.56	1.31
12B554	7611K2	3PST	2.19	1.83	12B639	7610K2	3PST	2.55	2.13
12B634	7615K2	3PDT	2.70	2.26	12B640	7614K2	3PDT	3.24	2.70

⑤ Center Off Type

Stk. No.	C-H Type	Action	Amperes		1-24 Each	25-99 Each			
			125 V.	250 V.					
12B641	7503K13	SPDT	.81	.66	12B695	7502K13	SPDT	.96	.79
12B665	7563K4	DPDT	1.26	1.06	12B696	7562K4	DPDT	1.56	1.31
12B675	7613K2	3PDT	2.70	2.26	12B697	7612K2	3PDT	3.24	2.70

⑦ AC-DC TOGGLE SWITCHES HEAVY DUTY (TO 20 AMPS)

These switches are similar to standard duty type in appearance and construction, but with heavier parts, larger clearances and higher ratings. For larger motors or heavier loads; also provide longer life on lighter loads. All have bakelite bodies, screw terminals and quick-make, break contact for long dependable use without pitting. U.L. Approved. Average shpg. wt. 3 oz.

Stk. No.	C-H Type	Action	Amperes		Bot Lth.	1-24 Each	25-99 Each
			125 V.	250 V.			
12B698	7321K3	SPST	12	6	1 1/2"	\$1.41	\$1.17
12B699	7320K3	DPST	12	6	1 1/2"	1.41	1.17
12B829	7361K5	SPST	15	10	1 1/2"	2.46	2.03
12B830	7360K8	DPST	15	10	1 1/2"	2.46	2.03
12B531	7402K4	DPST	1 1/2 hp	20	1 1/2"	3.24	2.72

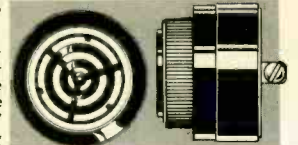
SPST MIDGET SWITCH

Type 8098-K3. Midget switch 3 amps at 125 volts AC, 0.75 amps at 125 volts DC, and 6 amps at 24 volts DC. Screw terminals. Threaded stem diameter 3/16"; stem length 1/2". Has bat handle length 7/8" from end of threaded stem.

No. 12B518. Wt. 2 oz. 1-24 Each. **58c** 25-99 Each. **49c**

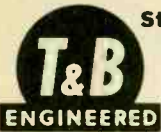
NEW MALLORY SONALERT ELECTRONIC AUDIBLE SIGNALLING DEVICE

Illustration shows front and side view. Produces a penetrating sound by purely electronic means. Solid state circuitry. There is no arcing, RF noise or mechanical wear. Very compact, light and highly versatile. Consumes less current than a normal indicator light. Can also be used to complement visual signals. Positive audible warnings are instantly given in faulty alarms for computers, fire signals, instruments, medical electronics, appliances, communications as well as telephone signals and protection equipment. †Pulsing unit: pulse rate 3-5 cps (depending on input voltage). *Furnished with silicon transistors for operation to -40° to +130° F. Frequency tolerance: 2800 ±300 cps; 4500 ±500 cps. Mounts in 1 1/8" hole with screw-on ring, neck length 7/8". Overall dia. of unit 1 1/8", max. depth behind panel 1.38". Has two 1/4" combination terminals. Shpg. wt. 3 oz.



Stk. No.	Mfg. No.	Freq. Cps.	Voltage	Prices Each		
				1-24	25-49	50-99
14A433	SC628	2800	6-28 V. DC	\$5.50	\$5.40	\$5.15
14A434	SC628A	2800	6-28 V. AC/DC	8.75	8.60	8.20
14A437	SC628H	4500	6-28 V. DC	6.35	6.25	5.95
14A443	SC628H†	2800	6-28 V. DC	9.95	9.75	9.30
14A447	SC6285*	2800	6-28 V. DC	8.75	8.65	8.35
14A448	SC110	2800	110 V. AC	8.75	8.60	8.20

Terminals



THOMAS & BETTS Sta-Kon TERMINALS & CRIMPING TOOL



① NON-INSULATED RING TERMINALS

Stock No.	Mfg. No.	Wire Size	Stud Size	Min. Pkg.	Per 100	Std. Pkg.	Per 100
19A1028	A18-4	22-18	4	100	\$2.88	500	\$2.30
19A1250	A18-6	22-18	6	100	2.88	1000	2.30
19A1251	A18-8	22-18	8	100	2.88	1000	2.30
19A1252	A18-10	22-18	10	100	2.88	5000	2.30
19A1253	A18-14	22-18	1/4	100	3.88	500	3.10
19A1029	B14-4	20-14	4	100	2.88	500	2.30
19A1254	B14-6	20-14	6	100	2.88	2000	2.30
19A1301	B14-8	20-14	8	100	2.88	2000	2.30
19A1256	B14-10	20-14	10	100	2.88	5000	2.30
19A1258	C10-6	16-10	6	50	4.19	500	3.35
19A1259	C10-8	16-10	8	50	4.19	500	3.35
19A1260	C10-10	16-10	10	50	4.19	5000	3.35
19A1302	C10-14	16-10	1/4	50	4.63	1000	3.70

② NYLON INSULATED RING TERMINALS MEETS MS 25036 SPEC.

Stock No.	Mfg. No.	Wire Size	Stud Size	Min. Pkg.	Per 100	Std. Pkg.	Per 100
19A1030	RZ22-2	26-22	2	100	\$6.00	500	\$4.80
19A1031	RZ22-4	26-22	4	100	6.00	500	4.80
19A1032	RZ22-6	26-22	6	100	6.00	500	4.80
19A1033	RZ22-8	26-22	8	100	6.00	500	4.80
19A1035	RZ22-10	26-22	10	100	6.00	500	4.80
19A1036	RA18-4	22-16	4	100	6.00	500	4.80
19A1279	RA18-6	22-16	6	100	6.00	500	4.80
19A1280	RA18-8	22-16	8	100	6.00	500	4.80
19A1281	RA18-10	22-16	10	100	6.00	2000	4.80
19A1282	RA18-14	22-16	1/4	100	6.88	500	5.50
19A1037	RB14-4	16-14	4	100	6.00	500	4.80
19A1038	RB14-6	16-14	6	100	6.00	500	4.80
19A1038	RB14-8	16-14	8	100	6.00	2000	4.80
19A1285	RB14-10	16-14	10	100	6.00	2000	4.80
19A1039	RC10-6	12-10	6	50	7.50	500	6.00
19A1040	RC10-8	12-10	8	50	7.50	500	6.00
19A1041	RC10-10	12-10	10	50	7.50	2000	6.00

③ VINYL INSULATED RING TERMINALS

Stock No.	Mfg. No.	Wire Size	Stud Size	Min. Pkg.	Per 100	Std. Pkg.	Per 100
19A1042	18RA-4	22-18	4	100	4.25	500	3.50
19A1043	18RA-6	22-18	6	100	4.25	500	3.50
19A1045	18RA-8	22-18	8	100	4.25	500	3.50
19A1046	18RA-10	22-18	10	100	4.25	500	3.50
19A1047	14RB-4	16-14	4	100	4.25	500	3.50
19A1048	14RB-6	16-14	6	100	4.25	500	3.50
19A1049	14RB-8	16-14	8	100	4.25	500	3.50
19A1050	14RB-10	16-14	10	100	4.25	1000	3.50
19A1051	10RC-6	12-10	6	50	6.50	500	4.40
19A1052	10RC-8	12-10	8	50	6.50	500	4.40
19A1053	10RC-10	12-10	10	50	6.50	1000	4.40

④ NYLON SELF INSULATED FORK MEETS MS 25036 SPEC.

Stock No.	Mfg. No.	Wire Size	Stud Size	Min. Pkg.	Per 100	Std. Pkg.	Per 100
19A1286	RA18-6F	22-18	6	100	\$6.00	2000	\$4.80
19A1287	RA18-8F	22-18	8	100	6.00	500	4.80
19A1054	RA18-10F	22-18	10	100	6.00	500	4.80
19A1289	RB14-6F	16-14	6	100	6.00	2000	4.80
19A1290	RB14-8F	16-14	8	100	6.00	500	4.80
19A1055	RB14-10F	16-14	10	100	6.00	2000	4.80
19A1056	RC10-6F	10-12	6	50	7.50	500	6.00
19A1057	RC10-8F	10-12	8	50	7.50	500	6.00
19A1058	RC10-10F	10-12	10	50	7.50	2000	6.00

⑤ VINYL INSULATED FORK

Stock No.	Mfg. No.	Wire Size	Stud Size	Min. Pkg.	Per 100	Std. Pkg.	Per 100
19A1545	18RA-6F	22-18	6	100	4.25	500	3.50
19A1546	18RA-8F	22-18	8	100	4.25	500	3.50
19A1547	18RA-10F	22-18	10	100	4.25	500	3.50
19A1548	14RB-6F	16-14	6	100	4.25	500	3.50
19A1549	14RB-8F	16-14	8	100	4.25	500	3.50
19A1550	14RB-10F	16-14	10	100	4.25	1000	3.50
19A1551	10RC-8F	10-12	8	100	6.50	500	4.40
19A1552	10RC-10F	10-12	10	50	6.50	1000	4.40
19A1553	10RC-14F	10-12	1/4	50	6.69	500	5.35

⑥ NON-INSULATED FORK

Stock No.	Mfg. No.	Wire Size	Stud Size	Min. Pkg.	Per 100	Std. Pkg.	Per 100
19A1262	A18-6F	22-18	6	100	2.88	1000	2.30
19A1554	A18-8F	22-18	8	100	2.88	1000	2.30
19A1263	A18-10F	22-18	10	100	2.88	1000	2.30
19A1555	A18-14F	22-18	1/4	100	3.88	500	3.10
19A1264	B14-6F	20-16	6	100	2.88	2000	2.30
19A1556	B14-6FS	20-16	6	100	3.31	500	2.65
19A1265	B14-8F	20-16	8	100	3.31	2000	2.65
19A1303	B14-10F	20-16	10	100	3.88	5000	3.10
19A1557	C10-6F	16-10	6	50	4.19	500	3.35
19A1558	C10-8F	16-10	8	50	4.19	500	3.35
19A1559	C10-10F	16-10	10	50	4.19	5000	3.35
19A1560	C10-14F	16-10	1/4	50	4.63	500	3.70

⑦ NON-INSULATED BUTT CONNECTORS

Stock No.	Mfg. No.	Wire Size	Min. Pkg.	Per 100	Std. Pkg.	Per 100
19A1276	2A18	22-18	100	3.56	2000	2.85
19A1277	2B14	20-14	100	3.56	2000	2.85
19A1278	2C10	16-10	50	4.94	2000	3.95

⑧ INSULATED BUTT CONNECTORS

Stock No.	Mfg. No.	Wire Size	Min. Pkg.	Per 100	Std. Pkg.	Per 100
19A1292	2RA-18	22-18	100	5.50	500	4.40
19A1293	2RB-14	16-14	100	5.50	1000	4.40
19A1561	2RC10	12-10	50	7.63	500	6.10

THOMAS & BETTS SNAP ON TERMINALS



Fig. No.	Stock No.	Mfg. No.	Tab Size	Wire Size	Insulation	Unit Pkg.	Per 100	Std. Pkg.	Per 100
⑧	19A1059	RB14-250F	.25x.032	16-14	Nylon	100	\$6.88	500	\$5.50
⑨	19A1060	18RA-250F	.25x.032	22-18	Vinyl	100	6.25	500	5.00
⑩	19A1061	14RB-250F	.25x.032	16-14	Vinyl	100	6.25	500	5.00
⑪	19A1062	10RC-250F	.25x.032	12-10	Vinyl	100	7.81	500	6.25
⑫	19A1063	A18-250	.25x.032	22-18	None	100	4.06	500	3.25
⑬	19A1064	B14-250	.25x.032	16-14	None	100	4.06	500	3.25
⑭	19A1066	C10-250F	.25x.032	12-10	None	100	7.19	500	5.75
⑮	19A1067	B14-250A	.25x.032	20-14	None	50	4.69	500	3.75
⑯	19A1068	A18-205	.205x.02	22-18	None	100	5.63	500	4.50
⑰	19A1069	B14-205	.205x.02	16-14	None	100	5.63	500	4.50
⑱	19A1073	A18-187	.187x.032	22-18	None	100	5.63	500	4.50
⑲	19A1075	B14-187	.187x.032	16-14	None	100	5.63	500	4.50
⑳	19A1076	A18-110F	.110x.032	22-18	None	100	6.25	500	5.00
㉑	19A1077	B14-110F	.110x.032	16-14	None	100	6.25	500	5.00
㉒	19A1079	14RB250T	.25x.032	16-14	Vinyl	100	6.50	500	5.20

THOMAS & BETTS TY-RAPS



TY-RAP SELF-LOCKING

Fig. No.	Stock No.	Mfg. No.	Max. Dia.	Unit Pkg.	Per 100	Std. Pkg.	Per 100
①	19A1080	TY523M	5/8	100	\$3.75	500	\$3.00
②	19A1081	TY525M	1 3/4	100	5.25	500	4.20
③	19A1082	TY535M	1 3/4	100	6.00	500	4.80

TY-RAP TWIST TYPE

Fig. No.	Stock No.	Mfg. No.	Max. Dia.	Unit Pkg.	Per 100	Std. Pkg.	Per 100
④	19A1083	TY503	5/8	100	3.00	500	2.40
⑤	19A1085	TY505	1 3/4	100	4.40	500	3.50
⑥	19A1027	TY515	1 3/4	100	5.00	500	4.00

STA-KON KIT

Contains 100 each A18-10, B14-10, 50 type C10-10 ring terminals and one WT111M installing tool. A practical universal combination. Wt. 3 lb.

\$11.00

STA-KON CRIMP TOOL

Stakes both plain and insulated terminals, splices, and wire joints, #22 to #10 wire. Cuts up to #10 bolt. Measures bolt lengths. Chases and cleans threads. Cuts wires.

No. 19A1300. TGB #WT-100M. Wt. 1 lb. Net Each. **\$5.00**

CLAMP HAND TOOL

DOES 5 JOBS! **\$4.95**

CRIMPS TERMINALS!
SHEARS BOLTS! STRIPS,
CUTS AND GAUGES WIRE!



THE IDEAL TOOL FOR TV, RADIO & ELECTRICAL WORK

Crimps terminals as listed below to wire ends for clean and true connections—no solder needed. Shears screws, bolts sizes 10-24, 10-32, 8-32, 6-32, 4-40 to desired length without thread damage. Strips and cuts wire sizes #22 to 10 fast, clean. Stripper notches also serve as Wire gauge Wt. 1 lb.

19B1100. Type 49835-1. For Non-insulated Terminals. Each **\$4.95**
19B1315. Type 47100-1. For Insulated Terminals. Each **\$4.95**

A-MP TERMINALS

Terminals are serrated internally for permanent vibration-proof gripping of wire. May be used for solid, stranded or irregularly shaped wires, or their combination. Average wt. 8 oz. per package of 100.

(A) NON-INSULATED RING TONGUE TERMINALS									
Stock No.	A-MP Type	Wire Size	Dimensions Stud W	L	Ea.	100 For	1000 For		
19B1101	34105	22-16	6 3/8	1 1/2	\$0.05	\$4.11	\$29.04		
19B1102	34108	22-16	8 3/8	1 1/2	.05	4.11	29.04		
19B1103	34112	22-16	10 3/8	1 1/2	.05	4.11	29.04		
19B1104	34122	16-14	8 3/8	1 1/2	.05	4.11	29.04		
19B1105	34123	16-14	10 3/8	1 1/2	.05	4.11	29.04		
19B1106	33457	12-10	10 3/8	1 1/2	.07	5.90	43.30		
(A) INSULATED RING TONGUE TERMINALS									
19B1309	34142	22-16	6 3/8	1 1/2	.08	6.56	46.28		
19B1310	34145	22-16	8 3/8	1 1/2	.08	6.56	46.28		
19B1313	34146	22-16	10 3/8	1 1/2	.08	6.56	46.28		
19B1314	34160	16-							

Terminals, Plugboards, Etc.

WALDOM CRIMP-ON TERMINALS



Available Insulated and Non-Insulated. Made from: Annealed Electrolytic Copper and Electro-Tin plated. One-piece design, internally serrated. Wt. 8 oz. per 100. For 5000 up of a type deduct 22% from 1000 piece price.

SPADE TONGUE TERMINALS FIG. 1

Non-Ins. Stock No.	Wire	Dimensions Stud W.	L.	100 For	1000 For	Insulated Stock No.	L.	100 For	1000 For	
19A1170	22-18	3-4	1/4	5/8	\$1.96	\$14.12	19A1174	5/8	\$4.06	\$30.05
19A1125	22-18	5-6	1/4	5/8	1.96	14.12	19A1123	5/8	4.06	30.05
19A1126	22-18	8	1/4	5/8	1.96	14.12	19A1124	5/8	4.06	30.05
19A1171	22-18	10	1/4	5/8	1.96	14.12	19A1175	5/8	4.06	30.05
19A1127	16-14	5-6	1/4	5/8	2.05	14.77	19A1145	5/8	4.06	30.05
19A1128	16-14	8	1/4	5/8	2.05	14.77	19A1146	5/8	4.06	30.05
19A1172	16-14	10	1/4	5/8	2.05	14.77	19A1176	5/8	4.06	30.05
19A1173	12-10	10	3/8	5/8	2.85	20.52	19A1177	1 1/8	5.26	38.93

BUTT CONNECTORS FIG. 2

Stock No.	Wire	Length	100 For	1000 For	Stock No.	Length	100 For	1000 For
19A1117	22-18	1/2	\$2.16	\$15.56	19A1165	1/2	\$4.80	\$35.52
19A1118	16-14	1/2	2.16	15.56	19A1166	1/2	4.80	35.52
19A1207	12-10	1/2	3.84	27.65	19A1208	1 1/2	6.55	48.48

QUICK DISCONNECTS—PUSH-ON TYPE FIG. 3

Stock No.	Wire	Stud	100 For	1000 For	Stock No.	Length	100 For	1000 For
19A1119	18-14	1/4 Male	\$2.25	\$16.21	19A1167	1 1/2	\$4.36	\$32.28
19A1120	18-14	1/4 Female	2.25	16.21	19A1168	1 1/2	4.36	32.28

NYLON INSULATED CLOSED-END CONNECTORS FIG. 4

Stock No.	Wire	O. D.	Length	Barrel Length	I. D.	Circular Mill Area	100 For	1000 For
19A1121	22-14	3/8	1 1/2	1 1/8	1/4	600-5,180	\$3.36	\$24.20
19A1122	16-10	3/8	1 1/2	1 1/8	3/8	2,400-13,100	4.92	35.43

RING TONGUE TERMINALS FIG. 5

Non-Ins. Stock No.	Wire	Dimensions Stud W.	L.	100 For	1000 For	Insulated Stock No.	L.	100 For	1000 For	
19A1180	22-18	1-2	1/4	5/8	\$1.96	\$14.12	19A1193	5/8	\$4.06	\$30.05
19A1181	22-18	3-4	1/4	5/8	1.96	14.12	19A1194	5/8	4.06	30.05
19A1140	22-18	5-6	1/4	5/8	1.96	14.12	19A1158	5/8	4.06	30.05
19A1141	22-18	8	1/4	5/8	1.96	14.12	19A1159	5/8	4.06	30.05
19A1142	22-18	10	1/4	5/8	1.96	14.12	19A1160	5/8	4.06	30.05
19A1182	22-18	1 1/2	1/4	5/8	2.69	19.36	19A1195	1 1/4	5.26	38.93
19A1183	22-18	1 1/2	1/4	5/8	2.69	19.36	19A1196	1 1/4	5.26	38.93
19A1143	16-14	5-6	1/4	5/8	2.05	14.77	19A1161	5/8	4.06	30.05
19A1144	16-14	8	1/4	5/8	2.05	14.77	19A1162	5/8	4.06	30.05
19A1115	16-14	10	1/4	5/8	2.05	14.77	19A1163	5/8	4.06	30.05
19A1116	12-10	10	3/8	5/8	2.85	20.52	19A1164	1 1/8	5.26	38.93

FLANGED SPADE TERMINALS FIG. 6

Stock No.	Wire	Dimensions Stud W.	L.	100 For	1000 For	Stock No.	L.	100 For	1000 For	
19A1133	22-18	5-6	1/4	5/8	\$1.96	\$14.12	19A1151	5/8	\$4.06	\$30.05
19A1134	22-18	8	1/4	5/8	1.96	14.12	19A1152	5/8	4.06	30.05
19A1135	22-18	10	1/4	5/8	1.96	14.12	19A1153	5/8	4.06	30.05
19A1136	16-14	5-6	1/4	5/8	2.05	14.77	19A1154	5/8	4.06	30.05
19A1137	16-14	8	1/4	5/8	2.05	14.77	19A1155	5/8	4.06	30.05
19A1138	16-14	10	1/4	5/8	2.05	14.77	19A1156	5/8	4.06	30.05

WALDOM CRIMPING TOOL



Model CT4050. Ideal... inexpensive. Crimps both insulated and non-insulated, regular and short barrel terminals. Handles wire sizes #22 through #10—cuts and strips wire. Has insulated handles. Shpg. wt. 1 lb.
No. 19A1200. Net Each... **\$3.95**

CRIMP TOOL & TERMINAL KITS



Non-Insulated Terminal Kit contains 214 assorted terminals—flanged spade, ring tongue, hook tongue, quick disconnects, spade tongue, butt connectors. With crimp tool in compartmented plastic box. Wt. 3 lbs.
No. 19B1209. Type K-170. Each... **\$8.95**

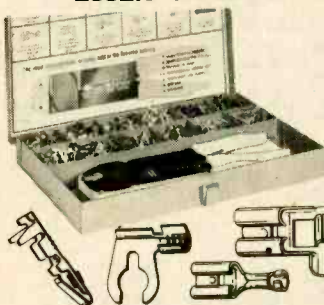
Insulated Terminal Kit. 138 assorted insulated terminals—spade tongue, butt connectors, quick disconnects, ring tongue, flanged spade. With Crimp Tool in compartmented plastic box.
No. 19B1169. Type K-180. Shpg. wt. 2 1/2 lbs. Each... **\$10.95**

ESSEX CRIMP-ON APPLIANCE TERMINALS

A "MUST" FOR EVERY APPLIANCE REPAIR OR MAINTENANCE REPAIR SHOP

CRIMP TOOL AND APPLIANCE TERMINAL KIT

REPLACES ORIGINAL EQUIPMENT TERMINALS USED IN APPLIANCES, VENDING AND ELECTRONIC EQUIPMENT

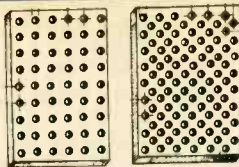


Contains approximately 1100 terminals including those shown at left plus ring, spade, and tab terminals; insulated butt and closed end connectors. Complete with Crimp Tool in compartmented metal case. Shpg. wt. 2 1/2 lbs. **\$22.95**
No. 19B1248. Per Kit...

ESSEX CRIMP TOOL ONLY

FOR USE ON ALL TYPES OF TERMINALS

For both plain and insulated terminals. Performs genuine "B" crimp. Even crimps spark plug terminals. Cuts wire, strips wire sizes 22 through 10. Shpg. wt. 1 lb.
No. 19B1247. **\$7.95**
Each

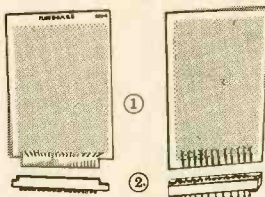


VECTORBORD PREPUNCHED INSULATING BOARDS

Provide a convenient and economical method of assembling circuit components in both experimental and production units. All boards accept zip push-in terminals, turned terminals and eyelets. All panels may be sawed, drilled or punched. All are unclad phenolic except those marked * Epoxy paper, holes offset .1 x .2" ** 2 oz. Copper clad one side, holes spaced .2".

Stk. No.	Mfg. No.	Pattern	Hole Dia.	Size	1-19 Ea.	20-99 Ea.
20B199	18A18	A	.093	4.8x4.8x1/8	\$0.43	\$0.39
20A200	32A9	A	.093	8.51x2.41x1/8	.45	.41
20A201	64A18	A	.093	4.8x16.99x1/8	1.25	1.13
20A202	64AA18	A	.093	4.8x16.79x1/8	1.60	1.44
20A203	64AA32	A	.093	16.99x8.5x1/8	2.45	2.21
20B204	*85F24EP	A	.062	4.8x16.99x1/8	2.08	1.85
20A205	*85F42EP	A	.062	8.5x16.99x1/8	3.17	2.85
20B207	**3106-1XXXXP	A	.062	3x4 1/2 x 1/8	.45	.41
20A208	**3070-1XXXXP	A	.062	4 1/2 x 6 1/2 x 1/8	.84	.76
20A209	85G24	B	.062	4.8x17x1/8	1.25	1.13
20A210	*85G24EP	B	.062	4.8x17x1/8	2.08	1.85

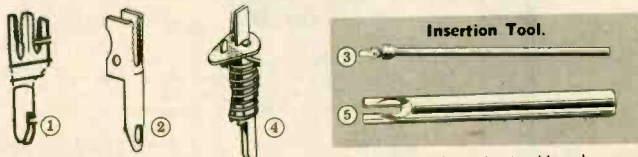
VECTOR PLUGBORDS AND RECEPTACLES



Ready to wire Plugboards for prototypes and short runs. All are furnished with overall grid of pre-punched 1/8" dia. holes located on alternate intersections of a 0.1" grid. Contacts along bottom edge of board mate with listed receptacles. Pre-drilled to accept T-28 Miniklips, standard turned terminals, or 1/8" dia. eyelets. All are 1/8" thick, epoxy paper per MIL-P-22324 or "WE" types are epoxy glass per MIL-P-18177. Elco Varicon contacts on all except 838 series which are 2 oz. etched copper.

Fig. Stock No.	Vector No.	Description	Price Each 1-19	20-99
① 20B211	812	Plugboard 16 contacts 4 1/2 x 6 1/2"	\$2.73	\$2.46
① 20A212	812WE	Plugboard 16 contacts 4 1/2 x 6 1/2"	3.23	2.91
② 20A213	R616-1	Receptacle for above, 16 Contacts	2.04	2.04
① 20B214	837	Plugboard, 12 cont., 3x4 1/2"	2.13	1.92
① 20B215	837WE	Plugboard, 12 cont., 3x4 1/2"	2.36	2.12
② 20A218	R612-1	Receptacle for above, 12 Contacts	1.64	1.64
② 20A219	838A	Plugboard 4 1/2 x 6 1/2", 22 Etched Cont.	2.57	2.42
② 20A220	838AWE	Plugboard 4 1/2 x 6 1/2", 22 Etched Cont.	3.19	2.98
② 20A221	838	Plugboard 4 1/2 x 6 1/2", 43 Etched Cont. (2 Sides)	3.34	3.17
② 20A225	838WE	Plugboard 4 1/2 x 6 1/2", 43 Etched Cont. (2 Sides)	3.92	3.69
③ 20A226	R644	Receptacle for 838 Series Plugboards Has 44 Contacts, 2 Rows	2.62	2.10

PUSH-IN "ZIP" TERMINALS AND INSERTION TOOLS



Bright tinned, serrated teeth grip several leads for good contact. May be used over and over or soldered in.

- ① No. 20A72. T9-4. Fits .093 holes. 100 For... **\$1.25** 1000 For... **\$8.90**
- ② No. 20A73. T28 Miniklip. Fits .062 holes. 100 For **\$1.55** 1000 For **\$11.00**
- ③ No. 20A74. Insertion Tool. P91. For T28 Terminals. Each... **50c**
- ④ Spring Clip Push-In Terminals. Provide fast reliable circuit set-ups without soldering, bending or crimping component leads.
- No. 20A75. Type T32A-1. For .062 holes. 10 For... **\$1.35** 100 For... **\$9.90**
- No. 20A76. Type T32A. For .093 holes. 10 For... **\$1.35** 100 For... **\$9.90**
- ⑤ No. 20A77. Insertion Tool. P29A. For T32 Terminals. Each... **50c**

VECTOR 22X & 25X CHASSIS KITS

Ideal for experimenters, classroom instruction and prototype. Provide complete assortments of solderless and solderable push-in terminals, tube and transistor sockets, plus pre-punched Vectorbord and new Frame-Loc aluminum rail chassis supports for quick, easy setups of experimental or prototype circuitry. Each kit also includes "pot" brackets, bus stripping, layout paper, screws, nuts, and wire.

22X TRANSISTOR EXPERIMENTER'S CHASSIS KIT

4.8x17x3/8" pre-punched phenolic Vectorbord deck, Frame Loc expandable aluminum chassis support, 8 transistor sockets, 97 (total) solderable T9-4 and solderless spring clip terminals, 6 patchcords, 4 "pot" and switch brackets.
No. 20A195. Net Each... **\$10.50**



25X SOLDERLESS EXPERIMENTER'S CHASSIS KIT

Big 8.5x17x3/8" pre-punched phenolic Vectorbord deck with Frame Loc expandable aluminum chassis support. 6 transistor sockets, 3 each 7 and 9 pin miniature sockets, 2 octal sockets, 204 (total) solderable and solderless terminals, 10 patchcords, 4 "pot" and switch brackets plus miscellaneous nuts, screws, hookup wire, etc.
No. 20A196. Net Each... **\$19.50**



Amphenol Sockets, Plugs, AC Connectors



AMPHENOL STANDARD CONNECTORS

"CP" plugs made of black bakelite, for chassis mounting, fits $1\frac{1}{8}$ " hole. PM and PF connectors are molded black bakelite with steel shell. Rubber grommet in hole. Avg. shpg. wt. 1 oz.

Fig.	Stock No.	Type	Pins	1-49 Ea.	50-249 Ea.	250-499 Ea.
(1)	12A58	86-CP4	4	\$0.22	\$0.18	\$0.15
(1)	12A59	86-CP5	5	.22	.18	.16
(1)	12A63	86-CP8	8	.24	.20	.17
(2)	12A80	78-PF4	4	.39	.32	.27
(2)	12A81	78-PF5	5	.41	.34	.29
(2)	12A82	78-PF6	6	.42	.36	.30
(2)	12A83	78-PF7S	7S	.45	.37	.31
(2)	12A85	78-PF8	8	.41	.35	.29
(2)	12A86	78-PF9	9	.44	.37	.31
(2)	12A87	78-PF11	11	.48	.40	.33
(3)	12A72	86-PM4	4	.43	.36	.30
(3)	12A73	86-PM5	5	.43	.36	.30
(3)	12A74	86-PM6	6	.45	.38	.32
(3)	12A75	86-PM7S	7S	.46	.38	.32
(3)	12A77	86-PM8	8	.45	.38	.32
(3)	12A78	86-PM9	9	.46	.39	.32
(3)	12A79	86-PM11	11	.47	.39	.33
No. 12A91. Cable Clamp for above (not shown)					.09	.08

AMPHENOL AC CONNECTORS



Molded of high dielectric black bakelite, U/L approved, rated 15 amps at 110 volts. Fig. (1) and (2) have metal shell with built-in cable clamp. Fig. (3) mounts in $1\frac{1}{8}$ " hole in $1\frac{1}{2}$ " mtg. centers. Fig. (4) and (5) snop mount in $1\frac{1}{8}$ " hole. Includes mounting ring. Avg. shpg. wt. 1 oz.

Fig.	Stock No.	Type	1-49 Each	50-249 Ea.	250-499 Each
(1)	12B89	61-M11	\$0.58	\$0.48	\$0.41
(2)	12B90	61-F11	.58	.48	.40
(3)	12A354	61-MIP-61F	.40	.33	.28
(4)	12A121	61-M	.37	.31	.26
(5)	12A122	61-F	.37	.31	.26

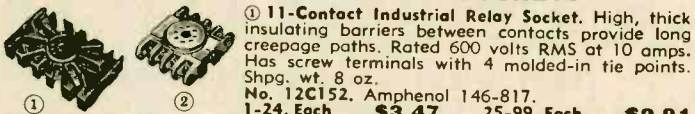
AMPHENOL POLARIZED AC CONNECTORS



U/L approved, for home appliances and power tools. Third prong grounded. Made of black phenolic bakelite, contacts and ground prong are copper alloy. Caps are cad. plated steel, mounting plate is nickel plated steel. Rated at 15 amp, 125 V. AC. Type 160-2 receptacle mounts in $1\frac{1}{8}$ " hole, has $1\frac{1}{2}$ " mtg. centers. Cable type are $1\frac{1}{8}$ " long with either cable clamp or grommet. Avg. shpg. wt. 2 oz.

Fig.	Stk. No.	Type	1-24 Ea.	25-99 Ea.	100 up Ea.
(1)	12A1	160-2-MIP Receptacle	\$0.93	\$0.78	\$0.65
(1)	12A2	160-3 MIP Plug	1.10	.92	.77
(2)	12A4	160-7 Cable Plug-Grommet	1.14	.95	.80
(3)	12A41	160-9 Cable Plug-Cable Clamp	1.22	1.02	.85
(3)	12A3	160-6 Cable Socket-Grommet	.98	.82	.69
(3)	12A33	160-8 Cable Socket-Cable Clamp	1.08	.88	.74

AMPHENOL INDUSTRIAL SOCKETS

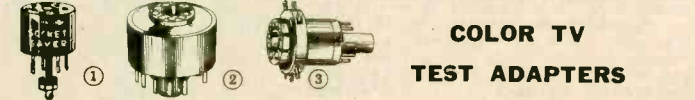


(1) 11-Contact Industrial Relay Socket. High, thick insulating barriers between contacts provide long creepage paths. Rated 600 volts RMS at 10 amps. Has screw terminals with 4 molded-in tie points. Shpg. wt. 8 oz.
No. 12C152. Amphenol 146-817.
1-24, Each... \$3.47 25-99, Each... \$2.91

(2) Octal Industrial Socket for relays or high-power tubes. Molded melamine base has screw terminals. Rated 1250 volts at 5 amp. Shpg. wt. 5 oz.

Stk. No.	Type	1-24 Ea.	25-99 Ea.
12C153	Top Mtg. No Tie Points	146-103	\$1.50 \$1.25
12C154	Top Mtg. 4 Tie Points	146-104	1.91 1.59
12C155	Bottom Mtg. No Tie Points	146-203	1.50 1.25
12C156	Bottom Mtg. 4 Tie Points	146-204	1.91 1.59

POMONA SOCKET SAVERS & ADAPTERS

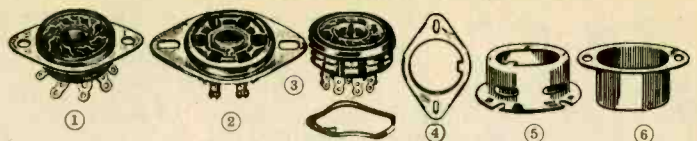


(1) SOCKET SAVERS
Miniaturized, only .336" (7 & 9) and .68" (octal) high. Protects tube tester sockets from wear caused by repeated use. Assures positive contact to tube pins and preserves tester accuracy. Simple plug-in installation, no wiring. Shpg. wt. 3 oz.
No. 17B259. 1847. For 7-pin.
No. 17B260. 1848. For 8-pin.
No. 17B261. 1849. For 9-pin.
No. 17B266. 1751. For 9-pin novar.
CHOICE EACH... \$1.95

(2) ADAPTERS
Permits testing both the new Motorola and RCA color tubes on your present tester. Adapts min. diheptal (14BE) to standard neo-diheptal 14AL/14AU basing on new color tubes.
No. 17B306. Net Each... \$5.95

(3) Miniature Diheptal test socket for color TV. Permits voltage, resistance and video tests from tube base without tracing circuits. Saves time assures accuracy.
No. 17A308. Net Each... \$4.95

AMPHENOL SOCKETS AND MOUNTS



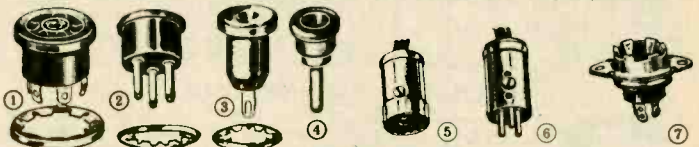
Quality engineered sockets for every need. MIP, RS and S type are black phenolic, RSS is steatite. MIP type has molded-in steel mounting plate. Type 78 adaptor sockets are same size as S type but fit 7 and 9 pin miniature tubes. Avg. shpg. wt. 1 oz.

Fig.	Stock No.	Type	Pins	Mtg. Centers	Mtg. Hole	1-49 Each	50-249 Each	250-499 Each
(1)	12A93	77MIP4	4	$1\frac{1}{2}$ "	$1\frac{1}{8}$ "	\$0.18	\$0.15	\$0.12
(1)	12A94	77MIP5	5	$1\frac{1}{2}$ "	$1\frac{1}{8}$ "	.20	.16	.14
(1)	12A95	77MIP6	6	$1\frac{1}{2}$ "	$1\frac{1}{8}$ "	.22	.18	.15
(1)	12A96	77MIP7S	7S	$1\frac{1}{2}$ "	$1\frac{1}{8}$ "	.24	.20	.17
(1)	12A97	77MIP7L	7L	$1\frac{1}{2}$ "	$1\frac{1}{8}$ "	.26	.22	.19
(1)	12A98	77MIP8	8	$1\frac{1}{2}$ "	$1\frac{1}{8}$ "	.20	.17	.14
(1)	12A1440	77MIP9	9	$1\frac{1}{2}$ "	$1\frac{1}{8}$ "	.24	.20	.17
(1)	12A1441	77MIP11	11	$1\frac{1}{2}$ "	$1\frac{1}{8}$ "	.27	.23	.19
(1)	12B166	77MIP12	12	$1\frac{1}{2}$ "	$1\frac{1}{8}$ "	.28	.24	.20
(1)	12B167	77MIP20	20	$1\frac{1}{2}$ "	$1\frac{1}{8}$ "	.64	.53	.45
(1)	12A100	88-8	8	$1\frac{1}{2}$ "	$1\frac{1}{8}$ "	.23	.19	.16
(1)	12A101	88-8X	Loct.	$1\frac{1}{2}$ "	$1\frac{1}{8}$ "	.33	.27	.23
(2)	12A104	78-RS4	4	$1\frac{1}{2}$ "	$1\frac{1}{8}$ "	.25	.21	.17
(2)	12A105	78-RS5	5	$1\frac{1}{2}$ "	$1\frac{1}{8}$ "	.23	.22	.19
(2)	12A106	78-RS6	6	$1\frac{1}{2}$ "	$1\frac{1}{8}$ "	.29	.24	.20
(2)	12A110	78-RS8	8	$1\frac{1}{2}$ "	$1\frac{1}{8}$ "	.27	.23	.19
(2)	12A112	49-RSS4	4	$1\frac{1}{2}$ "	$1\frac{1}{8}$ "	.62	.52	.43
(2)	12A113	49-RSS5	5	$1\frac{1}{2}$ "	$1\frac{1}{8}$ "	.65	.55	.46
(2)	12A116	49-RSS7L	7L	$1\frac{1}{2}$ "	$1\frac{1}{8}$ "	.81	.67	.57
(2)	12A117	49-RSS8	8	$1\frac{1}{2}$ "	$1\frac{1}{8}$ "	.64	.53	.45
(3)	12A48	78-S4	4	$1\frac{1}{2}$ "	$1\frac{1}{8}$ "	.18	.15	.12
(3)	12A49	78-S5	5	$1\frac{1}{2}$ "	$1\frac{1}{8}$ "	.19	.16	.14
(3)	12A50	78-S6	6	$1\frac{1}{2}$ "	$1\frac{1}{8}$ "	.21	.18	.15
(3)	12A54	78-S8	8	$1\frac{1}{2}$ "	$1\frac{1}{8}$ "	.20	.17	.14
(3)	12A56	78-S9	9	$1\frac{1}{2}$ "	$1\frac{1}{8}$ "	.23	.19	.16
(3)	12A57	78-S11	11	$1\frac{1}{2}$ "	$1\frac{1}{8}$ "	.26	.22	.19
(3)	17B765	78-A7P	7 Min.	$1\frac{1}{2}$ "	$1\frac{1}{8}$ "	.44	.37	.31
(3)	17B766	78-A9P	9 Min.	$1\frac{1}{2}$ "	$1\frac{1}{8}$ "	.33	.28	.23

"S" SOCKET MOUNTINGS. Fits all "S" type sockets except 9 and 11 pin. Steel mtg. plate has slotted holes with $1\frac{1}{2}$ " to $1\frac{1}{8}$ " centers. Above surface mount raises socket $\frac{1}{8}$ " above surface, $1\frac{1}{8}$ " dia. Below surface mount extends $1\frac{1}{8}$ " below surface. Mounts in $1\frac{1}{8}$ " hole in $1\frac{3}{4}$ " centers.

Fig.	Stock No.	Description	1-49 Ea.	50-249 Ea.	250-499 Ea.
(4)	12A66	Mounting Plate	\$0.06	\$0.05	\$0.04
(5)	12A67	Above Surface Shell	.26	.22	.18
(6)	12A70	Below Surface Shell	.14	.12	.10

AMPHENOL MINIATURE PLUGS AND SOCKETS



78 series and 86 series mount in $\frac{3}{8}$ " hole with push-on spring. Plugs can be chassis mounted or wired to cable. 7-pin sockets fit 7-pin miniature tubes. 78-IM socket mounts in $\frac{3}{8}$ " hole. 78-IM, 78-IP, 71-IM available in Red or Black. 71 Series are less retainer ring. 78-IM and 71-IM have $\frac{1}{8}$ " dia. pins. 78-IP has .080" dia. Avg. shpg. wt. 5 oz. per 20.

Fig.	Stock No.	Type	Pins	1-49 Each	50-249 Each	250 Up Each
(1)	12A140	78-S3S	3	\$0.11	\$0.10	\$0.08
(1)	12A141	78-S4S	4	.15	.13	.11
(1)	12A125	78-S5S	5	.20	.17	.14
(1)	12A118	78-S6S	6	.21	.18	.15
(1)	12A123	78-7P	7	.28	.23	.20
(2)	12A138	86-CP3S	3	.15	.12	.10
(2)	12A139	86-CP4S	4	.15	.13	.11
(2)	12B171	71-S5	5	.15	.12	.10
(2)	12B172	71-S6	6	.17	.14	.12
(3)	12B268	78-1M	1	.08	.06	.05
(3)	12B269	78-1P	1	.09	.08	.06
(4)	12B270	71-1M	1	.06	.05	.04

AMPHENOL MINIATURE SHIELDED CONNECTORS

Shells are cadmium plated brass $1\frac{1}{8}$ " dia. Inserts are bakelite. Fig. (6) is flanged female plug; Fig. (7) is male plug, both $1\frac{1}{8}$ " long; Fig. (8) is female chassis socket. Avg. shpg. wt. $\frac{1}{2}$ oz.

Fig.	Stock No.	Type	Pins	1-49 Each	50-99 Each	100-249 Each
(5)	12A148	91-MPF3L	3	\$0.47	\$0.39	\$0.33
(5)	12A149	91-MPF4L	4	.49	.41	.34
(6)	12A142	91-MPM3L	3	.42	.35	.29
(6)	12A143	91-MPM4L	4	.43	.36	.30
(6)	12B22	91-MPM5L	5	.44	.37	.31
(6)	12B23	91-MPM6L	6	.47	.39	.33
(7)	12A150	78-PCG3	3	.30	.25	.21
(7)	12A151	78-PCG4	4	.33	.28	.23
(7)	12B24	78-PCG5	5	.37	.31	.26
(7)	12B25	78-PCG6	6	.38	.32	.26

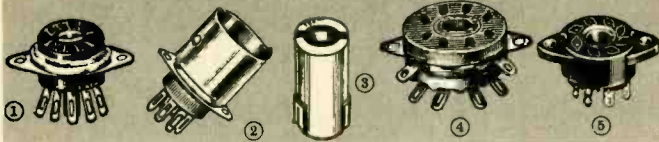
SURFACE MOUNTED BREADBOARD SOCKETS

Ideal for schools, hobbyists. For experimental circuit design. Insulated base prevents shorts. (Made by Pomona). Wt. 1 oz.

Pins	Stk. No.	Type	Net Ea.	10, Ea.
7-Min.	17B262	XS-7	59c	54c
Octal	17B263	XS-8	75c	68c
9-Min.	17B264	XS-9	69c	63c

Tube and Transistor Sockets

CINCH-JONES SOCKETS & SHIELDS



7-PIN MINIATURE SOCKETS

Unshielded types are bottom mount. Shielded types are top mount. Both mount in $\frac{5}{8}$ " hole with $\frac{7}{8}$ " mtg. ctr.

Fig.	Stock No.	Type	Body	1-99 Each	100 For
(1)	17A768	7EB	Bakelite	10c	\$ 6.24
(1)	17C718	7EM	Mica	11c	7.52
(2)	17A772	7XB1	Bakelite	16c	10.49
(2)	17A773	7XM1	Mica	19c	12.84
(2)	17A774	7XC	Ceramic	33c	22.00

9-PIN MINIATURE SOCKETS

Unshielded type are bottom mount, shielded type are top-mount. Mounts in $\frac{3}{4}$ " hole with $1\frac{1}{8}$ " mtg. ctr.

Fig.	Stock No.	Type	Body	1-99 Each	100 For
(1)	17A770	9EB	Bakelite	12c	\$ 8.32
(1)	17A771	9EM	Mica	14c	9.64
(2)	17A775	9XB	Bakelite	21c	13.92
(2)	17A776	9XM	Mica	23c	15.12
(2)	17A777	9XC	Ceramic	36c	23.80

TUBE SHIELDS FOR ABOVE

Durable steel shields with "J-Slot" for locking onto base. Tube holding spring on top.

For 7-Pin Miniature Sockets

Stock No.	Type	Size	1-99 Each	100 For
17A780	7S3	1 $\frac{1}{4}$ " L.	12c	\$ 7.76
17A778	7S4	2 $\frac{1}{4}$ " L.	18c	11.84

For 9-Pin Miniature Sockets

Stock No.	Type	Size	1-99 Each	100 For
17A1064	9S2	1 $\frac{1}{2}$ " L.	18c	\$10.96
17A1063	9S3	2 $\frac{3}{8}$ " L.	30c	18.96

MOLDED OCTAL SOCKETS

Saddle Mount Type

Molded from high dielectric low-loss bakelite. Steel saddle has 4 ground lugs. Mounts in 1" hole. $1\frac{1}{8}$ " mtg. centers.

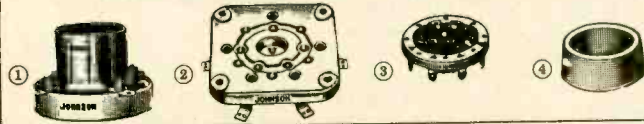
Stk. No.	Type	1-99 Ea.	100 For
17C713	8AB Black	\$0.10	\$6.60
17C714	8AM Mica	.13	8.40

All-Molded Type

Complete one-piece construction, body and saddle from a single casting. Has $1\frac{1}{8}$ " mtg. centers. Fits in 1" hole.

Stk. No.	Type	1-99 Ea.	100 For
17C715	8XB Black	\$0.09	\$5.80
17C716	8XM Mica	.13	8.80

JOHNSON TRANSMITTING TUBE SOCKETS



Bayonet types have porcelain bases, glazed top and sides, cad. plated phosphor bronze contacts, nickel plated hardware, etched aluminum bayonet shells. Wafer types have glazed steatite base and plated brass contacts with steel reinforcing springs.

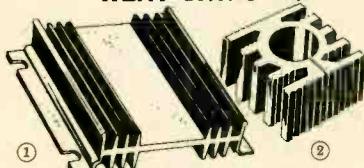
Stk. No.	Johnson No.	Description	Fits Tube Types	Net Ea.	
①	12A174	123-209-1	4 P. Med. Bayonet	866A, 811A	\$1.75
①	12A175	123-211-1	4 P. Jumbo Bayonet	203A, 810, 872A, 250TH	2.30
①	12A571	122-275-1	5 P. Giant Wafer	4-125A, 4-250A, RK48	2.35
①	12A173	122-237-1	7 P. Giant Wafer	4E27, 813, HK257	1.40
②	20B803	124-109-1	Kel-F Plastic	4X150A, 4X250B	5.30
④	20B804	124-111-1	Steatite Air Chimney for above		.45

CINCH AC SOCKET



Fits standard AC plugs. UL rated 15 A., 110 V. Mounts in $\frac{11}{16}$ " x $\frac{11}{16}$ " hole. Mounting centers $1\frac{1}{8}$ ". Type 2R2. No. 12A899. Net Each. 19c 100 For. . . . \$12.60

HEAT SINKS FOR SEMI-CONDUCTORS



Designed specifically for power transistors and diodes. Permits safe operation of units at high power levels, or high ambient temperatures.

① Heavy gauge aluminum, black or anodized finish. All are $4\frac{1}{2}$ " wide, 1" high. Punched units have mounting holes for transistor size shown.

Stk. No.	Length	Finish	1-9-Ea.	10-24 Ea.	25-49 Ea.
① 12C322	3"	Plain, Unpunched	\$0.85	\$0.75	\$0.63
① 12C328	3"	Anodized, Unpunched	1.17	1.10	.88
① 12C330	6"	Plain, Unpunched	1.30	1.25	1.10
① 12C333	6"	Anodized, Unpunched	1.90	1.85	1.50
① 12C370	3"	Plain, Sgl.-Punched for TO-3	1.30	1.20	1.00
① 12C371	3"	Anodized, Punched for TO-36	1.65	1.50	1.25
① 12C376	6"	Plain, Sgl.-Punched for TO-3	1.85	1.70	1.45
① 12C378	6"	Anodized, Single-Punched	2.40	2.25	1.88

NEW 1/2" SQUARE DESIGN

Type 20. Achieves more cooling in less space than radial fin types. Slotted to allow fast, precise production mounting. Precision fit assures maximum heat transfer between case and cooler.

Stk. No.	Mfg. No.	Fits Transistors	1-49 Ea.	50-99 Ea.	100 Up
12C393	TR101	TO-5, 9, 11, 12, 16, 29, etc.	\$0.25	\$0.23	\$0.19
12C399	TR118	TO-18	.25	.23	.19

Z5 SILICON HEAT SINK COMPOUND

Conducts heat from transistor, stud rectifier, etc. to chassis. 1 oz. tube. No. 11C31. GC#8101. Each. \$2.00

TRANSISTOR SOCKETS, DIODE HOLDER



RECTANGULAR TRANSISTOR SOCKETS

Low loss phenolic with push-on mtg. ring. Contacts are beryllium copper, silver plated.

No. 14B332. 3-Prong. Cinch Type 2H3. Each. 21c 100 Each. . . . 14c
No. 17A1056. 5-Prong. Cinch Type 2H5. Each. 23c 100 Each. . . . 15c

② Cinch Universal Socket. For use with any transistor with 3 pins. Gold plated copper contacts. Snap-in P.C. mount. No. 14A246. Cinch 7-UTS. Net Each. 68c 100 Each. . . . 45c

③ Cinch All-Molded Socket, fits triangular base .2 x .1" centers, or 3-contact in-line .048 x .192 contact centers. Bakelite with phosphor bronze contacts. No. 14A247. Cinch 2TS-4. Net Each. 15c 100 Each. . . . 11c

④ Diode Holder. Has plated brass spring shaped clips to support most diodes. No. 14B336. Net Each. 9c 10 Each. 8c

⑤ Cinch Integrated Circuit Socket. 10 lead. No. 12A240. Cinch 10-1CS. Each. 63c 25 Each. 52c

POWER TRANSISTOR SOCKETS & HEAT SINKS



POWER TRANSISTOR SOCKETS

Wafer type for 2-prong power transistors with $\frac{7}{8}$ " spacings. Has grounding strap which acts as heat sink. Size $1\frac{1}{8}$ " x $1\frac{1}{8}$ ". Fits TO-3 outline transistors.

No. 14A337. Cinch Type 2TS-1. Each. 9c 100 Each. . . . 6c
Same as above except has two mtg. eyelets for easier chassis mounting. No. 14A338. Cinch Type 2TS-2. Each. 11c 100 Each. . . . 8c

⑦ Molded Socket for all power transistors taking E-3 or E-4 base designation. Bakelite base, phosphor bronze contacts. Mounting ctrs. .425. No. 14A248. Cinch 2TS-3. Net Each. 9c 100 Each. . . . 7c

HEAT SINKS

Anodized aluminum insulator wafers for use with power transistors. Have high thermal conductivity and high resistance.

For 2N179, 2N176, etc. power transistors. $\frac{7}{8}$ " x $\frac{7}{8}$ " 4-hole type. No. 12A53. Cinch Type 2W-1. Net Each. 25c 50 Each. . . . 21c

For 2N174, etc. power transistors. $1\frac{1}{2}$ " x $1\frac{1}{2}$ " centers. Center bolt hole. No. 12A46. Cinch Type 2W-2. Net Each. 25c 50 Each. . . . 21c

For 2N389, etc. power transistors. $\frac{7}{8}$ " x $\frac{3}{8}$ " centers. No. 12A47. Cinch Type 2W-3. Net Each. 25c 50 Each. . . . 21c

PRINTED CIRCUIT SOCKETS



① THRU PANEL WIRING TYPE	Stk. No.	Cinch Type	Ea.	10 Ea.
7-Min.	14A356	7PC-B	9c	8c
Octal	14A358	8PC-B	10c	9c
9-Min.	14A359	9PC-B1	11c	10c

② WAFER SNAP-IN TYPE
Low loss tan phenolic sockets. For surface or thru panel wiring.

① SNAP-IN TYPE	Pins	Stk. No.	Eby Type	Ea.	10 Ea.
7-Min.	17B1053	PC7	15c	14c	
9-Min.	17B1054	PC9	18c	16c	

NUVISTOR, NOVAR & COMPACTRON SOCKETS



① 5-Pin Nuvistor Socket of low loss phenolic with steel mounting saddle for snap-in PC mounting. No. 14A355. Cinch Type 5NS. Net Each. 14c 100 Each. . . . 10c

② Same as above, but with conventional steel saddle mount. Mtg. holes fit #2 screw or 3/32" rivet. Top mounting. No. 17B785. Cinch Type 5NS-1. Net Each. 21c 100 Each. . . . 14c

③ 7-Pin Nuvistor Socket, of general purpose bakelite. Saddle mounting type. No. 14A1. Eby Type NU-7. Net Each. 78c 10 Each. . . . 70c

④ 9-Pin Novar Socket for new Novar tubes. Made of general purpose phenolic with bottom mount saddle. No. 14A2. Eby Type 9369. Net Each. 18c 10 Each. . . . 16c

⑤ 12-Pin Compactron Socket for new compactron tubes. Made of general purpose phenolic, bottom mount saddle. No. 14A573. Eby Type 9371. Net Each. 27c 10 Each. . . . 24c

CINCH WAFER TYPE SOCKETS

Laminated sockets made of high grade XP bakelite. Wafer is $\frac{1}{8}$ " thick with solder coated brass contacts. 7 and 9 pin sockets have center shield.



Stk. No.	Type	Mtg. Centers	Mtg. Hole	Net Each	100 For
12B405	7W2A	$\frac{7}{8}$ "	.098"	\$0.07	\$4.56
12B406	7WL2	$\frac{1}{8}$ "	.098"	.07	4.56
12B407	7WL4	$\frac{1}{8}$ "	.136"	.08	5.36

Stk. No.	Type	Mtg. Centers	Mtg. Hole	Net Each	100 For
12B408	9W1	$1\frac{1}{8}$ "	.098"	.09	5.60
12B409	9W2	$1\frac{1}{8}$ "	.136"	.10	6.20

Stk. No.	Type	Mtg. Centers	Mtg. Hole	Net Each	100 For
12B410	46-5-E	$1\frac{1}{8}$ "	.136"	.12	10.80
12B411	46-1-E	$1\frac{1}{2}$ "	.136"	.12	10.80

Jones Strips, Lugs, Grommets



JONES BARRIER STRIPS

① **SERIES 140.** Metal to metal spacing over bakelite $\frac{1}{4}$ ". Base $\frac{7}{8}$ " W x $\frac{3}{8}$ " H. $\frac{3}{8}$ " centers. Uses 5-40 x $\frac{1}{8}$ " binder head screws. Avg. shpg. wt. 3 oz.
Prices below are for one type only—not assorted.

Stock No.	Terms. & Type	1-4 Each	5-99 Each	100-249 Each	250-499 Per C	Stock No.	Terms. & Type	1-4 Each	5-99 Each	100-249 Each	250-499 Per C
12A1526	2-140	\$0.14	\$0.12	\$0.10	\$ 9.12	12A1533	12-140	\$0.67	\$0.56	\$0.45	\$42.56
12A1527	3-140	.20	.17	.13	12.54	12A1477	13-140	.73	.61	.48	45.98
12A1528	4-140	.25	.21	.17	15.96	12A1534	14-140	.79	.66	.52	49.78
12A1529	5-140	.31	.26	.20	19.38	12A1478	15-140	.84	.70	.56	53.20
12A1530	6-140	.35	.30	.24	22.42	12A1535	16-140	.89	.75	.60	56.62
12A1474	7-140	.41	.34	.27	25.84	12A1479	17-140	.94	.79	.63	59.66
12A1531	8-140	.46	.39	.31	29.26	12A1536	18-140	1.00	.83	.66	63.08
12A1475	9-140	.52	.43	.34	32.68	12A1480	19-140	1.05	.88	.70	66.50
12A1532	10-140	.57	.48	.38	36.10	12A1537	20-140	1.10	.92	.74	69.92
12A1476	11-140	.62	.52	.41	39.14	12A1481	21-140	1.16	.97	.77	73.34

① **SERIES 141.** Metal to metal spacing over bakelite $\frac{3}{8}$ ". Base $1\frac{1}{8}$ " W x $\frac{1}{2}$ " H. $\frac{3}{8}$ " centers. Uses 6-32x $\frac{1}{2}$ " binder head screws. Avg. shpg. wt. 5 oz.
Prices below are for one type only—not assorted.

Stock No.	Terms. & Type	1-4 Each	5-99 Each	100-249 Each	250-499 Per C	Stock No.	Terms. & Type	1-4 Each	5-99 Each	100-249 Each	250-499 Per C
12A1550	2-141	\$0.19	\$0.16	\$0.12	\$11.78	12A1557	12-141	\$.86	\$.72	\$.58	\$54.72
12A1551	3-141	.25	.21	.17	15.96	12A1456	13-141	.94	.78	.63	59.30
12A1552	4-141	.32	.27	.22	20.52	12A1417	14-141	1.00	.84	.67	63.46
12A1553	5-141	.39	.33	.26	24.70	12A1457	15-141	1.07	.89	.71	67.60
12A1554	6-141	.45	.38	.30	28.50	12A1418	16-141	1.14	.95	.76	72.20
12A1453	7-141	.53	.44	.35	33.40	12A1458	17-141	1.21	1.01	.80	76.40
12A1555	8-141	.59	.50	.40	37.62	12A1419	18-141	1.27	1.06	.85	80.56
12A1454	9-141	.66	.55	.44	41.80	12A1459	19-141	1.34	1.12	.90	85.10
12A1556	10-141	.73	.61	.49	46.36	12A1420	20-141	1.41	1.18	.94	89.30
12A1455	11-141	.80	.67	.53	50.50						

① **SERIES 142.** Metal to metal spacing over bakelite $\frac{1}{2}$ ". Base $1\frac{1}{8}$ " W x $\frac{3}{8}$ " H. $\frac{1}{2}$ " centers. Has 8-32x $\frac{1}{2}$ " binder head screws. Avg. shpg. wt. 6 oz.
Prices below are for one type only—not assorted.

Stock No.	Terms. & Type	1-4 Each	5-99 Each	100-249 Each	250-499 Per C	Stock No.	Terms. & Type	1-4 Each	5-99 Each	100-249 Each	250-499 Per C
12A1566	2-142	\$0.22	\$0.18	\$0.14	\$13.68	12A1572	10-142	\$.89	\$.75	\$.60	\$56.62
12A1567	3-142	.31	.26	.20	19.38	12A1452	11-142	.97	.81	.65	61.60
12A1568	4-142	.39	.33	.26	24.70	12A1573	12-142	1.06	.88	.70	66.88
12A1569	5-142	.47	.39	.31	29.64	12A1422	13-142	1.14	.95	.76	72.20
12A1570	6-142	.55	.46	.37	34.96	12A1423	14-142	1.22	1.02	.82	77.52
12A1439	7-142	.64	.54	.43	40.70	12A1424	15-142	1.31	1.09	.87	82.84
12A1571	8-142	.72	.60	.48	45.60	12A1425	16-142	1.39	1.16	.93	88.16
12A1442	9-142	.80	.67	.54	50.90	12A1426	17-142	1.47	1.23	.98	93.10

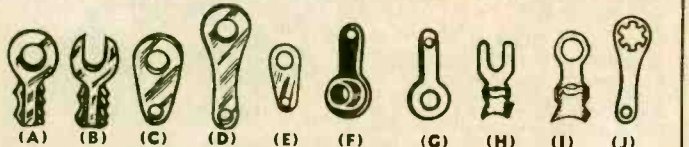


Bakelite strips handy for all types of circuit wiring. Solder coated steel lugs are spaced on $\frac{3}{8}$ " centers. Mfg. feet have .140" dia. holes. Types 1, 2, 3 have one mtg. foot and no ground lug; type 4 has two mtg. feet with no ground lug; type 5 has one mtg. foot and one ground lug; type 6 has two mtg. ft. and two ground lugs. "No. of lugs" below refers to total number of lugs on a strip, including ground lugs.

Prices below are for one type only—not assorted.

Stock No.	Cinch No.	Fig.	No. of Lugs	10 For	100 For	Stock No.	Cinch No.	Fig.	No. of Lugs	10 For	100 For
12A1256	51F	1	1	\$0.30	\$2.25	12A1270	55	4	5	\$0.60	\$4.50
12A1258	51T	2	1	.40	3.50	12A1273	56	4	6	.72	5.40
12A1260	52T	2	2	.62	4.55	12A1262	51A	5	2	.26	2.00
12A1263	53T	2	3	.76	5.70	12A1268	52A	5	3	.30	2.25
12A1261	51	3	1	.26	2.00	12A1275	53F	5	4	.40	3.00
12A1267	52	3	2	.30	2.25	12A1282	54C	5	5	.44	3.30
12A1264	53E	3	3	.40	3.00	12A1274	53A	6	5	.64	4.80
12A1265	54B	3	4	.48	3.60	12A1257	54A	6	6	.68	5.10
12A1266	53	4	3	.58	4.75	12A1283	55A	6	7	.60	4.50
12A1269	54	4	4	.62	4.65	12A1259	56A	6	8	.72	5.40

SOLDERING LUGS



No.	Type	Lgth.	Hole	100	1000	No.	Type	Hole	100	1000	
12A1286	A	$\frac{5}{8}$ "	6-8	1.11	8.92	12A1294	H	$\frac{7}{8}$ "	8	\$1.11 \$8.92	
12A1287	B	$\frac{5}{8}$ "	8	1.29	13.00	12A1296	I	$\frac{1}{8}$ "	10	1.40 10.15	
12A1288	C	$\frac{5}{8}$ "	6-8	.95	7.40	12A1297	I	$1\frac{1}{8}$ "	$\frac{1}{4}$	2.40 18.67	
12A1289	D	$\frac{5}{8}$ "	6-8	1.80	11.64						
12A1290	E	$\frac{5}{8}$ "	6	.84	6.84						
12A1293	F	$\frac{1}{2}$ "	Rivet	1.09	8.88						
12A1291	G	$\frac{1}{2}$ "	4-6	1.09	8.88						

(J) SHAKEPROOF TYPE
Stock Hole 10 Pkg. Pkg.
No. Size For of 100 of 1000
12A1298 4 29c \$2.20 \$18.00
12A1299 6 29c 2.20 18.00
12A1300 8 29c 2.20 18.00

B-A BARGAIN SPECIAL
No. 18A1144. 50 Assorted..... 88c

② **JONES NO. 2000 TERMINAL STRIPS**
Terminal .019" brass, tin plated—compact and sturdy junction terminal strip. Useful in assembling radio chassis, wiring, etc. Insulation: bakelite. Brackets: steel, cadmium plated. Terminals spaced on $\frac{3}{8}$ " centers.

Stock No.	Terms. & Type	1-49 Each	50-99 Each	100-249 Per C	250-499 Per C	Stock No.	Terms. & Type	1-49 Each	50-99 Each	100-249 Per C	250-499 Per C
12A1582	2-2002	\$0.07	\$0.06	\$4.40	\$4.18	12A1587	8-2008	\$.12	\$.10	\$8.00	\$7.60
12A1583	3-2003	.07	.06	4.80	4.56	12A1461	9-2009	.13	.11	8.80	8.36
12A1584	4-2004	.08	.07	5.60	5.32	12A1588	10-2010	.14	.12	9.20	8.74
12A1585	5-2005	.09	.08	6.00	5.70	12A1462	11-2011	.15	.13	10.00	9.50
12A1586	6-2006	.10	.09	6.80	6.46	12A1589	12-2012	.16	.13	10.40	9.88
12A1460	7-2007	.11	.09	7.20	6.84	12A1463	13-2013	.17	.14	11.20	10.64

③ **ADAPTER SOLDER TERMINALS FOR JONES BARRIER STRIPS**
 $\frac{3}{4}$ " W. type lugs are for wiring above the chassis. "Y" type lugs are for wiring below the chassis. Avg. shpg. wt. 3 oz. per 100.

Stock No.	Type	Fit Strip	1-99 Each	100-499 Per C	500-999 Per C	Stock No.	Type	Fit Strip	1-99 Each	100-499 Per C	500-999 Per C
12A1434	3/4 W	140	\$0.03	\$2.20	\$1.98	12B1329	Y	140	\$0.03	\$2.20	\$1.98
12A1435	3/4 W	141	.04	2.95	2.65	12B1330	Y	141	.04	2.95	2.65
12A1436	3/4 W	142	.04	3.60	3.24	12B1331	Y	142	.04	3.60	3.24

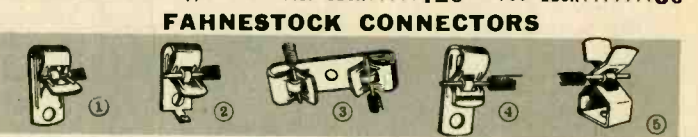
④ **CINCH SCREW TYPE TERMINAL STRIPS WITH SOLDER LUGS**
Ideal for chassis or breadboard layouts. Solder coated brass terminals. .136" dia. mtg. holes. Strips with 1 to 6 lugs are of $\frac{1}{8}$ " bakelite; 7 to 10 terminals mounted on $\frac{3}{8}$ " bakelite. Ends of screws are captivated to prevent removal. Terminals are spaced on $\frac{3}{8}$ " centers. Avg. shpg. wt. 1 oz.

Stock No.	Type & Lugs	Mtg. Centers	1-99 Each	100-999 Per C	1000 Up Per C	Stock No.	Type & Lugs	Mtg. Centers	1-99 Each	100-999 Per C	1000 Up Per C
12A1509	17-1	$\frac{3}{8}$ "	4c	\$ 2.00	\$ 1.90	12A1514	17-6	$\frac{3}{8}$ "	18c	\$ 9.10	\$ 8.65
12A1510	17-2	$\frac{1}{2}$ "	7c	3.40	3.23	12A1515	17-7	$\frac{3}{8}$ "	23c	11.30	10.74
12A1511	17-3	$\frac{1}{2}$ "	10c	4.80	4.56	12A1516	17-8	$\frac{3}{8}$ "	26c	12.80	12.16
12A1512	17-4	$\frac{2}{3}$ "	13c	6.24	5.93	12A1517	17-9	$\frac{4}{8}$ "	29c	14.30	13.59
12A1513	17-5	$\frac{2}{3}$ "	15c	7.70	7.32	12A1518	17-10	$\frac{4}{8}$ "	32c	15.80	15.00

⑤ **CINCH-JONES INSULATED PIN PLUG**
Nickel plated $\frac{1}{8}$ " brass tube pin $\frac{1}{8}$ " long assembled to $\frac{1}{4}$ " long black fibre insulator.

Stock No.	Type	1-99 Each	100-999 Per C	1000 Up Per C
12A1438	13C-1	14c	\$9.00	\$8.00

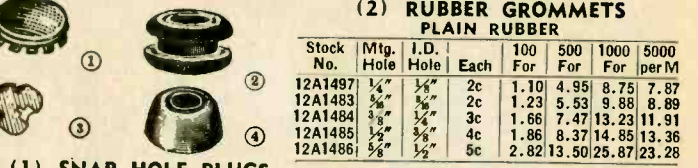
⑥ **SCREEN TYPE PLUG BUTTON**
Ideal for ventilating radios, transmitters, amplifiers or any electronic equipment where heat can build up. Bright zinc plated steel button snaps in 1" dia. hole. Shpg. wt. 1 oz. per 5.
No. 12B200. Cinch Type 41V. Net each.... 12c 100 Each..... 8c



Positive contact clips. *Bronze. All others are Brass. Avg. shpg. wt. 5 oz., per 100.

Illus. Fig.	Stock No.	Mfg. Type	Length	Width	Max. Wire	Mtg. Hole	1-9 Each	10 For	100 For	1000 For
(1)	12A1089	2	1"	$\frac{3}{8}$ "	#10	#8	4c	\$0.20	\$1.60	\$14.90
(1)	12A1090	10	$\frac{1}{2}$ "	$\frac{1}{8}$ "	#14	#6	4c	.15	1.27	11.48
(2)	12A1091	5	1"	$\frac{3}{8}$ "	#10	#8	5c	.35	2.55	22.95
(2)	12A927	15	$\frac{1}{2}$ "	$\frac{1}{8}$ "	#16	#4	4c	.20	1.55	14.18
(3)	12A1092	9	2"	$\frac{3}{8}$ "	#10	#8	17c	1.35	12.60	.....
(3)	12A1093	18	1"	$\frac{1}{8}$ "	#14	#6	14c	1.20	11.20	.....
(4)	12A1094	36	1"	$\frac{3}{8}$ "	#10	Lug	24c	1.80	16.80	.....
(5)	12A1095	45	$\frac{1}{2}$ "	$\frac{3}{8}$ "	#12	#6	5c	.35	2.55	22.95

RUBBER GROMMETS, PLUGS & BUMPERS



Stock No.	Mtg. Hole	I.D. Hole	Each	100 For	500 For	1000 For	5000 per M
12A1497	$\frac{1}{2}$ "	$\frac{3}{8}$ "	2c	1.10	4.95	8.75	7.87
12A1483	$\frac{3}{8}$ "	$\frac{1}{4}$ "	2c	1.23	5.53	9.88	8.89
12A1484	$\frac{3}{8}$ "	$\frac{3}{8}$ "	1c	1.66	7.47	13.23	11.91
12A1485	$\frac{1}{2}$ "	$\frac{3}{8}$ "	4c	1.86	8.37	14.85	13.36
12A1486	$\frac{3}{8}$ "	$\frac{3}{8}$ "	5c	2.82	13.50	25.87	23.28

(1) SNAP HOLE PLUGS

Stock No.	Fits Hole Dia.	Each	100 For	500 For	1000 For
12A1448	$\frac{3}{8}$ "	4c	2.40	10.00	16.00
12A1335	$\frac{3}{8}$ "	4c	2.40	10.00	16.00
12A1336	$\frac{1}{2}$ "	4c	2.40	10.00	16.00
12A1337	$\frac{1}{2}$ "	4c	2.40	10.00	16.00
12A1338	$\frac{3}{8}$ "	4c	2.40	10.00	16.00
12A1343	$\frac{1}{2}$ "	5c	3.00	12.50	20.00
12A1344					

Jones Connectors, Binding Posts

SERIES 300 CONNECTORS



Small in size with good separation between contacts, black bakelite insulation rated at 730 RMS volts at 10 amp.
24 to 33 contact connectors have special long polarizing pin for correct insertion. CSA approved. Average shipping weight 4 oz. When ordering specify both B-A Stock No. and Jones Type No.

300 SERIES PLUGS & SOCKETS CABLE TYPE WITH CLAMP

① PLUGS Stk. No. 12A179				② SOCKETS Stk. No. 12A179					
Cont. No.	Jones No.	1-49 Each	50-99 Each	100-249 Each	Cont. No.	Jones No.	1-49 Each	50-99 Each	100-249 Each
2	P302CCT	\$.46	\$.38	\$.30	2	S302CCT	\$.46	\$.39	\$.31
3	P303CCT	.49	.41	.32	3	S303CCT	.50	.42	.33
4	P304CCT	.53	.45	.36	4	S304CCT	.54	.45	.36
6	P306CCT	.59	.49	.39	6	S306CCT	.62	.52	.41
8	P308CCT	.65	.54	.43	8	S308CCT	.72	.60	.48
10	P310CCT	.73	.61	.48	10	S310CCT	.80	.67	.54
12	P312CCT	.79	.66	.53	12	S312CCT	.92	.77	.62
15	P315CCT	1.03	.86	.69	15	S315CCT	1.15	.96	.76
18	P318CCT	1.25	1.04	.83	18	S318CCT	1.36	1.14	.91
21	P321CCT	1.47	1.23	.98	21	S321CCT	1.58	1.32	1.05
24	P324CCT	1.73	1.45	1.16	24	S324CCT	1.86	1.55	1.24
27	P327CCT	1.97	1.64	1.31	27	S327CCT	2.08	1.73	1.38
30	P330CCT	2.29	1.91	1.53	30	S330CCT	2.40	2.00	1.60
33	P333CCT	2.45	2.05	1.64	33	S333CCT	2.57	2.14	1.71

CHASSIS TYPE WITH ANGLE BRACKETS

③ PLUGS Stk. No. 12A180				④ SOCKETS Stk. No. 12A180					
Cont. No.	Jones No.	1-49 Each	50-99 Each	100-249 Each	Cont. No.	Jones No.	1-49 Each	50-99 Each	100-249 Each
2	P302AB	\$.20	\$.17	\$.13	2	S302AB	\$.22	\$.18	\$.14
3	P303AB	.25	.21	.16	3	S303AB	.26	.22	.17
4	P304AB	.27	.23	.18	4	S304AB	.29	.24	.19
6	P306AB	.34	.28	.22	6	S306AB	.36	.30	.24
8	P308AB	.40	.33	.26	8	S308AB	.45	.38	.30
10	P310AB	.45	.38	.30	10	S310AB	.53	.45	.36
12	P312AB	.50	.42	.33	12	S312AB	.62	.52	.41
15	P315AB	.66	.55	.44	15	S315AB	.77	.64	.51
18	P318AB	.82	.69	.55	18	S318AB	.93	.78	.62
21	P321AB	1.03	.86	.69	21	S321AB	1.15	.96	.76
24	P324AB	1.25	1.04	.83	24	S324AB	1.36	1.14	.91
27	P327AB	1.47	1.23	.98	27	S327AB	1.58	1.32	1.05
30	P330AB	1.69	1.41	1.12	30	S330AB	1.81	1.51	1.20
33	P333AB	1.90	1.58	1.26	33	S333AB	2.02	1.68	1.34

CABLE TYPE WITH CLAMP-LOCKING

⑤ PLUGS WITH LATCH No. 12A183				⑥ SOCKETS WITH KEEPER No. 12A183					
Cont. No.	Jones No.	1-49 Each	50-99 Each	100-249 Each	Cont. No.	Jones No.	1-49 Each	50-99 Each	100-249 Each
2	P302CCT-L	\$.58	\$.49	\$.39	2	S302CCT-K	\$.59	\$.49	\$.39
3	P303CCT-L	.61	.51	.41	3	S303CCT-K	.62	.52	.42
4	P304CCT-L	.66	.55	.44	4	S304CCT-K	.67	.56	.44
6	P306CCT-L	.72	.60	.48	6	S306CCT-K	.74	.62	.50
8	P308CCT-L	.77	.64	.51	8	S308CCT-K	.83	.70	.58
10	P310CCT-L	.84	.70	.56	10	S310CCT-K	.94	.78	.62
12	P312CCT-L	.93	.78	.62	12	S312CCT-K	1.03	.86	.68

CHASSIS TYPE WITH FLUSH PLATE MOUNTING

⑦ PLUGS Stk. No. 12A199				⑧ SOCKETS Stk. No. 12A199					
Cont. No.	Jones No.	1-49 Each	50-99 Each	100-249 Each	Cont. No.	Jones No.	1-49 Each	50-99 Each	100-249 Each
2	P302-FP	\$.35	\$.29	\$.23	2	S302-FP	\$.35	\$.30	\$.24
3	P303-FP	.38	.32	.25	3	S303-FP	.40	.33	.26
4	P304-FP	.41	.35	.28	4	S304-FP	.43	.36	.28
6	P306-FP	.46	.39	.31	6	S306-FP	.49	.41	.32
8	P308-FP	.53	.44	.35	8	S308-FP	.58	.49	.39
10	P310-FP	.58	.49	.39	10	S310-FP	.67	.56	.44
12	P312-FP	.63	.53	.42	12	S312-FP	.75	.63	.50

⑨ CABLE TYPE PLUG

Cont. No.	Jones No.	1-49 Each	50-99 Each	100-249 Each
2	P302FHT	\$.34	\$.28	\$.22
3	P303FHT	.37	.31	.24
4	P304FHT	.41	.34	.27
6	P306FHT	.46	.39	.31
8	P308FHT	.53	.44	.35
10	P310FHT	.59	.50	.40
12	P312FHT	.67	.56	.45

⑩ CHASSIS TYPE SOCKET

Cont. No.	Jones No.	1-49 Each	50-99 Each	100-249 Each
2	S302DB	\$.52	\$.44	\$.35
3	S303DB	.56	.47	.37
4	S304DB	.59	.50	.40
6	S306DB	.67	.56	.44
8	S308DB	.75	.63	.50
12	S312DB	.92	.77	.62

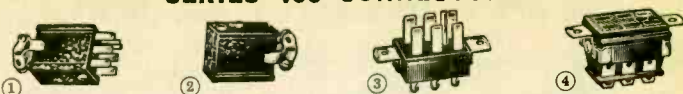
SERIES 202 PLUGS AND SOCKETS

Polarized, two-conductor connectors, ideal for mike and speaker connections. Knurled nut screws on to matching unit for positive locking connection. CCT has cable clamp, FHT has hole in cap, B mounts in chassis. Specify Stk. No. 12A181 and Jones No. when ordering.



Cont. No.	Jones No.	Type	1-49 Each	50-99 Each	100-249 Each
①	P202CCT	Cable Plug	\$.65	\$.54	\$.43
②	S202CCT	Cable Socket	.66	.55	.44
③	S202CCT-THR	Extension Socket	.88	.73	.58
④	P202FHT	Cable Plug Less Clamp	.52	.44	.35
⑤	S202FHT	Cable Socket Less Clamp	.53	.45	.36
⑥	S202B	Chassis Type Socket	.77	.64	.51
⑦	P202B	Chassis Type Plug	.74	.62	.49

SERIES 400 CONNECTORS



400 Series. Heavy duty polarized connectors for high power applications. Rated 1100 RMS volts at 15 amps. Plug prongs are 1/4" wide and 1/8" thick, made of phosphor bronze, "knife-switch" type connection. CCT caps are black crystal with fibre lining. Average shpg. wt. 6 oz. Specify B-A Stock No. and Jones Type No. when ordering.

CABLE TYPE WITH CLAMP

① PLUG, Stk. No. 12A176				② SOCKET, Stk. No. 12A176					
Cont. No.	Jones No.	1-49 Each	50-99 Each	100-249 Each	Cont. No.	Jones No.	1-49 Each	50-99 Each	100-249 Each
2	P402CCT	\$.78	\$.65	\$.52	2	S402CCT	\$.85	\$.71	\$.56
4	P404CCT	.95	.80	.64	4	S404CCT	1.08	.88	.70
6	P406CCT	1.12	.93	.74	6	S406CCT	1.28	1.07	.86
8	P408CCT	1.27	1.06	.85	8	S408CCT	1.51	1.26	1.00
10	P410CCT	1.43	1.20	.98	10	S410CCT	1.73	1.45	1.16
12	P412CCT	1.60	1.34	1.07	12	S412CCT	1.95	1.63	1.30

CHASSIS TYPE WITH ANGLE BRACKET

③ PLUG, Stk. No. 12A177				④ SOCKET, Stk. No. 12A177					
Cont. No.	Jones No.	1-49 Each	50-99 Each	100-249 Each	Cont. No.	Jones No.	1-49 Each	50-99 Each	100-249 Each
2	P402AB	\$.50	\$.42	\$.33	2	S402AB	\$.56	\$.47	\$.38
4	P404AB	.61	.51	.40	4	S404AB	.73	.61	.49
6	P406AB	.73	.61	.49	6	S406AB	.89	.74	.59
8	P408AB	.84	.70	.56	8	S408AB	1.05	.88	.70
10	P410AB	.95	.80	.64	10	S410AB	1.23	1.03	.82
12	P412AB	1.05	.88	.70	12	S412AB	1.39	1.16	.92

NU-WAY SNAP CONNECTORS

For Permanent or Temporary Circuits

Permits quick simple connection of wires. Nickel plated brass. Terminals snap together making positive contact. Any number of snaps can be pyramided together for multiple connections (as shown at right). Shpg. wt. 2 oz.

① Snaps—Snaps on to studs or lugs listed below. With crimp-on solder lug.

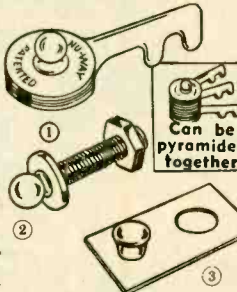
12A642, Ea. .10c 100 For. \$7.19 1M For. \$64.80

② Studs—With snap for use with snaps above. Mounts in chassis or panel. Size 6-32 x 1/2" long.

12A643, Ea. .7c 100 For. \$5.40 1M For. \$51.33

③ Lugs—Adapts screw type terminals or binding posts for use with above snaps. Size 3/4" x 3/8" x 3/32". Has hole for size 6 or 8 screws.

12A644, Ea. .7c 100 For. \$5.40 1M For. \$51.33



GRID & PLATE CAPS

Size 1/4" fits metal or GT tubes, size 3/8" fits std. glass tubes, also type 807, size 1/2" fits 866 and other transmitting types. Insulated types recommended for high voltage or transmitting tubes.

Stock No.	Size	Fig.	Each
12A1349	3/8" National	1	6c
18A220	1/2" National	1	6c
12A1350	1/2" National	2	5c
12A1356	1/2" Ins. Millen	3	24c
17A1041	3/8" Ins. Millen	3	27c
12A1357	Comb. 3/8-1/4"	4	18c

HIGH VOLTAGE GRID CAPS

For TV replacement. With 10" wire leads. No. 14B497, 3/8" Cap. No. 14B498, 1/2" Cap. Choice Each . . . 27c

5-WAY COMBINATION POST

Smith No. 269 Dual. Molded black styrene. Mounts in two 1/2" holes 3/4" centers. 15 amp rating. No. 12B744, Each. 68c 10 Each. 60c

BINDING POSTS



① H. H. SMITH NO. 266 1/2" dia. bakelite head, 8/32" brass threaded insert. Red or black. 12A619, Each. 18c

② H. H. SMITH NO. 257 Molded Nylon, 5-way connections. Brass inserts head & washer. Metal insulated from chassis. For panels 1/2" to 1/4" w. a.c. Red or Black. No. 12A603, Ea. 35c 10, Ea. 29c

③ H. H. SMITH NO. 386 5-way connection insulated post of molded Butyrate. 1/2" dia. Mounts in 1/4" hole. 15 amp. No. 12B742, Black Each 10 Ea. No. 12B743, Red \$.25 \$.22

④ NATIONAL FWH Low-loss for high frequency. Mounts on any panel. Take banana plugs at top, guy wire at bottom. No. 17A1068, Each. \$1.10

⑤ MILLEN 37001 HV Black bakelite insulated bushing extends through chassis. Single conductor fully enclosed. 1/2" dia. mtg. hole. No. 17A1067B Black Each. 45c No. 17A1067R Red Each. 48c

⑥ EBY BINDING POST Ensign No. 38. Non-removable top. 1/2" dia. head 6-32 x 3/8" L. stem. 1 1/2" H. Insulated shoulder for centering. Mounts in 1/4" hole. No. 12A1030, Each. 45c

⑦ SUPERIOR DF30 5-WAY BINDING POSTS Five ways to connect: (1) banana jack in top; (2) clip lead to shaft; (3) wire around shaft and clamp; (4) wire to 12 gauge clamped through center hole; (5) clamped spade lug connection, plus new solder tip on bottom—nylon plastic insulation, all brass parts GOLD-plated. Rating 30 amps 1000 volts. Availability of 6 colors provides more attractive panels and easier circuit identification. Mounts in panels 1/8" to 1/4" thick. Has 10-32 threaded stem with 2 hex nuts. Overall length 1 1/8", 3/8" dia. Specify color: Red, Black, Green, Yellow, White, or Blue. No. 12B600, Choice Each. 40c 100, Each. 34c

Switchcraft, Mallory Plugs & Jacks

TOP QUALITY SWITCHCRAFT PLUGS AND JACKS



SWITCHCRAFT "LITTEL PLUG" TYPE

Small size phone plugs fit standard 1/4" phone jack, except Nos. S-250, S-260, S-280 and S-290 which have a .206" dia. sleeve for .210 jacks. No's. C-240, C-245 and C-270 have cable clamp and screw terminals. *R-280 has short handles for Revere Recorders. Solder terminal types have cable clamp. Shielded handles are nickel plated brass; others are molded plastic; 5/8" long, 1/2" dia. Shpg. wt. 2 oz. †Screw terminals, others solder terminals.

Fig.		Stock No.	Mfg. No.	Handle	Typical Mating "Littel-Jax" 1-24	Prices Each			
						25-49	50-99	100 Up	
①	①	12B252	240†	Black	11	\$0.45	\$0.41	\$0.35	\$0.31
①	①	12B341	C-240†	Black	11	.54	.48	.41	.36
①	①	12B253	245†	Red	11	.45	.41	.35	.31
①	①	12B342	C-245†	Red	11	.54	.48	.41	.36
①	①	12A440	250	Black	11	.42	.38	.33	.29
①	①	12B111	S-250	Black	S-11	.45	.41	.35	.31
①	①	12A441	255	Red	11	.42	.38	.33	.29
②	②	12B254	270†	Shield	11	.63	.54	.46	.41
②	②	12B343	C-270†	Shield	11	.72	.65	.56	.49
②	②	12A442	280	Shield	11	.60	.50	.43	.38
②	②	12B114	S-280	Shield	S-11	.60	.53	.46	.40
②	②	12C168	*R-280	Shield	11	.75	.58	.49	.43
3 CONDUCTOR TYPES									
①	①	12B336	260†	Black	12B	.72	.66	.56	.49
①	①	12B337	S-260†	Black	S-12B	.99	.93	.80	.70
①	①	12A447	267	Black	12B	.63	.58	.50	.44
①	①	12C169	269	Red	12B	.63	.58	.50	.44
②	②	12B338	290†	Shield	12B	.84	.76	.65	.57
②	②	12B339	S-290†	Shield	S-12B	1.11	1.05	.90	.79
②	②	12A448	297	Shield	12B	.78	.73	.63	.55

SWITCHCRAFT "FLAT PLUGS"

1/4" phone plugs featuring flat, space-saving handles, for use where conventional plugs protrude too far. No's. 220, 225 have adaptor clips to clamp standard phone tips. No's. 228 and 238 are shielded, others have plastic handles. S-230 and S-235 have .206" dia. sleeve. †Screw terminals, others solder terminals.

Fig.		Stock No.	Mfg. No.	Handle	Typical Mating Jack 1-24	Price Each			
						25-49	50-99	100-Up	
③	③	12B203	220†	Black	11	\$0.54	\$0.49	\$0.41	\$0.36
③	③	12B204	225†	Red	11	.54	.49	.41	.36
③	③	12B236	227	Black	11	.51	.43	.37	.33
③	③	12B108	228	Shield	11	.57	.52	.44	.39
③	③	12B237	229	Red	11	.51	.43	.37	.33
3 CONDUCTOR TYPES									
③	③	12B205	230†	Black	12B	.78	.72	.61	.54
③	③	12A292	S-230†	Black	S-12B	1.05	.97	.83	.73
③	③	12B107	S-235†	Red	S-12B	1.05	.97	.83	.73
③	③	12C209	237	Black	12B	.85	.68	.59	.51
③	③	12C207	238	Shield	12B	.84	.77	.66	.57

Rugged jacks feature cable anchor. 1 1/4" O.D., 2 1/2" long; 121 and 131 are 1/2x2 1/2". S-830, S-1230, and S-128 have .210" I.D.; all others 1/4". †Indicates screw terminal, others solder.

Fig.		Stock No.	Mfg. No.	Handle	Typical Mating Plug 1-24	Prices Each			
						25-49	50-99	100 Up	
①	①	12C229	80†	Black	250	\$0.69	\$0.63	\$0.54	\$0.47
①	①	12C282	88	Black	250	.60	.53	.45	.39
②	②	12C277	120†	Shield	270	.93	.83	.71	.62
②	②	12C283	121	Shield	270	.96	.88	.76	.66
②	②	12C284	128	Shield	270	.84	.74	.64	.56
②	②	12C285	S-128	Shield	S-250	.90	.83	.71	.63
3 CONDUCTOR TYPES									
③	③	12C286	131	Shield	290	1.20	1.13	.97	.85
③	③	12C278	830†	Black	267	.93	.83	.71	.62
③	③	12C279	S-830†	Black	480	1.20	1.13	.97	.85
③	③	12D263	838	Black	267	.84	.74	.64	.56
③	③	12C280	1230†	Shield	290	1.17	1.07	.91	.80
③	③	12C281	S-1230†	Shield	480	1.50	1.40	1.20	1.05
③	③	12D265	1238	Shield	290	1.08	.95	.83	.72

THICK PANEL JACK

Standard 1/4" phone jack with extra long threaded bushing for mounting in panels up to 1 1/4" thick. Overall length 2 1/4"x5/8" dia. Mounts in 15/36" hole. Open circuit type. No. 151 mates with all standard 2 conductor plugs, 240 etc.; No. 152B with 3 conductor types, 260 etc.

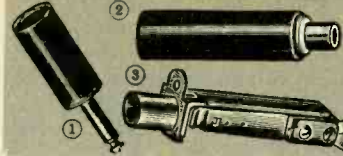
Stock No.	Mfg. No.	Conductors	1-24	25-49 Ea.	50-99 Ea.	100 Up Ea.
12B201	151	2	\$0.81	\$0.70	\$0.60	\$0.53
12B202	152B	3	.90	.78	.67	.59

SWITCHCRAFT "LITTEL-JAX" PHONE JACKS

Small economical standard jacks. Mount in single 3/8" hole, panels to 3/8" thick. No's. S-11 and S-12B have .210" I.D. sleeve, others mate with standard 1/4" plug. Wt. 1 oz.

Stock No.		Mfg. No.	Circuit	Typical Mating Plug 1-24	Prices Each			
					25-49	50-99	100 Up	
12A396	11	Open	250	\$0.24	\$0.19	\$0.16	\$0.14	
12B347	S-11	Open	S-250	.27	.23	.20	.18	
12A397	12A	Closed	250	.27	.23	.20	.18	
3 CONDUCTOR TYPES								
12A398	12B	Open	267	.33	.30	.25	.22	
12B340	S-12B	Open	480	.39	.36	.31	.27	

MALLORY PLUG & JACKS



Screw terminal 2-cond. plug and jack, will take wire or phone tips. Both have bakelite shell.

Fig. Stk. No.	Type	Each	10 Ea.
①	12A361 75-Plug	\$0.45	\$0.40
②	12A365 100-Jack	1.08	.97
③	Aircraft Grounding Jack. Takes standard 1/4" phone plug. Open circuit like A1 in diagram at right. Extends 1 1/2" behind panel. Type GJ-1.	12B364. Each...	.36c 10 Each... .32c

MALLORY HEAVY-DUTY MILITARY TYPE JACKS



Open circuit like A1 in diagram at right. Fits standard plugs. Type SC1A. No. 12A384. Ea. .36c, 10, Ea. .32c. Type JJ-034. Meets JAN-J-641 specs. No. 12B15. Ea. .39c, 10, Ea. .35c. Three-conductor like 702B in diagram at right. For plugs WE109, PJ-068, PL68, PL168, etc. (For .206" dia. plugs.) Type SCA2B. No. 12A385. Ea. .42c, 10, Ea. .38c. Type JJ-033. Meets JAN-J-641 specs. No. 12B14. Ea. .48c, 10, Ea. .43c.

MALLORY MIDGET & JUNIOR 1/4" JACKS



④ MIDGET JACKS. Compact. Width 5/8". Extends 1 1/2" behind panel. Mounts in 3/8" hole.

⑤ JUNIOR JACKS. Short frame type. Size 3/4" High, 1 1/4" Wide. Mounts in 3/8" hole. Extends 1 1/4" back of panel.

Model	Stock No.	Each	10 Ea.
Midget A1	No. 12A381	33c	30c
Midget A2	No. 12A382	48c	43c
Midget A2A	No. 12A383	57c	51c
Junior 702B	No. 12A379	57c	51c
Junior 703B	No. 12A380	60c	54c
Junior 704B	No. 12A306	69c	62c
Junior 705	No. 12A377	75c	68c

MILITARY PLUGS AND JACKS



Meets MIL specs. No. MIL-P-642A. High quality black plastic handle, with lug terminals attached internally with brass screws. PJ-309 has phenolic handle held in place with brass set screw. Shpg. wt. 2 oz.

Fig. Stk. No.	Type	MIL No.	Shaft Dia.	No. Cond.	Net Ea.	10 Ea.
①	18B155	440	PJ-055B 1/4"	2	\$0.84	\$0.76
②	12A449	480	PJ-068 .206"	3	2.16	1.95
③	12B344	484	PJ-309 .206"	3	2.16	1.95

MILITARY TYPE PLUGS

Conform to MIL-J-641A specs. Brass nickel-plated frame, with springs of special alloy of tempered nickel silver. Shpg. wt. 1 oz.

Stk. No.	Type	MIL No.	I.D.	No. Cond.	Circuit	Net Ea.	10 Ea.
12B345	C-11	JJ-034	1/4"	2	Open	\$0.36	\$0.33
12B346	C-12A	JJ-089	1/4"	2	Closed	.45	.42
12A451	C-12B	JJ-033	.210"	3	Open	.42	.39

Two-conductor, precision cord connectors. Molded plastic case cements together. Size 1/2" W. x 3/8" T. x 1 1/4" L.

TRANSISTOR RADIO PLUGS AND JACKS

Only 1/2 size of "Littel-Jax" and "Littel-Plugs". Jack mounts in 1/4" hole in panels up to 1/8" thick. Plug is 2-cond. Dia. 3/8" at shell, length 1 3/8" overall. For 3/8" or smaller cable.

Stk. No.	Type	MIL No.	Plug Jack	Each	10 Ea.
12A289	410	PJ291		\$0.36	\$0.33
12A290	810	JJ048		.48	.44

WITH SCREW TERMINALS

① No. 12B426. Type 41. Open Circuit Jack. Each... 24c 10, Each... 22c

② No. 12B427. Type 42A. Closed Circuit Jack. Each... 27c 10, Each... 24c

WITH SOLDER TERMINALS

No.	Type	Each	10 Ea.
12B420	740 Blk. Tennite	.45c	12B423 750 Blk. Tennite. Ea... 42c
12B421	745 Red Tennite	.45c	12B424 755 Red Tennite. Ea... 42c
12B422	770 Brass N.P.	.63c	12B425 780 Brass, N.P. Ea... 60c

"MICRO" PLUG AND JACK

Ultra-miniaturized version of Tini-plugs above. Plug is 1 1/8" long, 1/4" O.D. with .097" dia. finger. Jack is 1 1/2" long, mounts in 3/8" hole on panels up to 3/8" thick. Both 2-cond. Jack is closed circuit.

② No. 12A287. 850 Black Plug. Each... 45c

① No. 12A288. TR-2A. Jack. Each... 27c

SWITCHCRAFT HI-D JAX

New smaller, more compact phone jacks, mate with standard 1/4" phone plugs. Mated box body protects integral silver-plated, nickel silver springs. Low contact resistance and electrical leakage with little capacity between springs. Mounts in 3/8" O.D. hole in panels up to 3/8" thick. Shpg. wt. 1 oz.

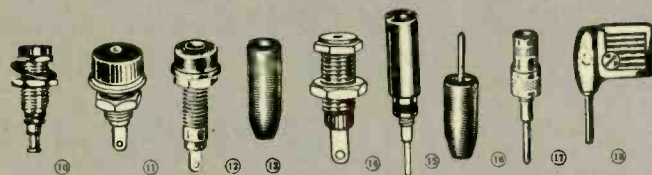
Stock No.		Mfg. No.	Circuits	Typical Mating Plug 1-24	Price Each			
					25-49	50-99	100 Up	
12D296	111	Open	250	\$0.24	\$0.19	\$0.16	\$0.14	
12B352	112A	Closed	250	.27	.23	.20	.18	
3 CONDUCTOR TYPES								
12B353	112B	Open	267	.30	.23	.19	.17	
12B362	113B	Tip Circuit Closed	267	.35	.30	.25	.26	

Plugs - Jacks - Clips

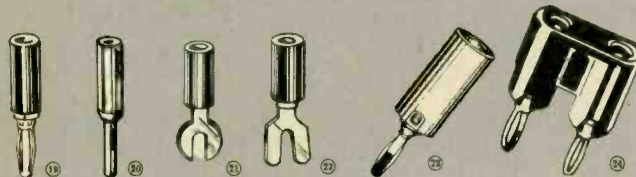
BANANA PLUGS & JACKS



PHONE TIP PLUGS & JACKS



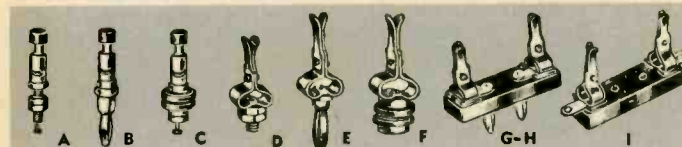
ASSORTED CONNECTORS



MANUFACTURERS ABBREVIATIONS USED BELOW: HS for Herman H. Smith, EJ for E. F. Johnson, S for Switchcraft and E for EBY. Shpg. wt. 2 oz. **DESCRIPTIVE ABBREVIATIONS:** BP for banana plug, BJ for banana jack, TP for tip plug, TJ for tip jack, PP for phono plug, PJ for phono jack and I for insulated. All jacks will mount in panels up to 3/8" thick except HS240 (to 1/2") and HS206 (to 5/8"). Herman Smith insulated types are stocked in Red, Black, Green and Yellow. E. F. Johnson types stocked in White, Red, Black, Green and Yellow. Please specify both B-A Stock Number and Color

Illus. Fig.	Stock No.	Mfg. Type	Mtg. Hole	Over. Lgth.	Description	Each 1-9	Each 10-49	Each 50-99	100 up per 100
(1)	12A1048	HS205	3/8"	1 1/4"	BJ, Insulated head	\$0.14	\$0.13	\$0.12	\$11.53
(2)	12A681	EJ108	3/8"	1 1/4"	BJ, I Nylon, 900 Series	.11	.10	.09	8.89
(3)	12A1047	HS109	3/8"	1 1/4"	BJ, Brass Nickel Plated	.11	.10	.09	8.89
(4)	12A1045	HS100	1 1/2"	1 1/2"	BP, Bronze N. P., 6/32 screw	.18	.16	.15	13.50
(5)	12A1042	HS204	1 1/2"	1 1/2"	BP, I Solderless screw	.19	.17	.16	14.40
(6)	12A682	EJ108	1 1/2"	1 1/2"	BP, I Nylon, 300 Series	.21	.19	.18	16.87
(7)	12A1044	HS103	1 1/2"	1 1/2"	BP, Brass N.P. 6/32" thrd.	.18	.16	.15	13.50
(8)	12A901	HS211	1 1/2"	1 1/2"	BP, I, solder or solderless	.19	.17	.16	14.40
(8)	12A903	HS295	1 1/2"	1 1/2"	BP, I, solderless type	.22	.20	.19	17.80
(9)	12A624	HS255	1 1/2"	1 1/2"	BP, I, Meter, Red or Black	.36	.31	.29	26.00
(10)	12B904	HS150	1 1/2"	1 1/2"	TJ, Nylon Ins.	.28	.25	.20	19.50
(11)	12A1058	HS202	1 1/2"	1 1/2"	TJ, I Ph. Bronze contact	.14	.13	.12	11.53
(11)	12A900	HS240	1 1/2"	1 1/2"	TJ, I Nylon, 4000 V. AC	.18	.16	.15	13.50
(11)	12A694	EJ105	1 1/2"	1 1/2"	TJ, I Nylon, 300 Series	.14	.13	.12	11.53
(12)	12A1049	HS206	1 1/2"	1 1/2"	TJ, I & BJ, I Combined	.17	.15	.14	12.60
(13)	12A718	EJ105	1 1/2"	1 1/2"	TJ, I Nylon, 700 Series	.22	.20	.19	17.80
(14)	12A1057	HS107	1 1/2"	1 1/2"	TJ, Brass Nickel Plated	.11	.10	.09	8.89
(15)	12A1050	HS200	2 1/4"	2 1/4"	TP, I Solderless Type	.15	.13	.12	11.00
(16)	12A719	EJ105	1 1/2"	1 1/2"	TP, I Nylon, 300 Series	.16	.15	.14	13.33
(17)	12A1052	HS105	1 1/2"	1 1/2"	TP, Brass N.P. Solderless	.11	.10	.09	8.89
(18)	12A1055	HS235	1 1/2"	1 1/2"	TP, I, Meter, Red or Black	.27	.24	.22	19.50
(19)	12B905	HS295	1 1/2"	1 1/2"	BP, Ins. Solderless	.22	.20	.19	17.80
(20)	12A1085	HS158	1 1/2"	1 1/2"	Standard Phone Tip N.P. Brass	.03	.03	.025	2.06
(21)	12B909	HS400	1 1/2"	1 1/2"	Solder Type Red or Black	.12	.10	.09	8.89
(22)	12B915	HS218	1 1/2"	1 1/2"	Banana Plug-In Red or Black	.11	.10	.09	8.89
(23)	12A997	HS324	1 1/2"	1 1/2"	BP, I Solderless, Stack, Red or Black (Half of HS210 Below)	.48	.39	.36	34.58
(24)	12A996	HS210	1 1/2"	1 1/2"	Dbl. BP, Std. 3/4" Spacing, Solderless, will Stack BP's Red or Black	.72	.58	.54	51.84

GRAYHILL BINDING POSTS—TEST CLIPS



Illus. Fig.	Stock No.	Mfg. No.	Mtg. Hole	Lgth.	Description	Each 1-499	Each 500 Up
(A)	12B495	29-100	1 1/4"	1.48	Spring loaded. Brass, Red or Black	\$.35	\$.30
(B)	12B499	29-101	1.8	Adapts Banana Jack to Spring loaded post. Red or Black	.50	.44	
(C)	12C505	29-104	3/8"	1.48	Far chassis mtg. ins. Red or Black	.50	.44
(D)	12C507	2-0	1 1/4"	1.59	Panel mounted spring Test Clips	.20	.20
(E)	12B508	2-1	2.07	Banana adapter spring Test Clip	.35	.35	
(F)	12B509	2-4	3/8"	1.56	Ins. Mtg. Type	.35	.35
(G)	12B514	2-2	3/4"	1.40	Ctrs. Banana plug-in	1.40	1.40
(H)	12B515	2-7	Adj. Ctrs.	1.50	Banana plug-in	1.50	1.50
(I)	12C516	2-8	Panel Mtg.	.80	Sold. Term.	.80	.80

MUELLER CLIPS AND INSULATORS

TYPES MARKED WITH ASTERISKS (*) ARE COPPER. OTHERS ARE OF STEEL (Cadmium-Plated). "S" AFTER TYPE NUMBER INDICATES SCREW CONNECTORS, (+) INDICATES SOLDER TYPE. STANDARD PACKAGES 10 AND 100.



① "MINI-GATOR" CLIP

Small size for testing miniature and sub-miniature equipment.

No.	Type	Lgth.	Open	Each	10 For	100 For
12B1035	†30	1 1/8"	3/8"	\$0.07	\$0.49	\$4.20
12B1036	*†30C	1 1/8"	3/8"	.09	.61	5.30

② 34 SERIES MICRO-GATOR CLIPS

Has microscopic tip, no larger than a pin head. Makes firm connection on printed circuits, transistors and other tiny terminals. Separate insulators, use No. 36 listed below.

No.	Type	Lgth.	Open	Each	10 For	100 For
12A1069	34	1 1/8"	3/8"	\$0.06	\$0.41	\$3.60
12A1070	34C	1 1/8"	3/8"	.08	.53	4.60

③ WEE-PEE-WEE CLIP

Non-ferrous R.F. Clip. Ideal for coils and high frequency work.

No.	Type	Lgth.	Open	Each	10 For	100 For
12A1012	88	1 1/4"	3/8"	.24	1.67	14.30

④ ALLIGATOR CLIPS (Fit Banana Plugs)

No.	Type	Length	Open	Each	10 For	100 For
12B1026	†60	2"	3/8"	.07	.48	4.20
12A1006	60S	2"	3/8"	.08	.58	5.00
12A1007	*60CS	2"	3/8"	.12	.86	7.40

⑤ INSULATED ALLIGATOR CLIPS

Red or Black shank. Fits banana plugs.

No.	Type	Lgth.	Open	Each	10 For	100 For
12A1008	60HS	2 1/4"	3/8"	.12	.80	6.90
12A1009	*60CHS	2 1/4"	3/8"	.15	1.06	9.10

⑥ ALL-INSULATED ALLIGATOR CLIPS

Protects against shocks and shorts in compact equipment. Red or black.

No.	Type	Lgth.	Open	Each	10 For	100 For
12A1638	63	2"	1 1/4"	.19	1.30	11.00
12A1639	*63C	2"	1 1/4"	.22	1.50	13.00



⑦ "70" SERIES ALLIGATOR CLIPS

Utilizes card strain relief ears to prevent breakage of lead wire.

No.	Type	Lgth.	Open	Each	10 For	100 For
12A923	†70	1 1/4"	3/8"	.07	.42	3.60
12A924	70S	1 1/4"	3/8"	.08	.50	4.30
12A925	*70CS	1 1/4"	3/8"	.11	.77	6.60

⑧ CROCODILE CLIP

No.	Type	Lgth.	Open	Each	10 For	100 For
12A1010	85	2 1/8"	3/8"	.10	.71	6.10
12B1041	*85C	2 1/8"	3/8"	.19	1.30	11.20
12A1011	†85T	2 1/8"	3/8"	.25	1.73	14.80

*Copper. †Phone Tip on One Jaw

⑨ SOLID BRONZE CLIPS

Needle type makes a quick temporary contact through insulation.

No.	Type	Lgth.	Description	Each	10 For	100 For
12B1022	50-C	2 1/4"	Needle Type	.28	2.00	16.60
12B1023	51-C	2 1/4"	Less Needle	.20	1.37	11.80

⑩ BATTERY CLIPS WITH GRIP TEETH

No.	Type	Amps.	Lgth.	Open	Each	10 For	100 For
12A671	24A	25	2 3/8"	3/4"	.24	1.63	14.00
12A672	21A	50	4"	1 1/8"	.43	3.00	26.00

⑪ TEST CLIPS WITH MESH TEETH

No.	Type	Amps.	Lgth.	Open	Each	10 For	100 For
12A1000	45	5	1 1/2"	3/8"	.09	.60	5.00
12A1001	*45C	10	1 1/2"	3/8"	.14	1.00	8.50
12A1002	†48B	10	2"	3/8"	.12	.86	7.40
12A1079	*48C	20	2"	3/8"	.17	1.20	10.40
12A1003	†27	20	2 1/2"	5/8"	.15	1.00	8.60
12A1004	*†27C	40	2 1/2"	5/8"	.24	1.70	14.40
12A1078	†25C	75	3"	3/4"	.43	3.00	26.00

†Meshing Teeth on All 3 Sides of Jaws *Solid Copper

INSULATORS ONLY

Stk. No.	Type	For Clip	Each	10 For	100 For
12A674	23	21A	.40	2.80	23.70
12A673	26	24A	.21	1.50	13.00
12A1016	29	27, 27C	.13	.90	7.60
12B1037	32	30, 30C	.05	.30	2.50
12A1071	36	34, 34C	.05	.30	2.50
12A1014	47	45, 45C	.06	.40	3.50
12A1015	49	48B, 50C, 51C	.09	.65	5.40
12B1064	62	60S, 60CS, 60, 70S, 70CS, 70	.05	.35	3.00
12A1074	72	70, 70-S, 70-CS	.05	.35	3.00
12A1017	87	85, 85T, 85C	.06	.40	3.50

GRAYHILL INSULATED TEST CLIP

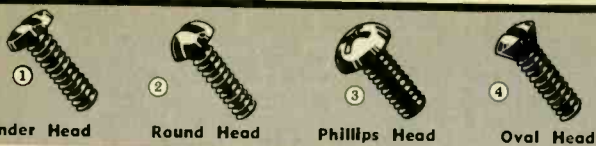
Completely insulated (including hinge pin), may be placed side-by-side without shorting. Terminal and tip of silver plated brass.

No. 12C517. Red or Black

Your Choice Each **85c**



Radio Hardware



MACHINE SCREWS

BRASS NICKEL PLATED
Bright finish—Rustproof. Non-Magnetic.

STEEL NICKEL PLATED
Bright finish—Rust-proof. Greater strength.

Please indicate B-A Stock No. and Quantity desired when ordering.
Weights, average per 100: 4-36, 4-40—3 oz.; 6-32—4 oz.; 8-32—6 oz.; 10-32—9 oz.; 1/4"—2 lbs.

(1) BINDER HEAD

4-36 Nickel Plated BRASS						4-40 Nickel Plated STEEL					
Brass Stock No.	Lgth. Inches	20 For	100 For	500 For	5000 Per M	Steel Stock No.	Lgth. Inches	20 For	100 For	500 For	5000 Per M
19B719	1/4"	.35	.79	3.14	5.69	19A706	1/4"	.24	.53	2.05	3.72
19B732	3/8"	.40	.90	3.65	5.98	19A708	3/8"	.25	.54	2.11	3.83
19B736	1/2"	.44	.99	3.84	6.99	19B774	1/2"	.27	.63	2.28	4.14

6-32 Nickel Plated BRASS

6-32 Nickel Plated STEEL

19B856	1/4"	.48	1.08	4.28	7.78	19A715	1/4"	.26	.59	2.17	3.94
19B863	3/8"	.53	1.20	4.61	8.39	19A718	3/8"	.27	.59	2.23	4.05
19B876	1/2"	.57	1.29	5.01	9.10	19A721	1/2"	.29	.63	2.56	4.65
19B877	3/4"	.70	1.59	5.93	10.79	19B727	3/4"	.33	.74	2.95	5.36
19B883	1"	.84	1.89	7.14	12.99	19B775	1"	.36	.80	3.14	5.70

8-32 Nickel Plated BRASS

8-32 Nickel Plated STEEL

19B882	1/4"	.70	1.62	6.26	11.38	19B781	1/4"	.34	.76	2.99	5.43	
19B760	3/8"	.74	1.68	6.37	11.59	19A746	3/8"	.30	.65	2.59	4.71	
19B886	1/2"	.94	2.39	10.32	18.75	16.88	19A750	1/2"	.32	.71	2.82	5.13
19B887	3/4"	1.12	2.54	10.71	19.49	17.54	19A754	3/4"	.37	.84	3.37	6.12
19B888	1"	1.18	2.79	11.20	20.36	18.32	19A759	1"	.45	1.01	3.97	7.22

(2) ROUND HEAD

2-56 Nickel Plated BRASS

2-56 Nickel Plated STEEL

19B703	3/16"	.32	.73	2.86	5.20	19A701	3/16"	.24	.52	2.05	3.72
19B997	1/8"	.31	.69	2.64	4.79	19A702	1/8"	.23	.51	1.93	3.50
19B982	3/8"	.33	.75	2.96	5.39	19B768	3/8"	.24	.52	2.06	3.75

4-36 Nickel Plated BRASS

4-40 Nickel Plated STEEL

19A1000	1/4"	.37	.84	3.43	6.23	19A707	1/4"	.25	.55	2.20	4.00	
19B710	3/8"	.41	.92	3.77	6.85	19A855	3/8"	.25	.57	2.29	4.27	
19A1001	1/2"	.46	1.05	4.18	7.61	6.95	19B771	1/2"	.26	.59	2.38	4.39
19A1002	3/4"	.55	1.24	5.02	9.11	8.20	19B772	3/4"	.29	.66	2.62	4.75

6-32 Nickel Plated BRASS

6-32 Nickel Plated STEEL

19B744	3/16"	.48	1.12	4.34	7.90	19A857	3/16"	.24	.54	2.20	4.00	
19A1003	1/8"	.47	1.08	4.23	7.69	19A995	1/8"	.25	.56	2.28	4.16	
19A1004	3/8"	.51	1.17	4.54	8.25	7.42	19A858	3/8"	.26	.60	2.45	4.47
19A1005	1/2"	.59	1.35	5.00	9.10	8.19	19A859	1/2"	.29	.66	2.64	4.80
19B745	3/4"	.66	1.49	5.49	9.99	8.99	19A860	3/4"	.30	.69	2.72	4.82
19A1006	1"	.68	1.56	5.89	10.69	9.62	19A723	1"	.31	.70	2.77	4.91
19A1007	1 1/4"	.83	1.92	7.04	12.80	11.52	19A733	1 1/4"	.35	.78	3.19	5.81
19B896	2"	1.67	3.78	14.58	26.49	23.84	19B1070	2"	.66	1.50	6.02	10.93

8-32 Nickel Plated BRASS

8-32 Nickel Plated STEEL

19A1010	3/8"	.71	1.60	7.03	12.79	11.51	19A870	3/8"	.28	.63	2.54	4.62
19A1011	1/2"	.79	1.79	7.16	13.02	11.72	19A751	1/2"	.31	.69	2.76	5.02
19A1012	3/4"	1.10	2.52	10.16	18.49	16.64	19B777	3/4"	.43	.99	3.87	7.04
19B898	1"	2.02	4.63	22.69	41.25	37.40	19B1071	1 1/2"	.75	1.68	6.71	12.21
							19B802	2"	.88	2.01	8.13	14.78

10-32 Nickel Plated BRASS

10-32 Nickel Plated STEEL

19B711	3/8"	.90	2.07	8.33	15.14	13.63	19A767	3/8"	.33	.75	3.03	5.50
19B712	1/2"	.92	2.12	8.71	16.17	14.42	19B1072	1/2"	.37	.83	3.33	6.05
19B720	3/4"	1.32	2.99	11.78	21.42	19.28	19A773	3/4"	.44	.99	3.98	7.24
19B729	1"	1.56	3.54	13.02	23.68	21.31	19B1074	1"	.51	1.15	4.66	8.47

1/4"-20 Nickel Plated STEEL

19A786	1"	.92	2.07	8.35	15.19	13.67	19B1078	2"	1.10	2.52	10.20	18.55
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(3) Phillips Round Head N.P. Brass

(4) Oval Head (Rack Screws) N.P. Steel

19B779	6-32-3/8"	.52	1.18	4.75	8.63	7.84	19A930	6-32-1/2"	.25	.57	2.28	4.14
19B780	6-32-1/2"	.66	1.49	6.02	10.93	9.94	19A931	8-32-1/2"	.33	.69	2.73	4.95
19B788	8-32-3/4"	.68	1.56	6.28	11.42	10.38	19A932	10-32-1/2"	.37	.86	3.28	5.96
19B787	8-32-5/8"	.97	2.21	9.38	17.05	15.34	19A933	10-32-3/4"	.44	.99	3.92	7.13

RADIO HARDWARE ASSORTMENT

Nuts, washers, grommets, springs, clamps, eyelets, screws, etc. A part to fill practically any occasional need. Very handy for workshop or tool box. Over 600 pieces contained in a clear plastic box. Shpg. wt. 2 lbs. No. 11A335. Net Each. . . . \$1.15

THREADED BRASS RODS

Ideal for making your own lang screws by cutting to any desired length. Supplied in 12" lengths. Shpg. wt. 3 oz.

No.	Size	Each	10 Ea.
19B805	6-32	\$2.6	\$1.7
19B807	8-32	.33	.22
19B809	10-32	.42	.28



(1) HEXAGON NUTS

BRASS NICKEL PLATED
Rustproof, Non-Magnetic. Avg. Wt. Pkg. 100, 6 oz.

STEEL NICKEL PLATED
Rustproof—greater strength

Stock No.	Size Inches	20 For	100 For	500 For	1000 For	5000 Per M	Stock No.	Size Inches	20 For	100 For	500 For	1000 For	5000 Per M
19A1026	2-56-3/8"	.29	.63	2.56	4.66	4.19	19B873	2-56-3/8"	.29	.66	2.45	4.47	4.02
19A1013	4-36-1/4"	.33	.76	2.74	4.97	4.47	19A789	4-40-1/4"	.26	.59	2.17	3.94	3.55
19A1014	6-32-1/4"	.35	.79	2.90	5.28	4.75	19B874	6-32-1/4"	.27	.60	2.19	3.99	3.59
19A1015	6-32-3/8"	.44	.99	3.97	7.22	6.50	19A792	6-32-3/8"	.28	.62	2.39	4.33	3.90
19A1016	8-32-1/2"	.35	.78	2.89	5.26	4.73	19A794	8-32-1/2"	.28	.62	2.39	4.33	3.90
19A1017	10-32-3/4"	.44	.99	3.94	7.15	6.43	19A897	10-32-3/4"	.33	.75	2.97	5.41	4.87
							19B798	1/4"-20-3/8"	.50	1.14	4.50	8.18	7.36

(2) MOUNTING NUTS

NICKEL PLATED STEEL
Rotary switch type is 1/8" wide. All others are 3/16" wide.

Stock No.	Type	Thrd.	20 For	100 For	500 For	1000 For
19C978	Rot. Sw.	1/4"-32	.95	2.15	9.44	17.16
19C985	Vol. Con.	3/8"-32	.70	1.62	7.08	12.87
19C987	Ml. Lite.	1/2"-27	1.61	3.63	15.97	29.04
19C990	Tog. Sw.	1/4"-32	.88	1.98	8.71	15.84

(4) ACORN NUTS

BRASS NICKEL PLATED. Wt. 100, 1 lb.

Stock No.	Size	20 For	100 For	500 For	1000 For
19A924	6-32	1.36	3.10	13.62	24.75
19A925	8-32	1.45	3.30	14.52	26.40
19A926	10-32	1.76	3.99	17.60	32.01

(5) WING NUTS

NICKEL PLATED STEEL. Wt. 100, 1 lb.

19A927	6-32	1.10	2.50	10.30	18.71
19A928	8-32	1.10	2.50	10.30	18.71
19A929	10-32	1.10	2.50	10.30	18.71



SELF-TAPPING METAL SCREWS

STEEL Cadmium Plated. Average shpg. wt. per 100, 6 oz.

(3) HEX HEAD (SLOTTED) BLUNT POINT

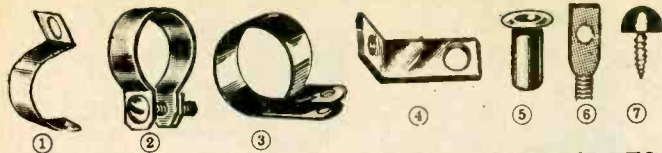
Stock No.	Size In.	20 For	100 For	500 For	1000 For	5000 Per M	Stock No.	Size In.	20 For	100 For	500 For	1000 For	5000 Per M
19A951	6x1/4 L.	.26	.60	2.41	4.38	3.94	19A949	6x1/4 L.	.26	.60	2.41	4.38	3.94
19A941	6x1/2 L.	.31	.69	2.75	4.99	4.49	19A950	6x1/2 L.	.31	.69	2.74	4.99	4.49
19A942	8x1/2 L.	.35	.81	3.29	5.98	5.38	19B1091	8x1/2 L.	.33	.75	3.05	5.54	4.99
19A943	8x3/4 L.	.42	.93	3.71	6.73	6.06	19A804	8x3/4 L.	.33	1.05	5.54	4.99	

(2) ROUND HEAD BLUNT POINT

19A944	6x1/4 L.	.26	.60	2.41	4.38	3.94	19A957	6x1/4 L.	.31	.66	2.71	4.93	4.44
19A945	6x1/2 L.	.31	.69	2.75	4.99	4.49	19A958	6x1/2 L.	.33	.75	3.00	5.46	4.91
19A1080	8x1/4 L.	.33	.75	3.05	5.54	4.99	19A959	6x3/4 L.	.35	.81	3.23	5.87	5.28
19A947	8x1/2 L.	.35	.81	3									

TV & Radio Hardware

ALWAYS NEEDED HARDWARE



① CABLE CLAMPS
Heavy gauge steel, cadmium plated. 3/8" wide with No. 6 mounting hole. Fits cable up to size shown.

No.	I.D.	Each	10 For	100 For
12A1303	1/4"	.21	1.40	11.14
12A1304	3/8"	.20	1.23	9.77

④ ANGLE BRACKETS
Hardened Brass, Nickel Plated, 3/8" W.

No.	Size	Each	10	100
12A1314	1/2 x 1/2"	\$.04	\$2.27	\$1.80
12A1315	5/8 x 5/8"	.07	.54	3.60

② CINCH CABLE CLAMPS
Brass nickel plated with 6-32 screw.

No.	I.D.	Each	10 For
12A1590	1/4"	\$.012	\$1.08
12A1591	3/8"	.13	1.17

⑤ G-C BRASS EYELETS
Specify B-A No. 19A1099 & G-C No. G-C Shank Length 100 1000

No.	Di.	Under Head For	For
7251	.087	1/8"	\$.032 \$2.62
7252	.087	3/16"	.41 3.30
7253	.087	1/4"	.54 3.70
7257	.123	3/8"	.58 4.60
7260	.123	1/2"	.61 4.83
7261	.123	3/4"	.62 4.91
7269	.182	.145	.37 2.93

③ NYLON CABLE CLAMPS
Hold their shape under severest stress. Stands temp. of -60 to 300 degrees F., do not support combustion.

No.	I.D.	Each	10 For	100 For
12A1098	1/8"	\$.04	\$2.28	\$2.34
12A1081	1/4"	.05	.30	2.48
12A1099	3/8"	.05	.35	2.82
12A1255	1/2"	.05	.39	3.32
12A1345	3/4"	.05	.38	3.13
12A1082	1/8"	.06	.42	3.48
12A1346	1/2"	.06	.42	3.52
12A1083	1/4"	.08	.69	5.54
12A1347	3/8"	.08	.67	5.54
12A1084	3/4"	.10	.84	6.92

⑥ SPADE MTG. BOLTS
Cadmium Plated. 6-32 screw end. 10 For 100 For 1000 For

12A1302	\$.019	\$1.25	\$10.20
19A1097 (8-32)	.44	3.22	25.74

⑦ RUBBER FEET
Accepts screws, nails, etc. For wood or metal cabinets (less screw).

Stk. No.	Size	12	100
12A1447	3/8" O.D. x 1/4" H.	35c	1.45
12A1465	1/2" O.D. x 1/4" H.	35c	1.91
12A1444	5/8" O.D. x 1/4" H.	45c	2.64

COMPONENT MOUNTING CLIPS

Permits fast, easy insertion of capacitors, resistors, lamps, batteries, etc. to chassis or panels. Holds firmly, yet allows easy removal. Made of strong black vinyl with high dielectric strength. Floor of clips are drilled for mounting.

Stk. No.	I.D.	Each	10 For	100 For	Stk. No.	I.D.	Each	10 For	100 For
12A1181	1/4"	7c	48c	\$3.78	12A1191	5/8"	8c	53c	\$4.23
12A1182	3/8"	7c	49c	3.93	12A1192	1 1/8"	9c	57c	4.61
12A1186	1/2"	7c	50c	3.98	12A1193	3/4"	9c	59c	4.71
12A1187	5/8"	8c	51c	4.05	12A1194	1 1/4"	9c	62c	4.92
12A1188	1 1/8"	8c	51c	4.10	12A1201	1 1/2"	11c	73c	5.75
12A1189	1 1/4"	8c	52c	4.17	12A1202	1 3/8"	12c	82c	6.54

PHENOLIC WIRE NUTS

Solderless screw-on connectors for securely joining stripped ends of wire together. All are UL approved except (*). Rated 300 volts except (*) 300-600 V. (1000 V. enclosed in fixtures).

Stock No.	Wire Combinations		25 For	100 For
	Minimum	Maximum		
19B1147*	2-#24	2-#18	25c	\$0.72
19B1129*	2-#18	3-#16	46c	1.44
19B1130*	1-#18 & 1-#16	5-#16	49c	1.50
19B1131	1-#14 & 1-#18	2-#12 & 1-#18	51c	1.58
19B1148	1-#14 & 1-#16	3-#10	92c	2.88

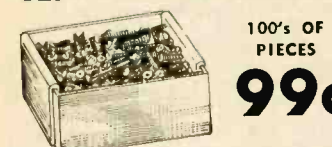
KIT of 169 WIRE NUTS above in compartmented plastic box. No. 19B1149. Shpg. wt. 1 lb. Per Kit. \$2.49

SCREWS & HEX NUTS



Always needed small hardware
Consists of 100 each 4-40x1/2" and 6-32x1/4" RH machine screws; 1/4" dia. 4-40, 6-32 and 8-32 hex nuts; 50 each 6-32x3/4" and 8-32x1/2" RH machine screws and 75 No. 6x1/2" sheet metal screws. \$3.29
No. 11A498. Per Assmt. \$3.29

2 LBS. OFTEN NEEDED SELF-TAPPING SCREWS



100's OF PIECES
99c
Handied hardware assortment you'll buy! A big variety of sizes and lengths in Hex, Phillips, Round, etc.—practically all head styles. 99c
No. 11B385. 2 Lb. Assmt. \$99c

RUBBER GROMMETS



High quality, tough black rubber. Approx. 50 pieces in popular sizes to fit holes from 1/4 to 3/8" dia. in metal panels. Big Savings! No. 18A509. 69c
Per Assortment, Special. \$69c

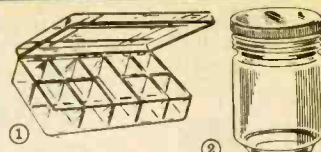
FOOT BUMPER KIT



16 PIECES
69c
Consists of 16 pieces, 4 sets of 4 matched bumpers. Includes recessed, tack and screw types, large and small. Mighty handy to have around. No. 18C23. 69c
Special Per Assmt. \$69c

HANDY STORAGE CONTAINERS

Keep small items neatly arranged, always ready for instant use—no more lost or misplaced items.



① AKRO-MILS CLEAR POLYSTYRENE BOXES

1001 uses: Electronic parts, screws and nuts, nails, fish hooks and lures, office supplies, coins, stamps, jewelry, buttons, thread, any small parts. Strong, rigid and scratch-resistant. retain high polish. *Indicates total number of compartments. All have hinged lids.

Stk. No.	Mfg. No.	*Comp.	Size of Compartments	Overall Size	Lbs.	Each
11A867	05-201	1	4 1/2 x 2 1/2 x 1"	4 3/4 x 2 3/4 x 1 1/8"	1 1/4	0.22
11A869	05-301	1	6 1/2 x 3 1/2 x 1 1/2"	6 3/4 x 3 3/4 x 1 3/8"	1 3/4	.42
11A965	05-401	1	8 1/2 x 4 1/2 x 1 1/2"	8 3/4 x 4 3/4 x 1 3/8"	1 3/4	1.20
11A966	05-501	1	10 1/2 x 5 1/2 x 2"	10 3/4 x 5 3/4 x 2 1/8"	1 3/4	.22
11A855	05-204	4	4-2 1/2 x 1 1/2 x 1"	4 3/4 x 2 3/4 x 1 1/8"	1 3/4	.49
11A857	05-406	6	6-4 1/2 x 1 1/2 x 1 1/2"	6 3/4 x 4 3/4 x 1 3/8"	1 3/4	.22
11A967	05-206	6	6-1 1/2 x 1 1/2 x 1"	6 3/4 x 1 3/4 x 1 1/8"	1 3/4	.42
11A968	05-306	6	6-1 1/2 x 3 1/2 x 1 1/2"	6 3/4 x 3 3/4 x 1 3/8"	1 3/4	1.27
11A969	05-506	6	6-1 1/2 x 5 1/2 x 2"	10 3/4 x 5 3/4 x 2 1/8"	1 3/4	.42
11A858	05-309	9	8-1 1/2 x 1 1/2 x 1 1/2"	8 3/4 x 1 3/4 x 1 3/8"	1 3/4	.49
11A866	05-412	12	6-1 1/2 x 1 1/2 x 1 1/2"	6 3/4 x 1 3/4 x 1 3/8"	1 3/4	.42
11A970	05-312	12	12-1 1/2 x 1 1/2 x 1 1/2"	12 3/4 x 1 3/4 x 1 3/8"	1 3/4	1.27
11A971	05-512	12	6-1 1/2 x 4 1/2 x 2"	6 3/4 x 4 3/4 x 2 1/8"	1 3/4	1.27
11A972	05-513	13	12-1 1/2 x 1 1/2 x 1 1/2"	12 3/4 x 1 3/4 x 1 3/8"	1 3/4	.49
11A859	05-418	18	18-1 1/2 x 1 1/2 x 1 1/2"	18 3/4 x 1 3/4 x 1 3/8"	1 3/4	1.27
11A864	05-518	18	18-1 1/2 x 1 1/2 x 2"	18 3/4 x 1 3/4 x 2 1/8"	1 3/4	1.27

② HANDY GLASS JARS WITH LIDS

For visible storage of small parts. Screw-on metal lid included.
5A190. 2-oz. 2 1/8" dia. x 1 3/4" H. 5A191. 4-oz. 2" dia. x 4" H.
Each... 14c Per Doz... \$1.26 Each... 15c Per Doz... \$1.38
Carton of 48... \$3.79 Carton of 48... \$4.14

③ CLEAR POLY JARS WITH LINED METAL LIDS

Made of extra thick heavy gauge shatterproof polystyrene affording years of re-useable service. Each jar comes with a lined screw-on black metal lid. These jars are ideal for storage of miscellaneous hardware and parts. They may even be used for storing various types powdered chemicals.

No. 11A224. 2.5 Oz. Jar complete with screw-on lid. Wt. 1 oz.	50 For	\$4.45	
Net Each	15c	10 For	99c
No. 11A225. 4.6 Oz. Jar complete with screw-on lid. Wt. 1 1/2 oz.	50 For	\$6.12	
Net Each	18c	10 For	\$1.38
No. 11A227. 8 Oz. Jar complete with screw-on lid. Wt. 2 oz.	50 For	\$8.15	
Net Each	25c	10 For	\$1.83

MOUNTING SPACERS

These bushings are ideal for use in raising sub panels, chassis condensers, transformers, spacing switch decks, breadboard mounting of sockets and other components, etc.

BRASS CADMIUM PLATED, NON-THREADED				③ Hexagonal					
① 1/4" O.D.—Hole for #6 Screw				② 3/8" O.D.—Hole for #8 Screw					
Stk. No.	Lgth.	Each	10 For	100 For	Stk. No.	Lgth.	Each	10 For	100 For
12A1173	1/4"	\$.05	\$3.37	\$3.30	12A1178	1/4"	\$.08	\$5.58	\$5.28
12A1174	3/8"	.07	.49	4.35	12A1179	3/8"	.09	.69	6.30
12A1175	1/2"	.08	.58	5.28	12A1180	1/2"	.11	.88	8.00
12A1176	3/4"	.09	.69	6.30	12A1248	3/4"	.14	1.20	10.90
12A1177	1"	.10	.79	7.20	12A1249	1"	.19	1.56	14.20

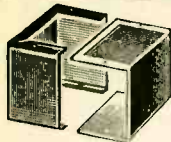
① INSULATED SPACERS				THREADED SPACERS					
Fibre bushings 1/4" O.D. with hole for #6 screw for raising condensers, coils, RF chokes, etc. Non-threaded.				① Brass Cadmium Plated. 1/4" O.D. Takes 6-32 screw.					
Stk. No.	Lgth.	Each	10 For	100 For	Stk. No.	Lgth.	Each	10 For	100 For
12A1250	1/4"	\$.07	\$4.33	\$3.90	12A1469	1/4"	\$.07	\$4.33	\$3.90
12A1251	3/8"	.08	.54	4.95	12A1470	3/8"	.08	.54	4.95
12A1252	1/2"	.09	.66	6.00	12A1471	1/2"	.09	.66	6.00
12A1253	3/4"	.10	.79	7.20	12A1472	3/4"	.11	.92	8.40
12A1254	1"	.12	.91	8.25	12A1473	1"	.13	1.14	10.40

ALUMINUM SPACERS			
Irridite protective finish. Meets MIL-C-5541 specs. Non-threaded.			
① 1/4" O.D. Hole for #6 screw.			
Stk. No.	Lgth.	Each	10 For
12A1368	1/4"	.14	1.16 10.50
12A1369	3/8"	.14	1.21 11.00
12A1370	1/2"	.16	1.30 11.75
12A1371	3/4"	.19	1.57 14.25
12A1372	1"	.20	1.65 15.00

② 1/4" Hex. Hole for #6 screw.			
Stk. No.	Lgth.	Each	10 For
12A1373	1/4"	.14	1.21 11.00
12A1374	3/8"	.16	1.32 12.00
12A1375	1/2"	.17	1.35 12.25
12A1376	3/4"	.20	1.65 15.00
12A1377	1"	.26	2.20 20.00

BUD Cabinets, Mini Boxes

B-A is an AUTHORIZED BUD DISTRIBUTOR. All Bud Products are available from B-A. For a complete listing request Bud Catalog No. 25B102—Free.



BUD ALUMINUM MINIBOXES

Simple two piece design with both snap-lock and screw type fastening. Provides complete access for installation or service of components. Ideal for housing shielded sub-assemblies as well as the many separate self-contained units which have made this box so popular. Choice of Gray Hammertone or Natural Aluminum.

L.	Inches H. W.	Wt. Lbs.	Natural Finish		Hammertone Gray		1-24 Each	
			Mfg. No.	Stk. No.	Mfg. No.	Stk. No.		
2 3/4	2 1/2 x 1 5/8	1/4	CU3000A	20C558	\$0.65	CU2100A	20C581	\$0.74
3 1/4	2 1/2 x 1 5/8	1/4	CU3001A	20C559	.65	CU2101A	20C583	.76
4	2 1/2 x 1 5/8	1/4	CU3002A	20C564	.70	CU2102A	20C584	.80
4	2 1/4 x 2 1/4	1/4	CU3003A	20C565	.80	CU2103A	20C585	.90
5	2 1/4 x 2 1/4	1/4	CU3004A	20C566	.85	CU2104A	20C587	.95
5 1/4	x3	1/2	CU3005A	20C567	1.05	CU2105A	5A333	1.25
6	x5	3/4	CU3006A	20C574	.90	CU2106A	5A334	1.02
7	x5	3/4	CU3007A	5A271	1.30	CU2107A	5A335	1.60
8	x6	3/4	CU3008A	5A272	1.45	CU2108A	5A336	1.80
10	x6	3/2	CU3009A	5A273	1.85	CU2109A	5A337	2.30
12	x7	3/2	CU3010A	5A274	2.05	CU2110A	5A279	2.60
17	x5	4	CU3011A	5A275	2.80	CU2111A	5A280	3.50
10	x2 1/2 x 1 5/8	1/2	CU3012A	5A276	2.80	CU2112A	5A281	3.50
12	x2 1/2 x 1 5/8	3/4	CU3013A	5A277	1.05	CU2113A	5A282	1.30
4	x2	1/4	CU3014A	5A278	1.35	CU2114A	5A283	1.70
4 1/4	x2 1/4 x 1 1/2	1/4	CU3015A	20C578	.80	CU2115A	20A488	.92
3 1/4	x2 1/8 x 1 1/8	1/4	CU3016A	20C579	.80	CU2116A	20A489	.92
			CU3017A	20C580	.70	CU2117A	20A490	.80

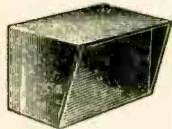
BUD CONVERTA-BOXES



Consists of a welded base and two sided cover. 20 gauge steel assures rigidity and protection. Cadmium plated finish.

Stock No.	Mfg. No.	H. W. D. Inches	Wt. Lbs.	1-24 Each
5A340	CU341	1 1/2 4 3	1/2	\$1.80
5A341	CU452	2 5 4	1	2.00
5A342	CU482	2 8 4	1 1/4	2.09
5A343	CU592	2 1/2 9 1/2	5 1/4	2.25
5A344	CU622	2 1/2 12 6	2 3/4	2.50
5A345	CU712	2 1/2 15 7	3 1/2	3.34

BUD COWL-TYPE MINIBOX



A highly practical addition to the Minibox line. The projecting cowl reduces glare on panel from overhead lighting—protects controls—permits use of various indirect lighting effects. Top and side assembly slips over bottom section forming a rigid unit with excellent accessibility. Made of .040" aluminum in Natural or Hammertone Gray finish.

Inches H. W. D.	Wt. Lbs.	Hammertone Gray		Natural Finish		1-24 Each
		Mfg. No.	Stk. No.	Mfg. No.	Stk. No.	
6 10 7	1 1/4	SC2130	5A255	SC3030	5A259	\$4.30
7 12 8	1 1/2	SC2131	5A256	SC3031	5A260	4.70
3 8 5	1	SC2132	5A257	SC3032	5A261	2.45
5 5 5	1	SC2133	5A258	SC3033	5A262	2.60

BUD MINIATURE UTILITY CABINETS



Miniature size removable front and rear panel design. Available in a range of sizes which are particularly useful in building equipment of miniature size. Bud numbers AU1083 through AU1040.



Designed for use in building miniature apparatus where smaller size is essential. Convenient design with built-in chassis attached to removable front panel. Rear panel is also removable. Steel with black ripple finish.

Natural Finish				Gray Hammertone				Stk. No.	Mfg. No.	H. W. D. Inches	Wt. Lbs.	Net Each
Stock No.	Net Each	Size H. W. D.	Stk. No.	Net Each	Stk. No.	Net Each						
20A428	1.40	4 4 2	20A431	1.65	20A434	C1793	4 4 2	3/4	1.45			
20A429	1.50	4 5 3	20A432	1.85	20A435	C1794	4 5 3	1	1.65			
20A430	1.65	5 4 4	20A433	2.00	20A436	C1795	5 4 4	1	1.80			
5A264	2.40	6 6 6	5A266	2.65	20A437	C1796	6 5 4	1 1/4	1.85			
5A265	2.75	9 6 5	5A267	3.10	20A438	C1797	5 6 4	1 3/4	2.10			
					5A268	C1798	6 6 6	2 1/4	2.40			

Quantity Prices For Above 50 to 99 less 10%; 100 up less 20%

UTILITY TYPE CABINETS



Sturdy spot welded steel. Removable front and back covers for complete accessibility. Black wrinkle enamel finish. For Hammertone gray add HG to stock number.

SLOPING FRONT CABINETS



Hinged lid for convenient access to interior; removable front panel. Black wrinkle enamel finish. For Hammertone gray add HG to stock number.

Stk. No.	Mfg. No.	L. D. H. Inches	Wt. Lbs.	1-49 Each
5A78	CU-883	4 2 4	3/4	\$1.20
5A79	CU-728	5 3 4	3/4	1.35
5A7	CU-1098	6 6 6	2 1/2	2.30
5A8	CU-1099	6 6 9	3	2.60
5A9	CU-879	8 7 10	5	3.70
5A10	CU-880	10 8 10	5 1/2	4.40
5A11	CU-881	11 8 12	6	4.80

Quantity Discount Deduct 10% for 25 to 49; 20% 50 up.

BUD PORTACAB

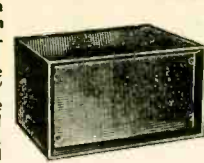


The housing with that "custom built" appearance.

Formed of one piece .050 aluminum, side louvers, partial back opening. Panel, recessed 1/2" from front, is .062" aluminum. Recessed spring-up handle and detachable rubber feet. Gray hammertone finish only.

Stk. No.	Mfg. No.	D. W. H. Inches	Wt. Lbs.	1-24 Each
40A178	WA1540	8 6 1/2 8	2 1/2	\$ 9.65
40A179	WA1541	12 8 1/2 9	3	12.60
40A180	WA1542	8 10 1/2 8	3 1/2	11.20
40A181	WA1543	18 11 1/2 11	6 1/2	14.20
40A182	WA1544	18 14 1/2 12	7 3/4	16.30

BUD SHADOW CABINET



Unusually attractive appearance is created by using a 1" beveled recessing on the front panel. Both front and back panel as well as the bottom are removable for easy installation and service. 18 gauge steel with 16 gauge panels. Rubber feet. Light gray hammertone.

Stk. No.	Mfg. No.	W. H. D. Inches	Wt. Lbs.	1-24 Each
5A243	SB2140	14 1/2 8 10	11 1/2	\$6.85
5A244	SB2141	13 1/2 7 1/2	9	5.25
5A245	SB2142	17 9 1/2 11 1/2	15 1/4	9.30
5A246	SB2143	15 1/2 6 9	9 1/2	5.10

GRAND PRIX CABINET



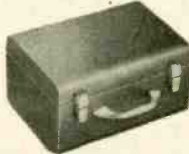
Bud Award Winning Design Cabinets. Ideal where appearance is paramount.

Top and bottom separate for complete access. Made of 20 gauge steel, aluminum extrusions serve as handles. Has rubber feet. Choice of Hammertone Gray or Smooth Gray. Panels are contrasting color. Add HG to stock number for Hammertone Gray or SG for Smooth Gray.

Stock No.	Mfg. No.	H. W. D. Inches	Wt. Lbs.	Net Each
5B46	MD-1	4 1/2 10 1/2	7 1/4	\$13.15
5B50	MD-2	7 1/2 10 1/2	7 3/4	13.65
5B51	MD-3	4 1/2 12 1/2	8 1/4	10.50

Quantity Discount Deduct 10% for 25-49; 20% 50 and up.

NEW TRANSICASES



Handsome aluminum portable instrument case. Contoured design with chrome plated fittings. Flush mounted aluminum panel. Lid is foam rubber lined, has slip hinges. Rubber feet on both back and bottom. Smooth gray enamel finish. (Blue finish on special order.)

Stock No.	Mfg. No.	Dimensions W. D. H.	Net Each
5B132	TC-300	10 7/8 7 6	\$24.95
5B137	TC-301	11 1/2 8 1/4 6	25.50
5B138	TC-302	13 9 7 1/2	26.00
5B148	TC-303	16 1/2 9 7 1/2	26.50
5B149	TC-304	20 1/8 8 9	27.90

BUD FUTURA CABINETS



Award winning design. Harmonizes with latest modular cabinetry. One-piece top and sides permit full access to interior. Made of 20 gauge steel with 18 gauge front panel. Available with inclined (see illustration) or straight panel. Choice of Hammertone Gray or Smooth Dark Blue. Panels are contrasting. Add HG to stock number for Hammertone Gray or SB for Smooth Blue.

Stock No.	Mfg. No.	H. W. D. Inches	Wt. Lbs.	Net Each
5B32	MD1960	7 13 8	6 3/4	\$7.50
5B37	MD1961	8 14 9	7 3/4	8.00
5B42	MD1962	8 16 9	8 1/2	8.30
5B43	MD1963	7 13 9	6 3/4	\$8.75
5B44	MD1964	8 14 9	7 3/4	9.35
5B45	MD1965	8 16 9	8 1/2	10.00

BUD CHASSIS BRACKETS

Essential for proper chassis support. Heavy gauge steel, black finish. Cut out to mount chassis flush against panel. *For chassis up to four inches high, all others up to 3 inches high.

No.	Mfg. No.	Wt.	Depth	Hgt.	Net Pr.	No.	Mfg. No.	Wt.	Depth	Hgt.	Net Pr.
5A99	MB458	1 1/4 lbs.	8"	6 1/2"	\$1.35	5A284	MB460	2 1/2 lbs.	13"	8 1/2"	\$1.69
5A113	MB448	1 1/4 lbs.	10"	6 1/2"	1.35	5A157*	MB450	2 1/4 lbs.	10"	8 1/2"	1.97
5A98	MB459	2 lbs.	11"	6 1/2"	1.50	5A158*	MB451	3 lbs.	13"	8 1/2"	2.09
5A156	MB440	2 lbs.	12"	6 1/2"	1.75						

BUD TRANS-AIRE BLOWERS



Features greater air displacement for given area and panel space. Exhaust or intake, operates in any position. 110 volt 2 speed motor, rubber mounted. Has oilite bearings. Has thermal overload protection and automatic reset. Mounted on 1 1/2" rack panels. Complete with air filter, chrome grille.

Stk. No.	Mfg. No.	Panel Space	Depth	Air Displacement High	Air Displacement Low	Motor Size	Wt. Lbs.	Net Each
5A200	B23	3 1/2"	12"	200cfm	100cfm	1/20 H.P.	17 1/4	\$52.50
5A214	B25	5 1/4"	14 1/2"	500cfm	250cfm	1/6 H.P.	33	60.00
5A215	B27	7"	14 1/2"	750cfm	350cfm	1/4 H.P.	35 1/4	67.50

ADJUSTABLE BUD TEM-STAT. Used to turn blowers on and off to maintain desired temperature. Mounts inside enclosure. 2 1/2" x 1" x 1 1/2". UL listed for 8 amps. 115 V. or 4 amps, 230 V. AC.

No. 5C146. TS-15 Temperature range 80 to 170° F. Each \$5.00
No. 5C147. TS-16 Temperature range 150 to 240° F. Each \$5.00

Bud Relay Racks, Panels & Chassis

BUD DELUXE CABINET RACKS

Professional quality and appearance for equipment builders. All have hinged top with recessed snap lock and the five larger sizes also have hinged rear door. For use with standard relay rack panels. Overall O.D. is 22" wide, 14 3/4" deep. Aluminum relay rack panel covering entire panel space now supplied at no extra cost.



Wrinkle Finish	Hammertone	Mfg. No.	Height	Panel Space	Wt. Lbs.	Net Ea.
Gray No. 40W48	Gray No. 40W48HG	CR1726	8 3/4"	7"	24	\$16.05
40W46	40W46HG	CR1741	10 3/4"	8 3/4"	28	17.55
40W40	40W40HG	CR1740	12 3/4"	10 1/2"	31	20.10
40W47	40W47HG	CR1742	14 3/4"	12 1/4"	32	21.15
40W45	40W45HG	CR1739	15 3/4"	14"	35	28.05
40W49	40W49HG	CR1743	19 3/4"	17 1/2"	40	27.55
40W50	40W50HG	CR1727	22 3/4"	21"	43	29.45
40W57	40W57HG	CR1744	28 3/4"	26 1/4"	51	31.65
40W51	40W51HG	CR1728	33 3/4"	31 1/2"	58	33.60
40W58	40W58HG	CR1745	36 3/4"	35"	63	35.35

BUD DELUXE RELAY RACKS

Attractive rounded corner design, with red filled chrome trim and recessed panel supports for streamlined mounting. Racks of 16 gauge steel, 3/8" panel supports. Drilled and tapped for 10-32 screws, spacing for all standard 19" panels. Well ventilated, louvers side and rear. Hinged rear door with snap catches. All are 22" wide, 17 1/4" deep. O.D. except * are 22" deep. Has special supports for mounting free-rolling casters listed below. Shipped knocked down.



Black wrinkle is available by adding B to Stock No.

Gray Wrinkle	Hammertone Gray	Mfg. No.	Hgt. In.	Panel Space	Wt. Lbs.	1 to 9 Each
40W70	40W70HG	CR1774	42 1/2"	36 3/4"	82	\$49.70
40W39	40W39HG	CR1771	47 3/4"	42"	92	56.20
40W71	40W71HG	CR1772	66 3/4"	61 1/4"	115	70.35
40W72	40W72HG	CR1773	82 3/4"	77"	135	84.25
40W77	40W77HG	CR2072HG	66 3/4"	61 1/4"	137	93.80

CASTERS FOR BUD DELUXE RELAY RACKS

No. 5A310. Bud RC7756. Install on bottom supports. Wt. 6 oz. Net Each. .99c

BUD TELEPHONE TYPE RELAY RACKS

Quantity Prices
15 to 24
less 10%.

Uprights 3/8" steel, 3" deep, Chassis type base. Black wrinkle, for Hammertone Gray add HG to stock number.

Stk. No.	Mfg. No.	Ht.	Panel Space	Wt.	Net Each
40W54	RR1264	70 3/8"	66 1/2"	46 lbs.	\$27.30
40W55	RR1364	75 3/8"	71 3/4"	48 lbs.	26.40
40W56	RR1366	81 3/8"	77"	50 lbs.	31.45

DESK TYPE TELEPHONE RACKS

For desk or bench mtg. of equipment, permitting easy access for building or operating. Black wrinkle, for Hammertone Gray add HG to stock number.

Stk. No.	Mfg. No.	Ht.	Wt.	Net Each
5A269	RR1248	24"	15 lbs.	\$10.50
5A270	RR1249	31"	18 lbs.	12.85

BUD RELAY RACK PANELS

All panels are 19" wide furnished in 1/8" steel or aluminum. Notched to RMA specifications which fits all standard racks. Finished in Black or Gray baked wrinkle finish, and new Hammertone Gray. On orders for Black add "B" to Stock Number, for Gray add "G", for Hammertone Gray add "HG".



ALUMINUM

Stk. No.	Mfg. No.	Height	Weight	Net
5A289	PA1101	1 3/4"	3/4 lbs.	\$1.20
5A290	PA1102	3 1/2"	3/4 lbs.	1.55
5A291	PA1103	5 1/2"	1 lb.	2.10
5A292	PA1104	7"	1 1/4 lbs.	2.65
5A293	PA1105	8 3/4"	2 lbs.	3.10
5A294	PA1106	10 1/2"	2 1/2 lbs.	3.95
5A295	PA1107	12 1/4"	2 3/4 lbs.	4.50
5A296	PA1108	14"	3 lbs.	5.25
5A297	PA1109	15 3/4"	3 1/2 lbs.	5.85
5A298	PA1110	17 1/2"	4 lbs.	6.45
5A299	PA1111	19 1/4"	4 1/2 lbs.	7.00
5A300	PA1112	21"	5 lbs.	7.70

STEEL

Stk. No.	Mfg. No.	Weight	Net
5A21	PS1250	1 1/4 lbs.	\$0.90
5A22	PS1251	2 1/4 lbs.	1.10
5A23	PS1252	3 1/4 lbs.	1.50
5A24	PS1253	4 1/2 lbs.	1.45
5A25	PS1254	6 lbs.	1.95
5A26	PS1255	7 lbs.	2.30
5A27	PS1256	8 1/2 lbs.	2.65
5A28	PS1257	9 1/2 lbs.	3.10
5A29	PS1258	10 3/4 lbs.	3.40

ALUMINUM SURFACE SHIELD RACK PANELS

Bright aluminum with blemish-free Mill finish. Covered both sides with pressure sensitive white kraft paper for layout and drilling, paper is removed when ready to install. Standard notching, 19" width, 1/8" thick. Weight same as panels above.

Stk. No.	Height	Mfg. No.	Net Ea.	Stk. No.	Height	Mfg. No.	Net Ea.
5C171	1 3/4"	SFA1831	\$1.10	5C179	12 1/4"	SFA1837	\$4.40
5C174	3 1/2"	SFA1832	1.55	5C180	14"	SFA1838	5.10
5C175	5 1/4"	SFA1833	2.05	5C181	15 3/4"	SFA1839	5.70
5C176	7 1/4"	SFA1834	2.55	5C216	17 1/2"	SFA1840	6.30
5C177	8 3/4"	SFA1835	3.05	5C227	19 1/4"	SFA1841	6.90
5C178	10 1/2"	SFA1836	3.85	5C229	21"	SFA1842	7.50

Quantity Price on Panels: 1 to 49 net; 50 to 99 less 10%; 100 up less 20%.

BUD PANEL CHASSIS

Horizontal design permits easier access for testing and maintenance. Mounts on regular 19" relay racks and cabinets. All have 17" chassis length and 5 3/8" depth. Height of each shown below. Notched for same mounting as relay rack panels. Made of .062 aluminum.



Stk. No.	Mfg. No.	Height	Wt.	Net	Stk. No.	Mfg. No.	Height	Wt.	Net
5A320	CB1370	1 3/4"	3/4	\$2.55	5A324	CB1374	8 3/4"	2 1/4	\$4.15
5A321	CB1371	3 1/2"	1 1/4	2.85	5A325	CB1375	10 1/2"	2 3/4	4.85
5A322	CB1372	5 1/4"	1 1/2	3.10	5A327	CB1376	12 1/4"	3	6.30
5A323	CB1373	7 1/4"	2	3.60	5C167	CB1377	14"	3 1/4	6.85

Quantity Prices all this column: 25 to 49 less 10%; 50 up less 20%

BUD STEEL CHASSIS BASES

Made from one piece of steel, corners reinforced and spot-welded. Have fold-over bottom for attaching bottom plates and added strength. Choice of Zinc or Black finish. *18 Gauge, †22 gauge, all others 20 gauge.



Size Inches	Wt. Lbs.	Zinc Chassis Bases		Black Chassis Bases		Bottom Plates	
		Stk. No.	Mfg. No.	1-24 Ea.	Stk. No.	Mfg. No.	1-24 Ea.
4x17x3	2 1/4	5A287	CB1066	\$2.35	5A288	CB1068	\$2.00
5x7x2†	1	5A312	CB629	1.45	5A311	CB628	1.20
5x9 1/2 x 1 1/2†	1	5A52	CB776	1.85	5A53	CB788	1.35
5x9 1/2 x 2 1/2†	1 1/4	5A54	CB645	1.85	5A55	CB644	1.50
5x10x3†	1 1/4	5A56	CB605	2.05	5A57	CB604	1.40
5x13 1/2 x 2 1/2	1 3/4	5A285	CB1198	2.40	5A286	CB647	1.95
6x14x3	1 3/4	5A162	CB756	2.25	5A161	CB755	1.95
7x7x2	1 1/2	5A60	CB1191	1.65	5A61	CB759	1.35
7x9x2	1 1/2	5A62	CB1192	1.75	5A63	CB790	1.55
7x11x2	1 1/2	5A64	CB1193	1.85	5A65	CB791	1.60
7x12x3	1 3/4	5A66	CB793	2.30	5A67	CB792	1.75
7x13x2	2	5A68	CB1194	2.10	5A69	CB646	1.70
7x15x3	2	5A70	CB1189	2.65	5A71	CB649	2.40
7x17x3	1 3/4	5A72	CB758	2.85	5A73	CB757	2.20
8x12x2 1/2	2 1/2	5A122	CB704	2.45	5A121	CB703	1.95
8x12x3	1 3/4	5A74	CB760	2.60	5A75	CB759	2.05
8x17x3	3 1/4	5A76	CB775	2.90	5A77	CB651	2.25
10x12x3	3	5A80	CB1195	2.50	5A81	CB652	2.10
10x14x3	4	5A82	CB779	2.70	5A83	CB653	2.25
10x17x2	3 1/4	5A217	CB769	2.65	5A218	CB654	2.20
10x17x3	4	5A84	CB637	3.15	5A85	CB636	2.20
10x23x3*	5 1/2	5A86	CB1197	3.75	5A87	CB656	3.15
11x17x3*	4 1/2	5A166	CB770	3.10	5A165	CB657	2.60
11x17x3*	4 1/2	5A88	CB771	3.85	5A89	CB658	3.05
12x17x3*	5 1/4	5A90	CB662	4.05	5A91	CB664	3.20
13x17x3*	5 1/2	5A92	CB773	4.50	5A93	CB660	3.75
10x17x4*	6 1/2	5A94	CB641	3.90	5A95	CB640	3.25
13x17x4*	7 1/2	5A96	CB643	5.15	5A97	CB642	4.30

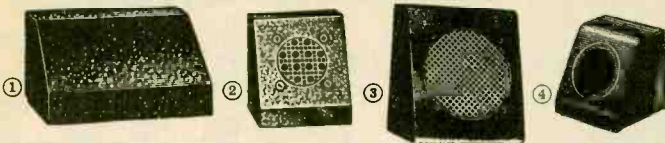
BUD ALUMINUM CHASSIS BASES

Same construction as steel chassis illus. above. 18 gauge through size 7x13x2", 16 gauge through 10x17x3" and others 14 gauge. Etched finish.

Stock No.	Mfg. No.	Size Inches	Wt. Lbs.	1-24 Each	Stock No.	Mfg. No.	Size Inches	Wt. Lbs.	1-24 Each
5A348	AC1402	3 1/2 x 4 1/2 x 1	1 1/2	1.15	5A363	AC1417	7x17x2 1/2	1 3/4	2.85
5A349	AC1403	3 1/2 x 5 1/2 x 1	1 1/2	1.15	5A208	AC423	7x17x3	1 3/4	3.05
5A350	AC1404	4x5x2	1 1/2	1.35	5A364	AC1418	8x10x2 1/2	1 1/2	2.40
5A351	AC1405	4x6x1 1/2	1 1/2	1.25	5A365	AC1419	8x12x2 1/2	1 1/2	2.65
5B160	AC431	4x6x2	1 1/2	1.25	5A209	AC424	8x12x3	1 1/2	2.70
5B154	AC430	4x6x3	1 1/2	1.45	5A317	AC425	8x17x2	1 1/2	2.80
5A352	AC1406	4x8x2	1 1/2	1.60	5A219	AC412	8x17x3	1 1/2	3.15
5B164	AC432	4x17x3	1 1/2	2.60	5A366	AC1420	8 1/2 x 15x3	1 1/2	2.75
5A353	AC1407	4 1/2 x 8x1 1/2	1 1/2	1.25	5A367	AC1421	9x15x3	1 1/2	3.35
5A313	AC402	5x7x2	1 1/2	1.30	5A210	AC411	10x12x3	1 1/2	3.00
5B168	AC429	5x7x3	1 1/2	1.60	5A263	AC414	10x14x3	1 1/2	3.15
5A354	AC1408	5x9x1 1/2	1 1/2	1.35	5A318	AC415	10x17x2	1 1/2	3.00
5A355	AC1409	5x9x1 1/2	1 1/2	1.35	5A211	AC416	10x17x3	2	3.50
5A314	AC403	5x9 1/2 x 2	1 1/2	1.40	5B172	AC427	10x17x4	3 1/2	5.00
5A202	AC421	5x9 1/2 x 3	1 1/2	1.80	5A368	AC1422	10x17x5	3 1/2	7.50
5B169	AC404	5x10x3	1 1/2	1.80	5A369	AC1423	10x23x3	3 1/2	5.15
5A203	AC422	5x13x3	1 1/2	2.10	5A155	AC426	11x17x2	2 1/2	3.80
5A356	AC1410	5 1/2 x 13 1/2 x 2 1/2	1 1/2	1.75	5A319	AC417	11x17x3	2 1/2	4.40
5A357	AC1411	5 1/2 x 15 1/2 x 1 1/2	1 1/2	1.25	5A370	AC1424	12x12x3	2 1/2	3.15
5A358	AC1412	5 1/2 x 15 1/2 x 1 1/2	1 1/2	1.35	5A371	AC1425	12x17x2	2 1/2	4.20
5A359	AC1413	6x8x2	1 1/2	1.60	5A212	AC418	12x17x3	2 1/2	4.50
5A360	AC1414	6x14x3	2.65	5A163	AC419	13x17x2			

Cabinets, Printed Circuits, Insulation

MIDGET SIZE CABINETS



① **BUD SLOPING FRONT CABINETS** for miniaturized equipment. Hammer-tone Gray. Size 4 1/2" deep x 4 1/2" high. Detachable back and bottom.

Stock No.	Width	Mfg. No.	STEEEL	Wt.	Each	Stock No.	Width	Mfg. No.	ALUMINUM	Wt.	Each
5B145	4"	C1606	3/4 lb.	\$1.60	5A224	4"	AC1610	1/2 lb.	\$1.85		
5A19	5"	C1607	3/4 lb.	1.70	5A225	5"	AC1611	1/2 lb.	1.95		
5A20	6"	C1608	1 1/8 lb.	1.80	5A226	6"	AC1612	3/4 lb.	2.10		
5A14	7"	C1609	1 1/8 lb.	2.10	5A228	7"	AC1613	3/4 lb.	2.30		

② **BUD MIDGET SPEAKER CASES.** Black wrinkle steel. 4x4x4 1/4". Wt. 3/4 lb. FOR 2" SPEAKER

No. 5A41. CS1685. Each... \$1.75 No. 5A47. CS1686. Each... \$1.75

③ **BUD MIDGET WALL TYPE STEEL SPEAKER CASES**

Similar to above except brown wrinkle finish. With keyway for wall mounting as well as table top. Both are 7 1/2" H, 6 1/2" W, 4 1/4" D. Wt. 1 3/4 lb. No. 5A48. CS1948. For 4" Speaker. Each... \$2.67 No. 5A49. CS1939. For 5" Speaker. Each... \$2.75

Quantity Prices: 25 to 49 less 10%. 50 up less 20%

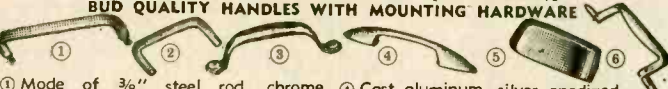
④ **BUD UNIVERSAL CASES FOR 2, 3, OR 4 1/4 INCH METERS**

Punched for 2" meter with easy removable knock out ring to increase hole size for 3" meter. One piece removable back and bottom. Two 3/8" knock outs in top for installing insulators, etc. Gray Hammettone. 4x4x4 1/4". No. 5A39. STEEL. CM1935. Each... \$1.35 No. 5A40. ALUMINUM. CMA1936. Each... \$1.60

New Bud CMA 1930. Larger size for 2, 3 or 4 1/2" Meters. Size 4 1/4" H. x 6" W. x 4" D. Wt. 3/4 lb. No. 5A33. Aluminum, Hammettone Gray. Each... \$2.65

Quantity Prices: 50 to 99 less 10%. 100 up less 20%

BUD QUALITY HANDLES WITH MOUNTING HARDWARE



Stk. No.	Mfg. No.	Mtg. Ctrs.	Each	Stk. No.	Mfg. No.	Mtg. Ctrs.	Each
5A432	H9115B	4"	\$0.96	5A438	H9120B	4 3/8"	\$1.60
5A433	H9160B	3 1/2"	1.02	5A439	H9123B	4 1/2"	1.14
5A434	H9166B	1 3/8"	.54	5A440	H9140B	3 1/2"	1.08
5A435	H9168B	3 3/8"	.58	5A441	H9122B	6 1/2"	2.82

⑤ Tubular aluminum, etched finish. No. 5A436. UH70A. 4 3/8". \$0.36 No. 5A437. UH71A. 3 1/4". \$0.30

L.M.B. ALUMINUM BOXES

Features simple interlocking design. Slips together easily making a sturdy finished box requiring only two fastening screws. Eliminates hard-to-get-at places. Made of 18-gauge aluminum. Ideally suited for building preamps, oscillators, junction boxes, etc. Choice of Black Wrinkle, Gray Hammettone and Brushed Natural finishes. Special quantity prices available—write for quotations.

L.	W.	H.	LMB No.	Wt.	Black No.	Natural No.	Gray No.	Each
2 1/4	1 1/2	1 3/8	M00	3 oz.	20A456	20A457	20A458	\$0.57
2 1/2	2 1/8	1 3/4	002	4 oz.	20A529	20A530	20A531	.84
2 3/4	2 1/8	2 1/8	100	4 oz.	20A421	20A419	20A420	.89
3 1/4	2 1/8	1 5/8	000	4 oz.	20A532	20A533	20A534	.88
4	2 1/8	1 5/8	00	6 oz.	20A129	20A132	20A507	.71
4	2 1/4	2 1/4	107	6 oz.	20A129	20A500	20A499	.98
4	x4	x2	143	6 oz.	20A130	20A504	20A503	1.33
5	2 1/4	2 1/4	108	6 oz.	20A130	20A133	20A506	1.03
5 1/2	x3	x1 1/4	139	6 oz.	20A424	20A422	20A423	1.01
5 3/4	x3	x2 1/8	135	5 oz.	20A535	20A536	20A537	.97
6	2 1/4	x2 1/8	136	8 oz.	20A131	20A134	20A505	1.08
6	x4	x5	140	8 oz.	20A131	20A491	20A492	1.29
6	x4	x3	141	6 oz.	20A427	20A425	20A426	1.44
6	x4	x5	142	6 oz.	20A427	20A492	20A493	1.72
6 1/4	x3 1/2	2 1/8	138	8 oz.	20A498	20A497	20A496	1.68
7	x5	x3	145	8 oz.	5A303	5A301	5A302	1.32
8	x3	x2 3/4	137	10 oz.	20A502	20A501	20A501	2.11
8	x6	x4 1/2	146	12 oz.	5A332	5A330	5A331	2.99
10	x4	x2 1/2	144	12 oz.	5A329	5A327	5A328	2.19
12	x2	x1 3/4	15	12 oz.	20A495	20A494	20A493	1.81

DAVIES PLASTIC CASES & COVERS

Made of beautiful black plastic with highly polished finish. Heavy construction to withstand rugged usage and provide safety for meters and other components which may be mounted in them. Corner bosses drilled and tapped also are recessed for flush panel mounting.

Model 240B. Size, 3 3/4" W, 6 1/4" L, 2" D. Inside dimensions 3 1/2" W, 6" L.

No. 29A1. Net Each... 72c 10 Lots, Each... 85c

No. 29A2. Model 260A. Size 5 3/8" wide, 6 1/8" long, 2 3/8" high. Inside dimensions 4 3/8" wide, 6 1/2" long. NET EACH... \$1.24 10 Lots, Each... \$1.11

New Miniature Size Model 220. Size: 4" long, 2 3/8" wide, 1 3/8" high. Inside dimensions 3 3/8" long, 2 1/8" wide, 1 1/8" deep. Recessed for 1/8" panel (not supplied), corners 4-36 tapped.

No. 29B8. 1-24 Ea... 42c 25-49 Ea... 37c 50 Up Ea... 32c

MATCHING PANELS. Made of same molded black plastic as above. Precision cut for accurate fit and a finished appearance. 1/8" thick.

No. 29A67. For 240B. Net Each... 48c 10 Lots, Each... 42c

No. 29A68. For 260A. Net Each... 88c 10 Lots, Each... 81c

No. 29B7L. For 220. Net Each... 23c 10 Lots, Each... 21c

KEPRO PRINTED CIRCUIT KITS

Printed Circuit Lab L-505A. Meets all circuit board development needs of the industrial, laboratory or serious experimenter. Kit includes materials to span a range from single experimental breadboards to high quality photo processed short run production boards. Includes PL-2A Photo Layout Kit to satisfy art work needs. More than three square feet of single and double clad materials, ready to use, are included. Boards up to 70 sq. inches may be processed. Wt. 21 lbs. \$34.75

29C32. L505A Kit. With XXXP Boards. Each \$34.75

29B33. L505A-G Kit. With G10 Glass Boards. Ea. \$42.95



Standard Etching Kit S101A. A complete assortment of material used for manually producing a basic printed circuit. Contains 2 copper clad unsensitized sheets 3x6x1/16", 1 perforated 3x6x1/16" copper clad unsensitized phenolic sheet, etching resist, etching solution, plastic etching tray, etc. with step-by-step instructions. So simple that anyone can successfully produce printed circuit boards.

29B80. S101A Kit. Wt. 1 1/2 lbs. Net Each... \$3.95

29B69. S101A-G. Same kit with glass base material. \$5.25



Professional Kit P101A. An etched circuit kit utilizing photo engraving process for fine professional quality work. A negative of layout is produced, then the sensitized sheet of copper clad phenolic board is exposed through the prepared negative after which it is developed and etched. Kit contains all material for this process as well as a step-by-step instruction book. \$5.85

29B81. P101A Kit. Wt. 1 1/2 lbs. Net Each... \$5.85

29B70. P101A-G. Same Kit with Glass material... \$7.40

Choice of Etched Circuit Copper Clad Materials of laminated 1/8" XXXP paper base phenolic or 1/8" G10 glass epoxy. 1 oz. copper.



Unsensitized Foil One Side

Stk. No.	No.-Size	Material	Each	5-Ea.	Stk. No.	No.-Size	Foil One Side	Each	5-Ea.
29A106	P1-3x3	Phen.	0.40	0.36	29A109	S1-3x3	Phen.	0.56	0.50
29A107	P1-3x6	Phen.	.54	.49	29A110	S1-3x6	Phen.	.86	.75
29A108	P1-12x12	Phen.	2.48	2.23	29A111	S1-6x6	Phen.	1.47	1.32
29B28	P1-3x6G	Glass	1.08	.97	29B35	S1-12x12	Phen.	5.08	4.57
29B29	P1-12x12G	Glass	6.74	6.07	29B36	S1-3x6G	Glass	1.52	1.37
					29B37	S1-12x12G	Glass	10.24	9.22

Copper Clad Processing Chemicals

29B82	2 Oz. Paint Resist	Ea...	.59	29B30	Foil Both Sides			
29B85	2 Oz. Resist Thinner	Ea...	.50	29B31	P2-3x6	Phen.	.66	.59
29B89	1 Pt. Developer	Ea...	1.15	29B32	P2-12x12	Phen.	3.26	2.93
29B141	1 Gal. Etch Solution	Ea...	3.00	29B34	P2-12x12G	Glass	7.14	6.43
29B142	1 Gal. Developer	Ea...	6.00	29B44	S2-12x12G	Glass	12.84	...

POLYSTYRENE SHEETS, TUBING, RODS

Polystyrene is excellent for high frequency insulation. It is an ideal material for coil forms and insulators because of its very low loss factor. Does not deteriorate with age. Aside from radio applications many attractive articles may be built of this material.



RODS 1/2" LENGTH

Stk. No.	O.D.	Wt.	Net Each
12B300	1/8"	1/4 oz.	\$0.05
12B301	3/16"	1/4 oz.	.07
12B219	1/4"	1/4 oz.	.12
12B302	5/16"	1/4 oz.	.18
12B220	3/8"	1/2 oz.	.25
12B221	1/2"	1 1/2 oz.	.47
12B304	5/8"	2 oz.	.71
12B222	3/4"	3 oz.	.98
12B223	1"	6 oz.	1.86
12B314	1 1/4"	10 oz.	2.94

12"x12" SHEETS

Stk. No.	O.D.	Wt.	Net Each
5A192	1/8"	8 oz.	\$4.07
5A194	1/4"	13 oz.	5.39
5A196	3/8"	22 oz.	7.99

TUBING—1/2" Length

Stk. No.	O.D.	I.D.	Wt.	Net Ea.
12B212	1/4"	1/8"	1/4 oz.	\$0.10
12B309	3/8"	1/4"	1/4 oz.	.14
12B213	1/2"	3/8"	1/4 oz.	.18
12B214	5/8"	1/2"	1/4 oz.	.25
12B310	3/4"	1/2"	1/2 oz.	.31
12B215	7/8"	5/8"	1/2 oz.	.39
12B216	1"	3/4"	1/2 oz.	.56
12B218	1 1/8"	1"	5/8 oz.	2.15

12"x24" SHEETS

Stk. No.	O.D.	Wt.	Net Ea.
5A197	1/8"	26 oz.	\$10.29
5A198	1/4"	44 oz.	15.34

POLYSTYRENE CEMENT

No. 11A25. GC No. 37—2 oz. Net Each... \$54c

PRE-PUNCHED BOARDS

Stk. No.	Width	Lgth.	1-19	20-99
29B103	1 3/8"	8 1/2"	39c	35c
29B104	2 1/8"	8 1/2"	53c	48c
29B105	5 1/8"	8 1/2"	84c	78c
29B307	2 1/8"	3 3/8"	25c	24c
29B308	3 1/8"	6 3/8"	45c	40c
29B309	6 3/8"	7 3/8"	75c	69c
29B310	7 3/8"	10 1/2"	1.20	1.08

XXXP Copper Clad (One Side)

Stk. No.	Width	Lgth.	1-19	20-99
29A466	2 1/8"	3 3/8"	\$0.35	\$0.31
29B311	2 1/8"	6 3/8"	.70	.63
29A467	5 1/8"	8 1/2"	1.60	1.44
29B312	7 3/8"	6 3/8"	1.60	1.44
29A468	10 1/2"	7 3/8"	1.90	1.71

Unpunched Phenolic Panels

Stk. No.	Width	Lgth.	1-19	20-99
29A469	2"	4 1/2"	\$0.20	\$0.18
29A470	4 1/2"	6 1/2"	.45	.42
29A471	4 1/2"	8 1/2"	.60	.55
29A472	9"	12"	1.45	1.40



① **FISH PAPER.** High grade fibre sheet paraffined for insulation purposes. 240 sq. in. .010 thick. No. 11A30. PER SHEET... 49c

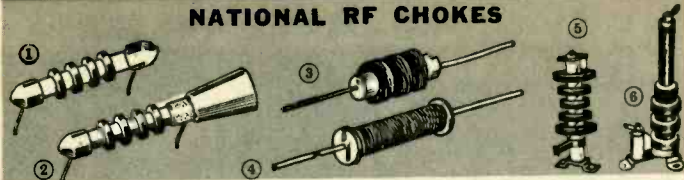
② **LAMINATED BAKELITE PANEL** For insulating parts, terminal strips, etc. Glossy jet black. No. 11A179. 6 x 6 x 1/8"..... 41c



③ **INSULATING CAMBRIC** Breakdown voltage 10,000 volts. Prevents grounds and shorts on field coils, transformers, resistors, condensers, wires, etc. Dry, Yellow Varished Cambric in rolls of over 210 sq. in. No. 11A29..... 78c

R. F. Chokes—Coils—Shields—Insulators

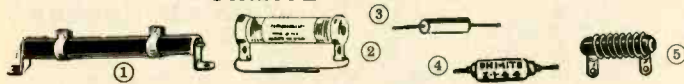
NATIONAL RF CHOKES



A wide selection of popular RF Chokes for receiver and transmitter circuits. R100-300 are wound on ceramic forms, R33 and R50 on molded phenolic and R50-1 on powdered iron. R175 rated 4000 volts, for 6 through 80 meters, 3000 V. Modulated. Current rating below is 20 degrees rise.

Fig.	Stk. No.	Mfg. No.	Induc.	Current MA	Ohms Res.	Length Inches	NET PRICES EACH
							1-49 50-149
①	12A189	R100	2.5 mh	115	44	2	\$0.57 \$0.54
②	12A191	R300	1.0 mh	400	11	2 1/8	.57 .54
③	12B372	R300	2.5 mh	375	17	2 1/8	.74 .70
④	12A190	R100U	2.5 mh	115	44	2 1/8	.74 .70
⑤	12A1427	R50	.5 mh	150	15	1	.42 .40
⑥	16A715	R50	1.0 mh	135	23	1	.42 .40
⑦	12A1428	R50	2.5 mh	125	38	1	.42 .40
⑧	12A1429	R50	10 mh	115	36	1	.72 .68
⑨	12B373	R33	50† uh	225	3.5	5/8	.36 .34
⑩	12B374	R33	100† uh	200	5	3/8	.36 .34
⑪	12B369	R33	750† uh	700	16	3/8	.36 .34
⑫	12A1430	R60	4† uh	125	.15	1 1/8	.29 .24
⑬	17A1156	R154U	1	600	6	3/8	2.01 1.91
⑭	29A255	R175A	225†	800	5	6	4.46 4.24

OHMITE RF CHOKES



Single layer wound to operate over freq. range indicated. Ohmite number corresponds to the approx. freq. at which max. efficiency is obtained.

Fig.	Stk. No.	Mfg. No.	Ind. UH	MA	OP. Freq. MC	Each
①	14B11	Ohmite Z7	84.	1000	3-20	\$1.34
②	14B12	Ohmite Z14	44.	600	7-35	.67
③	14B13	Ohmite Z28	21.	600	20-60	.56
④	14B14	Ohmite Z50	7.	1000	35-110	.45
⑤	14B15	Ohmite Z144	1.8	1000	80-200	.42
⑥	14C17	Ohmite Z235	0.84	1000	160-350	.42
⑦	14C18	Ohmite Z460	.2	1000	320-520	.42
⑧	14B34	Ohmite P300			Parasitic Suppressor	1.55

MILLER RF CHOKES



① AIR CORE UNSHIELDED SINGLE PI.—1/8" DIA., 5/8" H.

Stock No.	Mfg. No.	Ind. MH	Cur. MA	Ohms Res.	Net Each	Stock No.	Mfg. No.	Ind. MH	Cur. MA	Ohms Res.	Net Each
17C409	610	.25	125	9.6	\$0.71	17C432	660	7.5	125	66.0	\$0.85
17C412	615	.5	125	14.4	.71	17C726	670	10	125	81.0	.88
17C414	620	.75	125	19.2	.71	17C733	690	15	125	102	.88
17C701	622	1.0	125	21.6	.71	17B401	691	20	125	120	.94
17C719	630	1.5	125	25.2	.71	17C734	692	30	100	156	1.03
17C722	640	2.5	125	34.8	.85	17C743	693	60	100	240	1.18
17C724	650	5.0	125	52.8	.85	17C746	694	80	100	264	1.26

② AIR CORE SHIELDED SINGLE PI.—1/4" DIA., 1 1/8" H.

Stock No.	Mfg. No.	Ind. MH	Cur. MA	Ohms Res.	Net Each	Stock No.	Mfg. No.	Ind. MH	Cur. MA	Ohms Res.	Net Each
17C460	754	5.0	125	54.0	1.15	17B433	757	25	125	156	1.35
17B413	756	10	125	86.4	1.29	17B434	758	50	100	228	1.47

③ IRON CORE UNSHIELDED SINGLE PI.—1/8" DIA., 5/8" H.

Stock No.	Mfg. No.	Ind. MH	Cur. MA	Ohms Res.	Net Each	Stock No.	Mfg. No.	Ind. MH	Cur. MA	Ohms Res.	Net Each
17C462	958	50	100	156	\$1.47	17B436	960	100	100	240	\$1.82
17A735	959	75	100	204	1.62	17B437	961	150	100	312	1.94

④ AXIAL LEAD IRON CORE SINGLE LAYER

Stock No.	Mfg. No.	Ind. UH	Cur. MA	Ohms Res.	Net Each	Stock No.	Mfg. No.	Ind. UH	Cur. MA	Ohms Res.	Net Each
17C463	4580	0.10	300	.012	\$0.50	17B466	4606	2.40	300	.192	.50
17C494	4586	0.33	300	.023	.50	17B478	4609	5.50	300	.828	.50
17C468	4588	0.47	300	.026	.50	17B481	4610	6.20	300	.900	.53
17C496	4602	1.00	300	.060	.50	17B486	4611	8.20	300	1.34	.53
17B461	4604	1.50	300	.096	.50	17B492	4612	10	200	1.80	.53

⑤ AXIAL LEAD FERRITE CORE—MULTI PI.—1/4" DIA., 7/8" Lg.

Stock No.	Mfg. No.	Ind. MH	Cur. MA	Ohms Res.	Net Each	Stock No.	Mfg. No.	Ind. MH	Cur. MA	Ohms Res.	Net Each
17B839	6302	2.5	200	9.36	\$0.91	17B841	6306	10.0	125	36.0	\$1.18
17B840	6304	5.0	200	14.9	1.06	17B842	6308	25.0	75	83.4	1.23

CHOKES INDUCTANCE RATINGS IN LISTINGS ABOVE UH—MICRO HENRIES; MH—MILLIHENRIES

MILLER ALUMINUM COIL SHIELDS

Finest quality, deep drawn, satin finished. Two 6-32 threaded spode bolts for mounting.

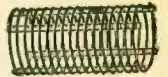
Stock No.	Mfg. No.	Size	Mfg. Net Ctr. Each	Stock No.	Mfg. No.	Size	Mfg. Net Ctr. Each
17B499	S32	1 1/8" Sq. x 2 1/8" 1 1/8"	56c	17B531	S74	1 1/4" D. x 2"	1 1/8" 56c
17B759	S42	2" D. x 3"	53c	17B532	L110	2" Sq. x 4 1/2"	1 1/8" 79c
17B760	S42C	Cover	44c	17B540	S727	2 1/8" D. x 2 1/2"	2" 56c
17B530	S51	1 3/8" Sq. x 3 1/4" 1 1/8"	56c	17B541	L727	2 1/8" D. x 4"	2" 79c

B-A CAN SUPPLY ALL MILLER COIL PRODUCTS

Order stating Miller number. Miller Coil Guide and Catalog will be supplied free on request with on order. No. 25A101. Ask for it.

B & W MINDUCTORS

"Air-Wound" construction for very efficient operation as tank coils, RF chokes, etc. Easily cut to required length. 1/2" and 5/8" dia. coils are 2" long; 3/4" and 1" are 3" long; 1 1/4" and 1 3/4" are 4" long. Wt. 4 oz.



Stock No.	Mfg. No.	Turns Per Inch	Coil Dia.	Price	Stock No.	Mfg. No.	Turns Per Inch	Coil Dia.	Price
17A1069	3001	4	1/2"	\$.68	17A1089	3014	8	1"	\$1.10
17A1077	3002	8	1/2"	.86	17A1090	3015	16	1"	1.25
17A1078	3003	16	1/2"	1.01	17A1091	3016	32	1"	1.55
17A1079	3004	32	1/2"	1.26	17A1075	3017	4	1 1/4"	1.13
17A1081	3006	8	3/8"	.95	17B1118	3018	8	1 1/4"	1.32
17A1082	3007	16	3/8"	1.10	17B1119	3019	16	1 1/4"	1.68
17A1083	3008	32	3/8"	1.32	17B1120	3020	32	1 1/4"	2.10
17A1085	3010	8	3/4"	1.02	17B1121	3021	4	1 3/4"	1.19
17A1086	3011	16	3/4"	1.16	17B1122	3022	8	1 3/4"	1.40
17A1087	3012	32	3/4"	1.35	17B1123	3023	16	1 3/4"	1.76
17A1088	3013	4	1"	.95	17B1124	3024	32	1 3/4"	2.18

B & W STANDARD INDUCTORS

Stock No.	Mfg. No.	Turns	Coil Dia.	Length	Wire	Each
29A48	3900	8	2"	10"	#14 Tinned Wire.	\$2.52
29A49	3905-1	6	2 1/2"	10"	#12 Tinned Wire.	4.26
29A50	3906-1	8	2 1/2"	10"	#14 Tinned Wire.	3.54
29A51	3907-1	10	2"	10"	#16 Tinned Wire.	2.67

B & W PI-NETWORK INDUCTORS

Bandswitching 80-40-20-15 and 10 meters; single or parallel tubes. Ratings: 850A and 852 1 KW (4000 V. CW/SSB, 3000 V. AM); 851 rated 500 W. CW/SSB at 2000 V, 250 W. AM at 1250 V.



Model	Size	Wt.	Net Each
Model 850A	8 x 6 x 4"	3 lbs.	\$64.50
No. 29A133			
Model 851	7 x 3 x 3 1/2" high	3 lbs.	\$39.75
No. 29A149			

BARKER & WILLIAMSON CHOKES

B & W FILAMENT CHOKES FOR Grounded Grid Amplifiers.

Broadband characteristics from 80 through 10 meters, no tuning. Use with regular filament transformers. Sturdy steel case with mounting brackets.

No. FC-15A for total of 15 amp current to one or two tubes. Size 2 x 2 1/2 x 5". Wt. 2 lbs.
No. 29A279. Net Each \$16.50

No. FC-30A improved model for one or two tubes requiring total of 30 amps filament current. Size 2x2 1/2x5". Wt. 2 lbs.
No. 29A280. Net Each \$23.95

No. 800 B & W RF Plate Choke. Ideal for transmitter parallel or series fed circuits, 80 through 10 meters. Maximum rating 2500 V. DC at 500 milliamps. 6x3/4" seatite core threaded for mounting with 1/4-20 screws. Wt. 6 oz.
No. 29A278. Net Each \$6.10

FOR B & W COAXIAL SWITCHES SEE AMATEUR ANTENNA ACCESSORIES

JOHNSON INSULATORS



THRU-PANEL TYPE

Furnished with nicked brass hardware for mounting in panels up to 1/2" thick. Dimension shown is height above panel. Average weight 12 ozs. Porcelain except type 45, seatite.

Stk. No.	Type	Fig. Top	Hdwe.	NET
12A262	40	① 1 1/4"	10-32	45c
12A266	44	① 5/8"	6-32	33c
12A267	45	① 1 3/8"	10-32	61c

STAND-OFF TYPE

Types 65, 66, have Cadmium steel bases. "J" after Type Number indicates Jack Type. Average wt. 12 oz.

Stk. No.	Type	Fig. Hgt.	Mdwe.	NET
12A249	20	⑥ 1 1/8"	10-32	33c
12A250	20J	⑥ 1 1/8"	7-4J	36c
12A251	22	⑤ 1 1/8"	8-32	22c
12A256	65	⑦ 1 3/8"	10-32	35c
12A258	66	⑦ 2-3/4"	1/4-20	87c

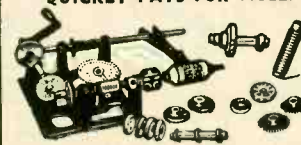
STEATITE FEED-THRU BUSHINGS

Stk. No.	Type	Fig. Hgt.	Dia.	NET
12A271	500	5/8"	7/8"	23c
12A272	501	1"	1 1/8"	34c
12A274	502	1 1/2"	1 1/2"	54c
12A276	503	2"	1 1/8"	80c

ULTRA-STEATITE CONES

Stk. No.	Type	Hgt. Top	Bot.	NET
12A271	500	5/8"	7/8"	23c
12A272	501	1"	1 1/8"	34c
12A274	502	1 1/2"	1 1/2"	54c
12A276	503	2"	1 1/8"	80c

NEW MORRIS COILMASTER MODERN COIL-WINDER FOR ELECTRONICS QUICKLY PAYS FOR ITSELF



Well constructed hand-powered machine for accurately winding modern style coils, chokes, etc. Fully adjustable for self-supporting, universal and honeycomb windings, solenoids, single layers, spaced pi-sections, etc. Very practical for individuals, labs and shops engaged in electronic experimenting and construction. Literally pays for itself by saving cost for factory made parts. Shpg. wt. 4 lbs.

● Makes all kinds of coils and chokes with factory accuracy.	No. 37B334.	\$6.95
● Handles size 22 to 40 wire.	Net Each	
● Counter shows number of turns.		

Chemicals & Service Aids



① CEMENTS

SERVICE CEMENT—For replacing and repairing speaker cones; sealing adjustments, cementing loose tube bases, etc. Fast drying.
 11A33—2 oz. **54c**
 11A38—Tube **54c**
 11A678—8 oz. **\$1.42**
 16A499—1 Pt. **\$2.45**

SERVICE SOLVENT—Loosens old cement. Also thinner for above.
 11A35—2 oz. **51c**
 11A679—8 oz. **93c**
 16A498—1 Pt. **\$1.52**

PLASTIC & BAKELITE CEMENT—
 16A440—2 oz. Jar, Each . . . **54c**

VINYLITE CEMENT—A plastic cement for nonporous materials.
 16A441—2 oz. Jar, Each . . . **54c**

LUCITE CEMENT—For lucite and other acrylic materials.
 16A575—2 oz. Jar, Each . . . **59c**

RUBBER TO METAL CEMENT—
 11A76—2 oz. Jar, Each . . . **59c**

Q-DOPE (COIL DOPE)—Coats and seals coil windings, etc. Low RF loss. Ideal for Hi-Freq. use.
 11A25—2 oz. Bottle, Each . . . **54c**

PLI-O-BOND CEMENT—It bonds anything to anything—iron, steel, plastic, glass, aluminum, etc. A truly universal cement.
 11A424, G-C 43-2, **59c**
 2 oz. bottle with brush **59c**
 11A681, G-C 43-8, 8 oz. . . . **\$1.47**

③ CEMENT LAB KIT
 14 different 2 oz. bottles cement.
 No. 22B234, Per Kit **\$5.86**

③ CHEMICALS

CARBON CONTROL CLEANER—Repairs noisy volume controls, switches, etc. Applicator supplied.
 16A443—2 oz. Jar, Each . . . **51c**

"NO-OX" CONTACT CLEANER—Dissolves corrosion by chemical action. Contains no solvent.
 11B68—1 oz. **69c**
 11B174—2 oz. **\$1.01**

CARBON TET—100% pure. Dissolves dirt and grease.
 11A680—8 oz. **93c**
 11A661—16 oz. **\$1.52**

INSULATING VARNISH—Produces waterproof, oilproof, non-corrosive film on coils, transformers, etc.
 11B71—2 oz. **59c**
 11A27—8 oz. **\$1.32**

ANTI-CORONA LACQUER—Has high dielectric strength to prevent corona in TV high voltage.
 11B175—2 oz. Bottle, Each . . . **76c**

CONTACTENE—Lubricates, cleans any moving contact.
 11A429—2 oz. Jar **59c**
 11A430—4 oz. Jar **88c**

TRANSISTOR Z5 SILICONE COMPOUND. Maintains efficient heat transfer from transistor to chassis.
 11C31—1 oz. Tube **\$2.13**

④ INJECTOR

Surgical needle in oil resistant rubber bulb.
 No. 11B234, Each **47c**

⑤ LUBRICATOR

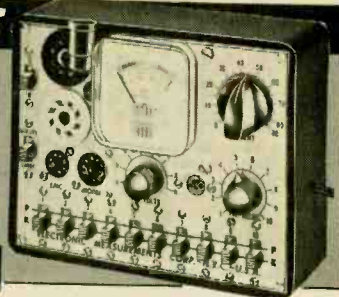
Spring plunger releases lubricant.
 No. 11B150, Each **62c**

BUILD THIS TUBE TESTER AT LOWEST COST

\$14.90 KIT

\$22.90 FACTORY WIRED

MADE BY EMC—FAMOUS TEST EQUIPMENT MANUFACTURER



A complete tube tester, not a gadget! Checks each section of multipurpose tubes separately . . . checks octal, lactal, 9 prong novister, miniature tubes for shorts, leakages, opens, intermittents as well as for quality, same as tube tester costing over three times as much. Shorts or leakages between any two elements in the tube can be detected instantly. Check magic eye and voltage regulator tubes as well.

Quality of tube is indicated directly on a two color meter dial using the standard emission test. Has an etched panel and a high impact bakelite case. Comes complete with instructions and tube charts in ring bound manual. Size 6 3/4 x 5 1/4 x 2 1/4" deep. Operates from 115 V. 60 cy. AC.
 No. 35A143. Shpg. 3 lbs. Complete Kit, Net Each **\$14.90**
 No. 35A160. As above Factory Wired, Net Each **\$22.90**

G-C ZERO-MIST LOCATES TROUBLE INSTANTLY



Spray electronic components in operation, cools instantly pin-pointing faulty capacitors, resistors, transistors, cold solder and oxidized junctions, due to temperature variances. Saves valuable time.

No. 11A629, GC 8667, Net Ea. **\$2.37**

"TROL-AID" SPRAY



Cleans, lubricates, restores carbon controls, switches, relays, solenoids . . . any electrical contact. Provides long lasting protection against noise and oxidation. Will not affect electrical properties nor harm insulators.

11C673, 8 oz. Spray Can . . . **\$1.94**

TUN-O-LUBE TUNER CLEANER



Just spray it on—cleans and lubricates all types of tuners. Leaves a long lasting protective coating against noise and oxidation. Non-inflammatory, non-toxic. Won't harm plastics.

No. 11A373, 8 oz. Spray Can . . . **\$1.94**
 No. 11C675, 16 Oz. **\$2.73**

NO-ARC SPRAY INSULATOR



20,000 Volts Dielectric Strength

Provides a tough insulating coating to prevent arcing and corona shorts. Spray on transformers, yokes, printed circuits, etc.

11A374, 8 oz. spray can . . . **\$2.73**
 2 Oz. bottle with brush applicator.
 No. 11C674, Each **96c**

G-C SPRA-KLEEN



Just Spray it on—Eliminates Noise on Electrical Contacts.

No Fuss or Muss—Just Spray it on to clean and lubricate all electrical contacts, relays, switches, controls and other moving parts in one fast simple operation—no need to remove parts. Provides noise-free performance.

11A361, 6 oz. **97c**
 11C613, 16 oz. **\$1.91**



"QUIETROLE"

Stops noisy operation of switches, volume and tone controls without removal from chassis. Makes all moving parts quiet.

11B4, 2 oz. **\$1.69**
 11B5, 4 oz. **\$2.64**

"QUIETROLE" SPRAY
 6 full oz. of the finest available lubricant-cleaner now in spray can.
 No. 11B6, Per Can **\$2.89**

GC "EPOX" CEMENT KIT



Bond anything to anything. Provides super strength bonds to metal, ceramics, plastic, wood, rubber, etc. Resistant to water, solvent, heat, cold and fungus. Has very good dielectric properties. Cures at room temperature. Contains two mixing ingredients in 1 1/2 oz. tubes.

No. 11B74, GC346 **\$1.91**

INSL-X E-26 CLEAR INSULATING SPRAY



Quick dry—3 to 5 minutes. Insulate everything in TV except moving parts and tubes, spray antenna and all connections. Prevents corona, arcing—keeps out moisture.

No. 11A683, 12 Oz. Can **\$1.79**

KNOB-PLASTIC REPAIR KIT SETS ROCK-HARD IN 7 MINUTES



REPAIR:
 • Loose or broken knobs.
 • Radio, TV cabinets.
 • 1001 plastic items.

Complete with color kit to match any shade

New fast-setting material repairs anything of plastic. Ideal for joining broken or new parts, creating new plastic to match or fill repairs as needed. Completely moldable in setting stage, conforms to any shape. Once set, it may be sanded, sawed, drilled, tapped or polished. Contains two mixing ingredients plus color kit. Shpg. wt. 1/2 lb.
 No. 41A160, Each **\$1.50**

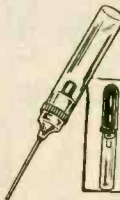
G-C CONTACT BURNISHING KIT



A complete kit for servicing relays, switches, etc. Removes oxide and corrosion from contact points without removing excessive amounts of the precious metal. Contains 2 oz. bottle of contact cleaner and burnishing tool.

No. 11C605, G-C 9339, Each **93c**

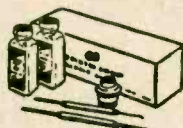
WALSCO OILETTE



Filled with high grade lubricating oil. Telescoping spout permits accessibility to difficult places requiring lubrication. Clever system releases one drop at a time. Does not leak.

No. 11B140, Each Oil Refill Cartridge No. 11B142, Ea. **81c**
 **32c**

PRINTED CIRCUIT REPAIR KIT



Repair any Printed Circuit in Radio and TV sets. Kit: 2 oz. Print-Kote Silicone Resin, 2 oz. Print-Kote Solvent, 1/2 oz. of Pure Silver Print, 1 Solder Probe Tool, 1 Stainless Brush and Scraper, Print-Kote Solder, plus a Printed Circuit Service Manual.

11A396, G-C 680 Kit, Net Ea. . . **\$6.22**

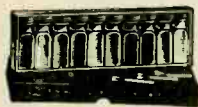
GC PRINTED CIRCUIT SILVER PRINT



Contains pure silver powder as pigment. Use for making or repairing printed circuits. Also ideal for applying conductive coating to non-conductive materials—plastic, glass, ceramic, for grounding and shielding. Brush applicator attached to cap. 1/2 Troy Oz.

No. 11B70, GC21-1 **\$3.23**
COPPER PRINT—A highly conductive fast drying compound for repair and touch-up of printed circuits. Complete with brush-cap bottle, 2 oz.
 No. 11B73, GC20-2 **\$1.91**

MARKING KIT RMA COLOR CODING KIT



Kit contains jar each of red, grey, white, black, brown, orange, purple, blue, green and yellow high quality fast drying lacquer enamel. Complete with brush and color code chart.
 No. 11B47, Per Kit **\$1.44**

SCRATCH REMOVING COMPOUND



Restore plastic and plexiglass surfaces to their original finish in just seconds. Removes unsightly scratches and mars from all plastics—radio and TV cabinets, mirrors—even removes cigarette burns.

Contains a microscopically-thin wax which retards further development of scratches—also cleans and polishes.
 No. 11B47, 5 Oz. Jar **\$1.05**

Winegard TV AND FM ANTENNAS!

NEW "CHROMA-FLEX" VHF-FM ANTENNAS

FOR EXCEPTIONAL COLOR OR BLACK AND WHITE CH. 2-13 TV OR FINEST FM AND FM STEREO

BUY YOUR TV ANTENNAS FROM B-A

WITH COMPLETE CONFIDENCE!

We have pre-selected only items of best value, quality and performance... make your choice, whether for a new installation or for replacing an old worn out one, easier and safer... and you have B-A's money back guarantee that every item is exactly as represented.

USE OUR EASY-PAY PLAN!

See order blank for B-A's No Down Payment Easy Pay Plan

GOLD VINYLIZED

FOR FINEST APPEARANCE AND EXTRA LONG LIFE!

FOR UP TO 175 MILES

MODEL B770
\$38⁹⁵
\$5.00 MONTHLY

CHROMA-FLEX VHF/FM ANTENNAS FOR COLOR, BLACK & WHITE TV AND FM OR STEREO

Chroma-Flex, a new high gain yagi type antenna, lighter in weight and smaller in size than most VHF types. Unique electronic design using Winegard's efficient co-related driven element assembly and patented Electro-Lens director system assures perfect bandwidth and pinpoint directivity as needed for color. Balanced mechanical design is fine for rotor installation. Preassembled. Less mast and 300 ohm lead.

FOR EVERY LOCATION—CHOOSE YOUR RANGE IN MILES

Stock No.	Winegard No.	Max. Range In Miles	Installed Width	Length	Shpg. Wt.	Mfg. List	Net Each
7A82	B-770	175	110"	185"	15 lbs.	\$64.95	\$38.95
7A81	B-660	150	110"	135"	12 lbs.	49.95	29.95
7A80	B-550	125	110"	103"	9 lbs.	34.95	21.00
7A79	B-440	75	110"	84"	6 lbs.	24.95	14.70

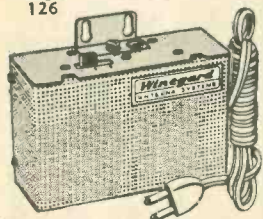
SAVE \$5.00!
COMPARED TO SEPARATE PRICES

SUPER POWERFUL AMPLIFIED SYSTEM

MODEL B770 CHROMA-FLEX ANTENNA PLUS MODEL AP220N TWIN NUVIATOR ANTENNA MOUNTED PREAMPLIFIER



Complete Description AP220N Page 126



\$104.90 MFG. LIST
\$56⁶⁸
COMBINATION OFFER STOCK NO. 7A87

ALL NEW WINEGARD "CHROMA-FLEX" VHF/FM AND UHF ANTENNAS

ONE ANTENNA, ONE LEAD-IN FOR ALL TV AND FM

CH. 2-83 BLACK AND WHITE OR COLOR 88-106 MC FM AND FM STEREO

MODEL B555
\$35⁹⁵

NEWEST AND MOST POWERFUL FM ANTENNAS WINEGARD TWIN-DRIVEN YAGIS

SUPER-POWERFUL FOR FINEST FM STEREO AND MONAURAL RECEPTION

MODEL SF-100

LONG-LASTING GOLD VINYL FINISH

Finest choice for FM everywhere. Carefully engineered, twin-driven wide-spaced Yagi design gives sharp directivity and high rejection of unwanted signals from the back and sides, plus near perfect 300 ohm impedance match. Less mast and lead in.

Stk. No.	Model	Elements	Range	Wt.	Mfg. List	Net Each
7A71	SF-100	10	150 Miles	9 Lbs.	\$32.50	\$19.11
7A73	SF- 80	8	100 Miles	7 Lbs.	24.95	14.65
7A74	SF- 60	6	75 Miles	6 Lbs.	19.95	11.81

See Page 126 For Antenna Mounted FM Pre-Amplifiers

NEW WINEGARD "TRACKER" UHF ANTENNA

MFG. LIST \$29.95

ALL UHF CHANNELS 14 TO 83

\$17⁶¹

Produces exceptional results in any UHF area. Features paraboloid reflector system with average 13 db. gain.

Made entirely of aluminum, gold anodized. Snaplock hardware and factory pre-assembly makes installation easy. Less 300 ohm lead and mast. Shpg. wt. 6 lbs. Mfg. List \$29.95.

No. 7A97. Model U-540. Net Each... **\$17.61**
See Page 126 for Antenna-mounted UHF pre-amplifier.

JFD Television & FM / FM Stereo Antennas

82-CHANNEL

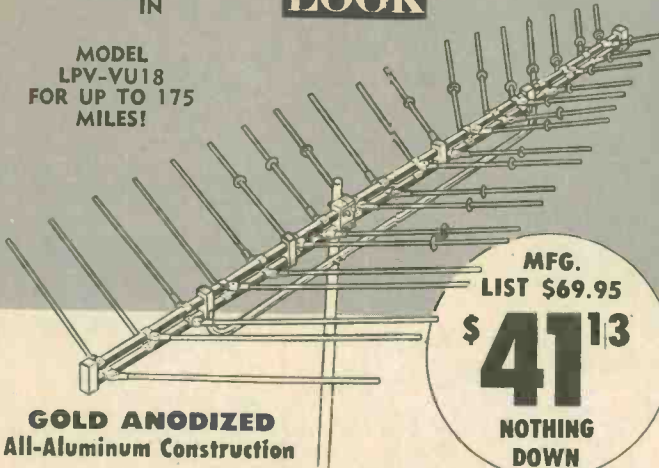
LOG-PERIODIC
LPV-VU SERIES

**THE COMPLETE ANTENNA FOR COLOR OR
BLACK AND WHITE TV-FM / FM STEREO!**

ADVERTISED
IN

LOOK

MODEL
LPV-VU18
FOR UP TO 175
MILES!

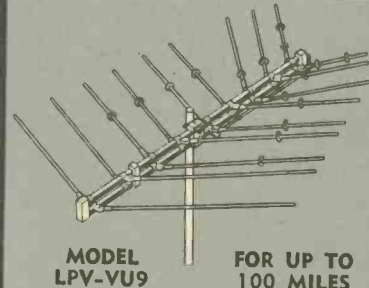


GOLD ANODIZED
All-Aluminum Construction

MFG.
LIST \$69.95
\$41¹³
NOTHING
DOWN

NOW WITH NEW CAP-ELECTRONIC DIPOLES

Advanced application of the famed log-periodic formula now provides even better, more powerful performance than before . . . across all the channels. Major innovation is the capacitor coupled dipoles and directors for extra gain on the higher VHF channels and the UHF channels where antenna power is most needed.



MODEL
LPV-VU9
FOR UP TO
100 MILES



FREE
82 CH.
INDOOR
UHF/VHF
SPLITTER
WITH ANY LPV-VU
SERIES ANTENNA

**RUGGED IN-LINE STYLING—
EXCELLENT FOR ROTOR, ROOF-TOP
OR ATTIC INSTALLATION
ONLY ONE LEAD-IN NEEDED**

AVAILABLE IN FIVE AREA-ENGINEERED MODELS

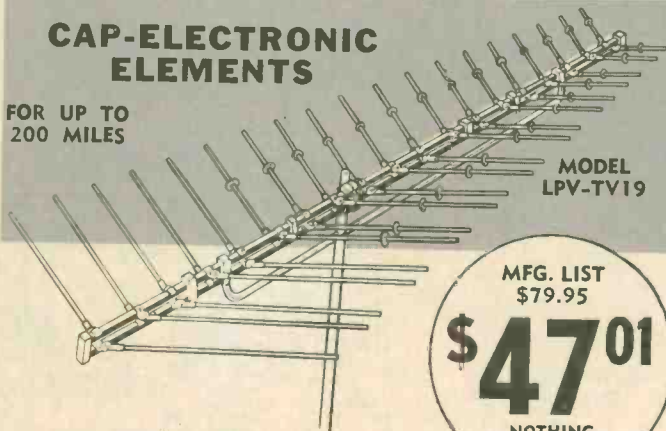
Stock No.	JFD No.	Max Rge., Miles	Size Installed	Shpg. Wt.	Mfg. List	Net Each
		VHF UHF FM	Width Length			
9A154	LPV-VU18	175 90 75	81" 135"	14 Lbs.	\$69.95	\$41.13
9A155	LPV-VU15	150 90 60	81" 116"	13 Lbs.	59.95	35.25
9A156	LPV-VU12	125 65 50	85" 103"	12 Lbs.	49.95	29.37
9A157	LPV-VU9	100 40 40	84" 86"	10 Lbs.	39.95	23.49
9B110	LPV-VU6	75 25 30	100" 50"	6 Lbs.	27.50	16.17
9A234	LPV-VU5	30 20 20	90" 44"	4 Lbs.	17.50	10.29

CHANNEL 2-13 LOG-PERIODIC LPV-TV SERIES

FINEST PERFORMANCE FOR VHF COLOR OR BLACK AND WHITE TV AND FM

**CAP-ELECTRONIC
ELEMENTS**

FOR UP TO
200 MILES

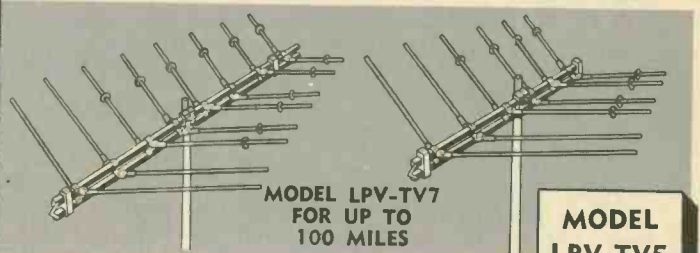


MODEL
LPV-TV19

MFG. LIST
\$79.95
\$47⁰¹
NOTHING
DOWN

GOLD ANODIZED
All Aluminum Construction

The latest and finest VHF Ch. 2-13 interpretation of the acclaimed Log-Periodic formula. Achieves the narrowest beam width (with high rejection of interfering signals) yet produced by an antenna of equal size. Exclusive JFD system of capacitor coupled dipoles and directors enhances high channel gain for superb performance on all channels 2 through 13. Ruggedly constructed . . . excellent for roof-top or attic. Less 300 ohm lead and mast.



MODEL LPV-TV7
FOR UP TO
100 MILES

MODEL
LPV-TV5
FOR UP
TO 75
MILES
\$14⁰⁸

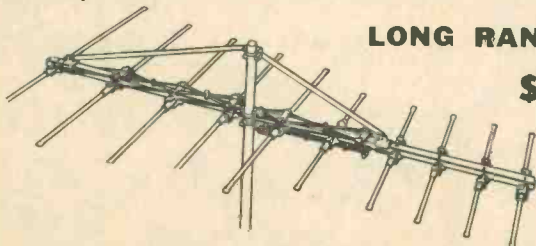
**There's A Model For Every
Location . . . For City, Suburb
Or Far Out Fringe Area**

CHOOSE YOUR LPV VHF ANTENNA BY RANGE IN MILES

Stock No.	JFD No.	Max. Rge. Miles	Size Installed	Shpg. Wt.	Mfg. List	Net Each
		VHF FM	Width Length			
9B55	LPV-TV19	200	105" 200"	24 Lbs.	\$79.95	\$47.01
9B56	LPV-TV16	175	105" 160"	21 Lbs.	59.95	35.25
9B60	LPV-TV13	150	105" 145"	18 Lbs.	49.95	29.37
9A68	LPV-TV10	125	50 105" 110"	11 Lbs.	41.95	24.67
9A71	LPV-TV7	100	50 105" 72"	8 Lbs.	31.95	18.79
9A98	LPV-TV5	75	40 104" 55"	6 Lbs.	23.95	14.08
9B69	LPV-TV3	50	30 104" 40"	4 Lbs.	14.95	8.79

LONG RANGE FM ANTENNAS 88-108 MC

\$29³⁷
MFG. LIST
\$49.95



Brings to FM the unique Log-Periodic concept that has worked wonders in TV reception. Full-wave LP design delivers the clean high-gain selective dipole and wide-band response needed for fully separated distortion-free FM.

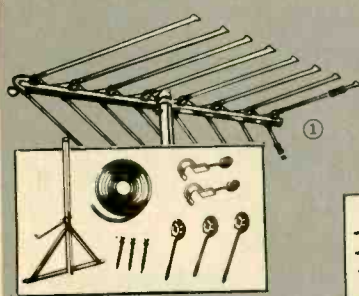
MAKE YOUR SELECTION BY RANGE IN MILES

Stock No.	JFD No.	Recommended Range	Size Installed	Shpg. Wt.
			Width Length	
9A136	LPL-FM10	Up to 175 Miles	140" 143"	10 Lbs.
9A140	LPL-FM8	Up to 150 Miles	140" 116"	8 Lbs.
9A143	LPL-FM6	Up to 125 Miles	140" 88"	6 Lbs.
9A148	LPL-FM4	Up to 75 Miles	140" 59"	5 Lbs.

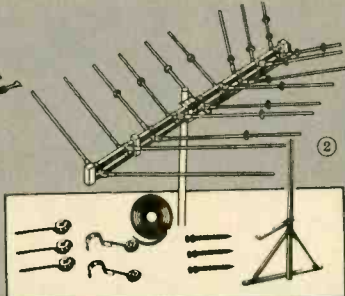
Buy Your TV Antennas From B-A With Complete Confidence

JFD Television And FM Antennas

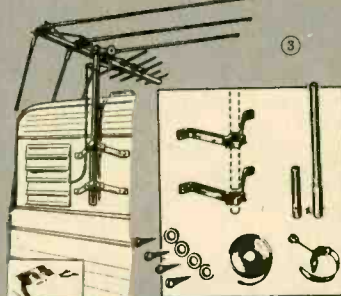
HIGH QUALITY COMPLETE TV-FM ANTENNA OUTFITS
• NO NEED FOR ANY ELECTRONIC EXPERIENCE! **• SIMPLE INSTRUCTIONS INCLUDED**



FOR CH. 2-13 TV
 COLOR, BLACK & WHITE & FM



FOR CH. 2-83 TV
 COLOR, BLACK & WHITE & FM



FOR MOBILE HOMES
 ALL 82 CH. TV & FM



FOR FM

① LOG PERIODIC TV ANTENNA OUTFITS FOR CHANNELS 2 TO 13 TV AND FM/FM STEREO

Includes a Gold Alodized LPV antenna and complete professional accessory kit for a good looking, long-lasting roof-top or attic installation. Clears up reception problems far better than other kinds of antennas. Kit contains aluminum 5 ft. mast with self-supporting tripod base, 50 ft. 300 ohm lead and 5 insulators.

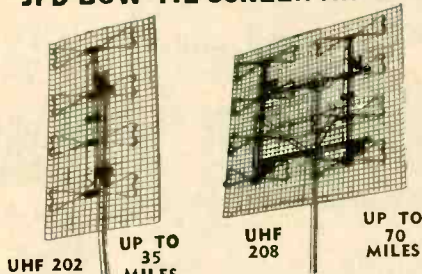
CHOOSE THE LPV KIT THAT SUITS YOU BEST

Stock No.	Antenna With Kit	Recommended Miles Range	Shpg. Wt.	Mfg. List	Net Each
9A87	LPV-4	UP to 50	8 Lbs.	\$21.95	\$12.91
9A88	LPV-6	Up to 75	10 Lbs.	29.95	17.81
9B91	LPV-8	Up to 100	12 Lbs.	37.95	22.31

② LOG PERIODIC 82 CHANNEL COMPLETE OUTFIT

Model LPV-VU9 antenna, rated 100 miles VHF, 40 miles UHF, 40 miles FM. Gold Alodized, all-aluminum. Produces fine color. With UHF/VHF signal splitter, 50 ft. lead, tripod base, 5 ft. mast and hardware.
 No. 9A232. Mfg. List \$47.95. Net Each **\$28.19**

JFD BOW-TIE SCREEN ANTENNAS FOR UHF TV



UHF 202 UP TO 35 MILES

UHF 208 UP TO 70 MILES

FOR CHANNELS 14 TO 83
\$4.82
 Popular 4-Bay Style
 MFG. LIST \$8.20

MOST POPULAR! UHF-202 4-BAY STACK

Rugged 4-stack bow-tie giving the extra gain and high vertical expanse so necessary for dependable reception on all UHF channels. Uses rigid, wind resistant, open cardioid design elements and weather proofed curtain type reflector for finest single direction pickup. Entirely pre-assembled for quick installation. Shpg. wt. 5 lbs. Less mast and 300 ohm lead.
 No. 9A100. Mfg. List \$8.20. Net Each **\$4.82** 6 Lots, Each **\$4.43**

SUPER PERFORMER! UHF-208 8-BAY UHF ANTENNA

Gives up to terrific 12 db gain. Needle sharp on all UHF channels. Fine for those difficult locations, even Translator installations. Uses new weather-free implex "A" insulators, extra heavy-duty galvanized wire screen reflector, cardioid dipoles. Fully pre-assembled. Less mast and 300 ohm lead.
 No. 9A102. Shpg. wt. 10 lbs. Mfg. List \$20.85. Net Each **\$12.25** 6 Lots, Each **\$11.24**

JFD ALL-TRANSISTOR UHF CONVERTER

ADDS CH. 14 TO 83 COLOR & B & W TO YOUR SET



Mfg. List \$39.95
\$27.95

- Exclusive slim line styling — size only 6x7x2 1/2" high.
- Continuous channel tuning . . . smooth accurate action, illuminated dial.

THE VERY LATEST! SPACE AGE CIRCUITRY

Fully transistorized solid-state circuitry utilizes two of the most advanced transistors and one of the latest space-age diodes plus up-to-the-minute design techniques for high frequency amplification and conversion, resulting in tremendous performance and reliability as judged by today's high standards. Amplification of 10 db. and stabilized, drift-free, heat-free operation provide utmost station pulling power . . . high signal-to-noise ratio . . . delivers pictures with extra brilliance. Powered from 115 V. 60 cy. AC. Shpg. wt. 1 1/2 lbs. Mfg. List \$39.95.
 No. 4A175. Model CR2-J. Net Each **\$27.95**

③ LOG PERIODIC 82 CHANNEL—MOBILE OUTFIT WITH FREE UHF/VHF SIGNAL SPLITTER

For finest color, B/W and FM stereo performance. Reinforced all-aluminum, gleaming gold alodized. Dismantles easily, folds up for storage while on the move. Range 30 miles VHF, 20 miles UHF, 20 miles FM stereo.
 No. 9A233. Model LPV-TL5. Mfg. List \$29.95. Net Each **\$17.61**

④ FM STEREO CONE ANTENNA OUTFIT MAKES EXCELLENT ATTIC OR ROOF TOP INSTALLATION

Engineered for finest FM reception in urban areas, even where stations are not all in the same direction. Made of aluminum finished in new gold alodizing for long lasting peak performance. Outfit includes antenna, short mast, side mount brackets for stand off from existing TV or other upright mounting, 50' 300 ohm lead and 5 insulators. Installed size, 120" diameter, 6" high. Wt. 4 lbs.
 No. 9A141. Model AFM175G. Mfg. List \$13.95. Net Each **\$8.20**

JFD "JET" VHF INDOOR ANTENNAS

CHANNELS 2 TO 13
 CLARIFY YOUR Picture . . .
 BEAUTIFY YOUR HOME!



Only 13" high . . . but extends to full 38" to capture maximum signal. Ratchet-swivel design permits quick, easy and positive positioning of dipoles. Decor-styled mahogany base has fine appearance. Weighted to prevent accidental tipping. Complete with 300 ohm lead. Wt. 2 lbs.

① Standard Channel 2-13 "Rabbit Ear".
 38B118. 10 Lots, Each **\$1.02**
 Net Ea. **\$1.13** 25 Lots, Each **93c**

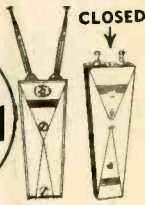
② Switch Type "ASTRO-JET" with new "4 section" dipoles like above. Has unique 6-position electronic phasing switch to match set impedance and electrically adjust antenna for maximum signal. Helps tune out ghosts. Covers VHF and UHF channels 2 to 83. Mfg. List \$9.95.

No. 38B117. Model TA990. Mfg. List \$2.60. 10 Lots, Special Each **\$2.34**

UNIVERSAL ANTENNA FOR PORTABLE TV SETS

Installs easily on back of set. Telescoping 5-section 37" dipoles pivot on ball socket in all directions, disappear into antenna housing when not in use. Length closed 7 3/4". Wt. 2 lbs. Mfg. List \$4.95.
 No. 38C110. Model TA155. Mfg. List \$2.91. Net Each **\$2.91**

MFG. LIST \$4.95
\$2.91

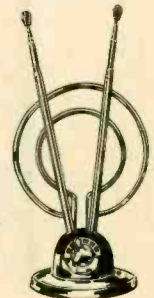


NEW VHF-UHF ALL-CHANNEL INDOOR ANTENNA

FOR URBAN CHANNELS 2 TO 83 TV

\$3.11

All-new for the all channel city areas. Four section 38" dipoles receive VHF, double direction-finding loops receive UHF; 6-position impedance matching switch helps clear up ghosts. Made of polished brass. Base is mahogany toned, weighted. Separate 300 ohm leads for VHF and UHF. Shpg. wt. 2 lbs.
 No. 38B116. Model TA995. Net Each **\$3.11**



Buy Your TV Antennas From B-A With Complete Confidence

TV-FM Antennas & Accessories

ANTENNACRAFT

NONE FINER FOR VHF CHANNELS
2-13 COLOR/B & W, FM/
STEREO



\$35⁹⁷
ONLY \$5.00 PER MONTH

225 MILES VHF
75 MILES FM
"MARK 30" COLORSTAR

HIGH PERFORMANCE ANTENNAS AT B-A's LOWEST PRICES!

TOTAL RECEPTION! ALL 82 CHANNELS
COLOR/B & W FM/STEREO



ONLY
\$7⁷⁷
COMPLETE KIT

"BIG-SHOT 8"
CITY-SUBURBAN
ANTENNA

Colorstar, electronically and mechanically right for finest VHF TV/FM everywhere!

All-riveted pre-assembled construction . . . snap-lock precision formed aluminum elements with extra strength sleeve at critical points, high impact molded insulators, crush proof mast clamp, Dura Gold vinyl acrylic finish—and top quality workmanship plus proven engineering design. That's "Colorstar"—quality and performance that belie the low B-A prices! Less mast and 300 ohm lead.

Big Shot-8 Complete Kit. (Antenna only illustrated) Includes 4 ft. tripod mount, 50' lead-in, stand-offs and all necessary hardware for a fine roof-top installation. Other 82 channel antennas below are less mast and 300 ohm lead. All are of finest materials, riveted and reinforced, and are designed for quick installation. Dura-Gold sealed for permanent high performance.

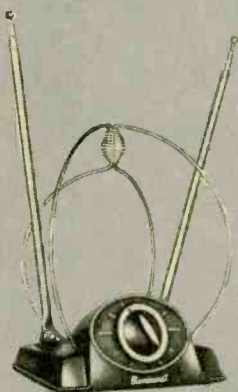
CHOOSE YOUR 82-CHANNEL ANTENNA BY RANGE IN MILES

Stock No.	Colorstar Model	Range Miles		Shpg. Wt.	Mfg. List	Net Each
		VHF	FM			
9A224	Mark 30	225	75	12 Lbs.	\$59.95	\$35.97
9A225	Mark 23	175	60	10 Lbs.	44.95	26.97
9A226	Mark 17	125	50	7 Lbs.	29.95	17.97

Stock No.	Antennacraft Model	Range In Miles			Shpg. Wt.	Net Each
		VHF	UHF	FM		
9A227	"Big-Shot 8" Kit	75	25	30	4 Lbs.	\$ 7.77
9A228	UVFM110	100	40	40	5 Lbs.	8.98
9A229	UVFM150	125	65	50	6 Lbs.	14.97
9A230	Mark 18	150	90	60	7 Lbs.	19.77
9A231	Mark 21	175	90	75	9 Lbs.	25.77

"Rembrandt" Super-Powered INDOOR TV ANTENNAS

82 CHANNEL COLOR/BLACK & WHITE TV, FM/STEREO

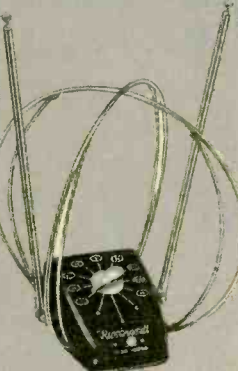


RECEPTION KING

\$7⁹⁵
MODEL 222

Clearer, sharper pictures on all VHF/UHF channels due to the combined action of the extra long 46" five section telescoping arms and the electronically tuned crossed loops. Has 12-position picture correction control, slim-line styling, walnut toned base.

Built to outlast and outperform all ordinary indoor antennas.
No. 38A114. Model 222. Each \$7.95



\$12⁹⁵
MODEL 444

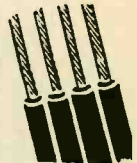
Developed especially for color, therefore excellent for black and white TV reception and FM/Stereo on all 82 channels. Constant true-to-life color levels and sharper color register assured through color phasing loops and new color filter control. Also has 12 position picture correction control to clear up annoying ghosts in the most difficult areas.

Modern eye-appealing design, finest materials and construction, walnut toned base . . . no better choice anywhere for long-lasting top performance.
No. 38A113. Model 444. Each \$12.95

BELDEN ANTENNA ROTATOR CABLE

Vinyl plastic weatherproof insulation. Flexible stranded.

Stk. No.	Belden Type	Description	Ft.	100 Ft.
2B20	8464	4-Cond. #20 Flat	4 1/2 c	\$3.30
2A232	8463	5-Cond. #20 Flat	5 c	4.00
2B21	8485	5-Cond. #20 Round	5 c	4.30
2B22	8488	8-Cond. #22 Round	6 c	4.95



3-WAY ANTENNA OR SPEAKER SWITCH

Double pole, 3 positions. For 300 ohm antenna leads, speakers, etc. Screw terminals.

No. 18A999. Mosly F-20. Ivory. Net Each \$2.48



FILTERS FOR IMPROVED TV RECEPTION

CLEAR UP MOST PROBLEMS CAUSED BY UNWANTED SIGNALS

DRAKE "HIGH PASS" TV FILTER

To stop interference entering TV Set through 300 ohm antenna lead.

Eliminates amateur or other signals on 6 thru 160 meters. 60 db attenuation from zero to 52 mc. Does not decrease TV signal itself.

29A86. Type TV-300-HP. Wt. 8 oz. Net Ea. \$4.41



TV "IGNITION INTERFERENCE" ELIMINATOR

INSTALLS AT THE TV SET

Very effective yet simple to connect . . . does not require removing or cutting the antenna lead.

Rejects streaks and "static" caused by ignition of motor cars, buses, etc. Size 1 1/2" L, 1 1/8" dia. Shpg. wt. 8 oz.

14B117. Superex. Model CPI. Net Each \$1.17



TUNABLE TELEVISION CLARIFIER

Highly popular and effective "TVI" filter for eliminating or greatly reducing lines, herringbone patterns, tears, wavy effects and other picture distortion when caused by FM, Police, Amateur and other short wave transmitters; diathermy, industrial equipment, ignition and adjacent TV channels. Does not reduce wanted signal. Can be installed and tuned for clearest picture by anyone. Full instructions included. In metal case, size 4x3 1/4x1 1/2".

29A243. Mfg. List \$7.50. Wt. 8 oz. Net Each \$4.41



LOW COST REGENCY TVI HI-PASS FILTER

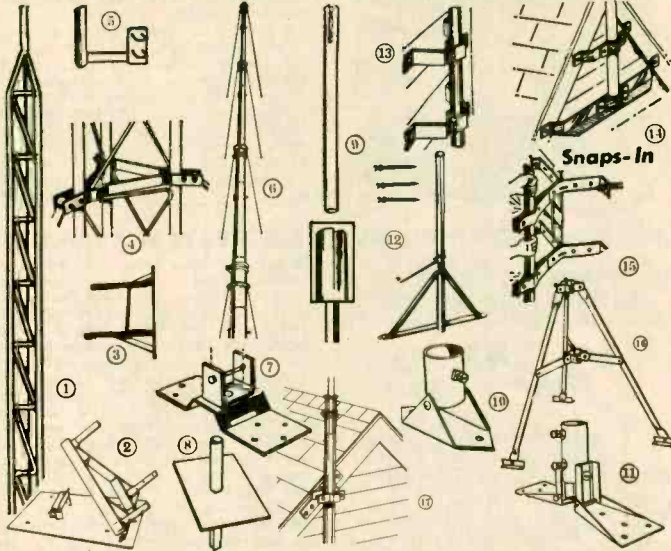
Effectively suppresses most common television interference. Carefully designed, small and simple to install right on the set. Requires no tuning and no maintenance. There is no loss of signal to the television set while interfering signals below 45 MC are suppressed.

No. 17B1143. Wt. 4 oz. Net Each 99c



Antenna Towers, Masts and Rotators

HIGHEST QUALITY ANTENNA MOUNTS



- ① ROHN 25G GALVANIZED 1 1/2" TRIANGULAR TOWER SECTIONS**
Will stand 35 feet above house bracket without guys, 200 ft. max. when guyed. Hot-dipped galvanized seamless 1 1/4" heavy wall uprights, 8 precision welded zig-zag braces per 10 ft. section, double bolted section joints.
No. 6A47. 10 Ft. Straight Section. Rohn 25G. 40 lbs. Net Each. **\$18.25**
No. 6A48. 9 Ft. Top Section for 1 1/4" Mast. 31 lbs. Net Each. **\$19.10**
No. 6A44. 8 Ft. Amateur Top Section. 1 1/2" dia. flat top plate, 2 1/4" center hole. Rohn 25AG-4. Net Each. **\$22.65**
6A56-2. Ground Base & 3-4 Ft. Drive Rods. 18 lbs. Per Set. **\$11.00**
⑥ 6A42. Hinged Base. BPH-25G. 15 lbs. Net Each. **\$21.50**
⑥ 6A53. House Bracket, 15" to 24". Rohn HB25BG. 10 lbs. Net Ea. **\$5.50**
⑥ 6A57. Guy Bracket with 3 Torque Bars. 9 lbs. Set. **\$7.10**
⑥ 6A51. Rotor Post. Mounts inside tower. 3 lbs. Net Each. **\$1.80**
6A43. Rotor Plate. AS-25G. For Ham "M" inside tower. 5 lbs. Ea. **\$8.50**

② ROHN GALVANIZED TELESCOPING MASTS
Heavy 17 gauge. Has mast brake for simpler installations. Sections 10' long hot-dipped galvanized inside and out. With guy rings.

Stk. No.	Height	Tubing Size	Wt. Lbs.	Net Ea.	6 Lts., Ea.
6A90	20 Ft.	1 1/2" to 1 1/4"	15	\$5.28	\$5.02
6A89	30 Ft.	1 3/4" to 1 1/4"	24	8.58	8.15
6A88	40 Ft.	2" to 1 1/4"	34	11.66	11.08
6A91	50 Ft.	2 1/4" to 1 1/4"	48	15.78	14.99

- ⑦ 4A114. Universal Base. All-angle, rotatable. 2 lbs. Net Each. **63c**
⑧ 4A184. Ground Mount. Handy drive-in type. 3 1/2 lbs. Net Each. **\$1.45**
⑨ 4A127. Side Mount Clamp 1 1/4" thru 2 1/2" O.D. Net Each. **\$1.45**

- ⑩ STEEL AND ALUMINUM MASTS—self coupling, stacking.**
6A114. 10 ft. x 1 1/2". Hot-dip galv. steel. 7 lbs. Ea. **\$2.06** 10 @ Ea. **\$1.86**
6A106. 5 ft. x 1 1/4". Aluminum 1 lb Ea. **.88** 10 @ Ea. **.79**
6A107. 10 ft. x 1 1/4". Aluminum. 2 lbs. Ea. **1.67** 10 @ Ea. **1.50**
⑪ 4A126. All-Angle Base. Galv. steel. 1 1/2 lbs. Ea. **.45** 12 @ Ea. **.43**
⑫ 4A124. Univ. Roof Mount. Galv. steel. 1 1/2 lbs. Ea. **.85** 12 @ Ea. **.77**

- ⑬ ND-GUY ROOF MOUNT.** With 5-Ft. Aluminum Mast
6A66. All-Aluminum gald alodized. Wt. 3 lbs. Ea. **\$3.84** 10 @ Ea. **\$3.46**
⑭ CLOSE WALL MOUNT. 4" clearance. Mounts masts to 1 3/4" dia.
4A156. Zinc plated steel. 1 lb. Per Pr. **\$0.69** 10 Pr. Ea. **\$0.63**

- ⑮ HOUSE PEAK MOUNT.** 30" long. For masts to 1 3/4" dia.
4A140. Zinc plated steel. 4 lbs. Per Pr. **\$3.45** 10 Pr. Ea. **\$3.28**
⑯ STAINLESS STEEL STRAP CHIMNEY MOUNT. 12' long straps.
4A160. 4 lbs. Per Pr. **\$3.68** 10 Pr. Ea. **\$3.49**

- ⑰ ROHN TRIANGULAR ROOF MOUNTS**
Hot dipped galvanized tubular steel. Takes masts to 1 3/4".
No. 6A62. 3 Ft. Type TRT36. Wt. 8 lbs. Net Each. **\$4.15**
No. 6A63. 5 Ft. Type TRT60. Wt. 11 lbs. Net Each. **\$6.35**

GUYING ACCESSORIES



- ① No. 18B145. 1/8" GUY WIRE CLAMP. Each **18c.** 10 For **\$1.50**
① No. 18C164. 3/8" GUY WIRE CLAMP. Each **18c.** 10 For **1.50**
① No. 18A384. 4" x 1/4" TURNBUCKLE. Each **14c.** 10 For **1.26**
① No. 18A386. 5 1/2" x 1/4" TURNBUCKLE. Each **18c.** 10 For **1.69**
① No. 19B1020. 7 1/2" x 3/8" TURNBUCKLE. Each **48c.** 10 For **3.98**
② No. 19A644. GUY WIRE THIMBLE. Each **6c.** 10 For **.40**
② No. 19B986. 1 1/2" MAST GUY CLAMP. Each **21c.** 10 For **1.90**
③ No. 18A692. Leak-Proof Guy Anchor. Each **24c.** 10 For **2.16**
④ No. 18B146. Screw Eye Guy Anchor. Each **5c.** 10 For **.45**
⑤ No. 18A59. 1 1/2" Strain Insulator. Each **9c.** 10 For **.81**
⑥ No. 18A60. Heavy Strain Insulator. Each **25c.** 10 For **2.09**

SCREW-IN EARTH ANCHOR FOR GUYS

Very easy to install. Literally screws into ground at an angle to conform with pull of the guy. Pounds of pull rating is for average soil. Rods are 48" long, have 1 1/2" eye.

Stk. No.	Withstands Pull	Description	Wt.	Each	6 @ Ea.
2A205	1500 lbs.	4" Plate, 3/4" Dia. Rod.	6 lbs.	\$2.60	\$2.36
2A206	2500 lbs.	6" Plate, 3/4" Dia. Rod.	8 lbs.	3.12	2.84

C-D-R ANTENNA ROTORS FOR TV AND AMATEUR BEAMS



① NEW ROTOR FOR "CLOSE-IN" AREAS

Designed for the new highly directional antennas that are required for maximum performance on color TV, UHF-TV and FM stereo. Sized to handle single bay antennas. Integral solid steel shaft holds antenna directly. Shpg. wt. 12 lbs.

- Model TR-10 with switch control and light direction indicator. No. 4A188. Mfg. List \$37.95. Use 8-wire cable. Net Each. **\$21.95**
Model AR-10 with automatic control. Stops where dialed. No. 4A189. Mfg. List \$44.95. Use 4-wire cable. Net Each. **\$26.95**

② HEAVY DUTY ROTOR UNIT

First choice of thousands! Rotates full 375 degrees at approximately 1 RPM with positive, automatic stop in either direction. Instant reversing. Built-in 6 1/2" diameter ball thrust bearing will handle heavy antennas... no additional bearing support needed. Clamps take 7/8" to 2" dia. masts. Mounts also on flat surface when lower mast support is removed. Mechanism has ball bearings, lifetime lubrication. Shpg. wt. 15 lbs.

- With Manual Control TR-2C. Newly designed. Convenient switch operation. Mfg. List \$47.95. Use 8-wire cable. No. 4A186. Net Each. **\$29.95**
With Automatic Control AR-22R. Antenna turns and stops as dialed. No. 4A185. Mfg. List \$54.95. Use 4-wire cable. Net Each. **\$33.95**

alliance TENNA · ROTOR

FOR TELEVISION OR LIGHTWEIGHT AMATEUR BEAMS

WITH INDICATOR LIGHT
MFG. LIST PRICE \$29.95

\$18.98

• UNSURPASSED PERFORMANCE • SUPERB STYLING



CHOICE OF THREE TYPES OF CONTROLS

Rotator. Swings antenna either direction through a full 360° in 1 minute. Stops where desired. Magnetic brake prevents drifting. Has automatic stop at end of rotation, permanent lubrication and strong, weather-tight die-cast metal housing. Masts up to 1 3/8" dia. slip through rotor; are held by clamps.

Size 7 3/4" x 5 1/2" x 8" H. Control boxes operate on 115 V, 60 cycle AC. Shpg. wt. 12 lbs. Model K22 with switch bar and light indicator to show end of rotation. No. 4A173. Mfg. List \$29.95. Use 4-wire cable. Net Each. **\$18.98**

Model T45 with switch and meter indicator to show antenna direction. No. 4A176. Mfg. List \$39.95. Use 5-wire cable. Net Each. **\$24.53**

Model C225 with silent automatic control. Rotator stops at direction dialed on the control. Use 5-wire No. 20 cable. No. 4B154. Mfg. List \$59.95. Net Each. **\$35.25**

STRANDED GALVANIZED STEEL GUY WIRE

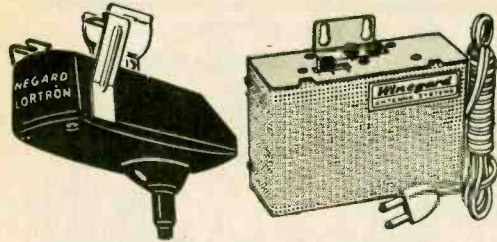
Highest quality, full gauge steel wire, heavily galvanized to prevent rust and corrosion. Specially coiled to minimize kinking and tangling. Approximate breaking strength: 4 strand No. 20, 240 lbs.; 6 strand No. 20, 350 lbs.; 6 strand No. 18, 640 lbs. Approx. shpg. wts. from 13 to 33 lbs. per 1000 ft.

Stk. No.	Description	Length Spool	Price	Stk. No.	Description	Coil 10 Coils
2B147	4 strands No. 20	1000'	\$5.00	3B95	4 strands No. 20	33c \$3.00
2B148	6 strands No. 20	1000'	6.40	3B103	6 strands No. 20	45c 4.10
2B149	6 strands No. 18	500'	5.20	3B107	6 strands No. 18	60c 5.20

GALVANIZED AIRCRAFT GUY CABLE
2A211. 1/8"-2100 Lb. 100' For **\$6.55** 2A213. 3/16"-4700 Lb. 100' For **\$9.15**
2A212. 3/8"-3300 Lb. 100' For **\$7.15**

TV Boosters, Amplifiers

WINEGARD COLORTRON TWIN-NUVISTOR ANTENNA MOUNTED PRE-AMPLIFIERS



AP-220N
MFG. LIST \$39.95
\$23.49

MAKES A SUPER POWERFUL VHF ALL-CHANNEL ELECTRONIC SYSTEM OF ANY TV OR FM ANTENNA

FAR OUTPERFORMS ORDINARY BOOSTERS . . . ALLOWS LONG DISTANCE RECEPTION IN ANY AREA WITHOUT OVER-DRIVING FROM STRONG LOCAL STATIONS

Can be remotely located up to 1600 ft. from AC source when using open wire lead, up to 500 ft. using 300 ohm ribbon.

Twin-nuvisor "Colortron" all channel pre-amplifier "sparks up" the signal tremendously—makes any TV or FM antenna do a far better job over greater distance. Direct coupling to the antenna feeds only wanted signals into the amplifier, avoids boosting noise, ghosts, etc. normally picked up on the lead-in. Amplifier, in weatherproof high-impact polystyrene housing, uses very latest nuvisor techniques for high gain, low noise and distortion and trouble free service. Will take an input signal voltage from strong local stations of 400,000 microvolts compared to 75,000 for a single tube and 20,000 for a single transistor without cross modulation distortion.

AC operated power unit at the TV or FM set provides safe 30 volts AC power to the preamplifier over the same 300 ohm lead that carries the signals. Signal outlet in power unit operates 1 or 2 sets directly, up to 10 sets in normal areas, 6 in fringe areas using the Winegard line Tap-Off Set Outlets on page 127. Shpg. wt. 3 lbs.

THERE IS A COLORTRON AMPLIFIER FOR EVERY USE ALL MODELS HAVE 300 OHM ANTENNA INPUT

Stock No.	Winegard Model	Used For	Signal Outlets At Power Unit	Mfg. List	Net Each
4A157	AP-220N	TV	2-300 Ohm	\$39.95	\$23.49
4A151	AP-275	TV	1-75 Ohm	44.95	26.43
4A152	AP-320	FM	2-300 Ohm	39.95	23.49
4A159	AP-375	FM	1-75 Ohm	44.95	26.43

NEW TWIN TRANSISTOR SUPER "RED-HEAD" POTENT NEW MODEL RS-75T PRE-AMPLIFIER



Mfg. List \$79.95

\$47.01

FOR CHANNELS 2-13 TV

33 DB. GAIN-AMPLIFIES SIGNAL 45 TIMES

Use on any TV antenna for black and white, color.

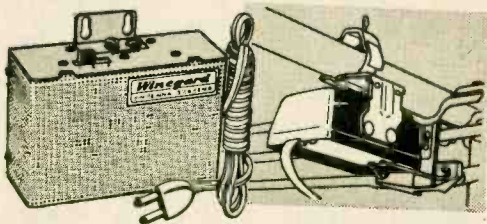
Fantastic performance . . . measured 33 db gain on all channels 2-13 . . . noise figure as much as 2 db better than any TV pre-amp previously available . . . assures TV, even color, in the deepest fringe areas.

Exclusive twin transistor antenna mounted amplifier takes signals to 160,000 MV (80,000 per band) without overloading . . . use it in almost any area. Designed for 75 ohm RG59U lead in. Use RG11U if down lead length is over 70 ft. Antenna input, 300 ohms.

AC Power unit at set provides 2-75 ohm or 2-300 ohm outputs for TV sets. 115 V. 60 cy. AC. Shpg. wt. 3 lbs.

No. 4A166. Model RS-75T. Mfg. List \$79.95. Net Each. **\$47.01**

WINEGARD TRANSISTOR TV-FM RD-300 "RED-HEAD" ANTENNA AMPLIFIER



MFG. LIST \$29.95

\$17.61

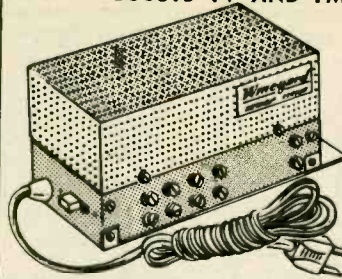
MAKES AN ELECTRONIC POWER SYSTEM OF ANY TV OR FM ANTENNA

INSTALL IT . . . FORGET IT. Powerful, reliable and trouble-free. Boosts signal a fabulous 18 db average on the low VHF and FM bands, 14 db average on the high band. Cuts snow, brings in finest FM and Multiplex, outperforms any ordinary booster. Most certainly the next best thing to the "Colortron" boosters above. For use in all areas receiving 5 to 20,000 microvolts of signal where no TV or FM station is near by to cause signal overloading.

Weatherproof outdoor transistor amplifier mounts on antenna or side of house. Same 300 ohm lead carries TV-FM signal as well as low voltage power for the amplifier. Coupler unit at set handles 2 300 ohm sets, takes power from regular AC outlet. Will operate 4 to 6 sets using 300 ohm set couplers or 300 ohm line tap-offs on page 127.

4A161. Model RD-300. Mfg. List \$29.95. Wt. 2 lbs. Net Each. **\$17.61**

WINEGARD HOME SYSTEM AMPLIFIER BOOSTS TV AND FM SIGNALS UP TO 8 DB



2 TUBES DRIVE UP TO 4 SETS
Easy, inexpensive way to get maximum performance from small antennas installed in the attic or low on the roof-top. Boosts signal and splits it to 4 separate 300 ohm leads for TV or FM sets. Has excellent frequency response. Can withstand high power of local stations without overloading, yet boosts more distant ones. 27/8x67/8x33/8". 115 V. 60 cy. AC powered, 12 watts. Wt. 3 lbs. Mfg. List \$29.95.

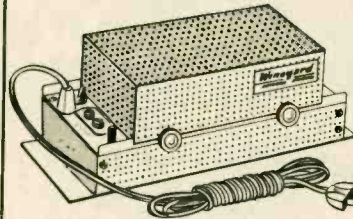
No. 4A165. Winegard Model BC-208. Net. **\$17.61**

Winegard HOME OR BUSINESS SYSTEM AMPLIFIER

DRIVES 1 TO 10 TV-FM OUTLETS —15 DB. BOOST

\$26.43

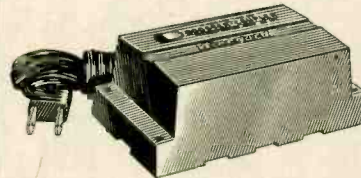
MFG. LIST \$44.95



Especially recommended for large homes, small motels, sales and demonstration areas, etc. Fine professional quality throughout, operating efficiently with two 6HA5 tubes. Has exceptionally uniform response and very low noise characteristics. Will withstand 350,000 microvolt local signal without overloading. Has single input and output for 75 or 300 ohm lead. Also provides voltage for operating antenna mounted Colortron pre-amplifier if desired for a super-gain system having no equal. Perforated steel cabinet 27/8x91/4x33/8"—operates on 117 V. 60 cy. AC. To be used with couplers and wall outlets on page 127. For instance, will operate 10-300 ohm sets using a single LT-103 coupler. Mfg. List \$44.95.

No. 4A168. Model A-215. Wt. 3 lbs. Net Each. **\$26.43**

NEW WINEGARD VHF-TV-FM TWO-SET BOOSTER COUPLER



NEW TRANSISTORIZED MODEL BC-107

Low cost, highly practical solution for weak signals in most areas. Will properly run two TV's or TV and FM from a single 300 ohm antenna lead. Gain 12 db on a single set across channels 2-13 and FM; for 2 sets 7 db. Incorporates precision module circuitry. In small molded case. Operates on 115 V. 60 cy. AC. Mfg. List \$18.95.

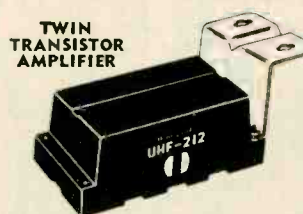
4A145. Model BC-107. Net Each. **\$11.22**

NEW WINEGARD "FM SUPERCHARGER" TRANSISTORIZED—MODEL FM-340 8-TIMES MORE SIGNAL +17 DB. GAIN

Installs easily, right at the FM set. Reduces background noise and clears up reception of all FM including FM stereo. Withstands 45,000 microvolt signal without overloading. 300 ohm input and output. 115 V. AC powered. Case same as above.

No. 4A170. Model FM-340. Mfg. List \$18.95. Net Each. **\$11.22**

UHF TV ANTENNA MOUNTED BOOSTER



DEPENDABLE TRANSISTORIZED ELECTRONIC INTENSIFIER FOR ANY UHF ANTENNA—IMPROVES SIGNAL-TO-NOISE RATIO UP TO 12 DB

MFG. LIST \$44.95

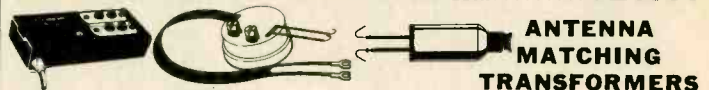
\$26.43

MODEL UHF-212



Adds extra range and performance to UHF-TV by amplifying the signal right at the antenna, instead of after extraneous noise has been picked up by the lead in. New 2 transistor amplifier has 12 db gain with flat frequency response ±1/4 db across any UHF channel. Requires 300 ohm lead between power supply at set and antenna mounted amplifier.

No. 4C138. Model UHF-212 Ch. 14 to 83. Net Each. **\$26.43**

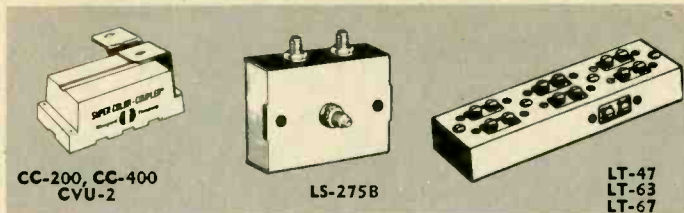


ANTENNA MATCHING TRANSFORMERS

T5911M, CA283 CS283 T735
Couples 300 ohm VHF-TV/FM antenna to 75 ohm coaxial cable for superior noise-free lead in. Finest low loss type.
No. 18B587. T5911M 300/75 Ohm Antenna Trans. Net Each. **\$3.65**
No. 18B559. T735 75/300 Ohm Set Trans. Net Each. **\$1.76**
Joins UHF and VHF Antennas for single 300 ohm lead in.
No. 18B542. CA283. Net Each. **\$2.33**
Splits UHF and VHF Signals from single 300 ohm lead in.
No. 4A169. CS283. Net Each. **\$1.76**

TV-FM Set Couplers, Wall Plates, Filters

WINEGARD MULTIPLE SET COUPLERS



Used in home TV-FM systems. Divides signal from antenna or booster lead for operating 2 or more sets, or for wiring 2 or more outlets where one set is to be moved about in the house. See explanation of coupler systems and wiring right below. **CC-200** and **CC-400**, new ferrite core balun, 22 db isolation; excellent for color sets. **CVU-2** couples or splits UHF-FM or splits VHF-UHF signals. **LS-275B**, also used as "line splitter" for branch leads in larger systems, has screw-on coaxial connectors included. Others have terminal screw fittings. **CC-200**, **CC-400** and **CVU-2** have 5-way mounting bracket for outside or inside mount. Others for inside use only. Use only one **Standard Antenna Outlet** listed at right on each branch.

Stock No.	Winegard No.	TV or FM Sets	Signal Input Wiring	Branch Wiring To Each Set	Net Each
18B561	CC-200	2 VHF/FM	300 Ohm	300 Ohm Lead	\$2.65
18C564	CC-400	Up to 4 UHF/VHF/FM	300 Ohm	300 Ohm Lead	3.23
18B565	CVU-2	2 UHF/VHF/FM	300 Ohm	300 Ohm Lead	2.32
18B567	LT-63	Up to 6 VHF/FM	300 Ohm	300 Ohm Lead	4.67
18B570	LT-103	Up to 10 VHF/FM	75 Ohm	300 Ohm Lead	7.61
18B573	LS-275B	2 UHF/VHF/FM	75 Ohm	75 Ohm Coax	6.17
18B575	LT-47	Up to 4 VHF/FM	75 Ohm	75 Ohm Coax	3.38
18B576	LT-67	Up to 6 VHF/FM	75 Ohm	75 Ohm Coax	4.67

WINEGARD ANTENNA MOUNTED COUPLERS

LOW LOSS UNITS FOR MATCHING LEAD-IN TO 1 OR 2 ANTENNAS



FOR 1-TV VHF ANTENNA AND 1-TV-UHF ANTENNA TO ONE 300 OHM LEAD-IN
Used outside to join signals for single lead. Another CA2-83 may be used at set to split signals for separate VHF-UHF inputs.

No. 18B542. CA2-83. Net Each \$2.33

FOR 2-TV-FM VHF ANTENNAS TO ONE 300 OHM LEAD-IN

Matches two VHF TV antennas, where separate orientation is required for reception on different channels, to use a single lead in without switches. No. 18B578. Type CA213. Net Each \$3.23

FOR 1-VHF-TV and 1-FM ANTENNA TO ONE 300 OHM LEAD IN

The only proper method of joining separate TV and FM antennas. Use another identical coupler at sets to divide signal again. No. 18B586. CAFM. Net Each \$2.85

BLONDER TONGUE AMPLIFIERS AND COUPLERS

FOR UHF-VHF CH. 2-83 HOME TV SYSTEMS

... BRING-IN SHARP SNOW-FREE PICTURES ... BEST FOR COLOR



U-VAMP-2 V/UALL-2 COUPLERS

U-VAMP-2 UHF-VHF DELUXE MAST-MOUNTED AMPLIFIER

With two high gain silicon transistors and remote power supply for peak performance in any location. Separate 300 ohm UHF and VHF inputs and outputs. Increases signals up to 5 times, drives up to four sets when used with couplers. Shpg. wt. 2 lbs. No. 4A110. Mfg. List \$49.95. Net Each \$35.25

V/UALL-2 UHF/VHF DELUXE INDOOR AMPLIFIER

Delivers picture pulling power to bring in weak signals. Single 300 ohm combined UHF/VHF input; two 300 ohm combined UHF/VHF outputs. Two transistors, 115 V. AC powered. Will drive up to four sets, used with couplers. No. 4A111. Wt. 1 lb. Mfg. List \$42.50. Net Each \$29.15

HIGH EFFICIENCY 2 AND 4 SET COUPLERS FOR ALL CHANNELS 2-83 VHF-UHF AND FM

Makes one permanently installed antenna serve every set in the home. Also ideal for use with amplifiers like above. Use 300 ohm lead for wiring and standard wall plates or surface outlets. Tan plastic weatherproof case, 2 7/8 x 2 1/4 x 1 3/8" H. Installs in basement, attic, outside, etc.

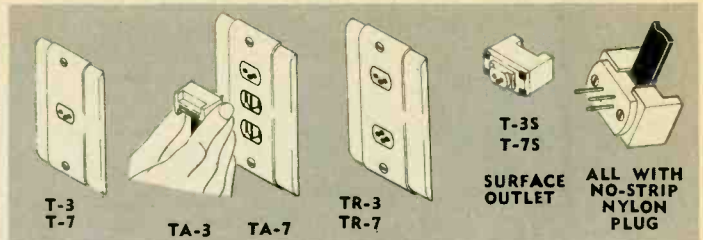
No. 4A107. For 2 sets. Model A102-U/V. Mfg. List \$3.75. Net Each \$2.40
No. 4A108. Up to 4 sets. Model A104-U/V. Mfg. List \$5.85. Net Ea. \$3.70
No. 4A109. Mast Mounting Kit. Net Each .73c

TV WIRING FOR YOUR HOME & BUSINESS FREE BLONDER-TONGUE TV SYSTEM PLANNING GUIDE

No. 25B103. Ask for it.

Explains how to layout UHF-VHF TV and FM distribution systems for home and business. Write B-A—we can help you design a complete B-T system.

WINEGARD TV-FM ANTENNA OUTLETS



Finest molded construction, for long-lasting service. **Flush Wall Plate Types**, for hidden wiring, use the modern Despard electrical outlet plates matching perfectly the design, appearance and color of AC outlets and switches being installed in modern homes. All flush wall plates except those with AC outlets can be installed with or without standard electrical boxes. **Surface Outlets** for exposed wiring are installed with two wood screws. All types are complete with matching "no-strip" molded plugs. AC combination types are with duplex AC receptacle. Safety blocking condensers are built into all antenna circuits. Outlet to set is 300 ohms for all types. Necessary matching circuits are built into each outlet.

STANDARD FLUSH WALL PLATE ANTENNA OUTLETS

Use only one on the lead direct from the antenna or booster, or one on each lead from a multiple set coupler. Outlet to set is 300 ohms. Read explanation of wiring systems below. When ordering specify Ivory or Brown.

Stock No.	Winegard No.	Designed For	Input Wiring	Net Each
18B515	T-3	1—TV-FM Set	300 Ohm Lead	\$1.26
18B535	T-32	2—TV-FM Sets	300 Ohm Lead	2.39
18B520	T-7	1—TV-FM Set	75 Ohm Coax	1.68
18B527	TA-3	1—TV-FM & Duplex AC	300 Ohm Lead	2.18
18B528	TA-7	1—TV-FM & Duplex AC	75 Ohm Coax	2.25
18B529	TR-3	1—TV-FM & 4-Wire Rotor	300 Ohm Lead	2.34
18B530	TR-7	1—TV-FM & 4-Wire Rotor	75 Ohm Coax	2.47
18B532	TRA-3	1—TV-FM, Duplex AC & Rotor	300 Ohm Lead	3.28
18B533	TRA-7	1—TV-FM Duplex AC & Rotor	75 Ohm Coax	3.36
18B540	TP-10	Extra No Strip Ant. Plug		.24
18B541	RP-10	Extra 4-Wire Rotor Plug		.27

STANDARD SURFACE MOUNTING ANTENNA OUTLETS

Electrically the same as wall plate outlets above. Specify Ivory or Brown.

18B537	T-35	1—TV-FM Set	300 Ohm Lead	\$1.08
18B544	T-75	1—TV-FM Set	75 Ohm Coax	1.19

"TAP-OFF" ANTENNA OUTLETS

For use on "Feed Thru" type wiring. Read explanation of wiring systems below. Each outlet has built-in 6 db isolation, required to prevent interaction between sets. Outlets designated for last set on feeder are resistance terminated to assure proper system operation. Outlet to set is 300 ohms for all types. Available in Ivory only. Av. wt. 8 oz.

FLUSH WALL PLATE SET TAP-OFFS

Stock No.	Winegard No.	Designed For	Input Wiring	Net Each
18B501	LTF-33	1—TV-FM Set	300 Ohm Lead	\$2.08
18B545	LTF-73	1—TV-FM Set	75 Ohm Coax	2.08
18B556	LTF-33T	Last Set on Feeder, Terminated	300 Ohm Lead	2.08
18B557	LTF-73T	Last Set on Feeder, Terminated	75 Ohm Coax	2.08

SURFACE MOUNTED TAP-OFFS

Stock No.	Winegard No.	Designed For	Input Wiring	Net Each
18B502	LTS-33	1—TV-FM Set	300 Ohm Lead	\$1.73
18B546	LTS-73	1—TV-FM Set	75 Ohm Coax	1.73
18B560	LTS-33T	Last Set on Feeder, Terminated	300 Ohm Lead	1.73
18B562	LTS-73T	Last Set on Feeder, Terminated	75 Ohm Coax	1.73

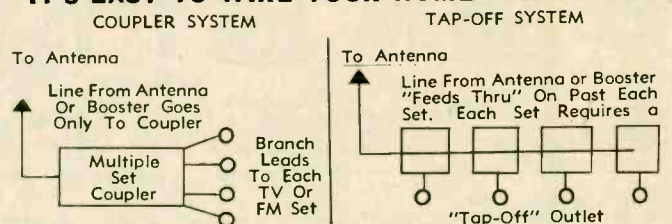
Cinch-Jones Chrome Wall Plates

Bright finished, very highest quality. Fit standard metal outlet boxes. Supplied with permanently installed Cinch-Jones sockets. For TV/FM antennas, Hi-Fi Speakers, etc.

NET EACH
1-24 25-49 50-99

① FOR 300 OHM TWIN LEAD. 16A614. (Requires P302FHT plug)	\$1.73	\$1.38	\$1.15
② FOR 300 OHM LEAD & ROTATOR up to 4 wires. 16A615. Requires P302FHT and P304FHT plugs.....	2.09	1.67	1.39
FOR 300 OHM LEAD AND ROTATOR up to 8 wires. 16A616. Requires P302FHT and P308FHT plugs.....	2.24	1.79	1.50
JONES PLUGS FOR ABOVE			
16A617. Type P302FHT. 2 Cont.....	.42	.34	.28
16A618. Type P304FHT. 4 Cont.....	.51	.41	.34
16A619. Type P308FHT. 8 Cont.....	.66	.53	.44



IT'S EASY TO WIRE YOUR HOME FOR TV-FM



Either type of system may be used, depending on convenience of wiring. It is important that only one standard outlet be attached to each lead of the Coupler System; it is also important that the last outlet in a Tap-Off System be the "terminated" type for proper operation. Wiring may be regular 300 ohm TV lead, or if wiring must be close to pipes, other wiring, etc., then shielded 75 ohm RG59/U coaxial line is preferred. All couplers and outlets listed above are equipped for fast wiring and need no additional fittings. It is not necessary to utilize all outlets on either system at the same time, allowing one or more sets to be moved about as desired.

TV Wire, Installation Accessories

HIGH QUALITY TV LEAD-IN INSULATORS MADE WITH GENUINE POLYETHYLENE INSERTS

A UNIVERSAL	B HOLLOW LINE	LOOSE INSERTS ONLY
		
For flat 300 ohm line, 1/4" coax, 1" or 1/2" open line and rotor leads.	For UHF Tubular Line and Large Coax Cable.	Handy for Replacement. No. 19A637. Type A. No. 19A638. Type B. 10 For... 22c 100 For... \$1.75

Stock No.	Type	Insert	Length	Each	5 For	100 For
19A699	A	A	7 1/2"	\$0.04	\$0.16	\$2.75
19A698	A	B	7 1/2"	.09	.31	5.87
19A696	B	A	7 1/2"	.04	.16	2.75
19A695	B	B	7 1/2"	.09	.31	5.87

Stock No.	Type	Insert	Length	Each	5 For	100 For
19A693	A	A	3 1/2"	\$0.09	\$0.31	\$5.87

Stock No.	Type	Insert	Length	Each	5 For	100 For
19A687	A	A	3 1/2"	.16	.56	9.90
19A686	B	B	7 1/2"	.20	.73	12.78

Stock No.	Insert	Each	5 For	100 For
19A679	A	\$0.34	\$1.24	\$121.58

SOLID POLYETHYLENE INSULATORS

VERY LOW LOSS—NO METAL SURROUNDS THE WIRE

Made specially for Belden 8290 shielded Permohm lead and other heavy duty oval or tubular types; works with any type flat, oval or round lead. Insulator locks on.

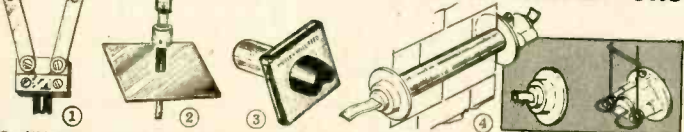
Stock No.	Lgth.	Each	5 For	100 For
19B685	3 1/2"	12c	42c	4.20
19B688	7 1/2"	15c	54c	5.40

Stock No.	Lgth.	Each	5 For	100 For
19B689	3 1/2"	17c	60c	6.00
19B690	7 1/2"	20c	72c	7.20

SPRING TYPE ROTATOR STANDOFF INSULATOR

Prevents premature line failure. Pipe strap mounting. Overall Length 13" No. 19B317. Net Each... 59c

MOSLEY TV LEAD-IN INSULATORS



① "Y-TY" LEAD-IN CONNECTOR FOR ANTENNAS. Prevents broken leads caused by wind and swaying lines. Makes installations neater, easier. Works with any type line. Connecting strips fan out to fit antenna terminals. 18B1009. Type 263-5. For terminals spaced up to 4 inches. Net Ea... 43c 18B1010. Type 263-L. For terminals spaced up to 6 inches. Net Ea... 43c

② WEATHER-PROOF "ROOF-THRU" LEAD ENTRANCE. Low loss polystyrene feed-through bushing combined with 8"x9" copper flashing. Easily installed. For lead-in or rotor control cable. Permits shorter lead-in, less pickup of interference, hides lead-in wires. No. 18B1006. Type 624. For Flat Lead-in. Net Each... \$3.99 No. 18B1008. Type 623. For Tubular or Oval Lead. Net Each... \$3.99

③ WEATHER-PROOF "WALL-FEED" LEAD ENTRANCE. For entrance into attic, trailer wall, etc. Has molded weather hood and 2" polystyrene tube adaptable to thickness of most types of exterior wall. Ivory color. No. 18B1011. Type 626. For all types of lead. Net Each... 87c

④ WEATHER-PROOF "WALL-THRU" BUSHING. For all types TV transmission line and small coax cables. Has anchor points for open wire line. Installs through 1 1/2" dia. round hole in walls up to 13" thick. End plates are molded polystyrene, tube is extruded polystyrene. No. 18B1054. Type 625. Ivory color. NET EACH... \$1.33

LEAD-IN AND ROTATOR CABLE CONNECTORS

ALSO EXCELLENT FOR SPEAKERS, INTERCOMS, ETC.

SEE PRECEDING PAGE FOR TV WALL PLATES



Stock No.	Mosley No.	Description	Net Ea.	10 For
① 18B725	301	Line Plug—Mates with Fig. 2 Socket	\$0.21	\$1.90
② 18A1155	311	Line Socket—Mates with Fig. 1 Plug	.21	1.90
③ 18A1156	304	Terminal Adapter—Mates with Fig. 2	.21	1.90
④ UNIVERSAL 300 OHM LINE SOCKET. Female type, mates with Fig. 1 plug above. Line can enter from sides, back or pass straight through for multiple outlets. Molded low-loss polystyrene. Mosley type 343. No. 18A1158. Brown Socket CHOICE 50c 50c 47c No. 18A1159. Ivory Socket EACH				

⑤ BASE SOCKET AND CABLE PLUG COMBINATION No. 18B1014. Type 354-PK. 4 Wire Base Socket and Plug. Net... \$1.45

LINE SPLICERS

① 18A1157. Mosley 275. Joins 300 ohm lead. Solderless set-screw type. Each... 13c
② 18B1032. Mosley 29-S. Joins tubular to flat 300 ohm lead. Each... 14c

UHF-VHF TELEVISION TWIN LEADS



Fig. 3 ③ ④ ⑤ wires are recommended for UHF or VHF, others VHF only.

① AMPHENOL FLAT 300 OHM TWIN LEAD, 214-056. Highest quality 60 mil brown polyethylene, 7/28 copper conductors. 18 lbs. per M'. No. 2A157. 25 Ft. ... 76c 100 Ft. For... \$1.73 1000 Ft. For... \$15.60

② BELDEN WELDOHM FLAT 300 OHM TWIN LEAD, 8230. Has 1 1/2 times the strength of pure copper, yet retains all the electrical characteristics. 72 mil brown poly, 20 gauge copper coated steel wire. 18 lbs. per M'. Stk. No. 25 Ft. ... 50 Ft. ... 75 Ft. ... 100 Ft. ... 1000 Ft. 2B143... 86c \$1.29 \$1.73 \$2.16 \$19.75

③ AMPHENOL TUBULAR 300 OHM LEAD, 214-271. For installations requiring long leads, VHF or UHF. Rain, snow, ice have no effect. Brown poly. insulated, 7/28 copper conductors. 35 lbs. per M'. No. 2B163. Per Ft. ... 5c 100 Ft. ... \$3.67 1000 Ft. For... \$30.62

④ BELDEN CELLULINE 300 OHM LEAD, 8275. Ideal for color or black and white. Highly efficient, VHF or UHF. Absolutely water-proof cellular foam construction. Brown poly. jacket. .356 O.D., 7/28 copper over steel conductors. 36 lbs. per 1000 ft. No. 2B156. Per Ft. ... 6c 100 Ft. For... \$4.50

⑤ NEW BELDEN "PERMOHM" 300 OHM LINE, 8285. Ideal for color or black and white. Lower loss, more constant impedance, compared to regular line. Not affected by extremes of salt spray, industrial contamination, rain or snow. Encapsulated in low-loss cellular polyethylene. Copperweld 7X30 conductors. Oval .255" x .468". Wt. 16 lbs. per 1000 ft. For VHF or UHF. Stk. No. 50 Ft. ... 75 Ft. ... 100 Ft. ... 500 Ft. ... 1000 Ft. 2A141 \$2.85 \$3.85 \$4.90 \$22.50 \$45.00

⑥ COLUMBIA "DURAFOAM" 5790 DELUXE TV LINE Newly designed low loss 300 ohm TV line for UHF, VHF, FM, color. Very flexible. Black polyethylene sheath protects against sun, moisture, salt air, etc. Stk. No. 50 Ft. ... 75 Ft. ... 100 Ft. ... 500 Ft. ... 1000 Ft. 4A105 \$2.06 \$2.99 \$3.87 \$17.98 \$34.85

⑦ 1-INCH LOW LOSS OPEN LEAD—450 OHMS Size 18 solid conductor copperweld with 1/4" polystyrene insulators spaced every 6". Recommended for weak signal areas or where extremely long lines are needed. Matches 300 ohm antennas and receivers. Wt. 2 1/2 lbs. 100 ft. No. 4A106C. 100 Ft. Coil... \$2.79 No. 4A106D. 500 Ft. Reel... \$11.95

⑧ AMPHENOL RG59/U COAXIAL LINE—72 OHMS Best for noise-free antenna lead to TV-FM sets or for shielded wiring of multiple outlet systems. 4 lbs. per C ft. No. 2W21-025. Per Ft. ... 6c 100 Ft. ... \$5.55 1000 Ft. ... \$35.00

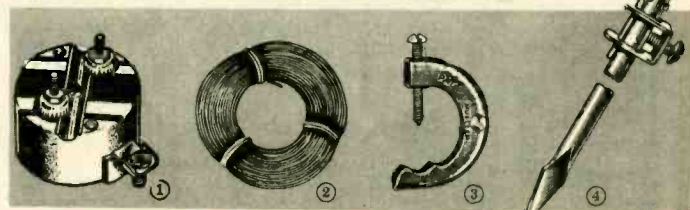
BELDEN 8290 SHIELDED PERMOHM

THE LONG AWAITED PERFECT LEAD-IN FOR ALL 82 CHANNELS COLOR OR BLACK AND WHITE

- Eliminates interference caused by line pick-up.
- Easy to install. No standoffs, tape it to the mast, run through gutters, conduit, even underground.
- No matching transformers needed.
- Excellent for antennas using rotors.
- Mechanically strong, electrically "right" for nominal 300 ohm antennas and TV sets. Stranded copperweld, 2 conductors, orange polyethylene insulation and web between conductors, cellular polyethylene oval insulation, Beldfoil shield, stranded tinned copper drain wire, polyethylene 1/2 x 3/8" oval jacket overall. In coils as priced.

No. 2B180. \$5.80 75' For... \$7.80 100' For... \$9.90 500' For... \$47.25

ANTENNA GROUNDING ACCESSORIES



① UNIVERSAL UHF-VHF LIGHTNING ARRESTOR

Will handle all TV or FM Arrestor problems.

Works with open, flat, or tubular lead-in on both UHF and VHF. Toothed washers pierce lead insulation—requires no lead stripping. Installs easily inside or out. Made of sturdy, molded plastic with brass weather-resistant hardware. Shpg. wt. 12 oz. No. 19B353. Net Each... 69c 10 Lots, Each... 59c

② NO. 8 ALUMINUM GROUND WIRE

Soft drawn. Recommended by National Electrical Code. Wt. 2 lbs. 100 ft. No. 2B29. 50 Ft. Coil... \$1.05; 100 Ft. ... \$1.90

③ GROUND CLAMP

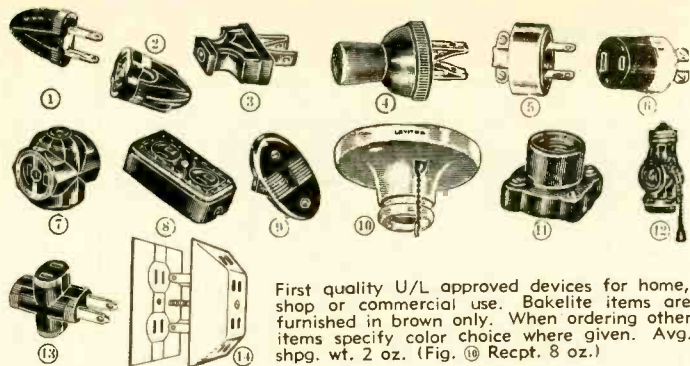
For attaching ground wire to masts, pipes, etc., up to 1 3/8" dia. Rigid channeled construction gives five point contact. Case hardened screw. No. 12A678. Mueller Type 58. Each... 20c; 10 Lots, Each... 14c

④ GROUND RODS

Efficient, easy-to-install, copper plated steel. One end pointed for driving. Other end has screw-clamp to hold No. 4 to No. 14 gauge wire. No. 2A203. 3/8" x 4'. Each... 63c; 10 Lots, Each... 58c No. 2A202. 3/8" x 6'. Each... 87c; 10 Lots, Each... 79c

Wiring Devices & Electrical Specialties

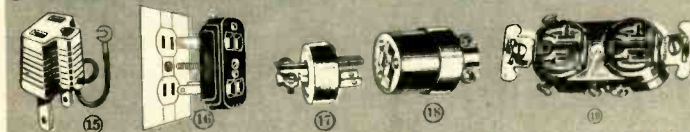
U/L ATTACHMENT PLUGS AND CURRENT TAPS



First quality U/L approved devices for home, shop or commercial use. Bakelite items are furnished in brown only. When ordering other items specify color choice where given. Avg. shgp. wt. 2 oz. (Fig. 10 Recept. 8 oz.)

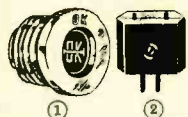
Stk. No.	Description	Each	10 For
① 20A114	Black, Brown or Ivory Vinyl Cap Sta-tite brass blades, screw terms.	\$0.17	\$1.40
② 20A115	Black, Brown or Ivory Vinyl Cord Receptacle Mates with Fig. ① or other std. AC plugs	.22	2.00
③ 20A29	Bakelite Flat Handle Cap	.13	1.10
④ 20A91	Rubber Handle Cap—.375" cord hole	.13	1.10
⑤ 20B186	Rubber Heavy Duty Power Tool Cap— .540" cord hole	.19	1.60
⑥ 20C37	Heavy Duty Armored Cap— $\frac{1}{8}$ " cord clamp	.34	3.00
⑦ 20C38	Heavy Duty Armored Receptacle. Mates with ⑥	.45	3.90
⑧ 20A122	Bakelite Extension Cord Trio-Tap	.15	1.30
⑨ 20A30	Bakelite Duplex Tap. Cord or surface mount	.19	1.70
⑩ 20A31	Bakelite In-Line Cord Switch	.33	3.00
⑪ 20A101	Porcelain Pull Chain Receptacle, 3/4 or 4"	.57	4.75
⑫ 20A341	Bakelite Cleat Receptacle. Std. screw base	.25	2.20
⑬ 20A84	Bakelite Pull Socket—2 live side taps	.34	2.85
⑭ 20A116	Vinyl Plug-In Trio-Tap. Sta-tite blades	.22	1.85
⑮ 20A100	Bakelite 4-Tap Adaptor for std. duplex recpt.	.66	6.00

3-WIRE PARALLEL BLADE — U GROUND DEVICES



⑮ 20A1	Vinyl 3-Prong Grounded Adaptor for single receptacle. Parallel Blades, U ground	.23	2.00
⑯ 20A117	Bakelite 3-Prong Grounded Adaptor for duplex receptacle. Parallel blades, U ground.	.51	4.25
⑰ 20A102	Armored 3-Prong Grnded. Cap. Mates ⑮, ⑯, ⑰	.43	3.80
⑱ 20A103	Armored 3-Prong Grounded Cord Receptacle	.92	8.40
⑲ 20A48	Brown or Ivory 20A. Receptacle	.62	5.50

PLUG FUSES—FUSE ADAPTORS



- ① **SHOCKPROOF GLASS PLUG FUSES**—(Per ctrn. 6 oz.)
No. 20A56. 15 Amp Ctn. 10
No. 20A59. 30 Amp 5 for .34c Ctns. . . \$3.00
- ② **FUSED ADAPTOR PLUG**
Plugs into wall receptacle ahead of power cord.
No. 14C179. Less 3AG Fuses. Net Each . . . 66c

HEAVY DUTY MULTIPLE OUTLET BOXES FOR 115 VOLT AC POWER DISTRIBUTION NOW AT LOWEST PRICES EVER!

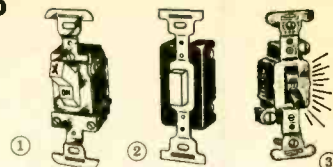


Will safely and conveniently distribute power for appliances, test equipment, shop machinery, office and factory equipment, etc. . . literally hundreds of uses around the home, office, farm and business. Heavy duty construction, all components U/L approved. Fused for 15 amps. 115 V. AC. Average shipping weight 3 lbs.

① 6 Standard Outlets with Pilot Light and Master Switch.	\$6.88
No. 29A122. Net Each . . .	
② 4 Standard Outlets with 4 Separate Switches.	\$6.88
No. 29B7. Net Each . . .	
③ 6 "U-Ground" Outlets with Pilot Light and Master Switch.	\$7.95
No. 29B6. Net Each . . .	

MODERN U/L APPROVED ELECTRICAL SWITCHES

- FAR MORE CONVENIENT THAN USUAL TYPES
- FIT STANDARD OUTLET BOXES AND SWITCH PLATES



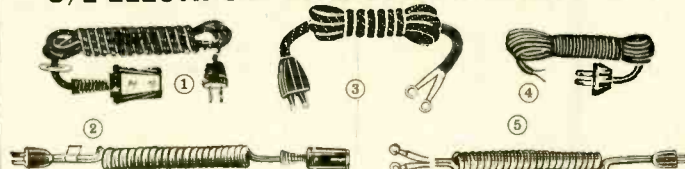
Shgp. wt. 6 oz. each

① **HANDY DELAYED ACTION LIGHT SWITCH**
Brand new solution to an old problem! Turns off lights 35 to 60 seconds after switch is flipped to the "off" position. Allows you to reach your destination without groping in the dark. Fine for bedroom, hallway, etc. around home, farm, business. U/L rated, 10 A. 125 V. 5 A. 250 V.
No. 11A362. Specify Ivory or Brown . . . \$2.19³
Single Pole. Net Each . . . For . . . \$5.95

② **MODERN "TOUCH" WALL SWITCH**
Converts "old-fashioned" noisy toggle switch installations to quiet push-button control with no wiring changes! Just a touch or nudge and lights go "on"; another touch and they're "off". Very convenient, especially when arms are loaded. U/L rated, 15A. 120-240 V. AC. Specify Ivory or Brown.
No. 20A96. Single Pole. . . 76c¹⁰
Net Each . . . Each . . . 69c

③ **SILENT MERCURY SWITCH WITH ILLUMINATED HANDLE**
Makes no sound when switching lights on and off. Ivory switch handle glows gently in the dark, guides you directly to the switch. Glow light will last a lifetime! Platinum contacts in pools of mercury inside hermetically sealed capsule cannot arc. Large head 8-32 screw terminals. U/L rated, 10 A., 125 V. AC, 5 A. 250 V. AC.
No. 20A98. Single Pole. Net Each . . . \$1.30¹⁰
No. 20A99. 3-Way. Net Each . . . \$2.06¹⁰ Lots, Each . . . \$1.88

U/L ELECTRICAL CORD SETS—REPAIR CORDS



- ① **Appliance Cord Set.** 6 Ft. #18, Neoprene. 1/2" terminal spacing.
No. 20A847. Each . . . 50c⁵ Lots, Each . . . 45c
- ② **Short Appliance Cord Set.** 2 ft. #17, Neoprene. 1/2" terminal spacing.
No. 19A906. Handy, kink-free for counter tops. Net Each . . . 43c
- ③ **Coiled Appliance Cord Set.** Extends to 6 ft. #18, Neoprene.
No. 19A903. With miniature 1/2" spaced appliance plug. Net Each . . . \$1.07
No. 19A904. With standard 1/2" spaced appliance plug. Net Each . . . \$1.12
- ④ **Asbestos Repair Cord.** 7 Ft. #16. Ring terminals and soft plug.
No. 20A869. Each . . . 74c⁵ Lots, Each . . . 67c
- ⑤ **Plastic Repair Cord.** #18. For lamps, clocks, radios. Molded plug.
No. 19B911. 6 Ft. Brown or Gray. Each . . . 29c¹⁰ For . . . \$2.19
No. 19A909. 9 Ft. Brown. Each . . . 39c¹⁰ For . . . \$2.99
- ⑥ **Coiled Repair Cord.** Extends to 6 Ft. Neoprene #18.
No. 19A905. Ring terminals and molded plug. Net Each . . . 95c

BELDEN THREE CONDUCTOR CORDS



- PARALLEL PRONG U-GROUND VINYL PLUG**
- No. 3A208. 8 Ft. Black. 18/3 SV Rubber. Net Each . . . 66c
No. 19A891. 8 Ft. Gray. 18/3 SVT Vinyl. Net Each . . . 58c
No. 3A209. 9 Ft. Black. 16/3 SJ Rubber. Net Each . . . 96c
No. 19A892. 15 Ft. Black. 16/3 SJ Rubber. Net Each . . . \$1.71

HEAVY DUTY COILED POWER TOOL CORDS

- 6 Ft. 16/3 SJO Neoprene. Molded U-ground plug like above . . . \$1.73
No. 19A889. Retractable to 12". Net Each . . .
12 Ft. 16/3 SJO Neoprene. Fine for saws. Molded U-ground plug . . . \$2.37
No. 19A890. Retractable to 2 ft. Net Each . . .
- Use Fig. 18 Cord Receptacle at left to make extension cords.

REPLACEMENT APPLIANCE ELEMENTS



- ① **115 VOLT COILED NICHROME WIRE ELEMENTS**
Finest quality, for repair of Hot Plates, Toasters, Heaters. Shgp. wt. 2 oz.
No. 20A119. 600 W. #3, 3/8" dia. coil. Net Each . . . 25c¹⁰ @ Each . . . 23c
No. 20A224. 1000 W. #7, 1/4" dia. size 20. Net Ea. . . 51c³ For . . . \$1.38

- ② **NICHROME COILED ELEMENT WIRE**
Wattage length rating on each spool. Use #2 for repair of light duty appliances, #3 for hot plates, #4 for 1000 W. appliances. Shgp. wt. 6 oz.
Stk. No. Description Net. Ea. 3 @ Ea.
20A281 12 Ft. #2—Size 22, 3/8" dia. coil \$2.89 \$2.55
20A282 10 Ft. #3—Size 22, 3/8" dia. coil 3.74 3.30
20A283 10 Ft. #4—Size 20, 1/4" dia. coil 5.61 4.95

- ③ **1000 WATT CONE HEATER ELEMENT**—Shgp. wt. 6 oz.
No. 20A280. Standard 115 V. screw base. Net Each . . . 1.02¹⁰ @ Each . . . 90c

- ④ **COFFEE MAKER ELEMENT For "Silex" and "Hill-Shaw"**
Top grade Nichrome W wire imbedded in 3 1/2" dia. "brick" with terminals on 1/2" centers. Also fits many other types. Shgp. wt. 8 oz.
No. 20A279. Net Each . . . \$1.10⁵ @ Each . . . 94c

- ⑤ **550 WATT TOASTER ELEMENT**
Flat Nichrome wire wound on top grade mica. Shgp. wt. 2 oz.
No. 20A223. With adjustable mounting. Net Each . . . 89c¹⁰ @ Each . . . 79c

Belden Wire and Cable

MIL-W-76B TYPE-MW VINYL HOOK-UP WIRE

Withstands 80° C. Tinned copper conductors. Strips easily and clean. In Gray, Black, Red, Blue, Green, Yellow, White, Brown, Orange and Purple. Specify color. *Stocked in Black, White, Red, Green, only.

For Voltages up to 1000 RMS—Wall Thickness .017

Stk. No.	Belden No.	Size	Cond.		Wt. 1000'	Length		
			Strand	O.D.		25'	100'	1000'
2B13	8525 Stranded	24	7x32	.058	3	\$0.56	\$1.17	\$7.50
2B14	8524 Stranded	22	7x30	.064	4	.57	1.28	8.85
2A32	8523 Stranded	20	10x30	.072	6	.65	1.50	10.05
2B7	8522 Stranded	18	16x30	.081	8	.75	1.88	13.65
2B15	8521 Stranded	16	19x29	.096	11	.98	2.48	19.30
2B67	* 8520 Stranded	14	41x30	.111	16	1.35	3.38	28.80
2B68	* 8527 Stranded	12	65x30	.130	24	1.96	4.90	40.50
2B69	* 8538 Solid	24	1	.054	2.7	.55	1.11	5.95
2B34	8530 Solid	22	1	.059	4	.54	1.08	6.90
2A2	8529 Solid	20	1	.066	5	.57	1.28	8.40
2A36	8528 Solid	18	1	.074	7	.66	1.64	11.55

MIL-W-16878C TYPE D VINYL 600 V. 105° C.

Tinned copper stranded. Wall thickness .010". Colors: Solid white and striped; White with black, red, green, yellow, blue, brown, orange, gray or violet. Please Specify Color.

Stk. No.	Fact. No.	Size	Cond.		Wt. 1000'	Length		
			Strand	O.D.		25'	100'	1000'
2C151	Belden 8500	#16	19X29	.077	10	\$0.83	\$2.07	\$16.70
2C152	Belden 8501	#18	7X26	.068	8	.72	1.74	13.30
2C153	Belden 8502	#20	7X28	.058	5	.64	1.61	10.85
2C154	Belden 8503	#22	7X30	.050	4	.58	1.43	9.85
2C155	Belden 8504	#24	7X32	.044	3	.55	1.37	9.20

SHIELDED HOOK-UP WIRE

Conductor is size 20 tinned copper stranded 10/30; rubber insulated. Lacquer coated cellulose acetate yarn braid and tinned copper braid shield are over-all. 100'. Wt. 2 lbs.

Stk. No.	Type	No.	Cond.	O.D.	Wt. 100'	Length		
						25'	100'	1000'
No. 2A70.	25-Ft. Coil							\$1.28
100 Ft. Coil								\$3.75

BELDEN 2-WIRE SPEAKER & INTERCOM CABLE

Copper parallel conductor, 1-tinned, 1-copper for code. Zip apart. Chrome vinyl insulation.

Stock No.	Mfg. No.	Size	Cond.	O.D.	Wt. 1000'	25	100	1000
2B19	8782	24 (7x32)	.058x.115		6 lbs.	\$0.66	\$1.47	\$11.15
2A16	8649	20 (7x28)	.073x.146		10 lbs.	1.18	2.18	15.60

SOUND SYSTEM, ALARM OR SPEAKER EXTENSION

Solid conductor wire, twisted, color coded.

Stk. No.	Size	Cond. O.D.	Wt. 100'	Per Ft.	25 Ft.	100 Ft.
2C192	22	.10	.8 Lbs.	\$0.02	\$0.99	
2B54	19	.17	2 Lbs.	.03	2.20	
2B55	19	.14	1.8 Lbs.	.03	2.70	

Ideal for thermostat controls, low voltage relays, signals, annunciators and automation controls. Solid conductor size 18 bare copper thermoplastic insulation, color coded and twisted with or without outer brown vinyl jacket.

Stk. No.	Cond.	Cable Cover	O.D.	Wt. 100'	Per Ft.	25 Ft.	100 Ft.
3A205	2	None	.140	3 lbs.	5c	\$0.91	\$2.93
3A206	2	None	.160	4 lbs.	6c	1.48	4.86
3A203	2	Plastic	.180	3 lbs.	5c	1.08	3.56
3A204	2	Plastic	.200	4 lbs.	6c	1.49	4.78

LOW VOLTAGE AUTO-MARINE WIRE

For high current with minimum voltage drop for mobile electrical systems, 2-way radio, accessories, etc. Vinyl insulated to withstand heat, oil, abrasion.

Stk. No.	Type	Gauge	O.D.	Color	25 Ft.	100 Ft.
2B127	8685	16 (19x29)	.102	Black	\$0.63	\$2.10
2B126	8684	14 (19x27)	.117	Green	.88	2.70
2B129	8683	12 (19x25)	.142	Red	1.25	3.90
2C130	8682	10 (19x23)	.175	White	1.75	5.80
2C132	8681	8 (19x21)	.219	Chrome	3.25	10.65

BROWN POSJ 18-2 RUBBER SP-1

UL approved rubber insulated parallel cord; 2 bare copper flexible stranded, conductors. 41/34 strands. No. 2A28. Per Ft. .08c 100 Ft. For \$3.60 250 Ft. For \$8.20

Shpg. wt. 3 lbs. Per 100 Ft.

HEAVY DUTY PORTABLE RUBBER CABLE

For heavy duty service where subjected to extra hard use such as portable tools, battery chargers and heavy equipment when up to 300 volts are required. Stranded copper conductors wrapped and color coded with rubber insulation. Black rubber jacket overall. UL approved.

Stock No.	Size	UL Type	Belden No.	Strand	O.D.	Lbs. 100'	Per Ft.	100 Ft.	250 Ft.
2A26	18-2	"SV"	8452	41/34	.245	4	\$0.09	\$5.40	\$12.75
3A194	18-3	"SV"	8453	41/34	.265	5	.10 1/2	7.85	18.23
2A27	16-2	"SJ"	8472	65/34	.325	7	.12	8.85	20.50
2A112	18-4		8454	41/34	.265	5	.13	8.25	19.33
2A91	18-5*		8455	41/34	.280	5	.12	8.60	21.40

* (8455 has 2 cond. #18, 3 cond. #20)

MICROPHONE CABLES



Stranded flexible conductor, cellulose yarn braid polyethylene insulated with tinned copper braid shield except 8451 which has Beldafol shield and drain wire.

CHROME VINYL PLASTIC JACKET OVERALL

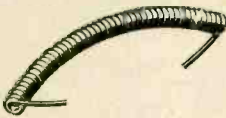
Stock No.	Type	No. Cond.	O.D.	Use	Strands	Cap. Per Ft.	Lbs. 100'	15'	25'	100'
2A101	8401	1	.200	Hi Imp.	7x33	25 Mmf.	3	\$1.13	\$1.47	\$4.80
2A102	8411	1	.144	Lapel Mike	7x33	34 Mmf.	2	.90	1.23	3.75
2A104	8422	2	.231	Low Imp.	16x34	32 Mmf.	4	1.43	2.20	7.00
2C197	8404	4	.255	Pwr.-Sply.	26x34	45 Mmf.	5 1/2	2.18	3.25	10.15
2B124	8451	2	.135	Min-Audio	7x30	67 Mmf.	1 1/2	1.13	1.28	3.90

BLACK RUBBER JACKET OVERALL

Stk. No.	Type	No. Cond.	O.D.	Use	Strands	Cap. Per Ft.	Lbs. 100'	15'	25'	100'
2A78	8410	1	.245	Hi Imp.	7x33	33 Mmf.	4	\$1.65	\$2.70	\$8.65
2A79	8412	2	.268	Low Imp.	26x34	68 Mmf.	5	1.65	2.65	9.55
2A105	8423	3	.277	Low Imp.	26x34	85 Mmf.	6	2.25	3.10	11.10
2A106	8424	4	.295	Low Imp.	26x34	95 Mmf.	7	2.55	3.47	12.60

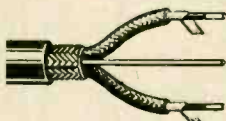
COILED 4 CONDUCTOR UNSHIELDED MIKE CORD

Stretches to 6 feet—retracts to 11 inches. Stranded 21x36 conductors are tinned, rubber insulated. Paper wrap and black neoprene jacket overall. O.D. .250. Belden 8415. Wt. 1/2 lb. No. 29B251. Net Each \$1.41



BROADCAST AUDIO CABLES

To meet the most exacting requirements of the industry for trouble-free dependable service. High insulation resistance, precision cabling and high percentage of shielding assure a low noise circuit free from cross-talk. All are 2 conductor solid shielded with black vinyl jacket overall. *Indicates drain wire.



Stk. No.	Type	Eqpt.	Belden No.	AWG Size	O.D.	Wt. 100 Ft.	Per Ft.	100 Ft.
2B58	CBS		*8437	22	.200	3 lbs.	5c	\$4.30
2A89			8739	22	.160	2 lbs.	5c	3.15

MULTI-CONDUCTOR—PA AND INTERCOM



Conductors are size 22 solid tinned copper, color coded. Cabled in pairs; and vinyl plastic insulated. Cable has gray plastic jacket over-all.

Stk. No.	Type	Pairs	O.D.	Wt. 100'	Per 100 Ft.
2A94	8740	1	.15	2	.02 1/2 \$ 2.06
2A95	8741	2	.20	2	.04 3.55
2A96	8742	3	.24	3	.05 4.60
2A97	8743	6	.30	5	.08 7.30
2A98	8744	9	.35	7	.12 10.05
2B181	8753	11	.38	8	.15 12.75
2A99	8745	15	.42	11	.20 16.65
2A100	8746	27	.55	17	.35 29.40

All conductors are stranded size 22, with the exception of 6, 7, 8 and 9 conductor cables in which 2 of the conductors are size 18; all are color coded, vinyl plastic insulated, and cabled together with gray vinyl jacket over-all. Weatherproof.

Stk. No.	Type	No. Cond.	O.D.	Wt. 100'	Per Ft.	100 Ft.
2D120	8442	2	.165	1 1/2	.02	\$1.94
2A113	8443	3	.15	2	.05	2.70
2A114	8444	4	.16	2	.06	3.40
2A115	8445	5	.18	3	.06	4.20
2A116	8446	6	.22	4	.10	6.15
2A117	8447	7	.24	4	.09	6.85
2A118	8448	8	.25	5	.12	7.35
2A119	8449	9	.26	5	.13	8.05

UNSHIELDED PAIRED. Stranded #22 more flexible and easier to pull through a conduit having a number of bends. 7/30 strand.

2B182 8747 6 .34 6 .10 1/2 \$ 9.00
2B183 8748 9 .38 8 .15 12.75
2B184 8749 15 .42 12 .26 21.70
2B185 8750 27 .59 20 .46 39.00

For replacement anode lead and high voltage experimental projects. 25,000 working volts, 50K V. breakdown. Tinned copper, poly-insulated, vinyl jacket overall. Belden 8868. No. 2A261. Per Ft. .08c 25 Ft. \$1.05 100 Ft. \$2.60

18-INCH CRT ANODE LEAD

Has spring connection to fit all picture tubes. Hi-voltage insulated. No. 14B164. Each .38c

WEATHER RESISTANT AUDIO CABLE

2-conductor, tinned stranded color coded and cabled. Ideal for most audio or speaker installations. Vinyl insulated with gray vinyl jacket overall.

Stk. No.	Type	Gauge	O.D.	Wt. 100'	Per Ft.	100 Ft.
2A186	8205	20 (10x30)	.190	2 lbs.	4c	\$2.75
2A187	8461	18 (7x26)	.226	3 lbs.	4 1/2 c	3.90
2A191	8471	16 (19x29)	.256	4 lbs.	5c	4.00

DUAL CHANNEL AUDIO CABLE

For stereo and language labs, splits like zip cord. Both conductors size 25 (7x33) color coded red and white vinyl insulated, with spiral wrapped shield. Chrome vinyl zip apart jacket. O.D. .106x.213.

Belden 8416	15 Ft.	50 Ft.	100 Ft.
No. 2B38	\$1.25	\$3.00	\$5.25

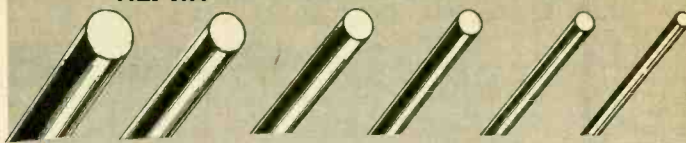
Wire, Cable, Insulated Tubing

NEW BELDFOIL 100% SHIELDED CABLES

Beldfoil shielding has superior low noise characteristics compared to braided copper shield, at greatly reduced cost. Shielding is made of continuous sheath of Mylar backed aluminum foil with overall vinyl jacket. Much easier to terminate since continuous ground drain wire for each shield provides positive ground connection. Also provides superior flexibility and more continuous shielding when flexed.

SINGLE CONDUCTOR									
Stk. No.	Mfg. No.	Size	O.D.	Per Ft.	100 Ft.	1000 Ft.			
2A234	8417	25(7X33)	.140	\$0.06	\$4.00	\$34.50			
TWO CONDUCTORS									
2A235	8761	22(7X30)	.167	.03	2.90	27.00			
2A236	8762	20(7X28)	.196	.05	4.05	34.20			
2A237	8760	18(16X30)	.222	.05	4.26	40.50			
2A238	8719	16(19X29)	.274	.07	6.16	59.30			
2A239	8720	14(19X27)	.340	.11	9.82	91.50			
THREE CONDUCTORS									
2A240	8771	22(7X30)	.175	.04	3.75	33.90			
2A241	8772	20(7X28)	.200	.05	4.63	42.80			
2A242	8770	18(16X30)	.236	.065	5.68	53.30			
PAIRED CABLE—STRANDED CONDUCTORS									
Beldfoil shield, each pair individually shielded.									
Stk. No.	Mfg. No.	Pr.	Size	O.D.	Per Ft.	100 Ft.	1000 Ft.		
2A249	8723	2	22(7X30)	.165	.06	5.10	45.00		
2B172	8777	3	22(7X30)	.270	.12	9.75	95.80		
2A250	8725	4	20(7X28)	.360	.24	19.95	199.50		
2A251	8778	6	22(7X30)	.394	.23	19.50	192.00		
PAIRED CABLE—SOLID CONDUCTORS									
All vinyl insulated except * which has new Beldsol coating.									
2A252	*8640	1	26 Solid	.089	.04	2.80	24.30		
2A253	*8642	3	26 Solid	.140	.09	7.40	66.40		
2A254	8767	3	22 Solid	.270	.09	8.05	73.50		
2A255	8768	6	22 Solid	.394	.18	15.75	150.00		
2A256	8764	9	22 Solid	.425	.25	21.75	216.00		
2A257	8765	11	22 Solid	.485	.31	26.25	255.00		
MINIATURE BROADCAST AUDIO CABLE									
2 conductor with drain wire.									
2A258	8450		22 Solid	.118	.04	3.45	25.50		
2B124	8451		22(7X30)	.135	.045	3.90	32.30		

ALPHA PVC-105 PLASTIC TUBING



Manufactured for all electronic, electrical and aircraft applications. Conforms to MIL-1-631-C, ASTM-D876 and D922 specs and is UL approved. High dielectric strength, non-flammable and resistant to oils and corrosion. Flexible from +105° C to -30° C. Available in Black or Clear. Continuous lengths of 1000' available on request. Contact Industrial Dept. for price.

No.	Size	I.D.	25' For	100' For	Stk.	Size	I.D.	25' For	100' For
3B47	24	.022	\$0.73	\$2.43	3B71	6	.166	\$1.42	\$5.19
3B48	22	.027	.74	2.44	3B79	5	.186	1.62	5.59
3B49	20	.034	.75	2.49	3B80	4	.208	1.63	6.00
3B53	19	.038	.76	2.53	3B81	3	.234	1.74	6.45
3B54	18	.042	.77	2.58	3B83	2	.263	1.85	6.91
3B57	17	.047	.77	2.65	3B84	1	.294	1.98	7.44
3B58	16	.053	.78	2.72	3B85		.312	2.48	9.42
3B59	15	.059	.81	2.80	3B86		.330	2.12	7.98
3B60	14	.066	.85	2.89	3B89	3/8"	.375	2.83	10.81
3B61	13	.076	.87	2.98	3B90	1/2"	.438	3.13	11.79
3B62	12	.085	.89	3.07	3B91	5/8"	.500	3.44	12.77
3B63	11	.095	.91	3.17	3B92	3/4"	.562	4.14	15.57
3B64	10	.106	.94	3.27	3B94	7/8"	.625	4.84	18.38
3B66	9	.118	1.11	3.92	3B99	1"	.750	6.59	25.34
3B67	8	.133	1.27	4.57	3B116	1 1/8"	.875	7.37	28.49
3B68	7	.148	1.34	4.88					

ALPHA HEAT SHRINK TUBING

Heat with match, soldering gun or oven and it will shrink in a matter of seconds. Insulates connectors, splices, terminal lugs, tool handles. Excellent resistance to oil, solvent and flame. Supplied in 1 ft. lengths or 4 ft. lengths on request.

Size	Orig. I.D.	I.D. After Heating	Wall Thickness	Foot	Net Per 20 Ft.	100 Ft.
3/8"	.050	.023	.016	\$0.16	\$2.93	\$13.80
1/2"	.062	.031	.017	.17	3.13	14.60
5/8"	.093	.046	.020	.20	3.56	16.90
3/4"	.125	.062	.020	.21	3.82	17.90
7/8"	.191	.089	.020	.26	4.64	21.90
1"	.250	.125	.025	.33	5.89	27.60
1 1/8"	.378	.178	.025	.36	6.51	30.60
1 1/2"	.500	.250	.025	.41	6.90	32.77
1 3/4"	.750	.375	.030	.55	9.25	43.94
2"	1.00	.500	.035	.76	13.00	61.75

No. 25A118. Catalog of Alpha Tubing and Accessories FREE on Request.

HELI-TUBE SPIRAL WRAP

Spiral cut clear polyethylene tubing for cabling or harness wiring. Allows taps or lead off at any point. Retains original form and may be reused if desired. 1/4" O.D. expands for cables up to 2" in dia. Not affected by solvents, acid or alkalis. For use in temp. from -100° to +200° F.

No. 2W300. 1/4" O.D. Per Ft.	7c	100 Ft. For	\$7.80
2W301. 1/2" O.D. Per Ft.	14c	100 Ft. For	\$12.00

PRESSURE SENSITIVE LABELS

Codes wires, leads, circuits, relays, and other parts fast and cheap. Easy to use, they stick-quick without moistening. Comes on handy card, 6 of each number, 1 to 33.

No. 19A259. Per Card..... 19c

Card of Letters—A to E. 5 of each letter. Used for multi-conductor cable coding in connection with numbers above for individual conductor identification.

No. 19B260. Per Card..... 24c

BELDEN MAGNET WIRE

Tough dual-film insulated copper wire. Use Beldsol for applications where easy insulation removal for soldering is desirable. Will solder at 750° C. without stripping. IEEE thermal rating 130° C. Use Poly-Thermalize where tougher, higher temperature wire is needed. Replaces Nylclad. For motors, solenoids, transformers. IEEE rating 180° C.

Size	Stk. No.	1 Lb. Spool	Per Spool	Each	Size	Na.	Beldsol Spool	Per Spool	Each
14	19A338	79	\$1.85	14	19A354	1/2 lb.	40	\$1.08	
16	19A339	125	1.92	16	19A601	1/2 lb.	63	1.08	
18	19A340	199	2.03	18	19A602	1/2 lb.	100	1.10	
20	19A341	316	2.03	20	19A603	1/2 lb.	160	1.10	
22	19A342	503	2.03	22	19A604	1/2 lb.	250	1.10	
24	19A343	809	2.10	24	19A605	1/2 lb.	400	1.13	
26	19A344	1264	2.25	26	19A606	1/2 lb.	638	1.19	
28	19A345	2001	2.46	28	19A607	1/2 lb.	1010	1.26	
30	19A346	3167	2.78	30	19A608	1/2 lb.	1610	1.40	
32	19A347	5023	3.02	32	19A609	1/4 lb.	1270	.95	
34	19A348	7962	3.56	34	19A610	1/4 lb.	2015	1.02	
36	19A349	12618	4.53	36	19A611	1/4 lb.	3200	1.13	
38	19A350	20004	5.61	38	19A612	1/4 lb.	5070	1.43	
40	19A351	31686	7.30	40	19A613	1/4 lb.	8050	1.95	

PHONO ARM LEAD WIRE

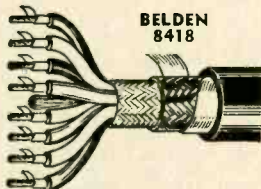
Very flexible, small diameter wires designed especially for record changer and player audio leads or other applications where small leads are essential.

Shielded Single Conductor #24 stranded. Brown cotton braid overall.			
No. 2A103. Belden 8431. 10 Ft.	66c	15 Ft.	75c
Shielded 3 Conductor stereo #32(7X40) stranded cotton coded. Belden 8419.			
No. 2A82. 10 Ft. For	90c	25 Ft. For	\$1.58
Unshielded 2 Conductor twisted pair. Belden 8430.			
No. 2A260. 10 Ft. For	57c	25 Ft. For	75c
Litz Wire: Belden 8817; 5x44 stranded-enamel, Nylon wrap.			
No. 19B336. 100 ft. spool for			65c

8-CONDUCTOR POWER CABLE

Interconnecting cable for industrial or amateur use. Conductors are #20 tinned copper stranded, each cotton wrapped, rubber insulated and color coded. Rayon braid over conductors and fillers, with tinned copper shield, cotton serve and black rubber jacket overall. O.D. .386. Wt. per 100 ft. 12 lbs.

2B195. Per Ft. . . . 26c 100 Ft. For. . . \$21.90



LONG RUN AUDIO CONTROL CABLES—Unshielded

Vinyl Jacket—8466, 400 WV, All Others 600 WV.

Stk. No.	Mfg. No.	No. Cond.	Size	O.D.	Per Ft.	100 Ft.	1000 Ft.
2A243	8466	12	18(16X30)	.402	\$0.23	\$19.90	\$186.00
2A244	8620	4	16(19X29)	.359	.12	9.75	90.00
2A245	8621	7	16(19X29)	.455	.19	16.35	149.30
2A246	8622	12	16(19X29)	.580	.33	27.75	261.00
2A247	8623	15	16(19X29)	.640	.46	39.60	382.50
2A248	8627	4	14(19X27)	.485	.20	16.50	153.00

SHIELDED SOUND CABLE

2 Conductor, spiral shield—Size 18, tinned copper stranded, copper spiral wrapped shield, chrome vinyl jacket. Recommended for long cable runs. .231 O.D. 2B125. Belden 8790. Per Ft. . . 6 1/2 c 100 Ft. . . \$5.40



FLEXFOAM MIKE CABLE

Ideal for use where long lengths or portability is a must. Very flexible stranded low capacity—only 16 mmf per ft. Foam poly dielectric. Tinned copper braid with gray vinyl jacket overall. .190" O.D. Weighs only 1 1/2 lbs. per 100 ft.

No. 2A138. 25 Ft. \$1.09 100 Ft. \$1.67 15 Ft. \$6.10



BELDEN COILED CORDS FOR MIKES, TELEPHONES

May be cut and soldered like ordinary wire. Spade terminals and metal cord clamp attached, vinyl insulated. Black vinyl .230" dia.

29B244. 8495. 3-Cond. 10" to 4 1/2'. Ea. . . \$1.31
29B245. 8494. 4-Cond. 10" to 4 1/2'. Ea. . . \$1.58



SHIELDED MICROPHONE CORDS

Single conductor type has tinned copper shield; three conductor has superior Beldfoil-braid plus drain wire on one conductor only. All conductors rubber insulated. Extra durable black neoprene sheath.

Stk. No.	Beld. No.	Cond.	Sheath	Length	Dia.	Net Each
29B247	8499	1 shielded	Neoprene	7" to 4'	.180"	\$0.98
29B249	8497	3 (1 shielded)	Neoprene	10 1/2" to 6'	.250"	1.46
29B264	8491	4 (2 shielded)	Neoprene	12" to 6'	.300"	1.73

TEST PROD WIRE

High voltage lead wire, excellent dielectric properties and extreme flexibility. Conductors are tinned copper stranded cotton wrap and rubber insulation overall. Available in Red or Black. Type 8899 also available in Green and Yellow. Specify color and length. Shpg. wt. 2 lbs. per 100 ft.

Stock No.	Mfg. No.	Cond. Size	O.D.	Bkdw. Vltg.	Wrkg. Vltg.	10 Ft.	25 Ft.	100 Ft.
2A64	8899	18(65x36)	.144	20 KV	5 KV	\$0.75	\$1.15	\$3.60
2C77	8898	18(65x36)	.230	29 KV	10 KV	1.05	1.95	5.05
2A80	8890	24(45x40)	.066	10 KV	1 KV	.40	.90	2.10



FOR LISTINGS OF TV AND COAX CABLES SEE PAGE 132

Coax Cable, Connectors

AMPHENOL MIL C-17 SPEC COAX CABLE

Highest quality coax cable used for commercial, amateur, military or citizens band transmission or receiving. Eliminates "stray" fields and confines signal within cable. Vinyl jacket overall for temperatures from -40° C to +80° C, but remains flexible and is impervious to most acids, oils, alkalis and gasoline. Polyethylene insulation over center conductor provides low loss and mechanical stability.



Stock No.	Military AN No.	Imp. Ohms	O.D.	Cap. Mmf. Ft.	Size Center Conductor	Lb. Wt. C Ft.	Per Ft.	100' For
2W21-004	RG8U	52	.405	29.5	7X21	10 1/2	14¢	\$12.78
2W21-290	RG8A/U	50	.405	29.5	7X21	10 1/2	16¢	14.40
2W21-007	RG11U	75	.405	20.5	7X26	10	13¢	12.08
2W21-013	RG17U	52	.870	29.5	.189"	47	69¢	63.65
2W21-024	RG58U	53.5	.195	28.5	#20	3	6¢	4.79
2W21-199	RG58A/U	50	.195	30	19X.007"	3	6¢	5.66
2W21-316	RG58C/U	50	.195	30	19X.007"	3	7¢	5.53
2W21-025	RG59U	73	.242	21.5	#22	4	6¢	5.95
2W21-794	RG59B/U	75	.242	21	.023"	4	6 1/2¢	5.94
2W21-026	RG62U	93	.242	13.5	#22	4	6 1/2¢	5.89
2W21-318	RG62A/U	93	.242	13.5	#22	4	7 1/2¢	6.77
2W21-804	RG71B/U	93	.250	13.5	#22	4 1/2	12¢	11.03
2W21-440	RG114U	185	.405	6.5	#33	8 1/2	17¢	15.40
2W21-598	RG174U	50	.105	29.5	7X.0063	1	5 1/2¢	4.95
2W21-597	Sub Minax	75	.150	20	7X.0056	1 1/2	6¢	5.63

AMPHENOL POLYOXAM COAXIAL CABLE

Stock No.	Mfg. No.	Similar To RG	Imp.	O.D.	Wt.	Per Ft.	100 Ft.
2C122	621-100-202	11U	75 ohms	.405"	8.6 lbs.	\$0.17	\$15.90
2C123	621-186	59U	73 ohms	.195"	2 lbs.	.05	4.50

INSULATORS FOR LONG WIRE AND DOUBLET ANTENNAS

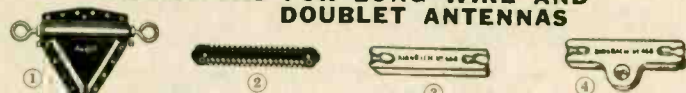


Fig. ① and ② are molded high strength Cyclocac. Fig. ③ and ④ are glazed porcelain. Fine for receiving antennas.
 ① No. 9A173. HyGain CI heavy duty center insulator. Net Each. \$3.95
 ② No. 9A174. HyGain EI heavy duty end insulator. Pair For. \$2.00
 ③ No. 18C835. 4 1/2" porcelain end insulator. Net Each. 25¢
 ④ No. 18C836. 4 1/2" porcelain center insulator. Net Each. 48¢

COPPERWELD ANTENNA WIRE

Tensile strength exceeds 100,000 lbs. per inch or 3 times that of ordinary copper. Will not stretch or sag. Electrical properties are the same as copper at high frequencies. Vinyl coated type is non-corrosive. All have solid conductors.



Stk. No.	Size (AWG)	100' Coil		250' Coil		500' Coil	
		Wt.	Each	Wt.	Each	Wt.	Each
2A44	10	3 lbs.	\$3.83	7 lbs.	\$9.08	14 lbs.	\$17.93
2A45	12	2 lbs.	3.00	5 lbs.	7.05	9 lbs.	12.08
2A46	14	1 lb.	2.63	3 lbs.	5.63	6 lbs.	9.15
2A47	18	1/2 lb.	.88	1 1/2 lbs.	1.89	3 lbs.	3.53

ENAMELED COPPERWELD	
2B50	12 2 lbs. 3.98 4 1/2 lbs. 9.60 9 lbs. 18.30
2B51	14 1 1/4 lbs. 2.93 3 lbs. 6.15 5 3/4 lbs. 12.30

COPPER ANTENNA WIRE

Excellent for antenna requirements; as bus bar hookup wire; for winding coils, etc. Formvar type is non-corrosive.

SOLID FORMVAR				SOLID BRIGHT TINNED				
No.	Size	100'	500'	No.	Size	25'	100'	
2A12	12	\$3.85	\$5.05	\$16.90	2A10	12	\$0.79	\$3.00
2A42	14	2.40	3.60	9.70	2A37	14	.65	2.22
					2A39	16	.45	1.50
					2A41	18	.34	1.03
					2B52	20	.30	.81
					2B53	22	.28	.67
					2B73	24	.25	.66
					2B75	26	.25	.66

STRANDED BARE			
No. 2A43—Size 16 (7x24 stranding)			
100 Ft. For		\$1.43	

TINNED COPPER SHIELDING



Forms perfect electrostatic and interference shield for wires. Very flexible. Expands to nearly double its original diameter, reducing length about 25%. Extensively used in auto radio installations.

Stk. No.	Type	I.D.	10 Ft.	50 Ft.
2A134	8660	1/8"	\$0.65	\$1.94
2B139	8668		.90	2.55
2A135	8661	1/4"	1.90	3.15
2B140	8669		1.56	6.70
2A136	8662	3/8"	2.16	9.40

INDOOR AERIAL WIRE

Belden 8014. 13x36 stranded tinned copper. .010 wall of chrome vinyl plastic insulation.

No. 2A1. 25 Ft.	57c
100 Ft.	92c
500 Ft.	\$3.25

ANTENNA LOOP

Replaces antenna coil on most any type set. Good pickup and selectivity.

No. 20B15. 10 Lots, 24c Each	29c
------------------------------	-----

DOW-KEY 60-P CONNECTOR

Single hole panel mounting connector requires only one 5/8" hole. Two serrated jam nuts hold connector firmly to panel.

No. 16A941. Net Each	84c
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DOUBLE COAX CONNECTOR

Special double male coax connector for mounting relay directly onto output of transmitter or S.W.R. meter. Silver plated.

No. 16A945. Net Each	95c
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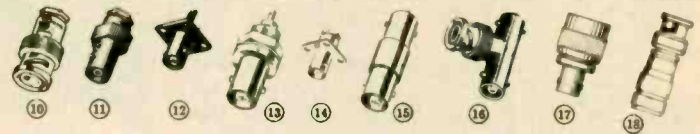
AMPHENOL COAX CONNECTORS



UHF SINGLE CONTACT CONNECTORS

Most popular screw-on coaxial connector series. Used extensively for RF power transmission lines in amateur, CB and commercial services. Items with * are female connectors mating with all others in same series. Fig. 3 reducers are for use with Fig. 1 and 2 plugs. Fig. 5 hoods provide fully shielded line connection to rear of Fig. 4 socket. 83-22SP and 83-22R are 2 conductor for special twin RG22/U coax line. Others, single conductor.

Fig.	Stock No.	Amphenol No.	Military No.	Description	For RG Cable	1-49 Each	50-249 Each
(1)	18A1122	83-ISP	PL-259	Cable Plug	8, 11	\$0.51	\$0.42
(1)	18A1220	83-ISP	PL-259A	Cable Plug	59, 62, 71	.76	.62
(1)	18A1218	83-776	UG-203U	Cable Plug	8	.99	.81
(2)	18A1274	83-851		Solderless Plug	59, 62, 71	1.79	1.47
(3)	18B148	83-168	UG176U	.255" I.D. Reducer	58	.13	.11
(3)	18B149	83-185	UG175U	.207" I.D. Reducer	58	.13	.11
(4)	18A1124	83-1R	SO-239*	Panel Receptacle	8, 11	.51	.42
(5)	18A1129	83-1H	M-360	.345" I.D. Hood	58	.35	.29
(5)	18A1217	83-765	UG177U	.155" I.D. Hood	58	.28	.23
(6)	18A1125	83-IAP	M-359*	Right Angle		1.60	1.31
(7)	18A1126	83-1J	PL-258*	Double Male Adaptor		.83	.77
(8)	18A1128	83-1F	PL-274*	Feed Thru Junction		1.92	1.58
(9)	18A1127	83-1T	M-358*	Tee		2.53	2.08



TYPE "BNC" CONNECTORS

Fast bayonet style, especially suited for smaller RG58 and RG59 coax cables. Fig. 17 and 18 are "between series" adapters providing greater convenience where small coax is used with equipment having UHF or N series receptacles. (*) Female connectors mating with all others in same series.

Fig.	Stock No.	Amphenol No.	Military No.	Description	For RG Cable	1-24 Each	25-99 Each
(10)	18A1223	31-002	UG88U	Cable Plug	58	\$.72	\$0.59
(10)	18A1120	31-018	UG88B/U	Cable Plug	58	.76	.62
(10)	18A1150	31-202	UG88C/U	Cable Plug	58	.86	.71
(10)	18A1225	31-012	UG260U	Cable Plug	59, 62, 71	.66	.54
(10)	18A1123	31-212	UG260B/U	Cable Plug	59, 62, 71	.96	.79
(11)	18A1228	31-005	UG89U*	Cable Receptacle	58	.82	.67
(11)	18A1130	31-015	UG261U	Cable Receptacle	59, 62, 71	1.53	1.25
(12)	18A1224	31-003	UG290U	Panel Receptacle		1.06	.87
(12)	18A1132	31-203	UG290A/U*	Panel Receptacle		.86	.71
(13)	18A1149	31-102	UG657U*	Recept. 1-Hole Mtg.		1.27	1.04
(14)	18A1229	31-011	UG262U*	Recept. Rear Clamp	59, 62, 71	1.67	1.37
(14)	18A1227	31-001	UG291U*	Recept. Rear Clamp	58	1.75	1.43
(15)	18A1153	31-219	UG914U*	Dbt. Female Junction		1.22	1.00
(16)	18A1131	31-008	UG274U*	Tee		1.96	1.61
(17)	18A1121	31-830	UG201U	N to BNC Adaptor		2.33	1.91
(17)	18A1134	31-028	UG273U*	UHF to BNC		1.56	1.28
(18)	18A1135	31-217	UG349A/U	N to BNC		2.55	2.09

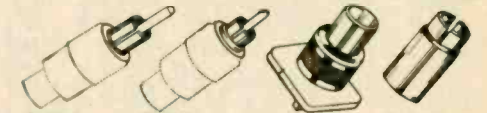


"N" SERIES CONNECTORS

Highest quality, constant impedance style connectors. Generally specified for more critical applications because of lower SWR and weatherproof construction. UG/1185/U, 1186U and 1187U have captivated internal contacts; recommended where coax line will be supported by the connector. * Female connectors mating with all others in same series.

Fig.	Stock No.	Amphenol No.	Military No.	Description	For RG Cable	1-24 Each	25-99 Each
(19)	18A1231	82-61	UG21B/U	Male Cable Plug	8	\$1.28	\$1.05
(19)	18A1113	82-84	UG94A/U	Male Cable Plug	11	2.01	1.65
(20)	18A1269	82-63	UG23B/U*	Female Cable Jack	8	1.47	1.21
(21)	18A1230	82-24	UG58U*	Panel Recept.		.76	.62
(22)	18A1271	82-101	UG29B/U*	Dbt. Recept. Junction		1.88	1.54
(23)	18A1275	82-100	UG57B/U*	Dbt. Plug Junction		2.66	2.18
(24)	18A1109	82-213	UG27C/U*	Right Angle		4.14	3.40
(25)	18A1110	82-99	UG28A/U*	Tee		3.14	2.58

COAX CABLE CONNECTOR ADAPTORS



For connecting PL-259, SO-239 plugs to Motorola and RCA type sockets and cable plugs. Designed for RF transmitter-receiver cables, test equipment for fast conversion without altering original connectors.

① Adapts PL-259 Plug to standard auto antenna plug.	
No. 18C427. Model CPA. Mfg. List 75c. Net Each	45c
② Adapts PL-259 plug to RCA type phono plug.	
No. 18C428. Model CPP. Mfg. list 75c. Net Each	45c
③ SO-239 coax connector to standard auto antenna socket.	
No. 18C429. Model CSA. Mfg. list 75c. Net Each	45c
④ Standard auto antenna plug to RCA type phono plug.	
No. 18C430. Model AAP. Mfg. list 40c. Net Each	24c



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- 4** OVERLAND PARK, KANSAS 66204
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TUNES IN EVERYTHING ON THE AIR IN THESE 4 BANDS:

550-1600 KC; 1.6-4.5 MC;

4.0-12.0 MC; 11.0-30.3 MC

BAND SPREAD AMATEUR BANDS



A REGULAR \$139.95 SELLER IN 1965

B-A SPECIAL

\$84.95

NOTHING DOWN



ONLY \$5.00 MONTHLY BUYS THIS FINE RECEIVER!

AN EXCITING SHORTWAVE SET... A FINE STANDARD BROADCAST RECEIVER TOO

Fantastic receiver for short wave listener as well as amateur radio operator. Feature packed, provides performance normally found in much more expensive units. Beautiful appearance . . . lighted black dial is highlighted by extruded aluminum front panel and grey-blue steel cabinet.

Full coverage in 4 bands: 550-1600 KC, 1.6-4.5 MC, 4.0-12.0 MC, 11.0-30.0 MC, Special calibration charts for Amateur 10, 15, 20, 40 and 80 meter bands and Citizens Band; Foreign Broadcast 13, 16, 19, 25, 31, 41 and 49 meters.

Modern circuitry for AM and SSB phone or code with separate product detector for SSB/CW reception; illuminated signal strength meter operating in all modes, peaking Q-multiplier for optimum, selectivity to meet critical receiving requirements, separate RF and audio gain controls, full time AGC for SSB/CW as well as AM, automatic series-gate noise limiter, full wave transformer-operated power supply.

Controls: Main tuning, bandspread tuning, band selector, audio gain, RF gain, selectivity, BFO pitch, noise limiter, function switch, mode switch. Front panel head-phone jack. Tuner output. Size 7 7/8" H, 13 1/2" W, 9" D. Shpg. wt. 28 lbs. For 120 V. 60 cy. AC.

No. 35B77. Was \$99.95 in B-A's 1966 Catalog. While They Last. . . . **\$84.95**

EXTRA BONUS SAVINGS OF \$8.82 ON THIS SHORTWAVE LISTENERS ACCESSORY KIT



HANDY 24 HOUR CLOCK—Tells Time All Over the World! Beautiful, chrome plated, 8" dia. Electric, self-starting. Regular Price **\$8.47**

HALLICRAFTERS COMMUNICATIONS HEADPHONES. Rugged, very sensitive. Makes private listening a real pleasure. Attached phone plug. Regular Hallicrafters Price **\$5.00**

EXCLUSIVE B-A WORLD TIME CALCULATOR. Rotary slide rule showing local time at all time zones of the world, Plus Greenwich Mean Time (GMT). Valuable logging aid for short wave listening and amateur station operation. Regular Price **35c**

No. 35B72 **\$5.00**

With Purchase of NC-121 Receiver above. Special **\$5.00**

GET YOUR BEST HAM DEAL AT B-A...

B-A STOCKS ALL THE LATEST HAM EQUIPMENT—WRITE OR CALL US FOR YOUR DEAL. ASK FOR FREE FACTORY LITERATURE ON ANY ITEM



SSB—CW—RTTY AT ITS BEST!

KWM-2 TRANSCEIVER (illus.). 175 W. PEP SSB, 160 W. CW, 80 thru 10 meters, selectable sideband. 6 1/2 x 14 3/4 x 13" deep. Wt. 18 lbs. 35A238. Net Ea. \$1150.00

OPTIONAL ACCESSORIES FOR 755-3B

- No. 35A23. 516F-2 AC Supply. 28 lbs. Net Each. \$115.00
- No. 35A241. 312B-5 PTO, Wattmeter, Patch, Speaker. Net Ea. \$350.00
- No. 35A242. MP-1 12 V. DC Supply. 13 lbs. Net Each. \$198.00
- No. 35A240. 351-D-2 Mobile Mount. Wt. 18 lbs. Net Each. \$120.00

755-3B RECEIVER. Tunes amateur bands 3.5 MC to 29.7 MC with coverage of any frequency in the 3.5 to 30 MC range (except 5.0 to 6.5 MC) by substituting crystals. Operates on 117 V. 60 cy. AC. Size 6 7/8" H., 14 1/2" W., 11 5/8" D. Wt. 20 lbs.

No. 35B416. With 2.1 KC Mechanical Filter. Net Each. \$620.00

OPTIONAL ACCESSORIES FOR 755-3B

- No. 50B96. X455KQ-200. 200 Cycle Mechanical Filter. Each. \$68.00
- No. 50B97. 500, 800 or 1500 Cycle Mechanical Filter. Specify. Ea. \$57.50
- No. 50B98. 3, 1, 4 or 6 KC Mechanical Filter. Specify. Each. \$47.00
- No. 35A15. 312B-3 Matching Speaker. Net Each. \$32.00
- No. 35A20. 312B-4 Speaker, Console, power meter, patch. Net Each. \$195.00

325-3 TRANSMITTER. The finest transmitter of its kind. 175 W. PEP input on SSB, 160 W. CW. Range 3.5-29.7 MC except 5.0 to 6.5 MC. Mechanical filter sideband generation, permeability-tuned VFO automatic load control for higher average talk power. Internal switching permits transceiver operation when used with 755-3 receiver. Same size cabinet as receiver. Requires 516-F2 AC power supply above. Wt. 16 lbs.

No. 35B53. Net Each. \$750.00

30L-1 LINEAR AMPLIFIER. 1000 W. PEP. 38 lbs. Same size as KWM-2. Covers 80 through 10 meters. 115/230 V. AC.

No. 35A437. Net Each. \$520.00



R. L. DRAKE CO.

TR-4 TRANSCEIVER (illus.). 300 W. PEP SSB, 260 W. CW, 260 W. PEP (50 W. out) AM, 80 through 10 meters in seven 600 KC ranges. Solid state VFO. Selectable sideband. 5 1/2 x 10 3/4 x 14 3/4" deep. Wt. 16 lbs. No. 35A612. Net Each. \$599.95

TR-4 ACCESSORIES

- No. 35B404. AC-4 AC Supply. Wt. 19 lbs. Net Each. \$99.95
- No. 35B147. RV-4 Console VFO/Speaker. Wt. 7 lbs. Net Each. \$99.95
- No. 35A613. MS-4 Matching Speaker. Wt. 6 lbs. Net Each. \$19.95
- No. 35B405. DC-3 12 V. DC Supply. Wt. 10 lbs. Net Each. \$149.95
- No. 35B138. MMK-3 Mobile Mounting Kit. Wt. 3 lbs. Net Each. \$6.95

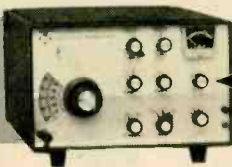
R-4A RECEIVER. SSB, AM CW, RTTY. Covers ham bands 80, 40, 20, 15 meters and 28.5 to 29.0 MC with crystals furnished. Can tune 160 meters, MARS, CB, WWV, marine, SW broadcasts, 1.5 MC to 30 MC in 500 KC ranges with accessory crystals. Linear permeability tuned VFO, 1 KC calibration. Size 5 1/2 x 10 3/4 x 11 5/8" deep. Wt. 16 lbs. No. 35A614. Net Each. \$399.95

T-4X TRANSMITTER. Will transceive with R-4A receiver. Has its own VFO. 200 W. PEP SSB and AM, 200 W. CW. Requires AC-3 power supply above. Size 5 1/2 x 10 3/4 x 11 5/8" deep. Wt. 14 lbs. No. 35A615. Net Each. \$399.95

T-4 SIDEBAND RECITER. Transceives with R-4A only. No VFO, only crystal control. Otherwise identical to T-4X. Requires AC-4 supply. No. 35A616. Net Each. \$299.95

L-4 LINEAR AMPLIFIER. 2000 watts PEP SSB—1000 watts DC input power on CW, AM and RTTY. Rated for continuous duty. Uses two 3-400Z or 8163 triodes. 13 1/8 x 7 7/8 x 14 1/8" D. Power supply 6 3/4 x 7 7/8 x 11" D. Combined wt. 15 lbs.

No. 35C257. Linear with Tubes & Power Supply. Net Each. \$695.00



GALAXY ELECTRONICS

GALAXY V TRANSCEIVER (illustrated). 300 W. PEP SSB/CW, 80 through 10 meters, selectable sideband. Crystal filter. 6 x 10 1/4 x 11 1/4" deep. Wt. 13 lbs. 35B303. Net Each. \$420.00

GALAXY V ACCESSORIES

- No. 35B552. 110 V. 60 Cy. AC Supply. Wt. 23 lbs. Net Each. \$79.95
- No. 35B553. Speaker Console. Will house AC Supply. 3 1/2 lbs. Net Ea. \$19.95
- No. 35B564. Deluxe Console. Speaker, SWR Bridge, patch, 24 hr. clock. 7 lbs. \$99.95
- No. 35B560. Remote VFO. Fine for DXing. Wt. 5 lbs. Net Each. \$69.95
- No. 35B558. Crystal Calibrator. Plugs in. Net Each. \$19.95
- No. 35B556. VOX Control. Internally mounted. Net Each. \$29.95
- No. 35A608. 12 V. DC Power Supply. 800 V/350 V. DC. Net Each. \$99.95
- No. 35B554. Mobile Mounting Bracket. Net Each. \$7.95
- No. 35A609. High Angle Tilt Accessory for mobile mount. Net Each. \$2.99

GALAXY 2000+ LINEAR AMPLIFIER. Maximum legal power, SSB-CW-RTTY. Output over 1200 W. PEP. All bands 80 through 10 meters. RF unit size 10 1/4 x 11 1/4 x 6". Wt. 14 lbs. Separate 115/230 V. 60 cy. AC power supply. 7 1/4 x 9 5/8 x 7 5/8" Wt. 30 lbs.

No. 35B559. With Power Supply. Net Each. \$450.00

134



hallicrafters

MODEL SX-146 RECEIVER. Advanced design, with crystals for Ham Bands 10 (28.5-29 MC) through 80 meters. Full range 2 to 30 MC with auxiliary crystals. VFO output for transmitter control. Size 5 7/8 x 13 1/2 x 11" deep.

No. 35A606. Less Speaker. Wt. 20 lbs. Net Each. \$269.95

No. 35C299. R50 Speaker. 8 1/4 x 8 3/8 x 9 7/8" D. Wt. 6 1/2 lbs. Net Each. \$19.95

HT-46 5-BAND TRANSMITTER. Transceives with the SX-146 Receiver above or operates independently with self-contained VFO. Has advanced crystal filter selectable sideband. SSB-CW 175 W PEP, 80 through 10 meters. Physically matches and is same size as SX-146.

No. 35A300. Net Each. \$349.95

SR-500 "TORNADO" TRANSCEIVER. Fixed or mobile brute power... 500 W. PEP SSB/CW. 80 + 40 M (LSB), 20 M (USB), crystal lattice filter, exclusive amplified automatic level control, receiver incremental tuning \pm 3 KC from transmit frequency, sensitivity less than 1 microvolt. 13x6 1/2 x 11" D. Wt. 13 1/2 lbs. No. 35B596. Less Power Supply. Net Each. \$395.00

ACCESSORIES FOR SR-500

- 35B597. P-500 AC. 115 V. 60 cy. Power Supply. Wt. 29 lbs. Ea. \$119.95
- 35A598. P-500DC. 12 V. DC Power Supply. Wt. 10 lbs. Net Each. \$149.95
- 35C164. HA-7. Crystal Calibrator. Net Each. \$19.95
- 35A599. HA-16. VOX Adaptor. Net Each. \$37.95

SR-42A 2 METER RECEIVER AND TRANSMITTER. Mobile or fixed complete 12 W. crystal controlled AM transmitter and 143.9-148.1 MC receiver with power supply for 115 V. AC and 12 V. DC. All in one package 5 1/2 x 12 1/8 x 8 1/4" deep. Less crystal, DC power cord and vibrator (MR-40 below). No. 35A603. Wt. 17 lbs. Net Each. \$199.95

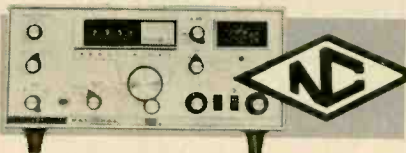
SR-46 6 METER RECEIVER AND TRANSMITTER. Same as SR-42 except covers 49.9-54.1 MC range. Less crystal, DC cord and vibrator. Wt. 17 lbs. No. 35A604. Net Each. \$199.95

ACCESSORIES FOR SR42 AND SR46

- No. 35A605. MR-40. Mobile Kit. Cord, vibrator and bracket. Net Ea. \$12.95
- No. 50B104. Crystals. Specify Frequency. 2 week delivery. Net Each. \$4.85

HALLICRAFTERS RECEIVERS AND SPEAKERS

- MODEL SX-122.** General coverage, dual conversion receiver for amateur and short wave listening. SSB/CW and AM. 19 x 8 x 10" D. No. 35C163. Wt. 29 lbs. Net Each. \$289.95
- No. 35A472. R47 Speaker for Phone or CW. Wt. 3 lbs. Net Each. \$14.95
- No. 35C164. HA-7 100 KC Crystal Calibrator. Net Each. \$19.95



NATIONAL

NCX-5 TRANSCEIVER (illus.). 200 W. PEP SSB/CW, 100 W. AM, 80 through 10 meters, selectable sideband. Has solid state VFO, direct KC read-out on digital dial, ALC,

VOX. Size 6 3/4 x 13 5/8 x 11 5/8" deep. Wt. 26 lbs. No. 35C63. Less Power Supply. Net Each. \$685.00

NCX-5 ACCESSORIES

- No. 35C65. NCX-A. 115 V. AC Supply/Speaker. Wt. 29 lbs. Net Each. \$110.00
- No. 35B315. "Century" 12 V DC Supply. Wt. 7 lbs. Net Each. \$145.00
- 35C69. VX-501. VFO/Crystal Console. For NCX-5. Wt. 15 lbs. Net Ea. \$249.95
- No. 35A441. XCU-27. 100 KC Plug-In Crystal Calibration. Net Each. \$26.60

NCL-2000 LINEAR AMPLIFIER. 2000 W. PEP. 80 through 10 meters. Requires 20 to 200 watts drive. Built-in 115/230 V. 60 cy. AC Power Supply, ALC output, internal change-over and protective relays. With two 8122 ceramic tetrode tubes. Size 9x16x12 1/2" deep. No. 35B93. Shpg. wt. 73 lbs. Net Each. \$685.00

HRO-500 COMMUNICATIONS RECEIVER. Covers the entire VLF and HF spectrums from 5 KC to 30 MC in sixty 500 KC bands. Directly calibrated, accurate and readable to 1 KC throughout the entire range. Completely transistorized. Operates on 115/230 V. AC or 12 V. DC. DC current drain 200 MA. Size 7 5/8 x 16 1/2 x 12 3/4" deep. Shpg. wt. 32 lbs. No. 35B213. Net Each. \$1560.00

No. 35B214. HRO-500-TS Matching Speaker. Net Each. \$40.00



SBE SIDE BAND ENGINEERS

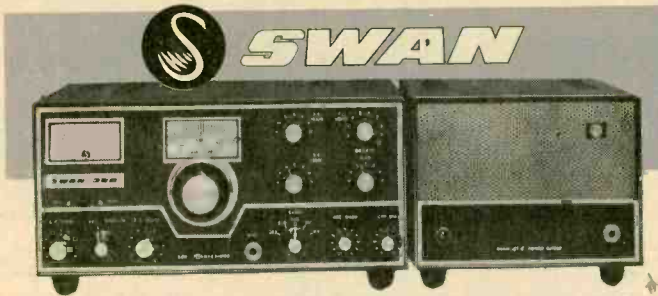
SB-34 TRANSCEIVER. 135 W. SSB input, 80, 40, 20, 15 meters, selectable sideband. Built-in universal power supply and speaker, solid-state dial calibration and switching... no relays. Delta receiver tuning for operating slightly off transmitter frequency. 5x11 1/4 x 10" D. For 115 V. 60 cycle AC/12 V. DC. No. 35B547. Wt. 20 lbs. Net Each. \$395.00

ACCESSORIES FOR SB-34

- No. 35B535. SB2-VOX. Plug-In Voice Control. Net Each. \$34.50
- No. 35B536. SB2-XC. Crystal Calibrator. Net Each. \$24.50
- No. 35B540. SB2-CW. "Codapter". Tone gen. for CW operation. Net Ea. \$39.95
- No. 35B545. SB2-MB. Mobile Mounting Bracket. Net Each. \$12.50
- No. 35B546. SB2-MIC. Microphone with plug. Net Each. \$14.50

SB2-LA LINEAR AMPLIFIER. 1000 W. PEP, 80-40-20; 750 W. on 15 meters. Has built-in 115 V. 60 cy. AC supply, built-in antenna relays. Size 5 1/4 x 11 3/4 x 11 5/8" deep. Shpg. wt. 35 lbs. No. 35C517. Net Each. \$249.50

... TOP TRADES—EASY TERMS—FAST PERSONAL SERVICE
WHETHER FOR A WHOLE NEW STATION OR FOR ACCESSORIES... B-A IS YOUR FAST, DEPENDABLE ONE-STOP SOURCE FOR EVERY HAM NEED!



SWAN-350 TRANSCEIVER (illus.) 400 W. SSB, 320 W. CW, 125 W. AM input, 5 bands 3.5-4. MC, 7.0-7.5 MC, 13.85-14.35 MC, 21.0-21.5 MC, 28.5-29.0 MC lower sideband on 80 and 40 M., upper sideband on 20, 15 and 10 M. Has transistorized internal VFO, crystal lattice filter, ALC, AGC and 5 meter. Size 5 1/2 x 13 x 11" deep. Wt. 16 lbs.
 No. 35B148. Less Power Supply (below). Net Each. **\$420.00**
SWAN-250 6 METER SSB TRANSCEIVER. 240 W. SSB, 180 W. CW, 75 W. AM input. Complete coverage 50-54 MC, upper sideband. Two 6146B tubes in power amp. Receiver noise figure better than 3 db. 5 1/2 x 13 x 11" deep. Wt. 17 lbs.
 No. 35C478. Less Power Supply. Net Each. **\$325.00**
ACCESSORIES FOR SWAN-350 AND 250
 35B150. Model 117XC. AC Supply/Speaker (illus.). Net Each. **\$95.00**
 35B151. Mod. 14-117. 12 V. DC Supply. Net Each. **\$130.00**
 35B446. Model VX-1. Plug-In VOX Control. Net Each. **\$35.00**
 35C487. Deluxe Mobile Mounting Kit. Net Each. **\$19.50**
 35C152. Model SSB-2. Selectible Sideband Kit (350 only). Net Each. **\$18.00**
 35C480. 100 KC Crystal Calibrator (350 Only). Net Each. **\$19.50**
 35C481. 500 KC Crystal Calibrator (250 Only). Net Each. **\$19.50**
SWAN MARK I LINEAR AMPLIFIER. 2000 W. PEP, all bands, 80 through 10 meters. Requires two 3-400Z tubes. With 115 V. AC Supply.
 No. 35B154. Less tubes. Net Each. **\$425.00**

WATERS HAM ACCESSORIES



MODEL 334 DUMMY LOAD/WATTMETER. For making legal non-radiating performance tests on radio transmitters. Frequency range 2 to 230 MC. VSWR less than 1.3:1. Power range 50 watts continuous, 1000 W. Intermittent. Direct reading meter calibrated 10, 100 and 1000 W. Has overload signal, SO-239 connector. Size 4 3/4 x 9 x 10 1/4". Wt. 12 lbs.
 No. 29A457. Net Each. **\$89.95**
MODEL 371 CALIBRATED 52 OHM RF ATTENUATOR. Accurate means of checking receiver comparative performance, calibrating "S" meters, measuring antenna gain or reducing RF signal overloading of receivers. Attenuation 0-61 in 1 db steps. Power rating 1/4 W. Has rocker switches. Size 7 1/2 x 2 1/4 x 2 1/8" H. Wt. 1 lb.
 No. 29B252. With SO-239 Connectors. Net Each. **\$27.95**
MODEL 369 REFLECTOMETER. New dual indicating meter simultaneously shows forward and reflected voltages expressed as RF watts. Sensing unit for 52 ohm coax line may be permanently connected. Scale ranges 1000 and 200 W. Forward, 200 and 20 W. Reflected. 5 1/2 x 3 3/4 x 4 1/4".
 No. 29B262. Shpg. wt. 3 lbs. Net Each. **\$115.00**
MODEL 3002 HYBRID COUPLER-PHONE PATCH. Versatile accessory with built-in switching for tape recording from receiver or phone, playing recorder back over transmitter or phone. Provides VOX operation on phone patch, has built-in compressor amplifier (compreamp) to increase weak telephone levels. Transistorized. Internal battery powered. Wt. 3 lbs.
 No. 29B263. Model 3002. Coupler with Compreamp. Net Each. **\$69.95**
 No. 29B265. Model 3001. Coupler without Compreamp. Net Each. **\$49.50**
MODEL 361 CODAX AUTOMATIC KEYS. Perfect CW, automatic spacing and timing. Speed 5 to 50 WPM. Built-in monitor signal and double-paddle key. Transistorized, internal battery powered. Size 2 3/8 x 3 3/4 x 6 1/8". Shpg. wt. 3 lbs. Requires 6-RM502R batteries.
 No. 29A458. Net Each. **\$92.50**



753 SSB/AM/CW TRANSCEIVER



WITH SILICON SOLID STATE VFO
 Freq. range 3,490 -4,010 KC, 6,990-7,310 KC, 13,890-14,410 KC. LSB 80 and 40 meters, USB 20 meters. 180 W. PEP SSB and AM, 180 W. CW. Has 5.2 MC crystal lattice filter, bandwidth 2.7 KC at 6 db. Stability 400 cps. after warmup. Receiver sensitivity 1 microvolt for 10 db S/N ratio. Size 5 1/2 x 14 x 11 1/4" deep. Wt. 25 lbs.
 No. 35C482. Model 753 Wired. Less Power Supply. Net Each. **\$299.95**
 No. 35B485. Model 751 Wired AC Power Supply/Speaker Console. Net **\$109.95**
 No. 35B486. Model 752 Wired 12 V. DC Power Supply. Net Each. **\$109.95**

AMECO NUUVISTOR.
Preamplifier for Any Receiver



Tunes 6 meters thru 160 meters. Uses 2-6DS4 Nuuvistors in Cascade giving exceptional noise figures of 1.5 to 3.5 db depending on band. Will improve the performance of practically every receiver in use by greatly boosting the desired signal while improving rejection of image and spurious signals. Panel switch cuts booster in or out, switching antenna direct to receiver. Size 3x5x3". For 115 V. 60 cy. AC.
 No. 35C516. Model PCL-P. Wt. 1 1/2 lbs. Net Each. **\$32.95**

24 HOUR NUMERCHRON DESK CLOCK
DIRECT READING



Exact split second time can be read at a glance. Has separate 1/4" number wheels for hour, minute and second. Fine for home, desk; ideal for radio stations. Quiet operating. Ebony plastic case 7 3/4 x 4 x 4". Self-starting, 115 V. 60 cy. AC. Wt. 4 lbs. **\$14.85**
 No. 37B261. Net Each.

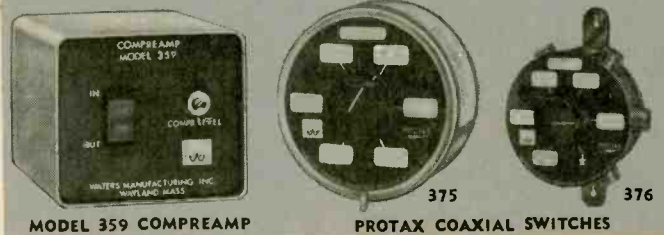
24-HOUR WORLD CLOCK
WITH UNIQUE SOUTH POLAR PROJECTION MAP



• 8" Diameter—Self Starting Electric
 • Highest Quality—UL Approved
 Reliable split second, round the world time at a glance. For Hams, Short-wave listeners, commercial radio stations, home or office. Beautifully chrome plated all metal construction with contrasting black face and white numerals. Has sweep second hand. Unique feature is inner dial with south polar projection map to show world time. Quiet operating self-starting synchronous motor. For 115 V. 60 cy. AC. UL approved. Wt. 1 1/2 lb.
 No. 37B282. Net Each. **\$8.47**

Beautiful Chrome Finish

WATERS HAM & CB ACCESSORIES



MODEL 359 COMPREAMP For use with any transmitter between microphone and mike jack. Up to 4 times increase in effective speech power. Transistorized. Battery powered. Size 2 3/4 x 3 x 4 1/2". Shpg. wt. 2 lbs.
 No. 29A456. Net Each. **\$27.95**
PROTAX COAXIAL SWITCHES WITH AUTOMATIC GROUNDING. Functions as a regular antenna selector switch as well as a grounding switch for the entire antenna system when shutting down the station. Power rating 1000 watts. Regular 50239 coaxial connectors.
 No. 29B14. Model 375. 6 Pos. with rear connectors. Net Each. **\$13.95**
 No. 29B15. Model 376. 5 Pos. with side connectors. Net Each. **\$12.50**

PETERSEN COMPACT CONVERTERS
VHF TO BROADCAST



Used with any broadcast AM radio to tune in on VHF weather stations, aircraft, business, fire, marine, police, railroad, taxicab, radiotelephone, etc. No connection to radio required. Operates by being placed close to your set and tuning set to an unused broadcast band frequency. Converter is crystal controlled. Performance range 20 miles or better. Antenna extends to 36 inches. Case size 2 7/8 x 1 7/8 x 4 inches. Requires regular 9 V. transistor battery.
 When ordering specify VHF station frequency to be received and broadcast frequency desired on your radio. Allow 2 weeks delivery. Wt. 1 lb.
 No. 50A88. Less Battery. Net Each. **\$24.95**

RECEIVERS FOR SHORTWAVE LISTENING



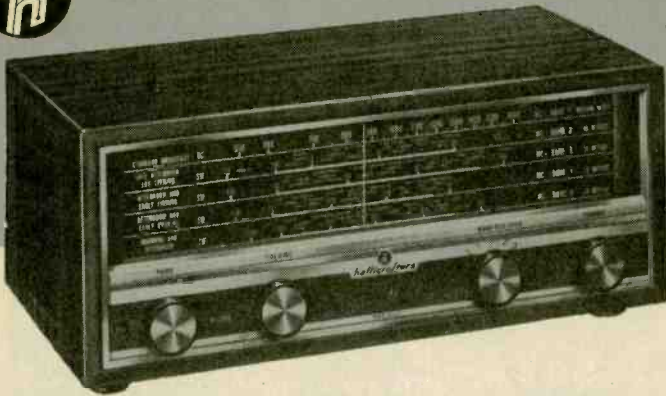
hallicrafters FOREIGN BROADCAST (PLUS U.S.) RECEIVER

S-200 LEGIONAIRE — 5 BANDS

LETS YOU "ZERO-IN" . . . WITH LOCAL STATION TUNING EASE AND PRECISION . . . SHORTWAVE BROADCASTS ALL OVER THE WORLD

\$59⁹⁵

NOTHING DOWN



FAMOUS HALLCRAFTERS S-118 5-BAND RECEIVER

WITH 185 KC TO 31 MC TUNING RANGE



ONLY \$94⁹⁵

NOTHING DOWN

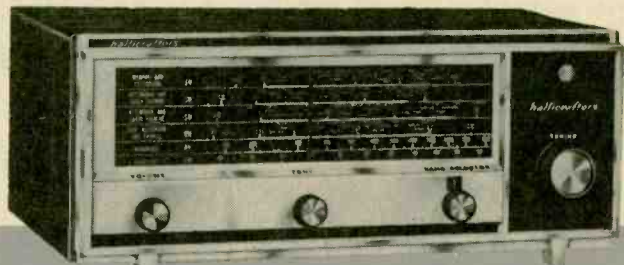
- Covers Shortwave, Broadcast and Longwave.
- Electrical Bandspread Slide-Rule Dial.
- Noise Limiter—5 tubes plus rectifiers.

Features a plenty! Tremendous tuning range covers low band aeronautical, mobile and international distress frequencies plus U. S. Gov't. weather broadcasts, not found on any other set . . . as well as the broadcast, amateur and international shortwave bands. All 5 bands, 185 KC to 420 KC, 495 KC to 1.62 MC, 1.6 MC to 4.95 MC, 4.85 to 15 MC, 14.8 to 31 MC clearly calibrated on full-length slide rule dial bandspread for easy tuning. Has automatic noise limiter, beat oscillator for code, internal speaker; jacks for headphones, phono input and socket on rear for external power source. 102/125 V. 60 cy. AC. Size 13 3/4" x 6 1/8" x 8 1/2" D. Wt. 19 lbs. **\$94.95** No. 35A447. Net

Frequency Range 5.9-6.25 MC (49 Meters); 9.45-9.8 MC (31 Meters); 11.65-12.05 MC (25 Meters); 15.05-15.55 MC (19 Meters) and Broadcast Band 550-1600 KC.

Here it is—a professionally styled short wave receiver that you can tune as easily as you tune your AM radio! Has Hallicrafters' S-P-R-E-A-D tuning. Stretches out the heavily-crowded portions of the foreign broadcast spectrum into four separate, precisely calibrated segments—actually spreads the stations apart for effortless, hairline tuning.

With the S-200 you can listen to the news in English direct from the major capitals of the world—study foreign languages by hearing the real thing or just tune about to enjoy the wonderful world of short wave listening. Has AM standard broadcast ferrite loop antenna; terminals for outdoor SW antenna, internal speaker and provision for any 8 ohm external speaker or headphones. Walnut wood grained steel cabinet 13 1/2 x 5 7/8 x 8 3/4" D. With free station-finder log. No. 35C291. Shpg. wt. 12 lbs. Net Each. **\$59.95**



NEW hallicrafters S-210 FM / AM / FOREIGN BROADCAST 6 BAND RECEIVER

\$89⁹⁵

TUNES STANDARD AM/FM BROADCAST BANDS AND THE 49, 31, 25, 19 METER SHORTWAVE BANDS

Amazing new one knob tuning principle lets you S-P-R-E-A-D-tune all stations with equal ease. Even the foreign stations are separated electronically so that any member of the family can enjoy fine reception from all over the world . . . as well as AM and FM broadcasts from your usual local stations.

Has built-in ferrite loop antenna for standard AM broadcast, effective line cord antenna for FM and terminals for outdoor short wave antenna. Self-contained speaker has heavy duty 1.47 oz. magnet. Any external 8 ohm speaker may be used. FM range has AFC for perfect drift-free tuning. 6 tubes, 3 dual purpose. Housed in attractive walnut toned vinyl covered metal cabinet with molded front and wood grain inlay trim. Size 13 5/8 x 6 x 8 1/4" overall. No. 35C292. Shpg. wt. 12 lbs. Net Each. **\$89.95**

REGENCY MONITOR RADIOS FOR POLICE, FIRE AND AIRCRAFT



NO MONEY DOWN ON EASY TERMS

MODELS FOR 30-50MC FM, 152-174 MCFM, 108-135 MC AM

LOWEST COST MONITOR RADIOS

Model PR-35BR. Tunes in police, fire and other vital or highly interesting broadcasts. Has transistorized adjustable squelch for quieting between calls. Sensitivity 10 microvolts, selectivity 100 KC. Built-in 4" speaker 1.1 watts audio. 5 tubes plus rectifier. Requires 30 watts. 117 V. AC or DC. Black plastic cabinet 9 1/2 x 6 x 5 1/4". Wt. 5 lbs. **\$59.95** No. 35B25. Tunes 30-50 MC FM. Net Each.

Model PR-155BR Same as above, but tunes 152-174 MC FM. **\$59.95** No. 35B368. Net Each.

HIGHLY SENSITIVE MONITOR RADIOS

MR Series. For police, fire, commercial broadcasts. Sensitivity 4 microvolts or better, more selective than PR models. Very stable tuned RF stage, all-electronic adjustable squelch for perfect quieting, illuminated dial, built-in 5 inch speaker, provision for external speaker. 7 tubes plus rectifier. Vinyl laminated steel cabinet, 12 x 6 1/2 x 6". For 117 V. 60 cy. AC only. Wt. 11 lbs. No. 35B366. Model MR-10B. 152-174 MC-FM. Your Choice **\$84.95** No. 35B35. Model MR-33B. 30-50 MC-FM. Net Each.

MODEL AR136 AIRCRAFT RECEIVER

Made to professional industry standards. Has amazingly high 1 microvolt sensitivity, Nuvistor RF amplifier, built-in 5" speaker, 1 watt output, adjustable squelch. Same size and style cabinet as MR Series above. For 117 V. 60 cy. AC only, 36 watts. Wt. 15 lbs. **\$89.95** No. 35B356. Model AR136. 108-136 MC AM. Net Each.

No. 38B47. Model AA-1. Outdoor Antenna for AR136. Net Each. **\$5.95**

OUTDOOR ANTENNAS FOR MONITOR RADIOS

Ground plane, all-direction, highly effective. Mount on any 1 1/4" dia. support. Less RG58U lead. **\$12.95** No. 9A175. Model GP-50 for 30-50 MC. Net Each.

No. 9B176. Model GP-150 for 108-174 MC. Net Each. **\$5.40**

HALLCRAFTERS SX-130 FINE GENERAL COVERAGE RECEIVER



- Has crystal filter.
- Product detector for single side-band and CW.
- Calibrated "S" meter.

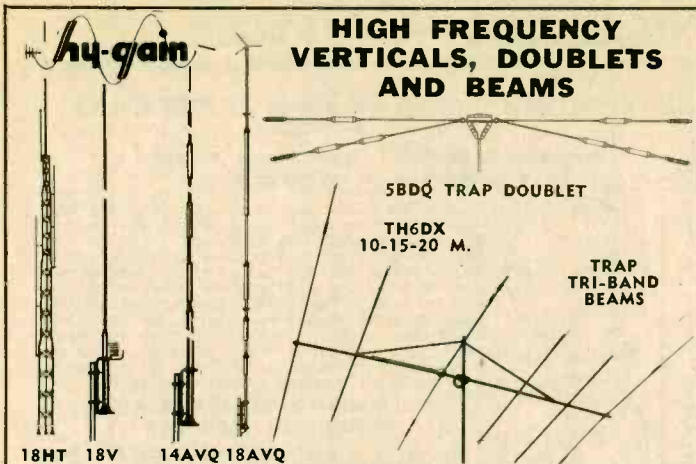
R-50

TUNES 1700 KC TO 34 MC AND BROADCAST BAND

Precision made, hot-performing 7 tube receiver with important features for the serious world wide listener and amateur. Bandspread tuning covers amateur 10, 15, 20, 40 and 80 meter bands and 17 meter citizens band. General coverage tuning dial is calibrated in megacycles and has 0-100 logging scale. Phasing control for crystal filter gives pin-point selectivity. Stable, modern circuit tunes and holds side band, CW and AM signals more easily. Has antenna trimmer, RF amplifier, 2-IF stages, 2 watts audio output for external 3-4 ohm speaker. Front panel phone jack disables speaker. Newly styled, in professional steel cabinet, grey and silver trimmed. 18 7/8 x 9 3/4 x 8" high. For 115 V. 60 cy. AC. Wt. 25 lbs. **\$169.95** No. 35C298. Less Speaker. Net Each.

R-50 Matching Speaker. High efficiency 4x6" PM type. **\$19.95** No. 35C299. Wt. 4 lbs. Net Each.

Amateur Antennas and Accessories



HIGH FREQUENCY VERTICALS, DOUBLETS AND BEAMS

18HT 18V 14AVQ 18AVQ

MULTI-BAND VERTICALS—52 OHM COAX FEED

Model 18HT has decoupling stubs for automatic band switching; structurally very rugged. Model 18V uses tapped coil for band switching.

Stk. No.	Model	Description	Wt. Lbs.	Net Each
6A101	18HT	"Hy-Tower", 10 thru 80 M., 50' high	105	\$139.50
9A153	18V	Coil Loaded, 10 thru 80 M., 18' high	5	16.95

TRAP VERTICALS—52 OHM COAX FEED

All use the new Hy-Q all metal traps and seamless aluminum tubing. Self-supporting except new 18AVQ. Roof mount kits contain 5 ft. mast and wire radials.

Stk. No.	Model	Description	Wt. Lbs.	Net Each
9A160	14AVQ	10 thru 40 M., 20' high	10	\$29.95
9A202	18AVQ	10 thru 80 M., 32' high	18	49.95
9A127	14RMQ	Roof Mount Kit for 14AVQ	8	11.95
9A203	LC80Q	Coil, Adapts 14AVQ for 80 M. Operation		7.95

TRAP DOUBLES—52 OHM COAX FEED

For horizontal or inverted "V" installation. Kits include Hy-Q all metal traps, aluminum clad steel antenna wire, heavy duty cyclac end and center insulators. Less coax line.

Stk. No.	Model	Description	Wt. Lbs.	Net Each
9A1	2BDQ	40 and 80 M., 110'-6"	2	\$23.50
9A3	4BDQ	10 thru 40 M., 68'-6"	4	29.95
9A4	5BDQ	10 thru 80 M., 111'-6"	5	39.95
9A5	248BDQ	20 thru 80 M., 110'-6"	4	26.50

SINGLE BAND DOUBLET ANTENNA KITS

Low cost transmitting-receiving antenna outfits for horizontal or inverted "V" installation. Copper clad steel antenna wire, light-weight molded insulators and 50 ft. RG58/U coax cable included.

Stk. No.	Model	Description	Wt. Lbs.	Net Each
9A10	HD-4	75 M., 120 ft. long	3	\$9.95

THUNDERBIRD 10, 15, 20 METER BEAMS

Feature the new frequency stabilized Hy-Q Traps, offering better performance and mechanical reliability. Beta matched 52 ohm coax feed. Handles maximum legal power. F/B ratio 20-25 db.

Stk. No.	Model	Description	Gain	Lgth.	Boom	Wt.	Net Each
9A162	TH3MK2	3 Elements	8 db.	28 Ft.	14 Ft.	36 Lbs.	\$99.75
9A163	TH6DX	6 Elements	9.2 db.	31 Ft.	24 Ft.	60 Lbs.	139.50

204BA 20 METER 4-ELEMENT BEAM (Not illus.)

High performance DX antenna that can be supported by lightweight tower and standard HAM rotator. Fwd. gain 8.5 db., front-to-back ratio 25 db. Boom 2" x 26 ft. 52 ohm coax feed, Beta matched. Longest element 36 1/2". Seamless all-aluminum tubing, deluxe construction. **\$99.95**

No. 9A204. Shpg. wt. 40 lbs. Net Each.

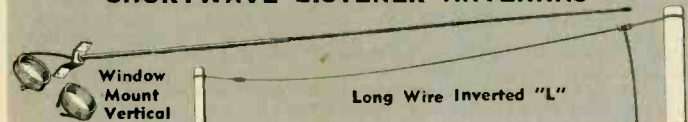


MODEL BN12 BALUN FOR 10, 15 or 20 M. BEAMS

Balances RF energy transfer from 52 ohm coax feed to driven element and improves antenna pattern of radiation. Mounts on boom, takes 2 KW PEP. Fine with beams above. **\$13.50**

No. 9A23. Shpg. wt. 2 lbs. Net Each.

SHORTWAVE LISTENER ANTENNAS



DX receiving ability of any receiver depends on antenna efficiency. These antennas are designed for all SWL type receivers, matching high impedance input. Especially easy to install.

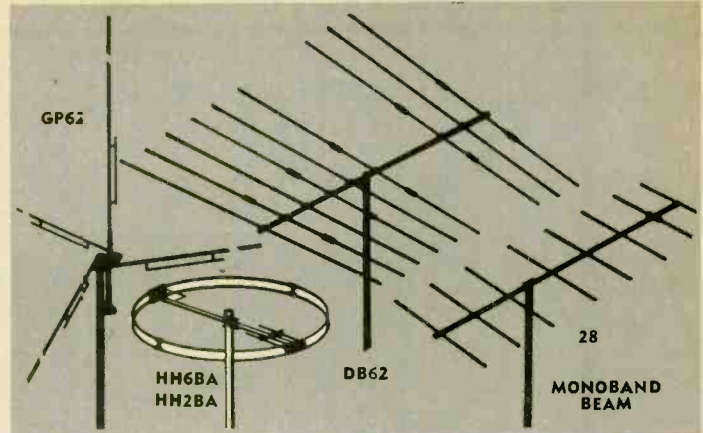
Window Mount Vertical. Especially for limited space installation. Works at home, in apartments, or on vacations. Simple to install. Includes 12 ft. aluminum element, 30 ft. lead-in, universal bracket, 20 ft. grounding kit and instructions. Wt. 4 lbs. **\$9.95**

No. 9A198. HyGain SW-9. Net Each.

Long Wire Inverted "L". 50 ft. antenna flat-top, 50 ft. lead-in, 25 ft. poly plastic rope, molded insulators and instructions. Wt. 4 lbs. **\$6.95**

No. 9A197. HyGain SW-6 Kit. Net Each.

HYGAIN VHF AMATEUR ANTENNAS



2 AND 6 METER HALO ANTENNAS

For base or mobile operation. Horizontal polarized, omni-directional. Balanced center mount design. Beta matched for low SWR, 52 ohm coax feed.

Stk. No.	Model	Description	Wt. Lbs.	Net Each
9A199	HH6BA	6 Meters, 34" dia.	4	\$10.95
9A200	HH2BA	2 Meters, 14" dia.	1	5.95
9A201	HMBA	50" Mast, fits 3/8-24 mounts	2	5.95

2 AND 6 METER DUAL BAND GROUND PLANE

Unity gain, omni-directional, 52 ohm coax feed. VSWR less than 1.5:1 both bands. Max. power 1 KW. Aluminum. Wt. 6 lbs. **\$19.95**

No. 9A167. Model GP62. Net Each.

2 AND 6 METER DUAL BAND BEAM

18 El. 15 db. gain on 2 Meters; 4 El. 8 db on 6. F/B ratio 15-20 db. Feeds with one 52 ohm coax line. SWR 1.5:1 both bands. Boom length 10 ft. All aluminum. Max. wind. survival 100 MPH. Wt. 8 lbs. **\$32.95**

No. 9A97. Model DB62. Net Each.

MONOBAND VHF BEAMS

New Total Performance Beams. Seamless aluminum tubing, machine formed heavy brackets MIL spec. iridized. F/B ratio 20-30 db. VSWR 1.5:1 at resonance. Max. wind survival 100 MPH.

Stk. No.	Model	Description	Gain	Element Lgth.	Boom	Wt.	Each
9A61	23	2 M., 3 El.	9 db.	3 Ft.-6 In.	3 Ft.	5 Lbs.	\$6.95
9A62	28	2 M., 8 El.	14.5 db.	3 Ft.-6 In.	14 Ft.	9 Lbs.	16.50
9A63	63B	6 M., 3 El.	10 db.	9 Ft.-10 In.	8 Ft.	7 Lbs.	16.95
9A170	64B	6 M., 4 El.	12.7 db.	9 Ft.-11 In.	12 Ft.	10 Lbs.	21.50
9A65	66B	6 M., 6 El.	15 db.	9 Ft.-9 In.	24 Ft.	19 Lbs.	38.50

DOW 52 OHM COAXIAL RELAYS

Rated 1 KW on matched line up to 400 MC. Low SWR, low cross talk. Teflon insulated 50-239 connectors. Receiver connector has built-in shorting device which actuates on transmit to prevent receiver RF overload. **\$19.80**

16A987. Type DK60-G. 115 V. 60 cy. AC. Net Ea.

As above with extra DPDT external contacts. **\$21.80**

16A996. Type DK60-G2C. 115 V. 60 cy. AC. Net Ea.

16A999. Type DK60-G2C. 12 V. DC. Net Ea. **\$20.80**



HIGH-POWERED C-D-R HAM-M ROTATOR



No Money
Down
Just \$6.00
Per Month
Buys
The
HAM-M

Handles Full Size
Amateur Antennas

\$117¹¹

- Heavy Duty Brake Built-In
- Mast, Tower or Platform Mounting

Clamps take up to 2" diameter masts. Lower clamp removable for flat bolt-on mounting. Housing dia. 8" maximum. Delivers approx. 360 inch pounds torque. Gear train is made of precision machined stainless steel. Rotates 365° at 1 RPM. Lower portion of unit contains the automatic solenoid operated brake capable of withstanding 3600 inch pounds torque.

Meter Type Direction Indicator is continuous indicating type. Gives accurate headings. Requires 8 wire cable (2 #18, 2 #22, Belden type 8448). Shpg. wt. 20 lbs.

No. 4A198. Model HAM-M. Net Each. **\$117.11**

MODEL TR44A ROTATOR

USES SAME ACCURATE INDICATOR AS THE HAM-M

Designed specifically for intermediate loads, CB antennas, large VHF arrays and small HF antennas—not quite as rugged as the HAM-M but will handle most antennas. Has magnetically released mechanical brake. Requires 7 wire #18 cable. Shpg. wt. 20 lbs. **\$58.75**

No. 4A177. Net Each.

Mobile Antennas & Accessories—Crystals

STANDING WAVE-RF INDICATING INSTRUMENTS



BENDIX-JONES AND AMECO RF BRIDGE-POWER METERS

- ① **Micromatch VSWR and RF Power Indicator.** Use with Fig. 2 coupler. No. 29A144. Reads forward or reflected power. 2 lbs. **Net Each... \$14.50**
- ② **Type 261 Micromatch Coupler.** For continuous use in 52 ohm line. No. 29A143. Rated up to 1 KW to 225 MC. 1 lb. **Each... \$22.50**
- ③ **Ameco SWR Bridge-Power Meter.** Read in SWR, percentage power and voltage. Panel switch for use with 1 or 2 Fig. 4 Couplers. No. 35B502. Model BIU. 2 3/4 x 5 x 3". 1 lb. **Net Each... \$15.95**
- ④ **Ameco SWR Bridge Coupler.** 52 ohms, continuous duty. No. 35B503. Up to 1 KW 1.8 MC to 225 MC. 1 lb. **Net Each... \$9.95**

EICO GRID DIP METERS

- ⑤ **Model 710.** Compact, versatile and rugged. Easy to hold and thumb-tune with one hand. Covers 400 KC to 250 MC in 7 overlapping ranges. Plug-in coils have protected "internal" windings. Exceptionally stable, pre-calibrated for accuracy. Has sensitivity control, 500 microamp meter, built-in absorption wave meter circuits and 110 V. AC transformer power supply. 2 1/4 x 2 3/8 x 6 7/8". Wt. 3 lbs. **\$29.95**
- No. 35A74. Kit with Tubes and Instructions. **Net Each... \$29.95**
- No. 35A73. Factory Wired and Tested. **Net Each... \$49.95**

RF COAX SWITCHES, DUMMY LOADS



WITH RADIAL OR AXIAL MOUNTED CONNECTORS

- ① **B & W COAX SWITCHES.** 1 KW, 52-75 ohms to 50 MC. For receiver/transmitter switching to antennas. Type 551A and 590 are for switching any device into coax line, or cutting in linear amplifier. Dia. 4 x 2 1/4", 1/4" x 1" shaft. Wt. 2 lbs. All have SO-239 coaxial connectors.

Stk. No.	Type	Description	Net Each
① 29A137	550A	S.P. 5 Position, Radial Connectors	\$10.35
① 29B19	550A2	S.P. 2 Position, Radial Connectors	7.90
① 29A139	551A	For switching into RF line, Radial Connectors	9.85
② 29B18	590	S.P. 5 Position, Axial Connectors	12.15
② 29B20	592	S.P. 2 Position, Axial Connectors	10.65
② 29B21	591	For switching into RF line, Axial Connectors	11.40

OHMMITE 52 OHM DUMMY RF LOAD

Essentially non-inductive resistors mounted inside a perforated metal cage. Standard SO-239 coax connector.

- No. 29B47. Type D-101-52 100 W. 3 1/2" D. x 2 1/2" L. **Net Each... \$12.00**
- No. 29B17. Type D-251-52 250 W. 3 1/2" D. x 4 1/2" L. **Net Each... \$16.00**

LOW PASS TRANSMITTER TVI FILTERS



All are rated 1 KW RF power, have very low insertion loss and provide excellent attenuation of transmitter harmonics falling in TV bands. All have SO-239 fittings, except Drake TV-100-LP. Factory adjusted for maximum attenuation except Bud LF-601 which permits individual peaking on any two channels.

- ① 29A135. Barker-Williamson Model 425. For 52 Ohm Coax. **Each... \$22.75**
- ② 29A116. Bud Model LF-601. Adjustable, 52 or 72 Ohm Coax. **Each... \$17.25**
- ③ 29A125. Johnson Model 250-20. For 52 Ohm Coax. **Each... \$14.95**
- ④ **NEW DRAKE 52 OHM FILTERS.** Cut off between 6 meters and channel 2. Designed with particular attention to 10 meter and 6 meter operation.
- No. 29B166. Model TV-1000-LP. 1000 Watts except 6 meters, 200 watts. **Each... \$16.95**
- No. 29B167. Model TV-100-LP. 100 Watts except 6 meters, 20 watts. **Each... \$5.95**

PETERSEN HIGH QUALITY CRYSTALS



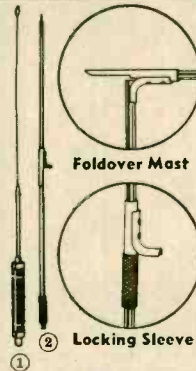
Supplied within the following bands, calibrated integral kilocycles only at oscillator load capacity of 32mmfd. Pin spacing standard .487". Pin diameters, Z-9C .093", Z-6A and Z-9A .050". Orders must be paid in full and are non-cancellable. Allow 2 weeks for factory processing.

Freq. Range	Type	Calibration	Net Each
1,750 to 2,000 KC	Z-9C Fundamental	± 250 Cycles	\$2.95
3,500 to 4,000 KC	Z-9C Fundamental	± 500 Cycles	2.95
7,000 to 7,425 KC	Z-9C Fundamental	± 500 Cycles	2.95
8,000 to 8,222 KC	Z-9C Fundamental	± 500 Cycles	2.95
8,334 to 9,000 KC	Z-9C Fundamental	± 500 Cycles	2.95
24,000 to 24,666 KC	Z-9A 3rd Overtone	± 3 KC	3.95
25,000 to 27,000 KC	Z-9A 3rd Overtone	± 3 KC	3.95
28,000 to 29,700 KC	Z-9A 3rd Overtone	± 3 KC	3.95
50,000 to 54,000 KC	Z-9A 5th Overtone	± 15 KC	4.95

Stk. No.	Mfg. Type	Description	Net Ea.
⑤ 12B299	Millen 33302	.05" D. Pins, 1/2" Spacing, Ceramic	24c
⑤ 17A730	Millen 33102	.095" D. Pins, .487" Space, Ceramic	36c
⑤ 17B1007	Cinch 2KM	.095" D. Pins, .487" Space, Bakelite	25c

NEW-TRONICS HUSTLER ANTENNAS

Power Rating To Handle All Popular Amateur Transceivers
• 52 Ohm Feed • Any Length Line



Foldover Mast

Locking Sleeve

Change bands by merely interchanging the resonators. Each resonator has a coil specially designed for maximum radiating efficiency for a particular band, tuned to precise resonance by its own adjustable stainless steel top rod, which after adjustment remains set. Mast is 1/2" diameter heat treated aluminum with a precision machined shake-proof hinge to allow forward fold-over to horizontal with clutch-sleeve arrangement to hold mast rigidly erect. Changing resonators or garaging is fast and easy, requires no tools. Masts have 3/8-24 threaded base to fit all standard mounting hardware.

STANDARD HUSTLER RESONATORS FOR USE WITH FOLD-OVER MAST

Stk. No.	Type	Band	Coil Size	Total Lgth.	Each
9A117	RM-10	10 M.	3/8 x 3 3/4"	21-26"	\$5.95
9A42	RM-11	11 M.	3/8 x 4 3/8"	21-26"	5.95
9A116	RM-15	15 M.	3/8 x 4 3/8"	22-27"	6.95
9A107	RM-20	20 M.	3/8 x 6 3/8"	24-29"	7.95
9A106	RM-40	40 M.	1 x 6 1/4"	33-38"	9.95
9A105	RM-75	75 M.	1 3/8 x 8 1/4"	37-43"	11.95

SUPER HUSTLER RESONATORS

New high power type. Will handle legal power limit on SSB. Bandwidth, base impedance (52 ohms) SWR and frequency drift are optimum for best mobile performance obtainable from any antenna system. With adjustable top whip section. For use with fold over mast below.

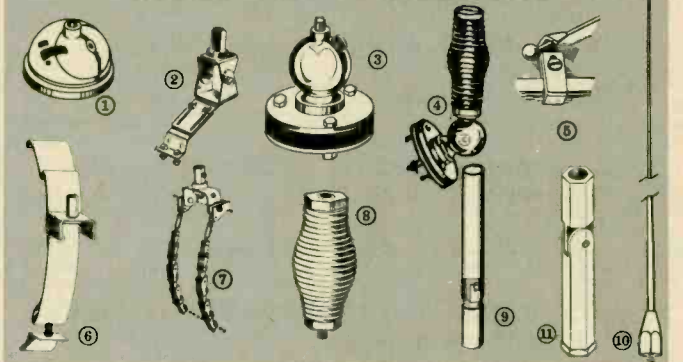
Stk. No.	Type	Band	Total Length	Net Each
9A235	RM10S	10 M.	21-26"	\$11.95
9A236	RM15S	15 M.	22-27"	13.95
9A221	RM20S	20 M.	29-24"	15.95
9A222	RM40S	40 M.	38-33"	19.95
9A223	RM75S	75 M.	43-37"	24.95

FOLD OVER MASTS ONLY

For use with resonators above. Use MO-1 for rear deck or fender mounting, MO-2 for bumper mount. Wt. 4 lbs.

- No. 9A103. MO-1, length 54", folds 15" from base. **Net Each... \$7.95**
- No. 9A104. MO-2, Length 54", folds 27" from base. **Net Each... \$7.95**

MOBILE ANTENNA ACCESSORIES



BODY MOUNTS 3/8"-24

- ① 9A29. Chrome swivel body mount. HyGain BDFY. **Net Ea... \$4.77**
- ② 9A38. Jiffy Mount. Fits under deck lid. Hy Gain JMS. **Net Each... \$4.04**
- ③ 9A44. Deluxe Chrome Ball. Coax. Conn. Tenna MB9. **Each... \$6.43**
- ④ 9A237. Deluxe Swivel Body Mount. Chrome Plated. Coax adaptor. Ant. Spec. M13. **Net Each... \$6.50**
- ⑤ 9A238. Aluminum Swivel Body Mount. Ant. Spec. M3. **Net Each... \$3.25**
- ⑥ 9A39. Standard Ball Mount with spring. Tenna MB2. **Net Each... \$4.25**
- ⑦ 9A35. Gutter Clip for whip hold down. Hy Gain GC. **Net Each... \$0.75**
- ⑧ 9A64. Stainless Steel Strap Bumper Mount. Hy Gain BPR. **Net Ea... \$6.57**
- ⑨ 9A161. Double Chain Bumper Mount. Ant. Spec. ASP-143. **Net Ea... \$8.60**
- ⑩ 9A239. Cadmium Plated Spring. Will support 102" whip. Ant. Spec. M3A. **Net Each... \$2.25**
- ⑪ 9A240. Chrome plated spring. Deluxe version of above. Ant. Spec. M3AD. **Net Each... \$3.50**
- ⑫ 9A46. Deluxe Chrome Spring. Hy Gain SPG. **Net Each... \$4.77**
- ⑬ 9A26. Heavy Duty Chrome Spg. Hy Gain SPGH. **Net Each... \$7.95**
- ⑭ 9A27. Miniature Stainless Steel Spg. Hy Gain SPGM. **Net Each... \$2.80**
- ⑮ 9A40. Quick Whip Disconnecter. Hy Gain QD. **Net Each... \$2.89**

Amateur and Commercial Whips, 3/8"-24 Mounting

- Highest quality stainless taper ground, cuttable to freq.:
- ⑯ 9A101. 60" Steel. 48 MC or higher. **Each... \$3.27**
 - ⑰ 9A47. 72" Steel. 40 MC or higher. **Each... \$3.63**
 - ⑱ 9A48. 96" Steel. 29 MC or higher. **Each... \$3.93**
 - ⑲ 9A49. 102" Stainless Steel. 27 MC or higher. **Each... \$4.75**

HYGAIN FOLD-OVER ADAPTOR

Designed for use with all models of HyGain "Toppers" (replaces spring). Protects antenna by folding over if struck by low hanging objects. Ideal for garaging.

- No. 9A138. Model FOA. **Net Each... \$3.95**

Telegraph Keys, Code Records, Practice Sets

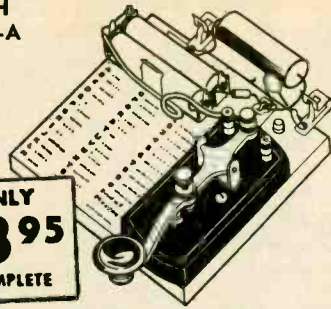
LEARN MORSE CODE WITH THIS SENSATIONAL NEW B-A TRANSISTOR

CODE PRACTICE OSCILLATOR KIT

NEW LOW PRICE

A truly up-to-date kit ideally suited for radio amateur beginner, boys groups, etc.—anyone desiring to learn sending and receiving of the Morse Code through actual practice.

ONLY **\$3.95** COMPLETE



Because of the special transistor circuitry, this kit will provide a strong, clear, audible tone, equivalent to that received from vacuum tube code oscillators costing a great deal more. Requires fewer parts, far less power (uses 2 penlight cells) and is considerably smaller in size. Kit comes complete with high quality imported sending key, PNP type transistor, mounting board, and all necessary parts. Uses any high impedance headphones such as listed on next page. Easy to build, only 5 solder points, no previous electronic experience necessary. Includes simple pictorial diagram that shows complete wiring and parts placement. Wt. 1 1/4 lbs.
 No. 29A250. B-A Special Kit **\$3.95** 10 Lots, **\$3.75**
 (Less Headphones). Each

CODE PRACTICE FOR THE NOVICE



① HIGH FREQUENCY BUZZER

Molded black bakelite base and cap. Fully adjustable, holds constant frequency. Uses 2 dry cells or "C" battery. Johnson Type 114-400. **\$1.85**
 No. 17A7. NET EACH

② TRANSISTORIZED CODE PRACTICE OSCILLATOR

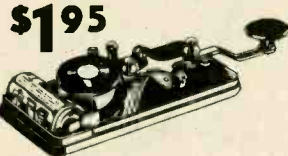
Perfect for the learning beginner or professional who wants to keep in practice. Has variable pitch control, built-in speaker, standard 1/4" phone jack for headphones. Also has light for visual aid in learning to send code characters perfectly. Light or tone or both may be selected. Requires two "C" cell batteries. 3 1/2 x 2 5/8 x 6 1/8" H. Wt. 1 lb.
 No. 22A39. Imported, Highest Quality. Special Each. **\$9.25**

③ DELUXE CODE PRACTICE AND KEYING MONITOR

Incorporates modern dual purpose transistor circuit for generating a perfect tone for learning the code and for local monitoring of your transmitter keying while actually on the air with your own station. Has variable pitch control, built-in speaker, standard 1/4" jack for headphones or external speaker. RF pickup circuit causes tone oscillator to follow transmitter keying. Has terminals for key. 4 1/2 x 3 3/8 x 3 3/8" H. With two penlight batteries. Wt. 1 1/4 lbs.
 No. 29C230. Net Each **\$14.50**

CODE PRACTICE SET

High frequency buzzer produces clear tone. Also operates one or more headphones. Two sets wired together will transmit code messages 100 ft. Uses standard "D" cell battery. Less battery. Wt. 1 lb.
 No. 22A61. **\$1.95** 2 For **\$3.59**
 Net Each. Battery for above. **14c**



SAMS INTERNATIONAL CODE TRAINING SYSTEM

Specially programmed charts and 33 1/3 RPM recordings teach receiving and sending speeds up to 22 WPM. Enables transcribing code messages at 2-3 WPM in just a few minutes, without memorizing code characters. Programmed method promotes learning speed and accuracy unmatched by other systems. 96 pages 7x7", plus 3 LP records.
 No. 16B620. Net. **\$6.95**



NEW 33 1/3 RPM CODE LESSON RECORDS

LEARN CODE THIS QUICK, EASY WAY

Novice Code Course. 12-inch record, recorded on both sides. Progresses in ten lessons from 1 to 15 words per minute. With 20 page instruction booklet. International Morse Code printed on record jacket. **\$4.80**
 No. 33A167. Each

Advanced Code Course. 12-inch record, both sides. Twelve lessons at 16 to 25 words per minute. With 20 page Advanced Code Instruction Booklet. **\$4.80**
 No. 33B139. Each

Save on Complete Novice and Advanced Code Course. **\$9.00**
 No. 33B140.

Both 12-Inch Records as above. For

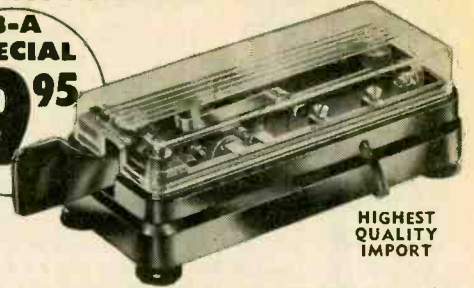


FINE SEMI-AUTOMATIC CODE KEY

COMPARE AT \$17.95

B-A SPECIAL **\$9.95**

FOR PERFECT SENDING AT ANY SPEED . . . 10 TO 35 WORDS PER MINUTE



HIGHEST QUALITY IMPORT

Beautifully machined. All parts nickel plated brass, with knurled adjustments to exactly suit individual "feel". Makes "dots" automatically, "dashes" manually, operating like expensive bug keys at any speed. Has molded bakelite base, size 3x7x2 1/2", weighted to hold position in operation, plus removable clear plastic cover to protect from dust, damage or accidental contact with live circuits. Detachable cord has plug-in wedge style connector like used on other professional keys. One of the nicest import products we have seen. Shpg. wt. 4 lbs.
 No. 29A444. Special Each **\$9.95**

POPULAR AUTOMATIC KEYS

① GENUINE VIBROPLEX

For all types of communications work where speed and perfect Morse are essential. Single lever. Two pairs of contact points; one for dots, the other for dashes. Easy to adjust. Wt. 3 1/2 lbs.

PRESENTATION SUPER-DELUXE—24K gold-plated base top, polished chrome parts, red knob, jewel movement and adjustable main spring. **\$39.95**
 No. 33A171. EACH

ORIGINAL DELUXE FINISH—Polished chromium top parts and base, with jeweled movement. **\$29.95**
 No. 33A172. EACH

ORIGINAL STANDARD FINISH—Polished chromium top parts, gray base. **\$24.95**
 No. 33A173. EACH

② VIBROPLEX "CHAMPION"

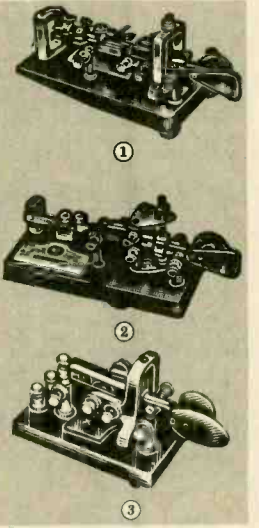
A low price key for the amateur or professional radio operator. Has exceptional sending qualities—clarity, speed, sending ease. Gray crystal finish, metal base with bright finished parts. Wt. 3 lbs., 8 oz.
 No. 33A174. EACH. **\$19.95**

③ VIBROPLEX Vibro-Keyer

Keying mechanism for electronic keyers. Made on frame like other Vibroplex keys. Switching action SPDT. 3 1/2 x 4 1/2". Wt. 3 lbs.
 No. 33A148. Net Each. **\$18.95**

CARRYING CASE

For Vibroplex and other speed keys. Plush lined case, in black morocco. Reinforced covers. Flexible leather handle. Lock and key. Inside dimensions 6 3/4" L., 3 3/4" W., 4 1/4" high.
 No. 33A175. EACH **\$6.75**



DELUXE BRASS FAST-ACTION SPEED KEY

We thought we had seen 'em all . . . but this one is different, even better than the famous J-38. Quadruple ball bearing pivots give key fast action . . . ideal for novice, perfect for high speed operator. Base is bright polished solid brass, silver contacts. Fully adjustable for the right "feel". Nickel plated, knurled hardware, shorting lever switch and standard black knob. Believe us, this import is an unusual value and would ordinarily cost several times more. Shpg. wt. 1 1/2 lbs.
 No. 17B601. **\$2.95**
 Special Each



RIDER "SOUND-N-SIGHT" CODE COURSE

Combines sound and sight plus an imaginary instructor to speed code learning. Makes use of a psychological principle proven successful by the armed forces in teaching the Morse Code. There is no slow down, you go right on up at an even pace, gaining as much as one word per minute per day. The courses are in two parts—novice and advanced. Or save by buying both courses in one package.
Novice Course (0 to 8 words per minute). Three 10" 33 1/3 LP records (96 minutes of recording, 28 recordings), 47 identification cards and book, train you to receive, transmit up to 8 words per minute. Wt. 3 lbs.
 No. 33A150. 0479. Net Each. **\$9.50**

Advanced Course for amateur general, extra class or commercial license (9 to 20 words per minute). Three 10" 33 1/3 RPM LP records (96 minutes of recording, 18 recordings) and the book trains you to receive up to 20 words per minute. Shpg. wt. 3 lbs.
 No. 33A151. 0484. Net Each. **\$8.95**

Complete Course—Consists of both of above courses. **\$15.95**
 No. 33A152. 0480. Shpg. wt. 5 lbs. Net.



Headphones and Listening Aids

ALNICO V HEADSET

FOR RADIO AMATEURS,
SHORT WAVE LISTENING
CRYSTAL SETS, ETC.
CANNON BALL No. 15

Popular small size, light weight, extra sensitive. Powered by Alnico No. V magnets to assure high fidelity response and excellent volume. Sturdily constructed of durable black plastic. Diameter of diaphragm is 1 7/8". Adjustable spring steel headband. Complete with 4 1/2 ft. cord. 2000 ohms. Double Headset.

- ① With Pin Tips. No. 22B173. Each **\$2.38**
- ① With 1/4" Phone Plug. No. 22B153. Each **\$2.58**
- ② Single Headset, 1000 ohms. With 4 1/2 ft. cord and pin tips. No. 22B154. Net Each **\$1.29**



\$2.38

Double Headset

② Single Headset, 1000 ohms. With 4 1/2 ft. cord and pin tips. No. 22B154. Net Each

① TRIMM ACME DELUXE HEADSET

Superior low cost headset for use with crystal sets code training, all radio communications. Double tubular headband, 4 1/2 ft. cord. Bakelite shell and cap. 4000 ohms. No. 22A363. Net Each **\$2.61**

① SUPEREX STEREO PHONES

Ideal for stereo private listening, language labs, and many other uses. Double headphone type with separate leads to each earphone. Has vinyl covered spring steel headband, spring tension adjustment, nickel plated parts. Phone units feature Alnico V magnets, dual coils, surface ground pole pieces, and shockproof, unbreakable case. Leads are stripped and tinned, less phone plug. Mfg. list \$4.25. Shpg. wt. 2 lbs. No. 22A179. Model ST-48. 4-8 Ohm Impedance. Net Each **\$2.54**
No. 22A180. Model ST-2000. 2000 Ohm Impedance. Net Each **\$2.54**



TRIMM PROFESSIONAL HIGHEST QUALITY HEADPHONES

① Featherweight. World famous, only 4 1/2 oz. Highly sensitive. Cobalt steel alloy magnets, impregnated coils. 24,000 ohms. No. 22B140. Net Each **\$6.60**

② Trimm "L" Type Headsets. Highest quality magnetic units with molded shells, vinyl covered adjustable headband and over-the-head neoprene cord. Prolonged exposure to heat and humidity do not affect performance. Response 50 to 9000 cps. Highly recommended for educational training, broadcast work and communications. With attached 1/4" standard plug. Stk. No. Each Stk. No. Each
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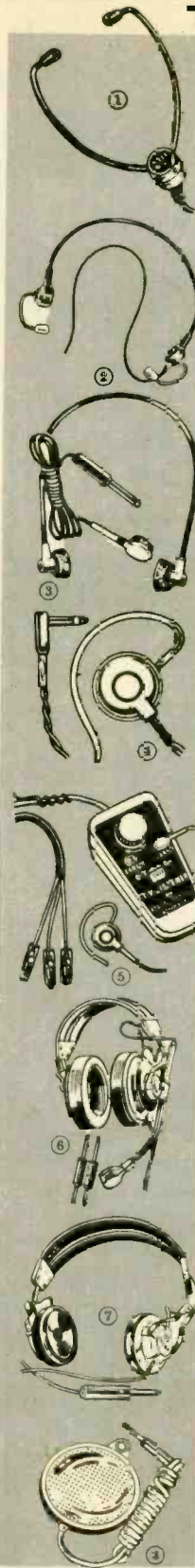
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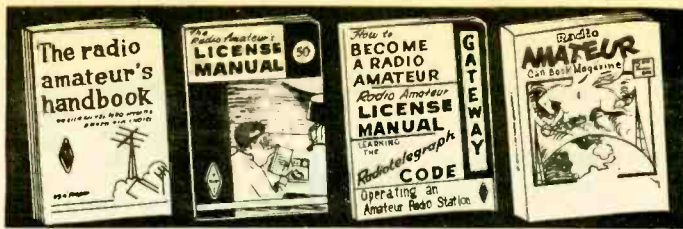
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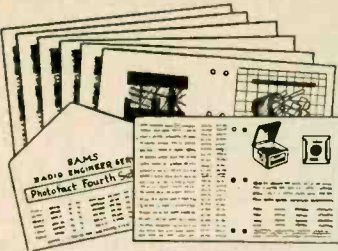
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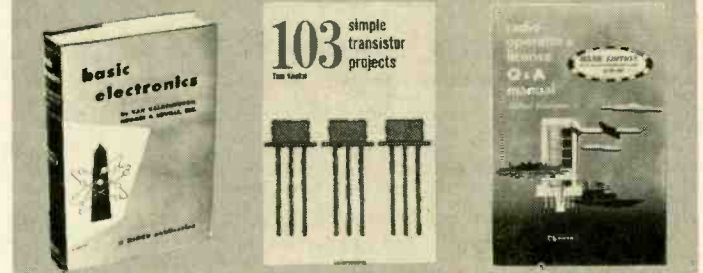
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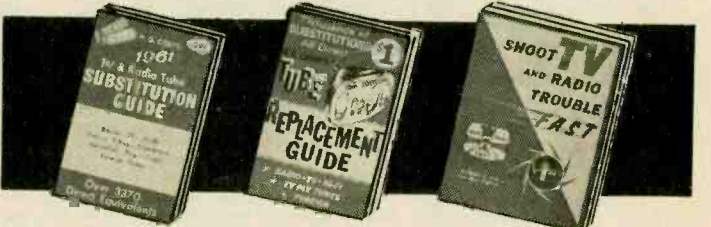
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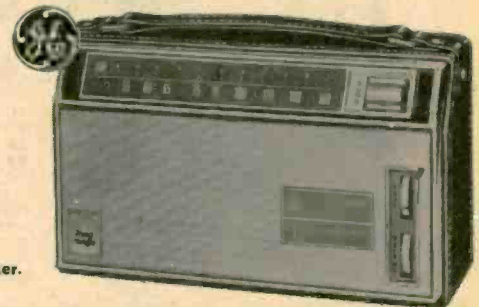


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REALTONE 6 TRANSISTOR

PORTABLE RADIO \$6⁹⁵

Ultra reliable, functionally styled and powerful. Has most all the features you will ever need for pleasant personal listening—super-heterodyne circuit, automatic volume control, large 2 1/4" speaker, private earphone. High impact case, 4 1/2 x 2 1/2 x 1 1/2". With 9 V. battery, carrying case, earphone. Wt. 1 lb.
No. 60A424. Import Special, Each **\$6.95**

PANASONIC 7 TRANSISTOR

PORTABLE RADIO \$9⁸⁸

Handsome styled and very sturdy. The ideal personal radio to carry with you everywhere. Finest power-packed superheterodyne circuit, 7 transistors, 1 diode provides fade-free, brilliant reproduction from the speaker or private earphone. Black with silver trim. 2 1/8 x 4 3/8 x 1 1/8". With 9 V. battery, carrying case, earphone. Shpg. wt. 1 lb.
No. 60A423. Import Special, Ea..... **\$9.88**

REALTONE 12 TRANSISTOR

PORTABLE RADIO \$14⁹⁵

Beauty and Brawn! Extra powerful, advanced solid state superheterodyne circuit provides the ultimate in performance. Has instrument type vernier slide rule tuning for easy pinpoint selectivity. Heavy duty 2 1/4" speaker and high power audio reproduce voice and music with fine tonal balance. Luxurious bronze finish face panel, oyster white high impact case. 4 1/4 x 2 3/4 x 4 1/4". With 9 V. battery, carrying case, earphone. Shpg. wt. 1 lb.
No. 60A425. Import Special, Each **\$14.95**

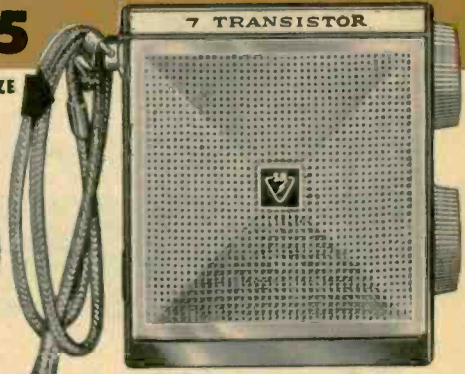
STANDARD MICRONIC RUBY WORLD'S TINIEST FINE QUALITY PORTABLE RADIOS

\$14.95

ILLUSTRATED ACTUAL SIZE



WAS \$29.95
NOW ONLY . . . \$19.95



Absolutely amazing . . . full performance superheterodyne radios so small that they can even be worn like a wrist watch or pendant, yet outperform radios several times their size. Superb tonal quality. Highly sensitive. Powered by 2 Mercury batteries that last for months of normal use. In luxurious jewel-type gift cases with earset and batteries.
Seven transistor. High Impact plastic case in ruby with gold-mesh front panel and snake chain. Size only 1 5/8 x 1 7/8 x 1 1/8".
No. 60B41. Model SRG-430. Was \$24.95. Import Special, Each **\$14.95**
Eight transistors for bigger tone and volume. Black with chrome trim. Only 1 5/8 x 2 1/8 x 7/8". Wt. 4 1/2 ozs.
No. 60B298. Model SRH-436. Was \$29.95. Import Special, Each **\$19.95**



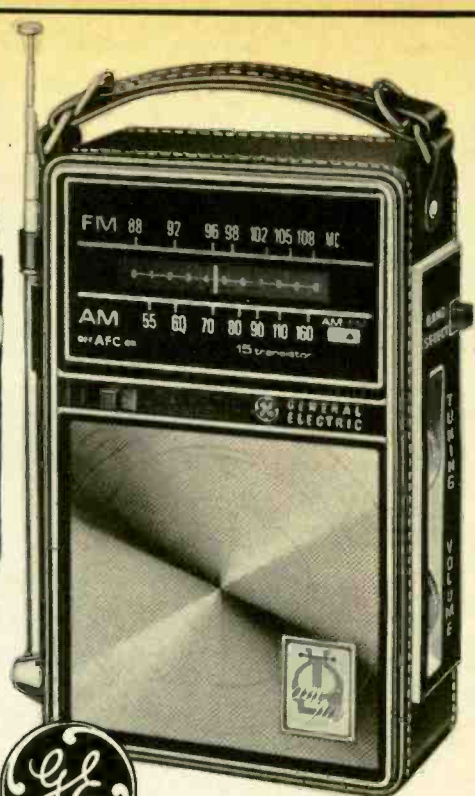
PANASONIC FM/AM PORTABLE

OPERATES ON BATTERIES OR HOUSE CURRENT

\$49⁹⁵

- Our finest sounding FM/AM portable with 4" PM Dynamic Speaker and full range tone control.
- Vernier slide-rule tuning with push-button dial light.
- Precision circuitry utilizing 17 solid-state devices for unexcelled selectivity and sensitivity.

Tremendous performer achieving brilliant life-like tone. 11-transistors, 6 diode chassis provides clearest reception . . . even from distant stations. Automatic frequency control keeps FM stations locked-in—no drifting. Telescopic whip antenna for FM, ferrite rod AM antenna. Earphone or external speaker jack. Handsomely styled in black leatherette case with silver trim measuring 9 1/8" x 5 1/8" x 2 1/8". Operates on 4 "AA" penlite batteries or 110-120 V. AC. Shpg. wt. 5 lbs. Fine Import. **No. 60A431. Each. \$49.95**



RICHLY STYLED

AM/FM PORTABLE RADIO

IN LEATHER-LOOK CASE \$39⁵⁰

- Extra power and performance with 15 transistors, 6 diodes.
- RF amplifier on FM provides added sensitivity for hard-to-get stations.
- Full range 3 1/2" dynamic speaker plus push-pull audio for peak acoustical power, finest tonal quality.
- Rugged tan vinyl case has quality look of leather, with carrying and shoulder straps.

America's favorite portable in handsome vertical styling. Carries like a camera in the hand, or over the shoulder. Super-powered circuitry features automatic frequency control to eliminate drifting, battery saver that gets up to 30% more playing time from a set of batteries, 28" telescoping whip antenna (with 90° swivel) for FM, built-in ferrite rod for AM. Slide-rule dial with logging scale and vernier tuning for pin-point station selection. Size 5" W., 7 5/8" H., 2 1/4" D. With 4 "AA" penceil batteries. Shpg. wt. 3 3/4 lbs. **No. 60A399. Each. \$39.50**
No. 60A390. Private Earset. Each. \$1.49
No. 60B391. Power Converter for 110 V. AC. Ea. \$5.95

PANASONIC CAMERA STYLE FM/AM POCKET RADIO

\$29⁹⁵



realtone POCKET SIZE FM/AM PORTABLE RADIO

\$16⁹⁵

Only 4 1/2 x 3 x 1 1/2" yet packs big power with 10 transistors, 3 diodes, 1 thermistor circuit. Tuned IF stage for razor sharp selectivity, AFC for drift-free reception. Precise vernier slide rule tuning. Omnidirectional 20" telescoping antenna. 2 1/2" speaker for fine tone.

Handsome high impact plastic case in ebony with chrome. Gift boxed with earphone and 9V. battery. Shpg. wt. 2 1/2 lbs. Import.

No. 61A129. Each. \$16.95

This power-packed beauty provides sparkling performance . . . and a unique new look that's truly eye-catching! Real station getting ability from superheterodyne circuit with 9-transistors plus 6 diodes. 2 1/2" PM dynamic speaker with tone control and push-pull audio output for fine tone quality. Telescoping swivel whip antenna disappears into leather like case. Size only 3 1/4 x 5 x 1 1/2". With battery and earset. Import. Shpg. wt. 2 lbs. **No. 60A430. Choice of Black, Tan or Red. Each. \$29.95**

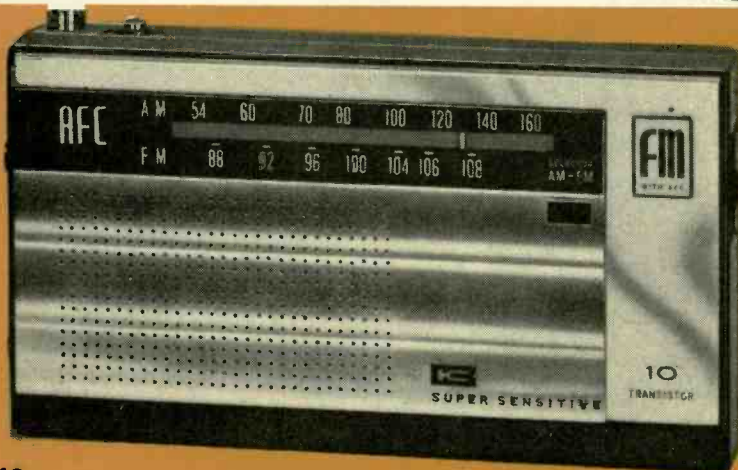
STANDARD'S Micronic Ruby FM/AM POCKET SIZE RADIO

\$34⁹⁵

WORLD'S SMALLEST FM-AM RADIO

- No bigger than a pack of cigarettes. 3 1/16 x 2 3/8 x 1 1/3".
- Vernier tuning for easy pin-point station selection.
- Automatic frequency control eliminates drift . . . keeps FM stations locked in.

Incredible! Now, complete radio entertainment in a portable so small it tucks away into vest pocket. Micro-miniature circuitry with 11-transistors, 6 diodes provides performance equal to finest standard size portables. Specially matched 1 3/4" speaker sounds twice as big as it is for amazing tone. In luxurious gift case with 3 long-life RM640 Mercury batteries and earset. Shpg. wt. 3/4 lb. **No. 61A21. Each. \$34.95**



B-A'S BEST SELLING RADIO!

DELUXE CAMERA-SIZE FM-AM PORTABLE RADIO

\$19⁹⁵

MUCH GREATER SENSITIVITY, FAR BETTER TONE QUALITY THAN EVEN THE BEST POCKET PORTABLES

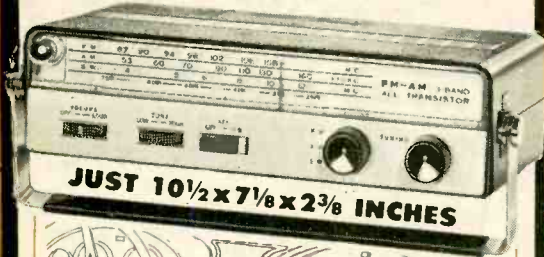
Out-features, out-performs many sets priced at considerably more than B-A's surprising low, low price. Perfect size for carrying, for coat pocket or purse. Amazing tone quality with wide-range dynamic speaker and extra-power amplifier. Super-sensitive ten transistor circuit gets long-range reception with telescoping FM whip antenna, extra-long AM ferrite core antenna. AFC with switch eliminates drift. Vernier slide-rule tuning. Powered by just 4 inexpensive penceil batteries. With batteries and case. **No. 60C97. Special Import Value. \$19.95**

THE MAGNIFICENT



PANASONIC

**3-BAND PORTABLE-AUTO-BOAT
10-TRANSISTOR FM-AM-SW RADIO**



JUST 10½ x 7½ x 2¾ INCHES



THEFT-PROOF AUTO MOUNTING

NOTHING DOWN

\$54⁹⁵
LESS AUTO MOUNT

- Use upright or tilt down on handle.
- Carry about—weighs less than 5 lbs.
- Custom mount in car or boat.
- AFC locks-in FM stations.
- Operates for 100's of hours with 4 "C" size flashlight cells . . . no drain on your car battery.

Tunes FM-AM standard broadcasts, plus 3.9-12 MC shortwave. Superb design and construction by the famous Panasonic. Provides magnificent tone from a big 5-inch speaker and powerful high-fidelity solid state audio system. Big set sound easily overcomes auto noises, gives you delightful listening as you drive . . . then you simply slide it out and take it with you on beach, boat or picnic.

Features variable tone control, AFC for perfect drift-free FM, slide-rule vernier tuning, push button dial light, telescoping antenna. Has jacks for earphone, external amplifier, multiplex output, phono input, external antenna.

Beautiful black plastic case is trimmed with silver panel and accents. Size 10½ x 7½ x 2¾". With earphone and batteries. Shpg. wt. 6 lbs.

- No. 32B155. High Quality Import. **\$54.95**
- No. 32B156. Auto Mounting Bracket and Lock. **\$10.95**
- No. 32B157. Battery Kit. (4-ER935 Flashlight Cells) **56c**



PANASONIC

AUTOMATIC TUNING PORTABLE-CAR RADIO

**3-BANDS
FM/AM/MARINE**

\$79⁹⁵

- Lay Down. ● Stand Up. ● Carry-about.
- Use accessory mount for auto or boat.

Features world's first electronically controlled Touch N'Tune 3-band dialing system. Now you can have the wonderful convenience of automatic tuning everywhere —by simply touching the selector. Tuning locks in on next station without tedious adjustment.

Powerful solid state chassis has 18 transistors plus 12 diodes. Wide range audio system and big 5-inch speaker produces 2 watts output for portable use, 2.3 watts for auto use. Has AFC for drift-free FM, telescopic swivel antenna, continuous tone control, jacks for earphone. In deluxe black molded case with silver trim. Size 10½ x 7¼ x 3¾". With earphone and 4 "D" size long-life batteries. Wt. 6 lbs.

- No. 32B176. High Quality Import. Net Ea. **\$79.95**
- No. 32B177. Auto Mounting Bracket & Lock. **\$14.95**

**THE WORLD
FAMOUS**



GLOBETRAVELER RADIOS

**FM-AM-MARINE-LONG WAVE -PLUS 11 BANDSPREAD
SHORTWAVE
BANDS**

**MOUNTS IN
AUTO OR BOAT
Slides in and
out easily**

\$169⁹⁵



**15 BAND
PORTABLE**

Incomparable, precision product of West Germany! Listen to the entire world on shortwave 11, 13, 16, 19, 25, 31, 41, 49, 59, 61 and 80 meters, plus 1.5-3.5 MC marine band and 150-400 KC long wave band for aircraft. It's a hi-fi system all its own with standard AM and FM radio, input jacks for phono and tape recorder, 3 separate slide-rule dials, 3 built-in antennas, tuning indicator, push-button dial light, drift-free FM. Has jacks for all these: earphone, extension speaker, AC adaptor, external antenna. 14 transistors, 12 diodes, full range 6x9" speaker, up to 4 watts undistorted audio output when on external power, 2 watts on batteries. Scuff-proof vinyl clad wood cabinet. 12½ x 8½ x 4".

- No. 36B350. Shpg. wt. 12 lbs. Net Each. **\$169.95**
- No. 36B351. Universal Mounting Bracket for auto or boat (6-12 V.). Radio slips in or out. Has lock. Net Each. **\$21.95**
- No. 36B352. 110 V. AC Adaptor for home use. Each. **\$16.88**
- No. 36B354. 5 "D" Cell Batteries for portable use. **70c**



**IT'S EASY TO
CARRY!**



**NOTHING
DOWN**

- FM-AM-Longwave. ● Shortwave—6 Bands. ● For Portable, Home, Car or Boat Use.

Same high performance and quality—most of the features of radio above. Tunes the shortwave bands 16, 19, 25, 31, 41, and 49 meters, aircraft 150-400 KC as well as the standard AM and FM broadcasts. Has visual battery tester, tuning meter, built-in AM ferrite rod antenna, telescoping FM/Shortwave antenna, jacks for external antenna, earphones and phono. 11-transistors, 11 diodes, full range 5x7" speaker, up to 4 watts output on external power, 2 watts on



**GLOBETRAVELER JR.
FM/AM LONG WAVE
9 BAND PORTABLE**

\$109⁹⁵

batteries. Cabinet is wood, covered in scuff-proof vinyl. 11½ x 8 x 3¾". Shpg. wt. 7 lbs.

- No. 32B170. Net Each. **\$109.95**
- No. 32B171. Universal Mounting Bracket for auto or boat (6-12 V.). Radio slips in or out. Has lock. Net Each. **\$21.95**
- No. 36B352. 110 V. AC Adaptor. **\$16.88**
- No. 36B354. 5 "D" Cell Batteries. **70c**

**realtone 15-TRANSISTOR DELUXE
FOUR BAND PORTABLE \$49⁹⁵**

- High-fidelity sound. ● Variable tone control.
- AM/FM 1.7-12 MC SW. ● Adaptor for 115 V. AC.
- Fine tuning all bands.

Superlative listening pleasure, luxurious good looks . . . compares with units selling for \$30.00 and \$40.00 more! Just think! You can listen to far-away foreign stations . . . as well as Police calls, Hams, boats at sea, etc. on the two SW bands . . . or relax to fine FM-AM music.

Tunes 88-108 MC FM, 540-1600 KC AM, 1.7-5 MC Marine SW and 5-12 MC SW. Variable tone control lets you emphasize bass or treble tones from the husky 5" oval speaker. Has vernier tuning, 7" slide-rule dial, push button dial light. AFC for drift free FM, telescoping FM-SW antenna, 7" ferrite AM antenna.

Polished black molded case with wood-grain panel, chrome hardware and die-cast mesh speaker grille. Size 10 x 6½ x 3". With earphone and 2 sets of 4 "C" cell batteries. Wt. 7 lbs

- No. 61A23. **\$49.95**
- No. 61A25. 115 V. AC Adaptor for home current. Each. **\$4.50**





**DELUXE SOLID-STATE
AM CLOCK TABLE RADIO \$29.95**

- Handsome, high styled walnut veneer cabinet.
- Full feature Telechron Clock with snooze button and lighted dial.

Offers the superior performance of solid state electronics—cool operation, long life, instant sound—plus a full feature clock and all wood cabinet . . . at a really low budget price! Precision tuning slide-rule dial combines with

modern space-age circuitry (8 semi-conductors) for real station getting power. Large 5x3" dynamic speaker delivers sparkling room-filling sound. Variable tone control adjusts lows and highs for personal listening taste. Brushed gold control panel and rich grille cloth. Cabinet measures 11 1/4 x 6 1/4 x 4 3/4". 117 V. AC only. Top quality import. Shpg. wt. 14 lbs. **\$29.95**
No. 36B297. Each.....

Arvin®

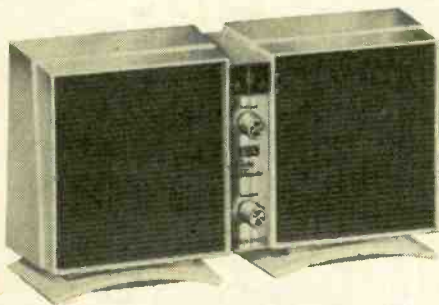
**SOLID-STATE AM \$22.95
CLOCK RADIO**



- Distinctive new compact, upright cabinet design.
- Full feature clock has slumber switch, repeat-a-call alarm.

Exciting new slim, upright styling, advanced solid-state instant play radio with the added luxury of a full feature clock. Radio is no larger than many clocks alone!

Play it anywhere . . . on the table, desk, cabinet, bed headboard, bookcase, etc. . . it's never in the way. 8 semiconductor solid state circuitry and Velvet Voice speaker deliver full, rich bodied sound. Slide-rule dial, built-in long distance antenna. Walnut wood-grain plastic case, size 4 1/2" W. x 7 3/4" H. x 3 3/4" D. 115 V. AC only. Shpg. wt. 3 lbs. **No. 36B288. \$22.95**
Each.....



**ARVIN SOLID-STATE
AM RADIO \$14.95**

- Smart, two pedestal styling.
- Built-in antenna pulls in many hard-to-get stations.

Amazing quality at surprisingly low cost! Tops in performance and styling too . . . a welcome companion for any room in the house. Powerful solid state chassis features 4 transistors plus 2 diodes and rectifier for instant play, cool operation and long life. 4" velvet voice speaker delivers exceptionally clear, bright sound. High-impact plastic cabinet size 10 3/8 x 5 1/2 H. x 3 3/8" D. 115 V. 60 cy. AC only.

Specify color: White or Beige. **\$14.95**
No. 36A287. Shpg. wt. 3 1/2 lbs. Each....



**DELUXE SOLID-STATE
TWIN SPEAKER
AM RADIO \$19.95**

- Richly styled, walnut veneer wood cabinet.
- Separate, continuous tone control.

Superb selectivity and sensitivity from modern up-to-the-minute solid state circuitry. Twin 5x3" speakers in wood cabinet delivers sound that approaches console quality. Precision tuning slide-rule dial, powerful 8 semiconductor chassis. All wood cabinet measures 11 1/4 x 6 1/4 x 4 3/4". Brushed gold control panel. 117 V. AC only. Shpg. wt. 12 lbs. Fine quality import. **\$19.95**
No. 36B298. Each.....



**GENERAL ELECTRIC AM
CLOCK RADIO \$14.95**

- Lulls you to sleep, wakes you to music, allows extra 40 winks.

Remarkable value! Bright, versatile styling—wide range sound performance—full featured clock/alarm system in this handsome budget tailored entertainment leader.

Printed circuit chassis with 4 tubes plus rectifier, 4" dynamic speaker, drift compensation and automatic volume control for steady reception. White polystyrene cabinet, size 5 3/8" H. x 11" W. x 4 3/4" D. 115 V. AC only. **\$14.95**
No. 36B300. Shpg. wt. 4 1/2 lbs. Each.....

A NEW CONCEPT IN HOME ENTERTAINMENT

CONCORD RADIOCORDER

\$69.50

**A RADIO, A RECORDER
... TAKE IT ANYWHERE**



- Operates on 115 V. AC or on self-contained batteries.
 - 2 speeds, 1 7/8, 3 3/4 ips. Capstan drive.
 - Push button controlled tape recorder.
 - Remote Control Dynamic Microphone
- It's convenient, easy and economical to create your own high fidelity music library on tape. Built-in radio enables you to record your favorite programs, while you listen, at the push of a switch—or you can record "live" with the re-

mote control mike. Makes recordings that sound like the original—up to 2 hours on a 3 1/4" reel of long playing tape. Simple push-button controls for record, rewind, stop, play, and fast forward. Acoustically matched built-in speaker with output jack for use of extension speaker. Built-in ferrite radio antenna. Size 9 1/2" H. x 4 3/8" D. x 10 1/8" W. With empty reel, mike and mike stand. Quality import. **\$69.50**
31A261. Shpg. Wt. 8 lbs. Each.....

**SPECIALLY IMPORTED BY B-A TO PRESENT THE FINEST
FM/AM RADIO VALUE WE'VE SEEN!**

FM/AM TABLE RADIO WITH FOUR SPEAKERS

**FOR MAGNIFICENT
TONAL QUALITY**

\$37⁹⁵

- Elegant walnut wood-grained cabinet with silver trim styled to grace any decor.
- Drift-free FM with automatic frequency control to lock-in stations.
- Two 4x6" dynamic speakers plus two 2 1/4" high frequency tweeters for high fidelity sound.
- Variable tone control for blending of tones to suit personal tastes.

No other set B-A has tested meets the standard of performance of this fine radio at such a surprisingly low price. Blends rich bass tones and clean crisp highs for a dramatic experience in listening enjoyment. Powerful 7 tube, silicon rectifier chassis pulls-in stations sharply and clearly. Built-in rod antenna for AM, lead wire for FM. Also external FM antenna terminals. Separate vernier dials for FM and AM with indicator lights. Measures 11 3/4" W. x 10 3/4" H. x 5 1/2" D. 105-125 V. 60 cy. AC. Shpg. wt. 15 lbs.
No. 36A378. Exceptional Import Value.....**\$37.95**



**GENERAL ELECTRIC FM/AM
TABLE RADIO \$44.95**

- Continuous bass/treble tone control.
- Night light tuning dial.
- Attractive thin-line, walnut finished hardwood cabinet.

Marvel of space-age electronics design. Solid-state circuitry utilizing 10 transistors, 5 diodes plus rectifier provides a new high standard of performance never before possible in a radio of this size. Beautiful hardwood cabinetry for fine furniture look and finest sound resonance from two wide-range dynamic speakers—big 6x4" and 3 1/2". Long-range FM/AM pull-in power. AFC eliminates drifting. Size only 7 1/4" H., 10 1/2" W., 4 1/4" D. Shpg. wt. 7 1/2 lbs.
No. 36A380. Each.....**\$44.95**



**PANASONIC
HIGH FIDELITY FM/AM
TABLE RADIO \$49.95**

- Solid state circuitry gives instant sound.
- Tuned RF stage for improved reception with AFC to prevent drifting.

You will be amazed by the depth and beauty of sound provided by this irresistible table radio. Extra powerful 6 1/2" dynamic speaker and 3 watts of power output for unusually fine tone. Quality engineered solid state chassis with 10 transistors, 7 diodes, 1 rectifier. Built-in FM/AM antennas. Continuously variable tone control. Slide-rule dial with logging scale for pin-point tuning. Measures 19 1/8 x 9 1/2 x 5 1/8". Fine Import. Shpg. wt. 7 1/2 lbs.
No. 36A379. Each.....**\$49.95**



**SOLID-STATE FM/AM
TABLE RADIO \$29.95**

- Handsome, richly styled walnut wood space-saver cabinet, 3 1/2 x 5 1/2 x 10".
- Built-in AFC for drift-free FM performance.

Remarkable performer. Large 5" oval speaker augmented by resonant wood cabinet provides pleasing rich sound as you prefer it. Cool long-life instant-on solid state circuitry. (8 transistors, 5 diodes, 2 silicon rectifiers, 1 thermistor) picks out local or distant stations with exceptional sensitivity and razor-sharp selectivity. Easy slide-rule tuning. Beautifully made to grace any decor. 115 V. 60 cy. AC. Shpg. wt. 12 lbs.
No. 36A357. Import Special Each.....**\$29.95**



**BRAND NEW FROM GENERAL ELECTRIC
PUSH-BUTTON PORTABLE CARTRIDGE
TAPE RECORDER**

**BATTERY OPERATED—SOLID STATE
6 TRANSISTORS, 1 DIODE**

\$69⁹⁵

- Use for talking letters, meetings, music on-the-go. Tapes for work or play.

Look at all the big features in this portable recorder. Push button controls for start, stop, rewind, record, fast forward and playback. Capstan drive for steady 1 7/8 ips tape speed. Gives up to one hour recording time. Uses easy loading standard tape cartridge. Just slip the cartridge in place . . . you're ready to record or play. VU meter recording indicator also checks battery pickup. Record interlock to prevent unintentional tape erasing. Compact size only 8 7/8 x 4 7/8 x 2 3/8". Weighs only 3 1/2 lbs. without batteries. Uses 5 size "C" flashlight batteries. Beautiful brown and silver. Complete with tape cartridge, mike and deluxe carrying case.
No. 31B74. Shpg. wt. 5 lbs. Net Each.....**\$69.95**

No. 31A72. Battery Kit 5 size "C" flashlight batteries.....**70¢**
No. 11A563. Scotch Tape Cartridge. Each.....**\$3.56**
No. 31A75. Adapter for 115 V. AC. Each.....**\$6.95**



**FAST
FUMBLE-FREE
CARTRIDGE LOADING**



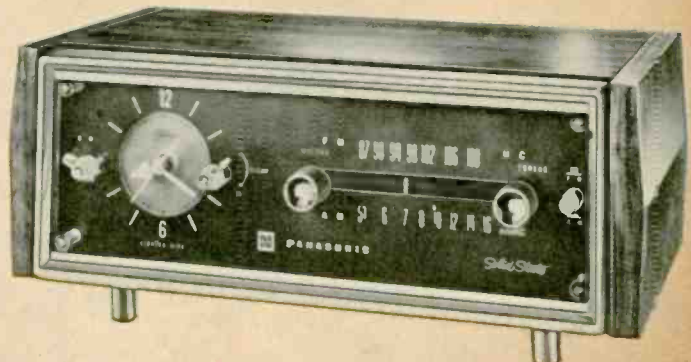
1 GE FM/AM CLOCK RADIO \$69.95



2 DELUXE AM/FM CLOCK RADIO \$39.95



3 GE AM/FM TABLE RADIO \$54.95



4 PANASONIC CLOCK RADIO \$49.95

1 GENERAL ELECTRIC FM/AM SOLID-STATE/INSTANT-SOUND CLOCK TABLE RADIO

DOES MORE FOR YOU AUTOMATICALLY THAN ANY OTHER CLOCK RADIO WE SELL

Discover new, brilliant performance provided by GE's very finest table model FM/AM clock radio. Instant transistorized power fills the room with musical magnificence for your listening pleasure. Real station getting power with 10 transistors, 5 diodes, plus rectifier and printed circuit chassis for the greatest reliability. Built-in extra circuits guarantee clearest reception. AFC pin-points station selection for drift-free FM. Full-featured clock system includes: Vari-Larm control, Snooz-Alarm, Slumber Switch, Vue-Alarm and GE's new dramatically lighted clock dial. Numbers are individually lighted by luminous background creating a soft glowing effect so much easier to read at night. Built-in extremely sensitive FM/AM antenna systems plus external FM connections with 30' wire attached. For your selection—the finest crafted hardwood cabinetry in contemporary walnut or period antique cherry finish. Dimensions 9 3/4" H. x 17" W. x 6" D. 105-120 V. 60 cy. AC. Shpg. wt. 10 lbs. Specify Walnut or Antique Cherry.

No. 36A381. **\$69.95**
Choice Each.

FM/AM RADIO. Same radio as above, less clock. Dimensions: 9 3/4" H. x 17" W. x 6" D. Shpg. wt. 9 1/2 lbs. Specify Walnut or Antique Cherry. No. 36A382. **\$59.95**
Choice Each.

2 SOLID-STATE/INSTANT-SOUND DELUXE AM/FM CLOCK RADIO

Looks right at home in any room!

Thrill to the big sound and superb performance of this very special import. Super-powered by a 15 semiconductor circuit with an undistorted output of 1 watt. Large 4" PM dynamic speaker baffled by an exquisite walnut veneered cabinet with brushed gold control panel, complemented by the finest grille cloth. Continuous tone control. Slide-rule precision tuning. AFC assures perfect drift-free FM reception. Full feature Telechron clock has lighted dial... snooz feature too—simply tap the button on the top and catch a few extra cat-naps. Beautifully styled walnut veneered wooden cabinet 6 5/8 x 14 1/8 x 4 7/8". Operates on 117 volt AC. Shpg. wt. 17 lbs. No. 36A377. Import Special Each. **\$39.95**

152

3 GENERAL ELECTRIC FM/AM TABLE RADIO WITH FULL FEATURED CLOCK FASHIONED IN HANDSOME THIN-LINE STYLING WITH THE ELEGANCE OF WALNUT FINISHED HARDWOOD

A real beauty to grace any decor while providing magnificent performance. Takes full advantage of hardwood cabinetry for finest resonance and sound. Large 6x4" wide-range speaker for full rich tonal quality.

Instant on solid state circuitry delivers extra long range station getting power, built-in extra circuits assure clearest reception and pin-point program selection. Continuous bass/treble tone control. Night-lighted tuning dial and clock. Built-in AM antenna, 30' wire and external connections for FM.

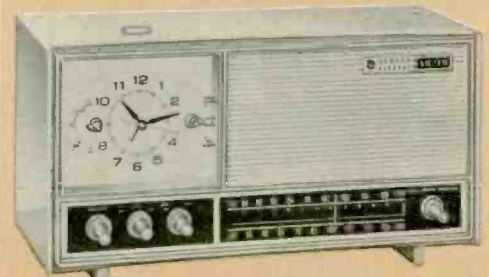
More features than any other clock. Lulls you to sleep, shuts itself-off automatically; wakes you to music or alarm; snooz-bar allows 40 winks; vari-larm wakes you an hour earlier or later without resetting, just press a switch in front. GE's new, conveniently lighted clock dial with easy to read numerals creates a soft, glowing effect for easier reading at night. Vue-alarm (tiny red light) lets you know when alarm is set.

Attractive walnut finished hardwood cabinet is 7 3/4" H. x 11 1/4" W. x 4 1/2" D. 105-120 V. 60 cy. AC. Shpg. wt. 8 lbs. No. 36C182. **\$54.95**
Each.

4 PANASONIC FM/AM SOLID-STATE/INSTANT SOUND CLOCK RADIO

14 solid state devices and solid walnut cabinet—purposely engineered and completely matched to achieve unbelievably thrilling sound—yet the convenient 12 1/2 x 5 1/8 x 7 1/4" small size invites its use anywhere in your home as a clock radio... as a table radio... as a mantel clock adding a touch of elegance to any decor. Finest quality features include: Slide-rule precision tuning dial. Full feature Telechron clock... lulls you to sleep and turns itself off... next morning you awaken to lovely FM or AM music. Lighted clock face and alarm set indicator. Powerful 4" PM dynamic speaker and built-in antennas for both drift-free FM and AM. Push-pull audio circuitry. High sensitivity and very low power consumption. 117 V. 60 cy. AC. Shpg. wt. 6 lbs. No. 36A375. **\$49.95**
Import Special Each.

OUR VERY BEST BUY!



GENERAL ELECTRIC

FM-AM CLOCK RADIO

WITH AFC FOR DRIFT-FREE PERFORMANCE

\$27⁸⁸

Unbelievable... never before a FM-AM clock radio so high in quality, so low in price. Power-packed 5 tubes, 3 transistors, plus rectifier radio chassis featuring solid-state tuning stage for extra reliability. AFC on FM for drift-free reception. Slide-rule dial with precision vernier tuning and logging scale. Separate antennae for FM and AM with external FM antenna connection also provided. RF amplifier on FM. AVC on AM. Powerful 4" dynamic speaker for pleasing tone. Dependable GE clock with automatic wake-to-music, or music/alarm, snooz-alarm and slumber switch. Acoustically designed shatter-proof polystyrene cabinet handsomely styled. Size 14 5/8" W. x 7 5/8" H. x 4 7/8" D. 105-120 V. 60 cy. AC. Shpg. wt. 6 1/4 lbs. No. 36B255—Nutmeg Brown Choice **\$27.88**
No. 36C263—Antique White Each



**1 PANASONIC FM/AM
FM STEREO
RADIO
\$149.95**

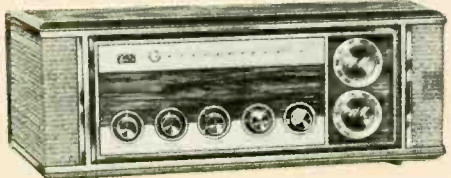


**2 PANASONIC FM/AM-FM
STEREO RADIO \$99.95**



3 4-SPEAKER FM/AM-FM STEREO RADIO \$59.95

A FANTASTIC BUY!



Arvin
**FM/AM/FM STEREO
TABLE RADIO**
WITH DELUXE WALNUT
"WOOD-GRAIN"
CABINET

\$69.95

Unequaled sound and appearance at such low cost! A masterpiece of listening pleasure, with wide-angle, big-set sound from twin acoustically balanced 5" speakers, double-power stereo amplifier. Full-range, tone, volume, and stereo balance controls vary listening conditions to personal taste. Precision built and power-packed with 9 tubes, 7 diodes, and solid-state rectifier, for superb reception of AM, FM, and FM stereo. Automatic AFC locks-in all stations. Gets even far-distant stations with sensitive built-in line cord antenna for FM, and large ferrite-core AM antenna. Lighted dial has accurate indirect-drive tuning plus FM stereo indicator light that automatically indicates FM multiplex stereo broadcasts. Size 18 3/4 x 6 3/4 x 7 3/8". Shpg. wt. 16 lbs. **\$69.95**
No. 36C99. Net Each.....

1 PANASONIC

**SOLID-STATE
FM/AM-FM STEREO
RADIO WITH SEPARATE
SPEAKER SYSTEMS**

**THE ULTIMATE IN STEREO
HIGH FIDELITY RECEPTION**

\$149.95

**ANOTHER PANASONIC FIRST
AUTOMATIC TUNING
IN A STEREO TABLE RADIO**

- 26 Transistors, 15 diodes.
- Full 12 watts music power.
- Separate walnut speaker systems. 2-7" woofers and 2-2 1/2" tweeters.
- Illuminated dial.

In looks, sound and in quality this is the industry standard by which all other radios are measured. Meets the requirements of the most discriminating listener. Beautiful matched walnut speaker systems with 7" woofers and 2 1/2" tweeters plus big 12 watt music power amplifier provides true concert reproduction. Fingertip-touch motor-driven dial regulates forward and reverse of automatic tuning. Local-distant switch adjusts automatic tuning to desired sensitivity. Stereo balance meter permits visual balancing of speaker systems. Continuous treble and bass control, built in FM/AM antennas, automatic frequency control and tuned RF stage for FM, stereo eye plus numerous other features make this the finest radio of its kind on the market today. For 110-120 V. AC. Dimensions: Main Cabinet, 19 1/2 x 13 1/8 x 5 1/4"; Speaker cabinets: 12 1/4 x 13 1/2 x 5 1/8". Shpg. wt. 20 lbs. **\$149.95**
No. 39A255. Import Special, Each.....

**2 PANASONIC FM/AM-FM
STEREO RADIO WITH
SEPARATE SPEAKER SYSTEM**

- All solid state, 21 transistors, 13 diodes.
- 10 watts of music power.
- Beautiful solid walnut cabinetry.
- Striking illuminated tuning dial.

As beautiful to look at as it is to listen to. Matched handsome walnut speaker systems fit anywhere . . . in bookcase, on table, or may be hung on wall. Permits fullest stereo separation taking advantage of matched and balanced 6 1/2" console type speakers. Exclusive stereo eye system permits pinpoint FM stereo tuning. Built-in FM automatic frequency control assures sharp drift-free reception. Features volume, continuous tone and balance controls to take fullest advantage of radio performance. Built-in line cord FM antenna and ferrite core AM antenna for super sensitive reception. Dimensions: 16 1/2 x 3 1/8 x 10". Speakers 8 1/4 x 8 1/2". Operates on 115 V. 60 cy. AC. Shpg. wt. 20 lbs. Import Special, **\$99.95**
No. 39A256. Model RE767. Net Ea.....

**3 EXCEPTIONAL IMPORT VALUE
4-SPEAKER FM/AM-FM
STEREO RADIO**

- Handsome piano finish walnut cabinet.
- 4 high-fidelity speakers, 2-5" woofers, 2-4" tweeters.
- 11 tubes, 10 diodes.
- Multiplex indicator light.
- No drift FM circuitry.
- Variable tone control.

Enjoy breathtaking high-fidelity sound from AM, FM and FM stereo. Wood cabinet brings out the deep bass tones from two heavy magnet woofers. Tweeters extend the brilliant high-frequency range. Continuous variable tone control adjusts lows and highs for personalized listening. Balance control adjusts volume between channels providing perfect stereo listening. No-drift circuitry assures stable reception. Powerful 11-tube, 10 diode chassis is extremely sensitive for both FM and AM reception. Slide rule dial is geared down for easy tuning. Indicator light shows when set is on. Wood cabinet has fine furniture walnut finish. Distinctive grille cloth matches chrome front panel. Dimensions: 26" W. x 10" H. x 7 3/8" D. Shpg. wt. 15 lbs. **\$59.95**
No. 36C85. Special Each.....

NEW IMPROVED MODEL OF B-A's BEST SELLING TV!



PANASONIC

SOLID-STATE "DELUXE" 82-CHANNEL 9-INCH PORTABLE TV

9 INCH MEASURED DIAGONALLY...
WITH FULL 39.2 SQ. IN. VIEWING AREA

USE IT ANYWHERE
OPERATES ON
ELECTRICITY OR
BATTERY

\$119⁹⁵

**SUPER SHARP... SUPER BRIGHT PICTURE
FOR THE WHOLE FAMILY TO SEE... EVEN IN BROAD DAYLIGHT**

Produced by world-famous Matsushita—your guarantee of unsurpassed quality. Weighs little more than personal size 4" or 5" models yet has a screen more than 3 times larger—now the whole family can enjoy sharp, clear pictures together.

Operates anywhere... goes anywhere. Plugs into standard 115 V. AC outlet or plug into cigarette lighter of car or boat. Operates also with battery-pack and charger (see below for accessories).

Pleasing sound from full range 4" oval dynamic speaker and powerful amplifier. Transistor circuitry with 43 solid-state devices: 26 transistors, 13 diodes plus 4 rectifiers. Special alloy diffused RF transistors for extreme sensitivity and picture definition. Aluminized picture tube for maximum brightness and contrast. Uses less than 1 amp. on 12 V. DC, 20 VA with 115 volts 60 cy. Two earphone jacks. Attractive light grey with black and chrome trim. Size 8 1/4 x 10 1/2 x 8 3/8". Shpg. wt. 15 lbs. Fine quality import.

No. 36B180. Model TR901. Special Each..... **\$119.95**

WITH AUTOMATIC TIMER otherwise identical to above. Timer can be set for up to one hour... then relax, even fall asleep and the set turns itself off automatically. Shpg. wt. 15 lbs. **\$129.95**

No. 61A98. Model TR-902D. Each..... **\$8.95**

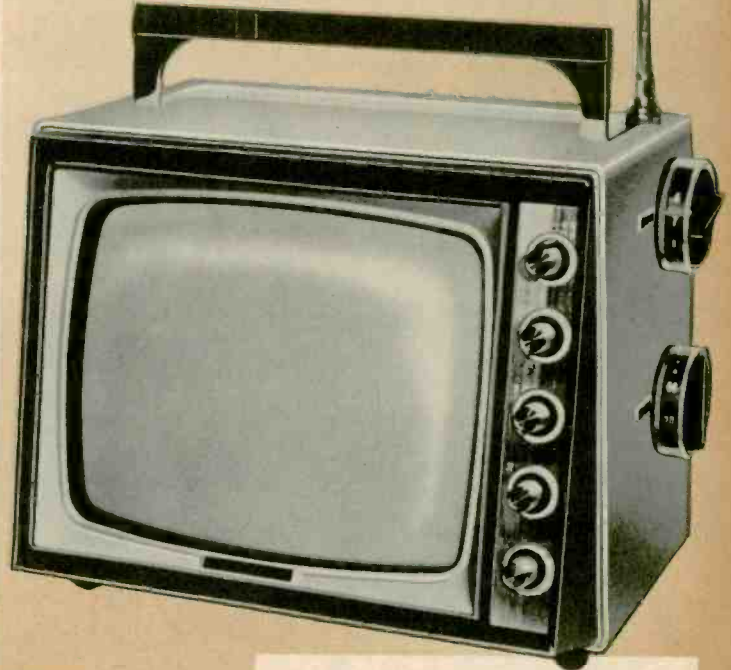
12 V. DC Power Cord. Plugs into cigarette lighter of car or boat. **\$6.95**

No. 36A186. Each..... **\$29.95**

No. 36C188. Handy Carrying Case with accessory compartment. Each..... **\$29.95**

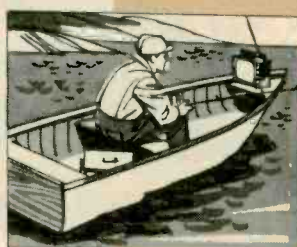
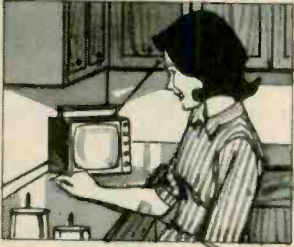
No. 37A560. Battery Pack with Charger. Complete..... **\$29.95**

OPERATES IN AUTO OR BOAT OR FROM
RECHARGEABLE BATTERY-PACK (See Accessories)
OR PLUGS INTO ANY STANDARD 115 VOLT
AC OUTLET



PANASONIC ONE-YEAR GUARANTEE

Free parts and labor on 9" solid-state TV's... just return for repair to your nearest authorized Panasonic service station (over 1,000 in the U. S.).



**COMPLETELY NEW!
BRILLIANTLY DESIGNED!
BEAUTIFUL WALNUT-GRAINED
HIGH IMPACT PLASTIC
CABINET**

**SUPER PULL-IN
POWER... EVEN IN
FRINGE AREAS**

**GREAT FOR OUTDOORS
YET DELIBERATELY STYLED
TO ENHANCE INTERIORS**

**PANASONIC
SOLID-STATE**

9-INCH 82-CHANNEL PORTABLE TV

With BUILT-IN FM/AM RADIO and TIMER

9 INCH MEASURED DIAGONALLY...
WITH FULL 39.2 SQ. IN. VIEWING

\$159⁹⁵

Here's the best of viewing and listening precision engineered into one truly portable unit designed especially for the young in heart... entertaining you everywhere... home, car, boat... any place. It's really practical too... you get a much more receptive FM/AM radio because of the combined TV solid-state circuitry—imagine all these features: ● 45 solid-state devices: 26 transistors, 15 diodes, 4 rectifiers. ● Large 4" oval PM dynamic speaker. ● 60 minute adjustable timer shuts off

TV or radio automatically. ● 9" 90° deflection aluminized picture tube. ● Monopole telescopic swivel and loop antennas. ● 400 MW audio output. ● Control circuits: active power filter (APF); automatic noise canceller; peak AGC. 115 volts AC. Weighs only 13 lbs. and measures a compact 8 1/8 x 12 3/8 x 9". Shpg. wt. 16 lbs.

No. 36A181. Model TR903R. Each.... **\$159.95**

No. 37A560. Battery Pack with Charger..... **\$29.95**



PANASONIC 12-INCH ALL-CHANNEL PORTABLE TV

WITH RICH WOOD-GRAIN FINISH

LIGHTWEIGHT
ONLY 19 1/2 LBS.

\$89⁹⁵

Beautiful decorator styling is only surpassed by clarity and sharpness of big 12" (75 sq. in.) picture. Precision circuitry with 14 tubes and 6 solid-state devices assures long trouble-free operation with unbeatable picture definition. Built-in monopole telescopic antenna swivels to the strongest signal for best reception. Loop antenna brings in UHF channels loud and clear. Heavy duty 3x5" oval speaker is front mounted, gives rich, full concert quality sound. Features latest, 110° aluminized picture tube. Solid state silicon power rectifier for long trouble-free operation. Has neon light indicator and keyed AGC circuitry. Operates from 115-120 V. AC. Wt. 19 1/2 lbs. Compact size, 12 1/4 x 16 x 11 1/4" Shpg. wt. 25 lbs.

No. 36A389. Import Special, Each..... **\$89.95**

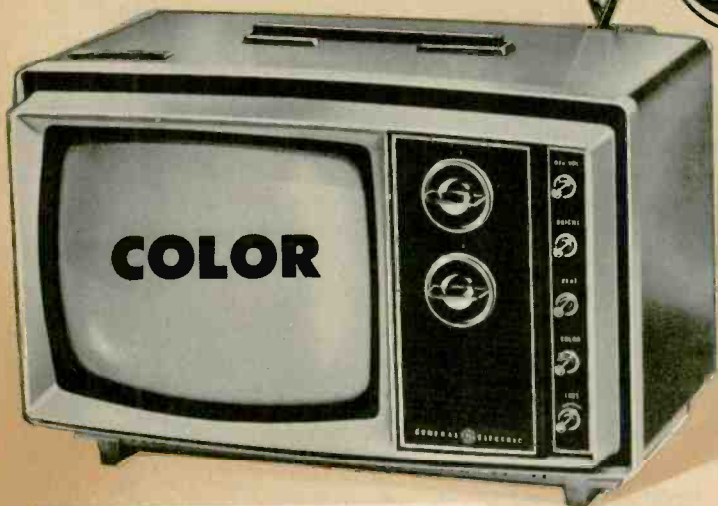
FROM THE WORLD'S LEADER IN PORTABLE COLOR TV

NOW...PORTABLE TV VIEWING IN COLOR...A WONDERFUL NEW CONCEPT IN PERSONAL TV ENJOYMENT—AND AT ONLY HALF THE PRICE OF MANY COLOR SETS



PORTA-COLOR PORTABLE COLOR TV

\$14.00 MONTHLY \$269⁹⁵



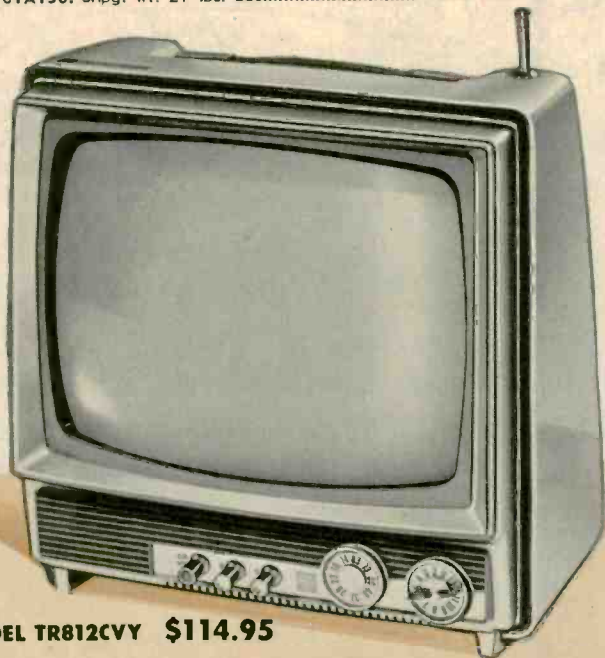
- Truly portable . . . weighs only 24 lbs.
- Big 11" overall diagonal tube—60 sq. inch picture.
- Earphone for private listening.
- Automatic fine tuning . . . preset and forget.
- Keyed automatic gain control for constant picture . . . minimizes airplane flutter and picture fading.

New improved model of America's most remarkable entertainment innovation. Vivid color pictures that will thrill you . . . and you can easily take and enjoy it wherever you like because it's truly portable. Precision engineered for sharp VHF and UHF (all 82 channels) color and black and white reception of both nearby and fringe area stations. Illuminated controls for extra tuning convenience. Built-in dipole telescoping antenna for VHF, sensitive loop for UHF. Just plug it in . . . and play anywhere. Degausser guards against distortion. Static-free FM quality sound with 3" dynapower speaker. Handsome, yet rugged high-impact polystyrene cabinet in rich walnut grain finish. Size 17" W. x 11 3/4" H. x 16 1/2" D. 120 V. 60 cy. AC. No. 61A130. Shpg. wt. 27 lbs. Each. **\$269.95**

ONE YEAR SERVICE WARRANTY

Free repair, labor and parts, in event of manufacturing defects during first year of purchase. Take set, with proof of purchase date, to any authorized GE TV service agency in U.S.A.

**EASY TO OWN!
EASY TO OPERATE!**



MODEL TR812CVY \$114.95

SOLID-STATE TRANS-PORTABLE TV IN POPULAR CHOICE OF PICTURE SIZES

Most convenient set you will buy. Extra dependable transistor circuitry gives cool, long-life operation—no tubes to burnout. Pick-up easily by luggage handle and carry, everywhere, so compact and lightweight. Sharpest black and white pictures from both nearby and fringe area stations, tunes all 82 VHF and UHF channels. Keyed AGC retains optimum picture quality regardless of signal strength, minimizes airplane flutter and picture fading. Operates on 120 V. 60 cy. AC or from optional battery pack (see below). Also DC cable included for using power from auto or boat battery, plugs into cigarette lighter. Earset also supplied for private listening without disturbing others.

MODEL TR812CVY WITH BIG 74 SQUARE INCH VIEWING AREA USING 12-INCH TUBE (Overall Diagonal Measurement)

Weights only 14 1/2 lbs. . . . measures 12 3/4" W., 13" H., 10 1/2" D. Rugged hi-impact polystyrene plastic cabinet. Shpg. wt. 16 lbs. No. 36A383. Ivory. Each. **\$114.95**

MODEL TR814CEB WITH BUILT-IN CHARGER

Complete with snap-on cover to protect set when being carried. Other features and size as above. **\$129.95**
No. 36A384. Ebony. Each.

MODEL TR853CVY—16-INCH WITH LARGER 125 SQUARE INCH VIEWING AREA (Overall Diagonal Tube Measurement)

Complete with built-in battery charger. Size 15 3/4" W., 15 7/8" H., 12 1/2" D. Weights only 19 1/2 lbs. Hi-impact polystyrene cabinet. **\$139.95**
No. 36A385. Ivory Choice
No. 36A386. Ebony Each
No. 36A387. Battery Pack for all three models. Each \$24.95
No. 36A388. Charger for Model TR812CVY only. Each. \$14.95



MODEL TR814CEB \$129.95

**TAKE YOUR SET ANYWHERE...
OPERATE ON REGULAR HOUSE
CURRENT...FROM OPTIONAL
BATTERY PACK OR PLUG INTO
CIGARETTE LIGHTER OF
AUTO OR BOAT**

RADIO/WALKIE-TALKIE BASE STATION SENDS VOICE OR CODE UP TO TWO MILES!

\$34.95

- Fully transistorized 9 transistor circuit.
- Transmits and receives.
- Battery or AC (with optional converter).
- Take it anywhere.
- No license needed.
- No age limit.
- Full Citizens Band reception as well as standard broadcast band.
- Transmits on channel 14.

RECEIVES MESSAGES FROM ANY WALKIE-TALKIE



**NO LICENSE
NEEDED
NO AGE LIMIT**



**TALK BACK
AND FORTH
OR TO BASE
STATION
ABOVE**



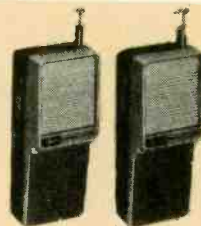
**WALKIE-
TALKIES**

**SEND AND RECEIVE UP TO 3/8ths OF A MILE
OPERATES ON CHANNEL 14**

- 48" chrome antenna.
- Handsome impact resistant case.
- No license required.
- No age limit.

\$19.95

**COMPLETE
SET OF
TWO**



Pull out the gleaming chrome 48" whip antenna, flip the switch and you're on the air. High impact gray cases have metal speaker grilles. Operates on Citizens Band channel 14. Readily picked up on base station above or on other walkie talkie operat-

ing on same channel. GE's solid state circuitry assures long, trouble-free operation. On/off volume control. Permits proper adjustment of receiving volume. Complete with batteries.

No. 35B468. Per Set of 2.....\$19.95

B-A's POPULAR 4-BAND WORLD WIDE RECEIVER KIT

LOOK AT ALL THESE FEATURES

ONLY

\$21.95

Less Cabinet

Quickly, Easily Built



- Covers 10, 15, 20, 40, 80 and 160 meter amateur bands, also citizen band, maritime, aeronautical, international broadcast, WWV, and Standard AM.
- Front panel band-switching.
- Built-in 4 inch loudspeaker.
- Front panel phone jack cuts out speaker for private listening.
- Band Spread tuning. • Neon Panel light indicator.

Easy to build . . . a revelation to use. In four band-switched bands you have total coverage 550 KC—1600 KC, 1650 KC—5.5 MC, 5.5 MC—16 MC, 16 MC—30 MC. Listen to shortwave stations, and foreign broadcasts as well as standard AM. A great aid to students of foreign language . . . a perfect way for the newcomer to start in ham radio. Regenerative circuitry provides outstanding performance yet is easy to build. Instruction book is so thorough with step-by-step details that anyone can build it. No coils to wind. Everything

except the pleasure has been taken out of making this fine set. Front panel controls consist of On-Off Volume, Main Tuning, Band Spread, Band-switching, Antenna Tuning and Regeneration.

Tubes used 12AT7 regenerative detector and amplifier, 50C5 output for ample room volume. For 110-115 V. AC-DC. Shpg. wt. 6 lbs. Size 7 7/8" H., x 11 1/4" W. x 6 1/2" D.

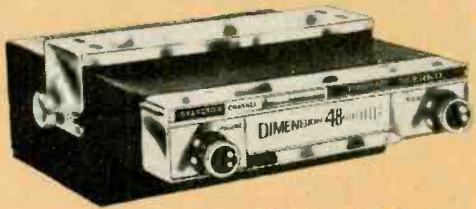
No. 32B26. Less Cabinet. Net Each.....\$21.95

Simulated Leather Covered Cabinet.

No. 32B27. Net\$2.85

**PLAYS 4 & 8 TRACK
TAPE CARTRIDGES**

**RANGER CAR
STEREO
TAPE PLAYER**



COMPLETE WITH
FOUR SPEAKERS

\$89⁹⁵

**FULLY AUTOMATIC AND
COMPATIBLE - INSTANTLY
ACCEPTS EITHER 4 OR
8 TRACK CARTRIDGES**

Simply insert either cartridge to start, remove to stop... no switching required.

Channel automatically transfers at the end of each program track—has selector bar for manual change and provision for foot switch remote control. Illuminated dial shows the channel that is playing.

Features finest electronic and mechanical design, solid state audio system, 4 watts per channel. Highly styled, chrome and black, compact size 2 7/8 x 7 7/8 x 8" deep. With universal top or bottom mounting supports and four 5" heavy duty speakers and grilles. For 12 V. DC positive or negative ground. **\$89.95**
No. 32B47. Net Each.

**RANGER CUSTOM UNDER DASH LINE
SLIM, TRIM... NEW APPROACH TO CAR RADIO STYLING**

**UNIVERSAL
AM RADIO**

\$29⁹⁵

FITS ALL CARS



- Simplified installation.
- Modern walnut front trim.
- Matched appearance.
- All units 1 7/8 x 4 x 9" W.

UNIVERSAL AM RADIO

Truly a product of American electronic and mechanical engineering genius. Designed for 6 or 12 V. positive or negative ground cars. Has RF amplifier stage, AVC, better than 15 microvolt sensitivity, continuously variable tone control, internal speaker, superb audio, 6 transistors and 2 diodes. Custom fits to the dash with adjustable bracket mounting. Wt. 5 lbs.
No. 32B49. Model RR-18M. Net Each. **\$29.95**

FM AUTO CONVERTER

Converts your existing AM radio to FM band. Made for 12 V. negative ground cars. Requires only the simplest connection to your radio, through the antenna lead, and no dismantling. AM/FM switch returns radio to normal AM operation. Also has multiplex plug for adapting to FM stereo. Has 6 transistors, 8 diodes, RF stage, AFC. Wt. 4 lbs. **\$37.50**
No. 32B51. Model RR-21FC. Net Each.

DELUXE FM/AM RADIO

Complete auto radio entertainment in one compact under dash unit. Made for 12 V. cars, negative or positive ground. External 5x7" heavy duty speaker and 3 watt audio output reproduce the full range of FM and AM broadcasts. Has 11 transistors, 8 diodes, RF stage, AVC, tone control, automatic frequency control, sensitivity 5 microvolts FM, 8 microvolts AM. Designed for the addition of Multiplex Adaptor below for FM stereophonic sound. Wt. 6 lbs.
No. 32B50. Model RR-19FM. Net Each. **\$59.95**

FM MULTIPLEX ADAPTOR

For any AM/FM Radio or FM Converter to Stereo Sound. Styled exactly like other units illustrated. For 12 V. negative ground only. Has dual channel volume controls, dual tone controls, balance control, 5 watts each channel, 4 ohm output, and automatic "stereo" indicator. 12 transistors, 6 diodes. Wt. 6 lbs.
No. 32A45. Model RR-23-MX. **\$74.50**
Net Each.

**RANGER CUSTOM
TUNABLE
REVERB**



\$22⁴⁵

Matches appearance and size of the other custom under dash units described above. Produces pleasing, dimensional tonal quality from your radio. Exclusive electronic tuning control "custom fits" the sound to your car... to your ear. Made for 12 V. negative ground. Has 6x9" speaker to be mounted like an ordinary rear seat speaker. Audio power output 4 watts. Shpg. wt. 5 lbs.
No. 32B175. Model RR-22R. **\$22.45**
Net Each.

**VOLKSWAGEN
CUSTOM
TRANSISTOR RADIOS**

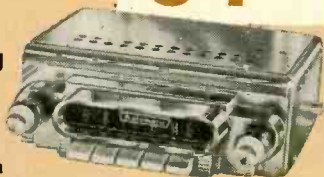
Automatic

MFG. LIST \$47.95

\$34⁷⁵

FOR ALL
VW's
1958 THRU
1966

Manual
or
Push-Button



- Full range Tone control.
 - Volumonitor Electronic level control.
 - Tuned RF Stage for extreme sensitivity and selectivity.
 - Separate concert quality speaker included.
- Matches Volkswagen Instrument Panel

Finest Radio Performance Imaginable... with powerful chassis incorporating 7 high gain tuned circuits including tuner RF stage. Provides exceptional sensitivity and selectivity. Also features full AVC and full range tone control.

More Economical and Trouble-Free Operation... transistors assure longer life, increased efficiency and less than 1/2 the normal battery drain. Instant operation at the flick of a switch.

Manual Tuning VW Custom Radio. Mfg. List \$47.95.
No. 31A166 **\$34.75** 3 @ **\$33.57**
Net Each

Push Button VW Custom Radio. Mfg. List \$59.95.
No. 31A167 **\$44.07** 3 @ **\$41.97**
Net Each

**AUTOMATIC FM-AM
ALL TRANSISTOR
AUTO RADIO**

PUSH BUTTON
TUNING BOTH
FM AND AM

MFG. LIST \$104.95

\$79⁹⁵



**MOUNTS IN DASH OR
UNDER DASH**

- Tuned RF stages for max. sensitivity.
- Push button tuning, both AM and FM.
- Advanced design automatic freq. control.
- Push pull output 16 watts peak power.
- Complete with special antenna for maximum performance.

Now! Enjoy static-free FM and finest AM in your car... a complete receiver covering 87.5-108.5 MC FM and 540 to 1610 KC AM at a cost of less than most AM auto radios. Deluxe features include five "Quick-Set" push buttons (3 A.M. - 2 FM); large vernier slide-rule tuning dial; full-range tone control; powerful 6 watt audio output to 5x7" heavy duty speaker.

FM Band has 4 IF stages; 1.5 micro volt sensitivity to 20 db signal to noise ratio; image rejection better than 40 db; AFC to facilitate tuning and prevent frequency shift; AGC to prevent overload in strong signal areas.

AM features 3 micro volt sensitivity, newly designed AVC system to eliminate fading.

UNIVERSAL PUSH-BUTTON MODEL arranged for simple in-dash installation without need for extra trim plates... or under dash mounting. Simple to move from car to car.
No. 32B130. Mfg. List \$104.95. Net. **\$79.95**

**8-TRANSISTOR AM
RADIO FITS ANY CAR,
TRUCK OR BOAT**

HIGH QUALITY
SOLID STATE CIR-
CUIT PROVIDES
CRYSTAL CLEAR
RECEPTION

NOW ONLY

\$19⁹⁵



PRICED
WAY
BELOW
THE
MARKET

- Tuned RF stage for fine sensitivity.
- Automatic volume control—tone control switch.
- 2 1/2 watts audio output—heavy duty speaker.

Most exciting universal auto radio bargain anywhere.

Modern all solid-state circuitry makes possible finest AM performance at a fraction of former car radio prices... with no sacrifice in quality, appearance or features that make radio listening a pleasure, such as effective AVC to prevent fading, tone control switch and tuned RF amplification.

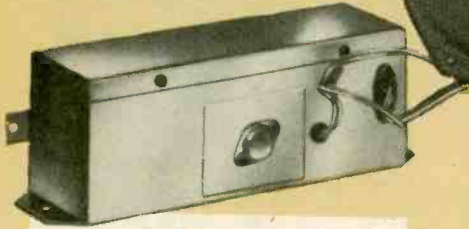
Mounts neatly and easily under the dash. So small that it just can't get in the way—only 6 3/8 x 2 3/8 x 6 5/8". Has fine tone from built-in 5" oval speaker and operates with minimum battery drain from 12 volts negative or positive ground.

Priced way below the usual import price.
No. 32B174. **\$19.95**
Shpg. wt. 5 lbs. Special.

Automatic

REVERB-A-MATIC

ALL SOLID-STATE



\$28⁹⁵

INSTALLS AS A REAR SEAT SPEAKER



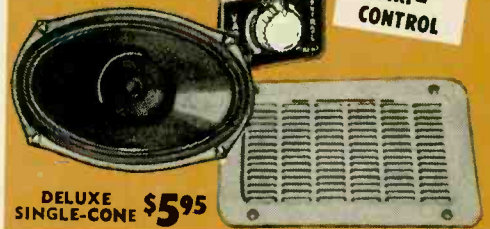
CONCERT HALL REALISM FROM YOUR AUTO RADIO

Through a new concept in sound reproduction you can experience concert hall dimension within your car. This dramatic sound is created by a reverberation process—audio waves traveling through a unique electro-mechanical system are amplified and reproduced through an additional rear speaker. The reverberation effect surrounds the listener with a feeling of depth that approaches the acoustic dimension of a "live" concert hall. Compact and easy to install in any car—usually under dash. Includes transistorized delay line amplifier, dash control, rear seat speaker, grille, wire harness and simple instructions. For 12 V. negative ground cars. **No. 32B158. Model RAV-5403. Net Ea. \$28.95**

DELUXE AUTO REAR SEAT SPEAKER KITS

COMPLETE KIT **\$7⁹⁵** TWIN-CONE

POPULAR VARI-CONTROL



DELUXE SINGLE-CONE \$5⁹⁵

- For all radios—tube or transistor.
- 6x9" multi-impedance 10-20-40 ohm speakers.
- Vari-control . . . choice of blending or sound only from front or rear.

Features new heavy duty 6x9" speakers that flawlessly reproduce the full tonal range—excellent for Hi-Fi FM as well as finest reproduction of AM programs, developing all the power you will ever need. Designed to mount in shallow space, the speakers require a depth of only 2 3/4". The new chrome grille has finest appearance in any car, protecting the speaker cone without need for the usual loose flocked screen—absolutely nothing to rattle or distort the fine tone.

Kit includes choice of single cone or wider range twin cone 6x9" speaker, hardware, vari-control for under mounting, wiring and simple instructions. Shpg. wt. 4 lbs.

No. 32B149. Kit with Deluxe 6x9" 7-Watt Speaker. Complete. \$5.95

Kit with Twin-Cone 6x9" 10-Watt Speaker. Especially wide-range reproduction with still more power to handle the high peak audio output of modern auto radios. Shpg. wt. 4 lbs. No. 32C154. Complete. \$7.95

ECHOMASTER REVERB SYSTEM

\$22.95

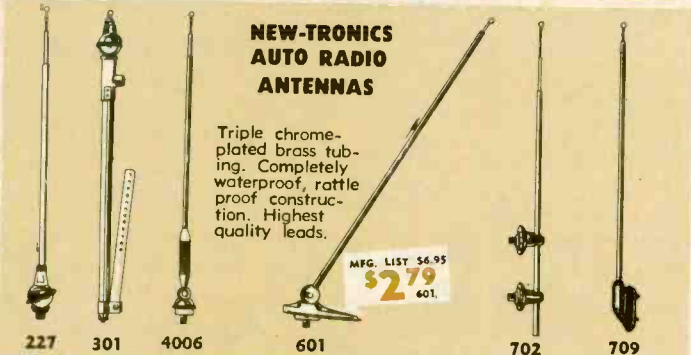


Sound so rich with realism that it must be heard to be appreciated. Synchronomatic circuit for extra fine vernier adjustment of reverberation effect. All solid-state. Slim, compact only 4" D. x 7 1/2" W. x 1 1/2" H. Control panel mounts under dash in minutes. Powerful Alnico V rear seat speaker has specially designed cone for balanced sound. Complete with wire harness for connecting amplifier to echomaster, rear speaker included. Amplifier operates from 12 V. negative ground system. **No. 32B75. Model RUV5401. Each \$22.95**

NEW-TRONICS AUTO RADIO ANTENNAS

Triple chrome-plated brass tubing. Completely waterproof, rattle proof construction. Highest quality leads.

MFG. LIST \$6.95 **\$2⁷⁹** 601.



UNIVERSAL ANTENNAS—TO FIT ANY CAR ENGINEERED AND BUILT FOR LASTING TOP PERFORMANCE
Quick, one-man installation from top of fender or cowl. Easy-to-assemble "Hi-Ball" mount is adjustable for any mast position up to 30°. Has chrome hood and positive grounding rack for absolute stability. Disappearing Model 301 has anti-rattle support. Model 4006 combines 180° swivel mount and chrome plated shock absorbing spring to prevent antenna damage. 54" lead length. Shpg. wt. 2 lbs.

Stk. No.	Mfg. No.	Description and Size	Mfg. List	Net Ea.
38A48	227	Hi Ball 21 1/4 to 57"	\$4.50	\$1.88
38A38	301	Disappearing 2 1/4 to 53 1/4"	6.95	2.79
38A24	4006	Swivel-Spring 24 1/4 to 55 1/2"	7.95	2.99

FENDER PLATE MOUNT—ADJUSTABLE ANGLE
Deluxe design, handsome appearance. Fully adjustable 180° swivel base. With 54" lead for front mount. Add extension lead listed below for rear mount; add T-connector and extension for dual mount. 22 3/4" to 58 1/4". Wt. 2 lbs. Mfg. list \$6.95. **No. 9B124. Type 601. Net Each \$2.79**

SIDE MOUNT ANTENNAS
Ideal 3-section antennas for side fender or cowl mounting on domestic or foreign cars as well as for bus or truck cabs. Model 702 has deluxe chrome caps on insulators. Model 709, specially designed for Volkswagens, has sturdy 2-hole mount. 36" leads. Shpg. wt. 2 lbs.

Stk. No.	Mfg. No.	Description and Size	Mfg. List	Net Ea.
38A22	702	Side Cowl 21 to 57"	\$7.95	\$2.95
38A39	709	Volkswagen 20 1/2 to 56 1/2"	\$5.95	2.49

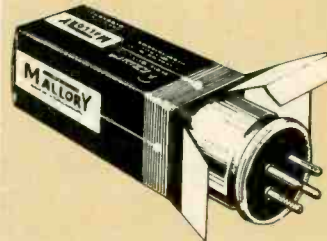
UNIVERSAL REPLACEMENT ANTENNA MASTS

① **Standard Telescoping Mast.** Fastest and easiest way yet devised for replacing broken antennas. No need to re-mount a complete new installation. Bell shaped collar slips onto stub of broken mast and fastens with set screws. 3 sections, telescoping 24" to 57". Shpg. wt. 1 lb. **No. 38B44. Mfg. List \$2.43 Each \$1.32**

② **Flex-O-Rod Replacement Mast.** Spring supported 1 piece rod flexes when antenna strikes any object. Prevents damage so often incurred by leaning against antenna while servicing car. Fastens to broken antenna stub with set screws. Length 27". Shpg. wt. 1 lb. **No. 38A125. Mfg. List \$1.82. Each \$1.07**



MALLORY REPLACEMENT VIBRATORS



Quiet operating, long lasting, "the standard of the industry". If you are unable to identify the vibrator needed or do not have your Mallory Vibrator Guide—then order by stating year, make and model of set. B-A will select the replacement for you. G1601 and 1601 are "standard" 4 prong types; G1602 is "standard" 3 prong; 1701 is 6 prong "split reed" type for dual 6 and 12 volt operation.

MALLORY VIBRATOR GUIDE No. 19A26. Each 15c or Free with Order for Vibrators.

Please Order by Group Stock No. 19A9 and Mallory Type Number.

Mallory No.	Replaces Type	Rated Volts	Mfg. List	Net Each	Mallory No.	Replaces Type	Rated Volts	Mfg. List	Net Each
509P		6	\$4.15	\$2.49	1601	859	6	\$4.70	\$2.82
870		6	4.90	2.94	G1601	G859	12	4.70	2.82
903M		6	3.60	2.16	W1601	W859	4	4.90	2.94
1501	4501	6	6.35	3.81	G1602	G883	12	4.70	2.82
G1501	G4501	12	6.90	4.14	1610		6	5.50	3.30
1513	4513	6/12	6.90	4.14	1701 A		6/12	9.60	5.76
1514	4514	6	6.90	4.14	G1801S	G725C	12	8.55	5.13

AUTO ANTENNA CONNECTORS AND LEADS



- ① **Male Cable Plug.** Standard Motorola type. **12A1406. Each .12c 10 For...\$1.08**
 - ② **Female Cable Plug.** Mates with above. **12C170. Each .08c 10 For...72c**
 - ③ **Flange Mounted Socket.** Fits Fig. ① Plug. **12A1404. Each .14c 10 For...\$1.29**
 - ④ **"T" Connector For Dual Antennas.** Has 1 male plug, 2 female sockets, parallel connected. **18B1133. Each .69c 10 Ea...59c**
 - ⑤ **Universal Lead Cable.** Handy 54" replacement cable. Fully shielded, highest quality. Has 3 sizes of nuts to mate connector on most any make antenna. Standard automotive pin plug on set end. wt. 8 oz. **No. 38A124. Net Each \$1.09**
- Extension Leads Finest Coax Type**
No. 37A248. 12" Ext. Each .63
No. 37A249. 24" Ext. Each .63
No. 37A250. 36" Ext. Each .80
No. 37A385. 12 Ft. Ext. Each .221
No. 37A386. 15 Ft. Ext. Each .293

AUTOMATIC "GLO-DROP" RESISTOR

ADAPTS 6 VOLT AUTO RADIOS FOR USE IN 12 VOLT CARS



\$3²³

High wattage Globar type resistor in ventilated, protective metal enclosure. Drops output to 6 or 7 volts under 4 to 20 amp normal current conditions. Enables use of 6 volt equipment from 12 volt source. When ordering specify whether under or over 10 Ampere load. **No. 17B424. Workman GDI. Net Each \$3.23**

NEW LOW PRICES ON B-A's CB TRANSCEIVERS

BA-23 DELUXE 5 WATT 23 CHANNEL COMPATABILITY

BACKED BY B-A's FULL GUARANTEE
BUILT-IN 117 VOLT AC & TRANSISTORIZED
12 VOLT DC POWER SUPPLY

TOP
PERFORMING
BA-23
NOW ONLY
\$109⁹⁵
NO
MONEY
DOWN
WITH TRANSMIT
CRYSTAL FOR CH.11

15-DAY
HOME TRIAL
WITH FULL
MONEY-BACK
GUARANTEE

Less Transportation
Charges Only



MADE IN U.S.A.
WITH ALL AMERICAN COMPONENTS

ENGINEERED AND TESTED FOR FINEST PERFORMANCE AND DEPENDABILITY

THOROUGHLY QUALITY CONTROL CHECKED BEFORE SHIPMENT
● All-Channel Receiver Tuning—The Ultimate in Flexibility.

Specifications: Double conversion superheterodyne receiver, tunable 26.965 to 27.225 MC (channels 1-23); sensitivity 0.4 microvolts for 6 db S/N ratio; selectivity 6 db down \pm 5 KC, 60 db down \pm 16 KC; positive acting squelch with adjustable threshold from .2 microvolts to 150 microvolts; series gate automatic noise limiter; fully illuminated "S" meter with switch for modulation meter; audio output 3.5 watts to internal PM speaker.

Transmitter section: 5 watts legal input, 3.4 watts minimum RF output, 52 ohms impedance, SO239 coaxial connector, 100% modulation capability, modulation meter switch, ceramic push-to-talk plug-in microphone with coil cord. Change over control relay has gold plated contacts and dust cover for dependable long life operation.

Power Supply section: Dual 117 V. AC and 12 V. DC. Exceptionally rugged

Dependable Crystal Spotting—puts your receiver exactly "on channel" for standby. 23-Channel Transmit Crystal Selector. Front panel switching.

and trouble free design with built-in transistor switching for DC operation. Cabinet enclosure is steel with professional black wrinkle enamel finish and contrasting gray panel, trimmed in brushed aluminum. 12 1/2 x 7 1/4 x 4 1/4" Supplied with microphone, crystal for channel 11, mobile mounting bracket and both power cords. **\$109.95**

No. 35C114. Model BA23. Net Each.....
EXTRA TRANSMIT CHANNEL CRYSTALS—Specify channel.
No. 35C252. Each.....\$2.50 5 For.....\$11.00 10 For.....\$21.00
SAVE on B-A CHIT-CHAT PACKAGE OF SIX CRYSTALS
Crystals for talking to stations in another license group. Includes channels 9, 10, 12, 13, 14, 23 (Ch. 11 comes with Transceiver).
No. 35C251. All 6 in Plastic Container.\$11.00
Special

BEST CB VALUE WE'VE EVER OFFERED! BA-8 5-WATT CITIZENS BAND TRANSCEIVER

***Exceptional receiver versatility:** Crystal controlled on choice of 7 internal receive crystals as well as full 23 channels tunable. Transmit channel frequency control is by choice of 7 internal crystals plus 1 "quick-change", on the panel. Receiver tuning can be "spotted" to any transmit crystal. Other important receiver features: tuned RF stage; 0.3 microvolt sensitivity (0.5 microvolts at 30% modulation); selectivity 6 db down \pm 4 KC, 60 db \pm 25 KC; illuminated "S" meter; automatic noise limiter; positive acting squelch that can be set to operate on any usable signal, audio output 3.5 watts maximum to internal speaker.

Transmitter: Power Input 5 watts, power output 3.4 watts minimum; Pi-network matching and SO239 coaxial connector for 52 ohm antennas; modulation, high level clipping at 100%. Has ceramic microphone, coil cord and push-to-talk switching that uses no relays.

Power Supply. 117 V. 60 cy. AC @ 40 watts; dependable vibrator type 12 V. DC supply operates at 4.5 A. on transmit, 3.8 A. on receive.

In heavy gauge steel cabinet with handsome durable black wrinkle finish and contrasting grey panel with brushed aluminum trim. Size 11 3/16 x 6 3/4 x 5 1/8" high. Supplied with microphone, mobile mounting bracket, AC and DC power cords and crystals for channel 11.

No. 35B115. Wt. 9 lbs. Model BA-8. Net Each..... **\$79.95**

Extra Transmit and Receive Crystals. Specify Channel.
No. 35C250. 5 Pairs
Pair\$4.95 For.....\$21.00

Save on B-A "Chit-Chat" Package of 6 Pairs
Crystals for talking to stations in another license group. Includes transmit and receive crystals for channels 9, 10, 12, 13, 14, 23 (Ch. 11 comes with Transceiver.)
No. 35B249. In Plastic Container. Special\$21.00

*WITH 8 CHANNEL CRYSTAL
CONTROL AND 23 CHANNEL
TUNABLE RECEIVER

15-DAY HOME TRIAL
WITH FULL
MONEY-BACK
GUARANTEE
Less Transportation
Charges Only



\$79⁹⁵
NO MONEY
DOWN

ITS FINE FEATURES CAN'T BE BEAT FOR VALUE!

JOHNSON MESSENGER CITIZENS RADIO EQUIPMENT FOR PERSONAL OR BUSINESS 2-WAY COMMUNICATIONS



MESSENGER "100" \$129.95



MESSENGER III \$159.95



MESSENGER 350 \$299.50

NEW MESSENGER "100" 5-WATT ALL SOLID-STATE CB TRANSCEIVER

All transistor—Now with new extra features. Very small size 2½ x 6⅝ x 8¾" deep. Has six channel crystal receive-transmit, narrow bandwidth, adjustable squelch, exceptional sensitivity, transmitter speech compression, full 3.5 watts RF output, 3 W. audio power to internal speaker. Also has jack and switch for use as 3 W. PA amplifier. Wired for optional tone alert. For 12 V. DC. With crystals for channel 9. Shpg. wt. 5 lbs.

No. 35A620. Johnson 242-156. Net Each. **\$129.95**

DELUXE MESSENGER III 5-WATT ALL SOLID-STATE CB TRANSCEIVER

Features finest engineering and performance. Now 12 channels. 18 transistors, 9 diodes, double conversion superheterodyne, 0.4 microvolts sensitivity, 7 KC bandwidth. 2-stage self-compensating squelch, automatic noise limiter. Transmitter is high level modulated, has speech clipping and filter for high intelligibility. Internal speaker, also provisions for external speaker and for 3 W. PA. Wired for optional tone alert. Size 2⅝ x 6⅝ x 8¾" deep. For 12 V. DC. With channel 9 crystals. Wt. 7 lbs.

No. 35A621. Johnson 242-143. Net Each. **\$159.95**

TRANSISTORIZED TONE ALERT

Plug-in selective calling system. Completely mutes the speaker until one of your units calls another. Automatically sounds audio note and lights indicator which remains on until call is answered. Eliminates annoyance of unwanted signals when on stand-by.

No. 35B578. Johnson 250-827. For 100 and III. Net Each. **\$69.95**

No. 35A622. Pair Crystals for "100". Specify Channel. Net Pair. \$5.95

No. 35A623. Pair Crystals for III. Specify Channel. Net Pair. \$5.95

NEW MESSENGER "350" SINGLE SIDEBAND CB TRANSCEIVER

Gets up to 30% more range over ordinary 5 W. units when conditions are normal, up to 3 times the range when noise and skip are bad.

All solid state circuitry uses 25 transistors, all diode switching, no mechanical relays. Operates with 10 W. PEP power input on upper or lower sideband on either of two channels—a total of 4 communications channels. Receiver sensitivity 0.2 microvolts, 2.7 KC bandwidth. Audio 3 watts on receiver or PA. Power consumption, receive 0.3A. transmit less than 1 A. 12 V. DC. Size 2½ x 8 x 9½" long. With crystals for channel 4 and 18. Shpg. wt. 6 lbs. For 12 V. DC.

No. 35A624. Johnson 242-154. Net Each. **\$299.50**

No. 35A625. Johnson 239-122-1. 115 V. AC Supply. Net Each. \$29.95

OPTIONAL ACCESSORIES FOR 100 AND III AC POWER SUPPLIES FOR 115 V. BASE OPERATION

No. 35B385. Johnson 239-125-1. For "100". Net Each. **\$29.95**

No. 35B256. Johnson 250-823. For III. Net Each. \$29.95

VEHICULAR SHOCK MOUNT for III. For tractors, whse. trucks, etc. No. 35A626. Johnson 251-802-1. Net Each. **\$26.75**

FIELD PACK FOR III. Fully portable. With rechargeable battery. No. 35A627. Johnson 250-845-1. Net Each. **\$69.95**

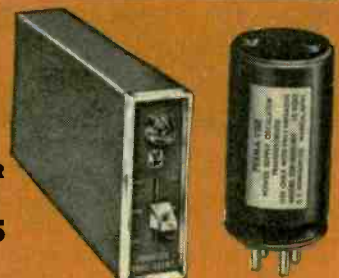
No. 35A628. Johnson 250-846-1 Charger. Net Each. **\$17.50**



5-CHANNEL
MESSENGER
\$99.95



MESSENGER
TWO
\$149.95



5 CHANNEL "MESSENGER" AT NEW LOWER COST

The original 5 watt 10-tube transceiver popularly known as Messenger I. Nationally famous for its penetrating signal and faithful performance. All components operate at only half their capability providing tremendous reserve power and dependability. Has squelch, automatic noise limiter, AVC. Size 5⅝ x 7 x 11⅝" deep. Sturdy steel cabinet, chrome front panel. With channel 9 transmit and receive crystals.

No. 35B215. Johnson 242-127. For 6 V. DC-115 V. AC. Net Each. **\$99.95**

No. 35C216. Johnson 242-128. For 12 V. DC-115 V. AC. Net Each. \$99.95

ACCESSORIES FOR TUBE MODEL MESSENGERS

No. 35B217. Pair Crystals for Messenger One. Specify Channel. Pair. \$5.95

No. 35B218. Pair Crystals for Messenger Two. Specify Channel. Pair. \$5.95

No. 35A592. Johnson 251-828 Dash Bracket. Net Each. \$2.50

No. 35B219. Johnson 251-830 Carry Handle. Net Each. \$1.50

TRANSISTORIZED PERMAVIB

Permanently replaces vibrator in Messenger and Messenger Two. For 12 V DC operation only. Quiet operating.

No. 35B224. Johnson 239-50-1. Net Each. **\$8.95**

GET MAXIMUM RANGE FROM YOUR TRANSCEIVER



NEW JOHNSON CB MATCHBOX. Connects between transceiver and coax feed line to antenna. Corrects impedance mis-match, eliminates standing waves, improves performance of equipment. Handles up to 15 watts power. 4 x 3¼ x 2⅝". No. 35B571.

Johnson 250-49. Net Each. **\$15.95**

NEW JOHNSON TENMETER. Small metered device that actually reads the standing wave ratio on 52 ohm coax feed line. Shows instantly when antenna system is not correct and allows tune-up to maximum power. 4½ x 2¾ x 2⅝". No. 35B570.

Johnson 250-849-1. Net Each. **\$14.95**



VOLTAGE CONVERTER

FOR POWERING 12 V.
TRANSISTORIZED CB SETS
ON 6 TO 32 V. DC

New In-Converter, a versatile, compact unit that provides 12 V. DC at 14 watts, 1 amp. max. and inverts polarity, if necessary, to allow CB installations on tractors, lift trucks, boats, etc. that have other than 12 V. DC power. Size 5¾ x 3¾ x 2½". No. 35C262. Johnson 239-120-1. Net. **\$22.95**

JOHNSON BUSINESS-INDUSTRIAL

2-WAY RADIO & RADIO PAGING SYSTEMS

B-A's Communications Dept. can assist you in selecting communications for in-plant use, for business vehicles, etc. Your inquiries will receive prompt attention from a competent staff of business communications specialists.

NEW CITIZENS RADIO EQUIPMENT FOR EVERYONE VERSATILE 2-WAY TRANSCEIVERS FOR MOBILE OR BASE

FOR BUSINESS, PROFESSIONAL & PERSONAL USE

NOW EVERY MOTORIST CAN HAVE 2-WAY RADIO
FOR EMERGENCY AND CONVENIENCE USE



COBRA V 5-WATT

**SOLID STATE CB
MOBILE TRANSCEIVER**

\$99⁹⁵

5 Crystal
Controlled
Channels
All Silicon
Transistorized



Features outstanding selectivity, sensitivity and talk-power, challenging the performance of units costing much more.

Has exclusive Dyna-Boost speech compression for increased sideband power, 3.5 watts RF output with 100% modulation and twin-pi output network for increased efficiency. Receiver sensitivity is better than 0.5 microvolts for 10 db signal to noise ratio. Selectivity, 6 db down at 3 KC bandwidth. Audio output at least 2.5 watts. Has adjustable squelch, automatic series gate noise limiter, solid state transmit/receive switching without relays. 12 silicon transistors, 7 diodes. Ceramic press-to-talk microphone. Long life components throughout. Miniature size, 2x6³/₄x9³/₄" D. Walnut grained front. With crystals for channel 11. Wt. 6 lbs.
No. 35B162. For 12 V. DC, negative ground. **Net Each.....\$99.95**

Transistorized
5-Watt Trans-
mitter and Re-
ceiving Con-
verter Works
With Your CB
Radio



\$49⁹⁵

Fits easily in glove compartment or under dash. Size 4³/₈x1¹/₂x5³/₄" D. So simple to connect that average installation time is only 5 minutes. Requires no modification or dismounting of the car radio and the only attachment to it is through the antenna connector.

Consists of a full power 5-watt transmitter section with 100% high level modulation and double pi-tuned output circuit to match any CB antenna, a receiving converter with tuned RF amplifier, 1/2 microvolt sensitivity and spotting signal for tuning in the communication channel on the car radio. 9-transistors, 2 diodes. Power source 12 V. DC, negative ground. With press-to-talk microphone and crystal for channel 9. Requires CB license for use.
No. 35C95. Wt. 3 lbs. **Net Each.....\$49.95**

A SENSATIONAL NEW VALUE IN CB



"SENTINEL-PRO" MODEL 779-A 23-CHANNEL 5-WATT

TRANSCEIVER

**FOR
MOBILE
OR
BASE**

Has New
"Range-Plus"
Compressor
For Greater
Punch



WITH ALL
CRYSTALS **\$169⁹⁵**

Nothing more to buy! 23-channel frequency synthesizing circuit provides full crystal receive and transmit. And what a receiver! Dual conversion superhet, 0.25 microvolt sensitivity for 10 db signal to noise ratio, excellent adjacent channel rejection, ± 3 KC fine tuning control, illuminated dual function S meter and relative power output meter, AGC circuit that prevents strong signal overload, 4 inch speaker, headphone jack (or an external speaker).

Also has PA/CB switch for 3.5 W. paging. Transmitter has pi-network tuning-loading controls, speech compression, modulation indicator, TVI filter, noise cancelling ceramic microphone.

Internal dual power supply is transistorized. For 117 V. 60 cy. AC or 12 V. DC, negative ground.

Cabinet size 4³/₄x12³/₈x7¹/₂"—vinyl finished steel. With mobile mounting bracket. Wt. 14 lbs.
No. 35B141. **Net Each.....\$169.95**

23-CHANNEL—ALL READY TO OPERATE



COBRA CAM-88 5-WATT DELUXE MOBILE AND BASE STATION CB TRANSCEIVER

Internal Transis-
torized 117 V.
AC/12 V. DC
Power Supply.



\$214⁹⁵

Leaves nothing to be desired! Has the exclusive B & K "Dyna-Boost" speech compressor for extended range, full 5 watts input, modulation indicator, plug-in microphone, double conversion superheterodyne receiver with sensitivity of 0.5 microvolts or better, selectivity 3 KC, series noise limiter, adjustable squelch, illuminated "S" meter, crystal synthesizer transmit/receive with delta-tune fine tuning control ± 3 KC, internal/external speaker connections, 3 watt output, switch for public address and front panel earphone jack.

In handsome, compact and rugged perforated steel case finished in blue-grey with recessed, aluminum front panel. Size 5¹/₄x13⁵/₈x7³/₈" deep. Wt. 15 lbs. With mobile bracket and power cables for 117 V. AC and 12 V. DC.
No. 35C370. Model CAM-88. **Net Each.....\$214.95**

FINE NEW 23-CHANNEL JOHNSON MESSENGER ALL SOLID STATE 5-WATT MODEL 323

Engineering superiority from E. F. Johnson brings you the exciting advantages of a frequency synthesized all 23 channel transceiver combining unbeatable communications performance and mechanical perfection.

This is no ordinary 5 watt CB set. The very latest transistor circuit design has been incorporated to provide a double conversion superheterodyne receiver with 0.5 microvolts sensitivity for 10 db signal to noise ratio and selectivity of 7 KC at 6 db down. Incorporates a crystal filter. Adjacent channel rejection and image rejection are exceptional. AVC, noise limiter and squelch circuits all operate smoothly, with great effectiveness and stability. Has dual function relative power output and S meter.

The transmitter section operates efficiently with more talk power than most others due to speech compression clipping and voice range audio circuits that are especially designed for maximum communications range. Has large, side mounted speaker, optional external speaker connection, PA function. Incorporates 24 transistors, 14 diodes.

Cabinet is aluminum, size 2¹/₂x8x8³/₄". Wired for optional tone alert. (Same as Messenger III.) For 12 V. DC negative ground operation. Mobile bracket supplied.

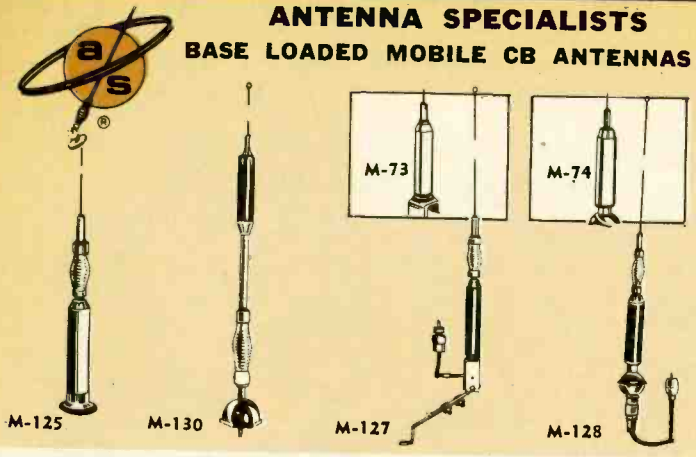
No. 35B167. Johnson 242-153-1. **Net Each.....\$229.95**
OPTIONAL 117 V. AC POWER SUPPLY. **\$29.95**
No. 35A625. Johnson 239-122-1. **Net Each.....\$29.95**

\$229⁹⁵



FINEST CITIZENS RADIO ANTENNAS AND ACCESSORIES

ANTENNA SPECIALISTS BASE LOADED MOBILE CB ANTENNAS



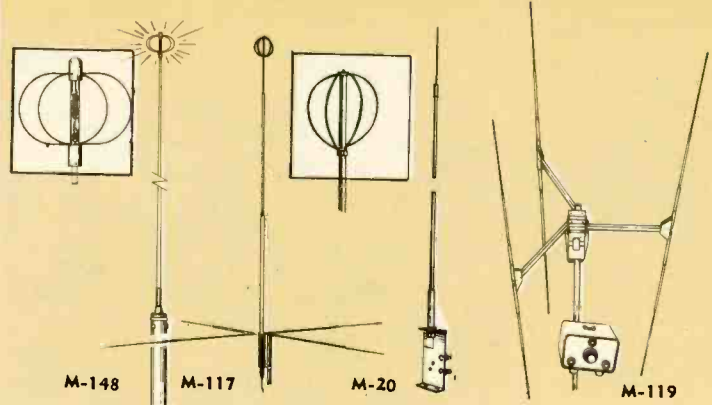
MODEL M125 FOR AUTO ROOFTOP
The standard of comparison among CB users. Features exceptional performance, excellent omni-directional signal pattern and high strength. Made for fast, snap-in mounting from the outside through a single 3/8" hole. Chrome plated brass fittings, stainless steel rod and spring. 46" overall height. With 20 ft. RG58U coax and PL259 connector.
No. 9A249. Model M-125 with Spring. Net Each **\$15.30**
No. 9A250. Model M-123. Same as M125, less spring. Net Each **\$13.35**

MODEL M-130 "MIGHTY-MITE"—ONLY 18" OVERALL
Handsome, smallest of all CB antennas, yet a very good performer. Beautifully constructed. Snap-in mounting like M-125 above. Center loaded coil design. With 20 ft. RG58U coax and PL259 connector.
No. 9A251. Model M-130. Net Each **\$11.05**

MODEL M-127 FOR TRUNK GROOVE MOUNT
Installs in seconds with no visible mounting holes in car. Requires only 2 tiny holes in trunk groove, adjusts to all cars, holds securely. Stainless steel rod and spring. Height 46". With 20 ft. RG58U coax and PL259 connector.
No. 9A252. Model M-127 with Spring. Net Each **\$17.00**
No. 9A253. Model M-73. Same as M-127, less spring. Net Each **\$13.60**

MODEL M-128 FOR COWL—FENDER—DECK
Same high performance base loaded design as the M-125 with standard auto style adjustable angle base. Holds antenna vertical when mounting surface is slanted 35° or less from horizontal. Height 46" overall. With 20 ft. RG58U coax and PL259 connector.
No. 9A254. Model M-128 with Spring. Net Each **\$18.15**
No. 9A255. Model M-74. Same as M-128, less spring. Net Each **\$13.60**

A/S BASE STATION CB ANTENNAS

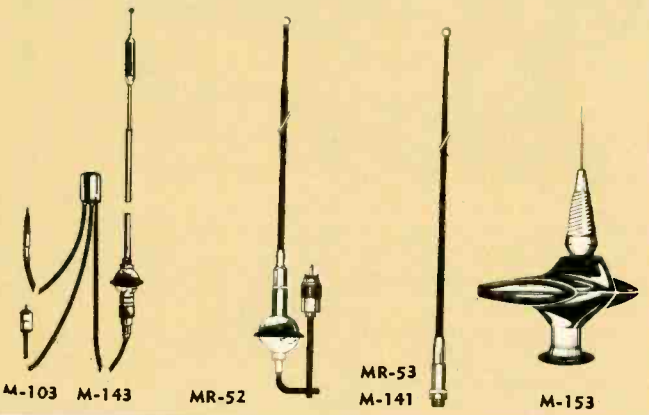


MODEL M-148 "SPEAKIN' BEACON" COAXIAL OMNI-DIRECTIONAL ANTENNA WITH VISUAL RF OUTPUT INDICATOR
Lights up when you transmit! RF indicator is up top side, built right into the famous A/S "stati-lite" ball and requires no separate electrical connection. Antenna is efficient coaxial design, all aluminum, 19 ft. 3" overall height. Built to take winds to 90 MPH. Produces exceptionally low angle of radiation, requires no horizontal radials and installs on your 2" O.D. vertical mast or pipe. Designed for 52 ohm coax feed.
No. 9A245. Model M-148. Net Each **\$29.95**

MODEL M-117 SUPER MAGNUM OMNI-GAIN GROUND PLANE GIVES 3.75 DB GAIN
One of the most popular and best-performing antennas made. Features low angle of radiation and an intensified signal pattern. Has rigid aluminum radiator, four 1/4 wavelength radials, direct electrical ground for lightning protection "stati-lite" ball of top for additional dissipation of static electricity, exceptional mechanical strength and very low wind resistance. Dual clamp fits pipe masts or side of building. 50 ohm match on all channels. Shpg. wt. 10 lbs.
No. 9A246. Model M-117. Net Each **\$29.95**

MODEL M-20 WINDOW MOUNTING ANTENNA
For apartments or other buildings, wherever a permanent roof-top antenna installation cannot be made. Has 9 ft. jointed aluminum radiator, heavy cadmium plated adjustable mount. Accepts PL259 coaxial connector.
No. 9A247. Model M-20. Less RG58U Lead. Net Each **\$8.75**

A/S POPULAR CB MOBILE ANTENNAS



MODEL M-103 CB/AM COMBINATION
Gleaming chrome cowl mount type for replacing existing auto antennas. Fits 7/8 to 1 1/8" mounting holes. Extends 31 to 46". Cable set with automatic coupler includes 5 ft. lead with PL259 connector for antenna, 1 ft. lead with plug for AM radio and 2 ft. lead with PL259 connector for CB radio. Has Grey center loaded coil.
No. 9A256. Model M-103. Net Each **\$16.15**

MODEL M-143 WITH ORANGE COIL
Same as M-103 except center loading coil is "international" orange. Distinctive and makes your car easy to spot
No. 9A257. Model M-143. Net Each **\$17.00**

MODEL MR-52 FIBREGLASS FOR COWL—FENDER
Tough 48" coil loaded antenna constructed of practically indestructible black fibreglass. A fine performer. With 5 ft. RG58U coax cable and PL259 plug.
No. 9A241. Model MR-52. Net Each **\$8.85**

48" FIBREGLASS WHIPS ONLY—WITH 3/8"-24 STUD
No. 9A242. Model MR-53. Black. Net Each **\$5.50**
No. 9A243. Model M-141. Orange. Net Each **\$6.35**

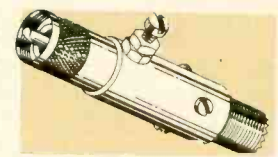
NEW MODEL M-153 "SOLID CIRCUIT" ANTENNA
Appealing new design and very fine performer, too. Printed circuit coil assures precise frequency coverage. Short 40" stainless steel whip and spring adjusts for finest possible tuning. VSWR is very low, 1.3 to 1 or less. Shunt fed, DC grounded, low static noise. For roof-top or deck. Snap-in mounting in single 3/8" hole. With RG58U coax cable and PL259 plug.
No. 9A244. Model M-153. Net Each **\$17.85**

A/S SCANNER DIRECTIONAL CB ANTENNA

ROTATE THE SIGNAL—NOT THE ANTENNA
7.75 DB FORWARD GAIN—23 DB REAR ATTENUATION
Has all-electronic beam control through use of three separate dipoles and a unique system of phase switching. Scan control unit at station operating position is a simple switch box, with indicator lights, that controls the glass sealed weatherproof phase switching relay up in the antenna. Indicator lights show beam direction.
Vertical elements are 17 1/2' long, mounted at 120° points on 3' radius circle. Built for rugged weather.
Requires 4 wire TV rotor type cable for scan control and 52 ohm coax lead for antenna. Shpg. wt. 18 lbs.
No. 9A248. Model M-119. Net Each **\$69.35**

"BLITZ BUG" COAX CABLE LIGHTNING ARRESTOR

Added lightning protection for receiving and transmitting equipment, ham gear, citizens band transceivers etc. using 52 ohm or 72 ohm coaxial antenna lead.
Threaded for standard PL259 and SO239 fittings.
No. 19A145
Cush Craft LAC-1. Net Each **\$3.95**



HYGAIN DCGK STATIC ARRESTOR

A DC path grounding choke for application between the driven element and ground on all types of CB antennas to drain away static electricity on receive function. Actually reduces average noise level by 10 to 20 db. 3/4x1 1/2" aluminum clad.
No. 9A59. Net Each **\$1.65**



POPULAR NEW-TRONICS CB ACCESSORIES

MODEL CB-52-T TRANSICHECK
Easy-to-use instrument for checking CB transmitter operation. Installs in 52 ohm coax line to antenna. Measures power output, indicates transmitter resonance, indicates proper adjustment of antenna loading capacitor, measures SWR on feed line. Has SO239 connectors, sensitive microammeter. Made in USA. Wt. 1 lb.
No. 35B514. Net Each **\$19.95**

MODEL PL-52 DUMMY LOAD
Attaches to CB transceiver in place of antenna. Needed for making transmitter adjustments. High impact plastic with standard PL259 connector.
No. 29B42. Net Each **\$1.49**



HY-GAIN CITIZENS RADIO ANTENNAS AND ACCESSORIES

Hy-Gain "Topper" Mobile Antennas

Outperform Bumper-Mounted 1/4 Wave Length Whips

THE TOPPER DESIGN CONCEPT

- Most efficient tunable top-loaded design.
- Mechanically rugged—almost indestructible.
- 23 channel broad band performance.
- 52 ohm impedance match for coax line.
- Tiny solid-state encapsulated coil, mounted high on the antenna—the very best location for maximum signal radiation and pickup.



TOPPER COIL & TUNABLE WHIP

COMPLETE "TOPPER" ANTENNA PACKAGES

- ① Model TRQS SHORTY ROOF TOPPER. Convenient short length mobile antenna for optimum performance roof-top mounting. Height only 19". Stainless steel radiator, leak-proof base mount of molded high impact cyclocac plastic. With stainless steel shock spring, 16 ft. RG58 coax and PL-259 connector. No. 9A206. Wt. 2 lbs. Complete Package..... **\$15.50**
- ② Model TQRDX ROOF TOPPER. Overall 50" height. Highly efficient, outperforms usual 1/4 wave whips. Deluxe antenna, stainless steel shock mount with molded base, 16 ft. RG58 coax, PL-259 connector. No. 9B118. Wt. 3 lbs. Complete Package..... **\$16.95**
- ③ Model TQRMB MAGNA TOPPER. Height 28". Installs instantly without hole through roof. Powerful magnetic base holds at speeds up to 80 MPH. Efficient electrical design assures top performance. With 16 ft. RG58 coax and PL-259 connector. No. 9A51. Wt. 3 lbs. Complete Package..... **\$14.95**

COWL OR FENDER TOPPER—Complete System

Model TMCQ. Automotive type ball mount replaces regular auto antenna. Non-telescoping 50" stainless steel flexible antenna, 16 ft. RG58U coax cable and PL259 connector. Wt. 2 lbs. No. 9A207. Complete Package..... **\$12.95**

TRUNK MOUNTED "JIFFY TOPPER"—Complete System

Model TJCQ. Non-telescoping 50" stainless steel flexible Topper antenna with jiffy mount base that fits under lip of trunk or hood with no external screws. Includes 16 ft. RG58U coax cable and PL259 plug. No. 9A208. Wt. 2 lbs. Complete Package..... **\$13.95**

COWL OR FENDER "DUO-TOPPER" SYSTEMS

For both AM and CB Radios—Replaces Auto Antenna Model TTMPQ. Automotive type ball-mount fits in place of regular radio antenna. Extends to 50", telescopes to 28". Comes with new solid-state coupler to split signals to radios without switching, all necessary cables and plugs. With instructions.

No. 9A190. Wt. 3 lbs. Complete Telescoping AM-CB Antenna Pkg. **\$14.95**

Model TMPQ. Non-Telescoping Duo-Topper System. Antenna is 50" stainless steel, flexible. Otherwise like above. Wt. 3 lbs. No. 9A220. Complete Non-Telescoping AM-CB Pkg..... **\$14.95**

MARINE TOPPER—Complete System

Model TQMA. For any kind of boat... metal, wood, fiberglass. Operates independent of ground system. With special boat mount and quick-disconnect fitting for instant removal. Includes 12 ft. coax and PL259 plug. Wt. 3 lbs. No. 9A191. Complete Package..... **\$19.95**

HY-GAIN TOPPER ANTENNA WHIP ONLY

Less cable kits. See explanation of Topper design above. 46" Top Loaded Stainless Steel Whip, 3/8-24 Stud. 1 lb. No. 9A189. Model TQW. Each..... **\$6.96**

HY-GAIN CB-AM COUPLER AND CABLE HARNESS

For use with any CB antenna. Splits signals for AM and CB radios without switching, making single antenna serve dual purpose. Has RG58U cable with PL 259 plug attached for antenna and 2 ft. cables for CB and AM radio with PL259 and standard antenna plug attached. Wt. 1 lb. No. 9A28. Model CPR-2. Net Each..... **\$6.25**

TOPPER CLOSE RANGE WHIP ATTACHES DIRECTLY TO TRANSCEIVER

Designed for mounting on standard coaxial output connector. Chrome plated 36" whip telescopes to 18". Top loading coil completely encased in plastic. Has PL259 coaxial connector for either top or back of set. Shpg wt. 1 lb. No. 9A192. Hy Gain TQCW. Net Each..... **\$7.95**



BASE STATION ANTENNAS FOR CB

FABULOUS
Hy-gain
CLR II

\$29⁹⁵
NET

1000's
IN USE
EVERY-
WHERE

- Outperforms other omni-directional base station antennas.
- 8 db gain in all directions.
- High strength aluminum construction.



CLR-11 COLINEAR. Embodies every significant electrical and mechanical innovation. Maximum legal radiator height of 19 ft. 10 in. lowers the angle of radiation directing a maximum distance-reaching signal along the horizon. Radiator and 9 ft. radials are all high strength seamless aluminum. Has tough styran insulators and iridized weatherproof double grip mast support. DC grounded for lower noise, from 6-20 db gain in improved signal-to-noise ratio. No. 9A54. Model CLR-11. Wt. 10 lbs. less coax and mast. Net Ea.... **\$29.95**

GCLR-11 GOLDEN COLINEAR. Operationally same as CLR-11. Entire antenna of heavy wall aluminum and massive heavy gauge steel grid iridized to Mil. specs. for lifetime maintenance free service. Withstands winds to 100 MPH. Perfect 50 ohm impedance match. Less coax and mast. No. 9A183. HyGain Model GCLR-11. Wt. 15 lb. Net Each..... **\$39.95**



NEW! ROTATABLE CB BASE ANTENNAS HY-GAIN 4, 6 AND 10 ELEMENT DUO-BEAMS DELIVER MORE TALK POWER THAN ANY OTHER

Antenna arrays that tremendously increase effective range and power of CB signals by concentrating them into a narrow "ray-like" pattern. Assembly consists of one boom holding two vertically oriented beams, electrically coupled for a single 52 ohm feed line. Rugged all-aluminum construction to withstand heavy weather. Mount on CDR Type TR2C or similar rotor; CDR TR44 or HAM-M heavy duty rotor recommended on 2 larger arrays in high wind areas. Less rotor, mast, 52 ohm lead. *Power advantage is in comparison to ground-plane or vertical antenna with 5 watt transmitter input. Example: Duo-Beam 10 makes a 5 watt signal sound like 120 watts!

Stock No.	HyGain Model	*Power Advantage	Boom Length	Wt. Lbs.	Net Each
9A209	Duo Beam 4	42 Watts	3'1"	16	\$39.95
9A210	Duo-Beam 6	93 Watts	12'2"	30	69.95
9A211	Duo-Beam 10	120 Watts	18"	59	99.95

CBV 1/2 WAVE LENGTH GAIN TYPE GROUND PLANE. Radiator, 18 ft. overall height, produces gain in all directions through lowering the angle of radiation. Grounded construction decreases noise, delivers apparent 6 db receiving gain. All-aluminum 1/2 wave length element and 52" radials withstands heavy weather. Steel parts iridized to MIL specs. Less coax cable and mast. No. 9A151. HyGain Model CBV. Shpg. wt. 9 lbs. Net Each..... **\$19.95**

CBGP 1/4 WAVE LENGTH GROUND PLANE. Delivers full signal in all directions at lowest possible cost. Equipped for DC ground to lower noise level by preventing static build-up. Has HyGain exclusive Beta match for 52 ohm feed line. Taper swaged seamless aluminum, tough insulators, weatherproofed hardware. Shpg. wt. 6 lbs. Less coax cable and mast. No. 9A53 HyGain Model CBGP. Net Each..... **\$9.95**

CB3 BEAM ANTENNA. Forward gain of 8 db, front-to-back ratio 20 db. Mounts either horizontal or vertical. Three elements, factory pre-adjusted and matched for 52 ohm feed. Taper swaged aluminum elements, steel boom. Less coax, mast and rotor (use TV rotor). Wt. 12 lbs. No. 9A150. Hy Gain Model CB3. Net Each..... **\$19.95**

CB BALUN MATCH FOR IMPROVED BEAM OPERATION

Installs at the antenna. Improves front-to-back ratio of beams, helps eliminate TVI and improves radiation pattern of antenna. Recommended for the HyGain beams above as well as other makes. No. 9B119. HyGain Model BN-27. Net Each..... **\$9.98**

HIGH POWER CITIZENS RADIO WALKIE-TALKIES!

MODEL
13-133B

A PORTABLE POWERHOUSE!
MIDLAND
**FULL 2-WATT
DUAL CHANNEL
TRANSCEIVER**



\$79⁹⁵
EACH

- 13 transistors.
- Tuned RF stage.
- Full variable squelch.
- Automatic noise limiter.
- External antenna jack.

Compact, versatile citizens band transceiver with 20 times the power of the best 100 MW walkie-talkie. Enough power for all personal and business uses—range can be up to 15 miles between like units; more when used with 5 watt base station. Equipped with jacks for external antenna and external microphone. In rugged metal case, 8 1/2"x4 1/2", with zippered leather carrying case and shoulder strap. Optional D cell battery back maintains full power for longer mobile service. Outfit includes strong 9 section 62" telescoping antenna, earphone with pouch, Ch. 7 crystals. Requires 8 pencil batteries or other power source below.
No. 35C266. Model 13-133B. Wt. 36 oz. Net Each **\$79.95**

ACCESSORIES FOR MODELS 13-133B AND 13-131



- No. 35A325. Set of 8 Pencils.....\$1.12
- No. 35B492. Heavy Duty 117 V. AC Adaptor. 2 lbs. Each.....\$17.95
- No. 35C493. Leather Pouch for 8-D Cell Batteries. Each.....\$7.95
- No. 35B268. 12 V. Neg. Ground Auto Power Cord. Each.....\$4.87
- No. 35C494. External Microphone. Each.....\$4.87
- No. 35B269. Nickel-Cadmium 12 V. Battery. Fits inside. Each.....\$16.50
- No. 35B270. Charger for Ni-Cadmium battery. 117 V. AC. Each.....\$6.50
- No. 35C495. Plug-In Crystals, Specify Channel. Pair.....\$5.50
- No. 35B491. Optional Coil-Loaded 13 1/2" Antenna. (13-133B only). Ea.....\$9.50

MODEL
13-131

**NEW 1 1/2 WATT 2-CHANNEL
MIDLAND
TRANSCEIVER**

**WITH CALL
SIGNAL**

\$77⁵⁰

- Powerful 13 transistor chassis.
- Rugged all metal cabinet.
- Battery condition meter.
- Full variable squelch.
- Range up to 12 miles.
- External antenna jack.
- Many handy accessories.

At least 15 times more powerful than most walkie-talkies. Has tone call system allowing signaling through closed squelch of receiving unit. Provides the extra calling and communications range so often needed. Comes with heavy leather fitted case, size 9x3 1/4x2 1/4", channel 11 crystals, heavy duty 11-section 64" telescopic antenna. Requires 8 pencil batteries. Wt. 2 1/2 lbs.
No. 35C265. Model 13-131. Net Each **\$77.50**

SEE POWER SOURCES AND ACCESSORIES AT LEFT

FAMOUS FOR PERFORMANCE AND FINE QUALITY

**JOHNSON 1 1/2-WATT HIGH-POWERED
PERSONAL MESSENGER 2-WAY RADIO**



- Range 3 to 5 miles.
- Automatic noise limiter.
- Automatic volume control.
- Adjustable squelch.
- Tuned RF amplifier.

Exclusive Johnson 11-Transistor circuit, powered by 8 penlight cells in plug-in compartment, or by optional long-life nickel-cadmium rechargeable battery has many advantages giving great range and reliability. Effectively reduces ignition and electrical noise, prevents distortion at close range and brings in weak stations over max. distance. Quiet control silences receiver on standby reducing battery drain. In rugged, high-impact case 8" H, 3 1/2" W, 2" T. Strap handle. With plug-in crystals for 1 channel, less batteries. License required. Wt. 23 oz.
No. 35B207. Model 242-102. Net Each Unit **\$129.50**

ACCESSORIES

- Nickel-Cadmium Battery. With Charger for 115 V. 60 cy. AC.
- 35A333. Model 250-804. Net Each.....\$19.95
- 35A325. Set of 8 "Z" Cell Batteries. Net.....\$1.12
- 35A334. Private Earset. Net.....\$4.50
- 35B328. Leather Carrying Case. Net.....\$8.50
- 50A66. Crystals, Specify Channel. Pair.....\$5.90

AUTOMOBILE RADIO FREQUENCY NOISE SUPPRESSORS

SPRAGUE SK-1 DELUXE SUPPRESSIKIT



Effectively stops radio noise from auto or boat engines using 6 or 12 V. 2 pole generators. Contains heavy duty thru-pass capacitors with current ratings up to 60 amperes, effective to 400 MC, special field R-C filter, shielded armature and field leads, step-by-step instructions. 5 basic parts in all. Time saving and assures better results. Wt. 2 lbs.
No. 35B309. Net Each **\$17.85**

NEW SPRAGUE ALTERNATOR SUPPRESSIKITS

Exact fitting mechanical and electrical design for eliminating the radio interference whine peculiar to alternators. Fits cars through '65.
No. 35C350. Sprague SK-20. Ford Vehicles. Net Each.....\$26.03
No. 35C351. Sprague SK-30. GM Vehicles. Net Each.....\$24.14

SPRAGUE "HYPASS" FILTERS

TWO-TERMINAL SERIES FEED THRU—CASE GROUNDING

Popular for quieting ignition, generator and regulator noises in mobile radio installations and for by-passing AC input to transmitting equipment. Type 80P3 has flanged bulkhead mtg., illustrated at far left. All others bracket mtg. Average wt. 2 oz.

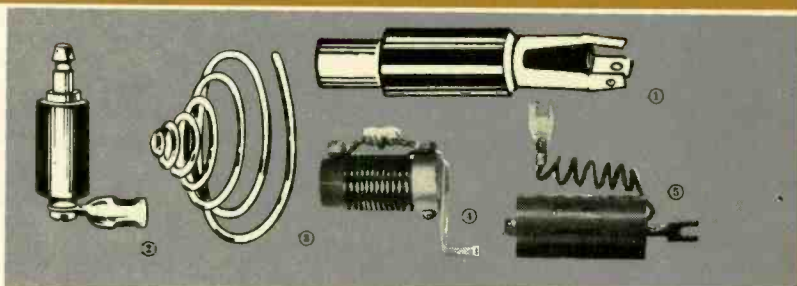


Stk. No.	Type	Mfd.	Amps.	Voltage	Dia.	Length	Each
15B988	48P18	.5	40	50 V. DC	1	1 1/2	\$2.23
14B256	48P9	.1	20	250 V. AC	1 1/2	1 1/2	1.53
15B987	80P3	.1	20	600 V. DC	1 1/2	1 1/2	1.73

MAGNETIC MOBILE MIKE HOLDER



Powerful ceramic magnet secures bracket to any steel surface, on transceiver or auto dash. Fits all standard microphones equipped with hanger button.
No. 22A400. Special Each **95c**



- ① MASTER DISTRIBUTOR SUPPRESSOR. Sure cure for most all ignition noises. For use separately, or in severe cases, with individual suppressors.
No. 19B203. Net Each.....57c 10 Lots, Each.....48c
- ② HIGH EFFICIENCY SPARK PLUG SUPPRESSOR.
No. 19A208. Each.....41c 10 Lots, Each.....36c
- ③ WHEEL STATIC ELIMINATORS. Button makes noise free contact.
No. 19A197. One required for each front wheel. Net Each.....9c

AUTO RADIO IGNITION NOISE ELIMINATOR KITS

- In handy Kits, the needed suppressors, condensers, etc., for a complete installation. Easy to install by anyone.
- 19A171. For 8 Cyl. Cars. Per kit **\$2.97**
- 19A172. For 6 Cyl. Cars. Per kit **\$2.25**
- ④ Voltage Regulator Filter. For eliminating radio interference created by automobile generator voltage regulator contacts. For 6, 12, 24, 32 volt systems. Installs on automobile voltage regulator.
No. 29B43. New-Tronics VR-30. Net Each **\$2.95**
- ⑤ Generator Noise Filter. Adjustable. Stops noise in mobile gear caused by generator brushes. For CB, amateur, industrial mobile and aircraft use. For 6, 12, 24 or 32 volt systems. 30 A. rating.
No. 9A33. New-Tronics 3-30. Range 3-30 MC. Net Each **\$2.95**

B-A's PHOTO EQUIPMENT MUST SATISFY OR YOUR MONEY BACK

INVITATION! Please examine and use any of B-A's photo equipment in your home. If for any reason you are not completely satisfied, return it at once in original factory carton and B-A will promptly exchange, repair or refund your money (less only postage) whichever you prefer.

B-A's Photo Department concentrates on bringing you outstanding

photographic values at better than competitive prices . . . however, value isn't determined by price alone, but by the very careful analysis of product-quality and performance.

Every major photographic item B-A offers, first has been critically evaluated by the head of B-A's Photo Dept. whose recommendations are based on 28 years experience.

FULLY AUTOMATIC CdS ELECTRIC EYE 35MM CAMERA

B-A "AUTO-EE 1.8"

NOWHERE IN THE U.S. CAN YOU BUY SO MUCH QUALITY AND SO MANY FEATURES FOR SUCH A LOW PRICE!

THIS CAMERA AT THIS PRICE IS BEYOND COMPARISON

\$49⁹⁵

B-A EXCLUSIVE

NO MONEY DOWN

Camera and Case



Accepts standard 20 or 36 exposure 35 MM black & white or color film.

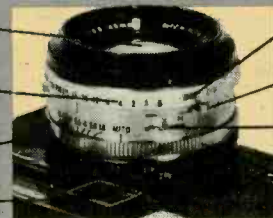
FULL AUTOMATION AND MANUAL CONTROLS VISIBLE FROM TOP

Supernar 45 MM F1.8 amber coated lens.

Citizen MVE full sync MX 11 speed click stop shutter. 1 full second to 1/500th & B.

Rapid Focus Lever—1/4 turn covers full range 26" to infinity.

CdS Meter cross-coupled to lens and shutter.



ASA range 10 to 400.

Built-in Timer 2 to 12 seconds variable delay.

M-X sync. lever.

Lens Diaphragm Ring allows infinite settings from F1.8 to F16 plus automatic.



DELUXE LEATHER EVEREADY CASE

Single window range-finder shows lens settings bright line framing.



PRICED TO SAVE YOU MONEY BECAUSE OF B-A's VOLUME BUYING—MADE IN JAPAN FOR B-A BY ONE OF THE LEADING PRODUCERS OF FINE PHOTOGRAPHIC EQUIPMENT AND TESTED TO OUR OWN HIGH STANDARDS

B-A "AUTO-EE 1.8" 35 MM CAMERA is precision engineered and embodies the latest technical developments in camera design with the CdS Meter coupled to lens diaphragm and shutter. B-A's "Auto-EE 1.8" determines optimum combination of shutter speed and lens F-stop, and adjusts itself for correct exposures instantly and automatically (with manual override if you desire to set any combination of lens and shutter speeds).

The **SUPERNAR super-speed 45 MM F1.8 amber-coated lens** assures you of needle-sharp and well contrasted pictures in either color or black and white.

FAMOUS CITIZEN 11 SPEED CLICK-STOP SHUTTER B (time exposures), 1, 1/2, 1/4, 1/8, 1/15, 1/30, 1/60, 1/125, 1/250, and 1/500 second is M-X synched at all speeds for popular M type flashbulbs as well as electronic flash. Has standard PC flash fitting, also features built-in timer with variable delay from 2 to 12 seconds. **ASA FILM SPEED** 10 to 400 and DIN range 11 to 27.

SINGLE WINDOW COUPLED RANGE-VIEWFINDER allows instant and critical focusing utilizing the most efficient superimposed type rangefinder system. The viewfinder features luminous framing and parallax correcting luminous indica-

tors. The area covered by the viewfinder is larger than the luminous framed area covered by the lens enabling you to follow sports action in your viewfinder—then when subject moves within the luminous frame—snap your picture. Also visible in the viewfinder are your lens settings indicated by F stops, this setting varies and sets itself automatically as changing light hits the super-sensitive CdS meter cell and computes the proper exposure.

OTHER OUTSTANDING FEATURES: • Meter turns itself off after shutter is released, conserving battery power. • Single stroke rapid advance lever advances film, counts exposures, charges the shutter and switches on the current of the exposure meter. • Oversized easy-grip focusing lever. • Foldaway rewind crank. • Automatic exposure counter. • Hinged back cover. • Snap-away deluxe black leather Eveready case with shoulder strap. • Lens cap. • Mercury battery. • Standard accessory shoe. • Cable release and tripod sockets. • Push and stay rewind button.

Complete with instruction book, registration and guarantee card. Shpg. wt. 4 lbs. No. 61A47 B-A "Auto-EE 1.8" & Case.

Special..... **\$49.95**



One-Piece Transistorized Unit

Fits any camera having "X" flash...also Polaroid UP TO 150 FLASHES ON JUST 2 "C" CELLS—WORKS ON AC TOO!

HURRY! HURRY! QUANTITY LIMITED

ULTRABLITZ ELECTRONIC FLASHGUN

B-A's SPECIAL PURCHASE PRICE

\$19⁹⁵

Built-In Mtg. Bracket, Shutter Cord, Plus AC Cord

Most desirable miniature transistorized type one-piece unit disperses light at 70° horizontal and 40° vertical. Has powerful 40 watt seconds and weighs only 13 3/4 ozs. Professionals, when photographing people, always use flash OUTDOORS to fill-in the harsh shadows cast by Sunlight—Now at a fraction of 1c per flash YOU TOO can get professional results if you use this Flashgun outdoors as well as inside.

FEATURES that leave nothing to be desired: Lightweight and quiet operation recycles in 8-10 seconds. 5600° K color temperature balanced to all daylight color films. **Flashes 150 times per set of 2 "C" cell batteries at the equivalent of 1/600th second stopping any action.** Approximate Guide No's.: 50 with Kodachrome 11, 56 with Kodacolor, Anscochrome, and Ektachrome (64 with the new X films), 125 with High Speed Ektachrome. **Housing** is tough, durable hi-impact thermoplastic. **King-size ready light built-in.** Exposure guide built-in. Shpg. wt. 2 lbs. No. 60A393. Super Special, Each..... **\$19.95**

ENERGIZER "C" CELLS. Give up to 150 flashes. No. 21A133. Eveready E93 (takes 2). Each..... **39c**

NEW HI-SPEED INSTAMATIC FILMS IN
ECONOMICAL 20-EXPOSURE CARTRIDGES
HI-SPEED EKTACHROME AND KODACOLOR X

SAVE! KODAK FILM

FACTORY FRESH! ORIGINAL UNBROKEN CARTONS

PRICES INCLUDE

Quality Developing

MAILED DIRECTLY
TO YOU

COAST-TO-COAST
PROCESSING LABS

NEW FASTER,
FINER SERVICE

LATEST ELECTRONIC
AUTOMATION...

IN-LAB TIME ONLY
ONE DAY

NEW LOW PRICE

\$2.54

3 Lots
Each
10 Lots Each \$2.39
35 MM 20 Exp.

NEW LOW PRICE

\$2.96

3 Lots
Each
10 Lots Each \$2.79
8 MM Roll



COMPARE B-A's LOW, LOW PRICES HUGE SAVINGS ON PREPAID PROCESSING MAILERS FOR KODACHROME

FOR NEW KODACHROME-X KODACHROME II,
EKTACHROME-X, REGULAR AND HI-SPEED,
DYNACHROME AND ANSCHROME

If any of the above films have been purchased less
processing from B-A or any place else—you may
buy the prepaid process mailers listed below and
save \$\$\$.

Each mailer is good for prepaid processing of one roll.

No.	Mailer	Net Each	3 @ Each	10 @ Each
60A205	8 MM 25' Roll or Super 8 Kodapak Cartridge	\$0.99	\$0.88	\$0.84
60A206	8 MM, Magazine	.39	.34	.32
60A207	16 MM, 100' Roll	2.39	2.20	2.09
60A208	16 MM, Magazine	.39	.25	.19
60A209	35 MM & 126-20-Exp.	.99	.88	.84
60A204	35 MM-36-Exp.	1.59	1.46	1.39
60A319	620, 120, 127 & 126-Instamatic	.94	.88	.84

POLAROID LAND PICTURE FILM



Type 47 or 107

\$2.10

EACH 5 LOTS

Black & White in 10
Sec., Color in 60 Sec.
ands.

**SWINGER
SPECIAL**
Black & White
8 Exposure
Rolls

61A46. Each...\$1.77
5 Lots, Each...\$1.69

Stock No.	Type and ASA Speed	Pictures	Net Each	3 @ Each	5 @ Each
60B173	47-3000	Black & White	\$2.33	\$2.19	\$2.10
60B172	42-200	Black & White	2.33	2.19	2.10
60B171	37-3000	Black & White	1.78	1.69	1.60
60B170	32-400	Black & White	1.78	1.69	1.60
60A347	48-75	Color Roll	4.20	3.94	3.78
60A361	107-3000	B & W Pack Color Pack	2.33	2.19	2.10
60A362	108-75	Color Pack	4.61	4.33	4.15

ASA
64

EKTACHROME-X

NEW HI-SPEED

DAY-ASA
160
FLOODS
125

PRICES INCLUDE
ROLL OF FILM,
PROCESSING AND
MOUNTED SLIDES

DUAL PURPOSE FILM
DAYLIGHT OR FLASH
(Blue Bulbs or Strobe)



MOVIE KODACHROME FILMS

TYPE II ASA 25 DAYLIGHT
ASA 40 TYPE "A" with Floods

INCLUDES PROCESSING

Day Kodachrome II Stk. No. Kodak No.	Type A Kdchr. II Stk. No. Kodak No.	Description	Net Each	3 @ Each	10 @ Each
60A326 K 459	60A327 K A459	8 MM 25' Double Roll	\$3.28	\$2.96	\$2.79
60B332 KA464 Use	Outdoors & Indoors	Super 8 MM 50' Kodapak Cartridge	3.76	3.39	3.19
60A328 K 460	60A329 K A460	8 MM 25' Double Mag.	4.60	4.11	3.85
60B242 K 449	60B243 K A449	16 MM 100' Roll	11.40	10.24	9.63
60B244 K 447	60B245 K A447	16 MM 50' Mag.	7.82	6.89	6.42

35MM & 126 KODACHROME

TYPES II AND X DUAL PURPOSE FILM
DAYLIGHT OR BLUE FLASH

PRICES INCLUDE PROCESSING
AND MOUNTED SLIDES

Stk. No.	Kodak No.	ASA	Description	Each	3 @ Each	10 @ Each
60A330	K 135-20	25	20 Exp. Kodachrome II	\$2.80	\$2.54	\$2.39
60A331	K 135-36	25	36 Exp. Kodachrome II	4.19	3.80	3.58
60B257	KX135-20	64	20 Exp. Kodachrome X	2.80	2.54	2.39
60B258	KX135-36	64	36 Exp. Kodachrome X	4.19	3.80	3.58
60B280	KX126	64	20 Exp. Kodachrome X Instamatic	2.81	2.54	2.39

35MM & 126 EKTACHROME

TYPE X AND HIGH SPEED

PRICES INCLUDE PROCESSING
AND MOUNTED SLIDES

Stk. No.	Kodak No.	Description	ASA	Flash	Each	3 @ Each	10 @ Each
60B271	EX135-20	35 MM Day or Flash, 20 Exp.	64	Blue	\$3.00	\$2.71	\$2.55
60B272	EX135-36	35 MM Day or Flash, 36 Exp.	64	Blue	4.43	4.01	3.78
60A224	EH135-20	35 MM Hi-Speed Day, 20 Exp.	160	Blue	3.33	3.01	2.83
60A359	EH135-36	35 MM Hi-Speed Day, 36 Exp.	160	Blue	4.91	4.43	4.18
60A225	EHB135-20	35 MM Hi-Speed "B", 20 Exp.	125	Flood	3.33	3.01	2.83
60B282	EX126-20	Instamatic Ekta X 20 Exp.	64	Blue	3.00	2.71	2.55
60B231	EH126-20	Instamatic Hi-Speed Day, 20 Exp.	160	Blue	3.33	3.01	2.83

MOVIE KODACHROME FILMS

TYPE II ASA 25 DAYLIGHT
ASA 40 TYPE "A" with Floods

WITHOUT PROCESSING

Day Kdchr. II Stk. No. Kodak No.	Type A Kdchr. II Stk. No. Kodak No.	Description	Net Each	3 @ Each	10 @ Each	20 @ Each
60A335 K 459	60A336 K A459	8 MM 25' Double Roll	\$2.34	\$2.08	\$1.95	\$1.87
60B325 KA464 Use	Outdoors & Indoors	Super 8 MM 50' Kodapak Cart.	2.82	2.51	2.35	2.26
60A337 K 460	60A338 K A460	8 MM 25' Double Mag.	4.24	3.77	3.53	3.39
60B233 K 449	60B234 K A449	16 MM 100' Roll	9.05	8.04	7.54	7.24
60B235 K 447	60B236 K A447	16 MM 50' Mag.	7.05	6.64	6.23	5.98

35MM KODACHROME II AND X EKTACHROME-X AND HI-SPEED

DUAL PURPOSE 35 MM FILMS FOR DAYLIGHT OR BLUE FLASH
(Kodak Recommends Blue Bulbs or Electronic Flash)

WITHOUT PROCESSING

Stk. No.	Kodak No.	ASA	Description	Each	3 @ Each	10 @ Each	20 @ Each
60A333 K 135-20	25	20 Exposure Kodachrome II	\$1.86	\$1.66	\$1.55	\$1.49	
60A334 K 135-36	25	36 Exposure Kodachrome II	2.63	2.34	2.19	2.10	
60B255 KX135-20	64	20 Exposure Kodachrome X	1.86	1.66	1.55	1.49	
60B256 KX135-36	64	36 Exposure Kodachrome X	2.63	2.34	2.19	2.10	
60B269 EX135-20	64	20 Exposure Ektachrome X	2.06	1.83	1.71	1.64	
60B270 EX135-36	64	36 Exposure Ektachrome X	2.87	2.55	2.39	2.30	
60A291 EH135-20	160	20 Exposure Hi-Speed Ekta.	2.39	2.13	1.99	1.91	
60A358 EH135-36	160	36 Exposure Hi-Speed Ekta.	3.35	2.97	2.79	2.68	
60A292 EHB135-20	125	20 Exposure Hi-Sp. Ek.-Floods	2.39	2.13	1.99	1.91	

BLACK AND WHITE FILMS

PLUS NEW INSTAMATIC SIZE 126

WITHOUT PROCESSING

Stk. No.	Description	Each	3-19 Each	20 up Each	Stk. No.	Description	Each	3-19 Each	20 up Each
60A296	35MM Plus X, 20 Exp.	\$0.85	\$0.66	\$0.60	60A288	620 Ver. Pan	\$0.55	\$0.43	\$0.39
60B300	35 MM Plus X, 36 Exp.	1.15	.90	.81	60A289	120 Ver. Pan	.55	.43	.39
60A284	35 MM Tri X, 20 Exp.	.85	.66	.60	60B302	120 Tri-X	.65	.51	.46
60B301	35 MM Tri X, 36 Exp.	1.15	.90	.81	60A290	127 Ver. Pan	.55	.43	.39
60A285	35 MM Panof. X, 20 Exp.	.85	.66	.60	60B276	126 Ver. Pan	.65	.51	.46

KODACOLOR-X

ASA 64 WITHOUT PROCESSING

Stk. No.	Kodak	Each	3 @ Each	10 @ Each	20 @ Each
60A295	CX127-12 Exp.	\$1.10	\$0.98	\$0.92	\$0.88
60A294	CX120-12 Exp.	1.10	.98	.92	.88
60A293	CX620-12 Exp.	1.10	.98	.92	.88
60B277	CX126-12 Exp.	1.20	1.06	1.00	.96
60B229	CX126-20 Exp.	1.67	1.49	1.39	1.34
60B274	35 MM-20 Exp.	1.67	1.49	1.39	1.34

MAILERS FOR KODACOLOR

PRICES INCLUDE DEV. AND 12, 3 1/2 x 3 1/2
COLOR PRINTS OR 20 ON CX126-20
OR 20, 2 1/2 x 3 1/2 ON 35MM KODACOLOR

Stk. No.	For Kodak	Each	3 @ Each	10 @ Each
60A318	620, 120, 127, 126	\$2.63	\$2.45	\$2.33
60A283	35 MM, CX126-20	2.76	2.58	2.45

PLEASE DO NOT MAIL FILM TO BURSTEIN-APPLEBEE CO.

ASA 25 Daylight
ASA 40 Type "A"

DYNACHROME COLOR FILM

WITHOUT PROCESSING. Processing Mailers listed upper left corner of page.

Stk. No.	Description	Each	3 @ Each	10 @ Each	20 @ Each
60B210	8 MM 25' Dbl. Roll Movie Film "Day"	\$1.74	\$1.65	\$1.55	\$1.49
60B211	8 MM 25' Dbl. Roll Movie Film Indoor "A"	1.74	1.65	1.55	1.49
60B212	35 MM 20 Exp. Day or Flash (Blue Bulbs)	1.48	1.41	1.33	1.27
60B213	35 MM 36 Exp. Day or Flash (Blue Bulbs)	1.99	1.89	1.78	1.70

Safe-Lock[®] MOVIE AND STILL CAMERA TRIPOD

Manufactured by SAFE-LOCK INC.

"FLIP-LOCK" LEG CONTROL

SPECIAL PURCHASE

\$18.86
FLIP-LOCK MODEL "FL"

- Permits eye level viewing with reflex.
- Reversible center column for low angle photos.
- Use with scopes.
- Multi-position rack-over pan head.
- Legs: outer 1" dia., inner 7/8" dia. Center column: 1" dia. can be inverted for low angle shots.

RECOMMENDED FOR ALL MOVIE AND STILL CAMERAS UP TO 4x5"

- New Flip-Lock leg controls put all adjustments directly under the camera—where they belong!
- For better, sharper pictures with fastest camera set-up.

Thousands of Safe-Lock tripods are in use today all over the world by professional, industrial and military photographers. Height closed 25 1/2"; fully extended 60". Shpg. wt. 6 lbs. No. 37C376. Model FL. Special. **\$18.86**

MINOLTA DELUXE BC FOLDING FLASHGUN

\$8.97
With Case

SELECTED FOR QUALITY, DEPENDABILITY, VERSATILITY & PERFORMANCE!

FITS ALL B-A'S CAMERAS AND ALL OTHERS HAVING MOST POPULAR PC FLASH CONNECTION

Accepts three most popular bases AG-1, M-3 and Press 25 without adaptors. After testing more than a dozen available B-C units B-A selected the Minolta-Flash-Deluxe as having the best overall quality and performance... regardless of price. We tested, for example, the ease in which the 3 various size flashlamps are inserted and rejected. The little AG-1's can be a nuisance with poorly designed sockets—there are all sorts of BC units around, but when you consider the overall investment placed in film, prints and flashbulbs... an instrument of dependability is the least expensive in the long run. This Minolta-Flash-Deluxe fills the bill on all counts—B-A Guarantees it! Comes with Case (less battery). Shpg. wt. 12 oz. **\$8.97**
No. 37C183. Minolta-Flash-Deluxe with Case. Each...
No. 21B144. Burgess Y10 15 V. Battery for Minolta-Flash-Deluxe. Each...81c

35 MM & 2 1/4 x 2 1/4 DOUBLE CONDENSER ENLARGER WITH 75 MM F/3.5 LENS

Glassless metal negative carriers (2 1/4x2 1/4 and 35 MM) hold negatives entirely flat at anytime. Filter-drawer for contrast or color compensating filters. Pivoting red filter. Friction dual bar roller system assures easy and accurate focusing. Warp-proof baseboard has non-slip rubber feet. Automatic spring counterbalancer provides featherlight adjustment of stippled black lamp house. Stantion, focusing column, shafts, large counter balancing spring, and negative carrier handles all heavily chromed. (Less opal enlarging bulb.) Shpg. wt. 13 lbs. No. 37A591. While They Last. **\$39.95**



No. 16B495. Sylvania #211 Enlarging Lamp Each **60c**

8x10 Enlarging Easel. All metal for rigidity and perfect flatness. Non-skid rubber feet, adjustable margins and automatic paper grippers. Shpg. wt. 3 lbs. **\$6.95**
No. 37A590. Each...
11x14 Easel. Similar to above. **\$10.90**
37A599. Shpg. Wt. 4 lbs. Ea...

BARGAIN HUNTING? HERE ARE SOME VERY RARE B-A BUYS FOR YOUR USE...EXPERIMENTATION...EVEN RESALE BECAUSE OF B-A'S IMPOSSIBLE LOW PRICES

HUGO MEYER PRECISION RANGEFINDER COMPARE AT 6 TIMES B-A'S LOW PRICE

Originally made for press type cameras. Turning shaft superimposes two images in viewfinder into one for obtaining range. Scales, arms and mounting hardware not supplied. Experimenter must devise to suit his own application. No. 61A99. Shpg. wt. 1 lb. Each. **\$6.00**



WORLD FAMOUS WOLLENSAK WOCOTED CINE RAPTOR LENSES FOR ALL 8 MM MOVIE CAMERAS

*Wollensak prices shown are from the last available Wollensak 1962 price list signifying the superb quality of these lenses. Actually these new lenses are very rare in the market place and consequently have no established price.



- ① Wollensak 6.5 MM F/1.8 Wide Angle Lens. Has removable Group 11 mount. "D" mount must be made. Shpg. wt. 1 lb. No. 61A101. *Wollensak 1962 Price \$60.95. Experimenters price, Each **\$6.99**
- ② Wollensak 38 .AM (1 1/2") F/2.5 Telephoto Lens. "D" mount. No. 61A102. Shpg. wt. 1 lb. *Wollensak 1962 Price \$57.95. Each **\$10.00**
- ③ Bausch & Lomb 12.7 MM F/2.8 Standard Lens. "D" mount. No. 61A100. Shpg. wt. 8 ozs. Lens Quality Equal to Wollensak. Each **\$3.00**

B-A SPECIAL PURCHASE! World's Finest Optics at Fraction of Original Price
INDUSTRIALS, MANUFACTURERS, PHOTOGRAPHERS, SCIENTISTS, CHEMISTS, BIOLOGISTS, TEACHERS AND STUDENTS...FOR SCIENCE PROJECTS, COIN AND STAMP COLLECTORS AND BIRD WATCHERS

100's OF USES, DEPENDING ON YOUR IMAGINATION AND INVENTIVENESS

GENUINE BAUSCH AND LOMB F2.7 25MM ANIMAR BALCOTED 16MM LENS



\$4.99

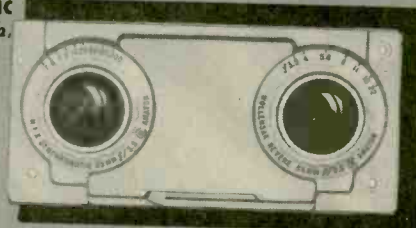
This precision F2.7 Lens (with click-stop apertures of F2.7, 4, 5.6, 8, 11 & 16) was originally made for the finest of 16 MM amateur and professional motion picture cameras. It has a standard "C" picture camera and could be used with a 16 MM mount and could be used with a "C" to "D" 8 MM adapter as a 25 MM telephoto for your present "D" mount camera. Some other uses include: 8 MM camera. Some other uses include: standard 16 MM lens for present 16 MM camera, enlargers, projectors, etc. or any equipment including closed-circuit TV cameras, use you might think of experimentally or if you're a coin or stamp collector—it has the finest 10X magnifier you've ever seen. Shpg. wt. 8 oz. **\$4.99**

No. 61A7B. Special Each

TWO GENUINE WOLLENSAK REVERE 35MM F3.5 AMATON COATED LENSES

PLUS MFX SYNCHROMATIC 9-SPEED SHUTTER (T, B, 1/2, 1/5, 1/10, 1/25, 1/50, 1/100, & 1/200th Second

\$4.99



This finely matched pair of F3.5 coated Wollensak lenses is mounted in dual MFX Synchronomatic shutters fully synchronized to bulbs and electronic flash at all speeds. Lenses and shutters are mounted in a satin finished aluminum camera face plate ready for mounting as a unit. These lenses were originally made for the Revere Wollensak Stereo 35 MM Camera—at B-A's give-away price you can try your hand at building a stereo camera, projector, microscope, viewer enlarger or disassemble it and use the lenses and shutter independently—any way you go, you can't miss. Shpg. wt. 1 lb. **\$4.99**
No. 61A79. Special Each

NEWEST BTL (Behind-The-Lens-Metering) 35 MM SINGLE LENS REFLEX CAMERAS

ALL THESE CAMERAS HAVE THE SEAL OF INSPECTION FOR QUALITY CONTROL BY THE JAPANESE GOVERNMENT
*B-A GUARANTEES NO LOWER NATIONALLY ADVERTISED PRICES ANYWHERE ON THESE NEWEST AND FINEST
CdS MIRRO-MATIC MAMIYA /SEKOR "TL" SERIES SLR CAMERAS
*B-A WILL REFUND THE DIFFERENCE UPON PRESENTATION OF AD



Pentax, Praktica, and Mamiya/Sekor use the same screw-in lens thread so you can use the thousands of lenses and lens accessories available for this mount.

\$155⁰⁰
500TL
-F2

Factory Packaged Together
\$139.50 Camera
\$15.50 Case



\$245⁰⁰
1000TL
F1.4

Factory Packaged Together
\$229.50 Camera
\$15.50 Case

These new Mamiya/Sekor TL cameras are the end result of years of study, testing, developing and perfecting the many facets of the through-the-lens meter concept. Mamiya engineers have developed a spot meter-on-the-mirror covering 10% of the viewed area. Engraved in the viewfinder (special micro-diaphragm screen is one of the brightest on any camera) is the exact 10% portion of the view being metered, thus permitting professional spot exposure rather than an average exposure of the entire picture which might be wrongly influenced by sky or other extraneous light.

Lenses: The Mamiya/Sekor Automatic Lenses are among the world's finest as indicated by many test reports in photo magazines and by professional photo-

MAMIYA/SEKOR MODEL 500TL

AUTOMATIC MAMIYA/SEKOR 50 MM F/2 LENS

Lens: Mamiya/Sekor Fully Automatic 50MM F/2, 6 elements in 4 groups fully color corrected and coated to reduce lens flare and increase light transmission. CdS "Spot" Mirror-Matic-Meter built-in and cross-coupled to lens and shutter. **Focal Plane Shutter** with speeds of 1 second to 1/500th & Bulb. Synched to focal plane bulbs (FP) and electronic flash (X). **Micro-Diaphragm** focusing viewing screen is very brilliant and even to the edges due to a pellicle mirror. **Match-Pointer System** visible in viewfinder assures accurate and automatic metering. ASA range 25-800. **Automatic Reset Counter, Preview Lever and Instant Return Mirror.** Shpg. wt. 4 lbs.
No. 61A105. "500TL-F2" & Case. \$8.00 Monthly. Each.....**\$155.00**

graphic experience. They are completely interchangeable with Pentax and Praktica. These cameras use the same mount.

How The Mirror-Matic System Works: All you do to get a reading is to push in the film advance lever with your thumb. This stops the lens down like a preview lever, actuates the meter, and you can change the shutter speed or aperture setting until the needle in the viewfinder indicates you have the right exposure. Since your thumb is normally in this position during filming, there is no lost time groping around. When you want to see the scene at full aperture, just release the lever and it springs back gently, opening the lens. The meter is turned off by pushing a button on top of the exposure counter. More consistent power is provided by the new silver-oxide battery.

MAMIYA/SEKOR MODEL 1000TL

AUTOMATIC MAMIYA/SEKOR 55 MM F/1.4 LENS

Has all the features of the "500TL-F/2" except the lens is a Fully Automatic 55 MM F/1.4, 7 elements in 7 groups plus a Variable Delay Self-Timer and Shutter Speeds to 1/1000th. Shpg. wt. 4 lbs.
No. 61A107. #1000TL-F/1.4 & Case. \$13.00 Monthly. Each.....**\$245.00**

MAMIYA/SEKOR "1000TL-F/1.8". Has all the features of the "1000TL" above except the lens is a Fully Automatic 55 MM F/1.8, 6 elements in 6 groups. Camera (\$179.50) and Case (\$15.50) factory packaged together. Shpg. wt. 4 lbs.
No. 61A106. #1000TL-F/1.8 & Case. \$10.00 Monthly. Each.....**\$195.00**

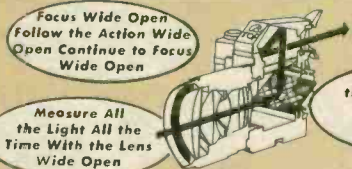
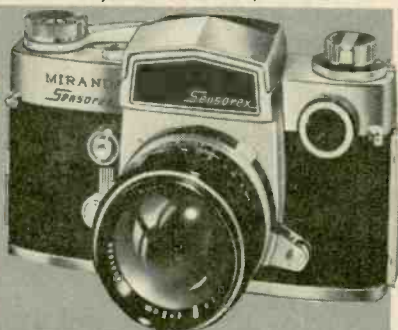
FLASH BRACKET for all Mamiya/Sekor "TL" Series cameras. No. 61A108. Each.....**\$3.95**

3 YEAR GUARANTEE

Factory at their option, will replace camera or repair any defects in workmanship or materials when camera is returned to authorized service station.

NEW MIRANDA SENSOREX

THROUGH-THE-LENS CdS
METER INTEGRATED WITH
THE MIRROR



Focus Wide Open
Follow the Action Wide
Open Continue to Focus
Wide Open

Measure All
the Light All the
Time With the Lens
Wide Open

Only During
the Precise Moment
of Exposure Does
the Lens Close
Itself Down

35 MM SINGLE LENS REFLEX

\$209⁹⁵

Factory Packaged
\$197.47 Camera
\$12.48 Case

Lens: Automatic Miranda F/1.9, 6 elements of rare-earth glass focusing down to 17" with depth of field preview lever.

Shutter: Focal plane synched to "FP" bulbs and "X" electronic flash. Built-in variable delay self-timer speeds of 1 second to 1/1000th and B.

Meter: Latest achievement of CdS Meter-on-the-mirror cross-coupled to lens aperture and shutter speed dial permits instant accuracy of light measurement through any combination of lens and accessories without any computing by the photographer, or you may "override" the meter system and set your camera manually.

Eye Level Penta Prism Finder: You see meter needle super-imposed on the ultra-fine condenser lens suitable to the most critical focusing needs. Screen matches the focal plane accurately to 1/10 MM.

Multiple Choice Features: Permits use of over 175 lenses and accessories of other cameras in addition to Miranda's nine other lenses, from 28 MM F2.8 Automatic Wide Angle to 400 MM F5.5 preset Telephoto.

Camera and case packaged together with instruction manual and 3 year factory warranty. Shpg. wt. 4 lbs.
No. 61A104. \$11.00 Monthly. Cash Each.....**\$209.95**



BESLER TOPCON AUTO 100

35 MM SLR WITH
THE SAME METER-
ON-THE-MIRROR
SYSTEM THE \$420.
BESLER TOPCON
"SUPER D" HAS

\$159⁰⁰

NO MONEY DOWN

- Only BTL - SLR fully automatic.
- BTL (behind-the-lens) CdS Meter.
- Interchangeable lenses.

Lenses: Each with its own automatic diaphragm coupled to the mirror-meter. Standard lens is the famous UV (Inherent Ultra-Violet correction) Topcor 53 MM F/2 with click stops to F/22. Accepts standard 49 MM dia. screw-in filters and attachments.

The Body: It's beautiful! Hold it! Feel it! Use it! Instant return mirror gives virtually continuous sight in sequence-shooting. The viewfinder has a unique center Micro-Prism focusing spot that lets you focus pictures sharper than ever before. As you view the scene through the viewfinder you see the F/Stop markings and the meter needle.

The Shutter: It's fully automatic . . . B, 1 second, 1/2, 1/4, 1/8, 1/15, 1/30, 1/60, 1/125, 1/250, 1/500 second. The shutter is coupled to the sensitive Cadmium Sulphide Cell on the Mirror. EV range is 5 to 18, ASA film settings are 25 to 400 (DIN 15 to 27). Flash can be perfectly synchronized for either flashbulbs or electronic flash units. A self timer even allows you to get into the picture yourself. The shutter ring is coupled to the viewfinder. When on Automatic, the finder tells you what F/Stop will expose the film. Focus, press the button. You just made a perfect picture. When on manual, it shows what F/stop should expose the film. Give more exposure . . . or less. Create the effect you want, when, how and as you want. Declare your total independence of automation, if you like.

Complete with instruction manual and Guarantee. Made in Japan.

No. 61A109. With Automatic UV Topcor 53 MM F/2. Shipped Prepaid.....**\$159.00**

No. 61A110. Carrying Case for above camera. Shipped Prepaid. Each.....\$11.95

No. 37B501. Wide Angle Auto. UV Topcor 35 MM F/3.5 & Case. Prepaid.....\$55.00

No. 37B502. Telephoto Auto. UV Topcor 100 MM F/4 & Case. Prepaid.....\$58.50

No. 37B503. Telephoto Auto. UV Topcor 135 MM F/4 & Case. Prepaid.....\$72.50

ALL NEW MIRANDA "G" SLR

THE PERFECT "SYSTEM CAMERA"
A 35 MM SINGLE LENS REFLEX WITH REAL VERSATILITY



**TOTAL INTERCHANGE-
 ABILITY OF LENSES,
 VIEWFINDER, FOCUSING
 SCREENS & ACCESSORIES.**

**NO MONEY DOWN
 \$9.00 MONTHLY**

The Miranda "G" is the camera for the photographic enthusiast. It's engineered for the man who expects a camera to respond to his demands . . . not tell him how to take a picture. The Miranda "G" allows you to use your own knowledge of photography to create an intensely personal statement on film. The gadget-free simplicity of the Miranda "G" also makes it the very camera to learn on and grow with.

Lens: Auto Miranda 50 MM F/1.9, 4-group 6-element Gauss type, fully automatic diaphragm, smallest aperture F/16, has depth-of-field preview button, uses screw-in 46 MM filters, closest focus at 17".

Shutter: Focal plane FP, X sync., speeds B, 1-1/1000 sec., built-in selftimer.

Viewfinder: Pentaprism type, uses condenser and Fresnel lens. Quick-return mirror recedes before swing-up, equipped with locking device, to be used with ultra wide angle lenses, interchangeable with reflex viewfinders.

Focusing: By pentaprism SLR system, with focusing screen and multi-microprism spot in center. Entire focusing screen is interchangeable.

Lens Mount: Miranda Mount, usable for both bayonet and screw-base lenses. Accepts interchangeable lenses of 18 MM up to 800 MM.

Film Advance: Single stroke lever (winding angle 180°).

Film Rewind: Rewind knob with collapsible crank, self-resetting release button with device to indicate completion of rewinding.

Film Counter: Advance counting type, has device to indicate cocked shutter.

Accessories: Uses all accessories made for previous series of Miranda Cameras.

Other features: Clip-on type accessory shoe, double exposure prevention, ASA speed dial, tunnel-type film pressure plate, and hinged back cover with double safety locking device (entirely removable).

Size: 5 3/4 x 2 3/4 x 3 3/4" (with F/1.9 lens), thickness of body only is 45 MM.

Some 3 Year Guarantee as Miranda Sensorex on page 168.

No. 61A97. Shpg. wt. 3 lbs. Camera and Case. Net Each. \$171.90

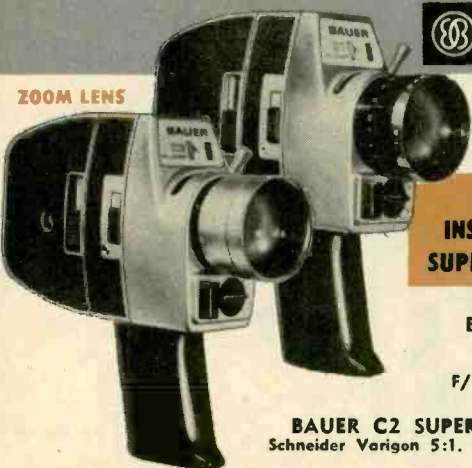
EXPOSURE METER. Snap-on type CdS meter (Miranda G Meter) couples to shutter speed, acceptance angle 40°, high-low switching type, measuring range LV 2-18 (at ASA 100), film speed range ASA 6-3200, includes Mallory No. 625 Mercury battery. Shpg. wt. 1 lb.

No. 61A114. Net Each. \$23.95

\$171.90

**Factory Packaged Together
 \$159.95 Camera
 \$11.95 Case**

- Worlds only camera without mirror cut-off.
- Eliminates darkening of upper part of viewfinder field when using telephoto lens.
- Super accurate focal plane shutter with built-in self-timer.
- Snap-on type CdS meter dial (listed below) couples to shutter speed.



**BAUER 8
 SUPER 8**

**QUALITY MADE
 IN GERMANY**

**USES NEW
 INSTAMATIC KODAPAK
 SUPER 8 FILM CARTRIDGE**

**BAUER C1 SUPER 8
 MOVIE CAMERA
 Bauer Vario 4:1
 F/1.8 9-36 MM Zoom Lens**

**BAUER C2 SUPER 8 MOVIE CAMERA
 Schneider Varigon 5:1. F/1.8 8-40 MM Zoom Lens**

MOVIE CAMERAS

These two excellent Bauer Super 8 Zoom Lens Movie Cameras have many deluxe features. Use of the new Kodapak Super 8 film cartridge which provides continuous 50 ft. film run without reversing the film . . . simple, fast loading. **Electric film drive . . . no winding . . .** powered by 4 Mercury batteries **Three speeds . . . 13, 18 and 24 frames per second.** Built-in CdS "behind the lens" meter for automatic exposure control. Bright reflex viewfinder . . . see the scene thru-the-lens exactly as it will be on the film. Low light signal and battery condition signal visible in the viewfinder. Both have exceptionally sharp precision manual zoom lens . . . each has different zoom ratios. Built-in "A" filter allows use of same film indoors as well as outdoors. Built-in hand grip assure steady shooting. Meter hold button allows override of automatic exposure control for manual operation. ASA range 6-125, set automatically by film cartridge. Automatic film counter. Tripod socket and cable release outlets. Complete with batteries and carrying case. Shpg. wt. each 4 lbs.

BAUER C2 SUPER 8. Perfectionist's choice—Has all the above deluxe features and is equipped with a Schneider Varigon F/1.8 zoom lens which manually zooms from 8 MM (wide angle) to normal to 40 MM (telephoto). Also has a manual fade control for added versatility. **\$207.95**

No. 61A37. Net Each.
BAUER C1 SUPER 8. Top rated for the money—This fine Super 8 movie camera has all the above deluxe features and is equipped with a Bauer Vario F/1.8 zoom lens which manually zooms from 9 MM (wide angle) to normal to 36 MM (telephoto). **\$159.95**

No. 61A38. Net Each.

HONEYWELL ELMO DUAL 8

**THE VERY FINEST
 COMPATIBLE**

**8 MM MOVIE
 PROJECTOR**

**SHOWS REGULAR 8
 AND SUPER 8**



Elmo Dual 8 Model FP8C. Imported exclusively by Honeywell. Distributors of famous Honeywell Pentax and Rollei flex cameras, this projector is Quality and if you want to enjoy pride of ownership and the very best performance—make the Dual 8 your choice.

Features automatic threading all the way onto the 400 ft. take-up reel; forward, reverse, rapid rewind and still picture control; variable speed control (12 to 24 fps). Other pluses include a loop restorer, framing lever, micro-focusing knob, spring-loaded elevation control, built-in film trimmer and a 21 1/2 volt, 150 watt DCA-type projection lamp.

Dual 8/FP8C with 25 MM F/1.3 Lens. \$18.00 monthly.

\$179.50

No. 37A589. Shipped Prepaid. Each.

Dual 8/FP8C with 20-32 MM F/1.3 Zoom Lens. \$19.00 monthly.

\$199.50

No. 37A588. Shipped Prepaid. Each.

A B-A COMBINATION OFFER SAVES YOU \$20.00 CRESTLINE SUPER 8 MM MOVIE CAMERA AND PROJECTOR



**BOTH FOR
 \$99.90**

**\$5.00
 MONTHLY**

**\$59.95
 PROJECTOR
 ONLY**

**\$59.95
 CAMERA
 ONLY**

Truly an exciting value—feature packed equipment that will provide endless hours of thrilling home entertainment.

Crestline "Super 8" Zoom Camera. •F/1.8 zoom lens. •Electric eye provides perfect automatic exposure. •4 penlite cells power film drive. •Built-in "A" filter allows same film to be used indoors and outdoors. •Automatic signal in viewfinder warns of inadequate lighting conditions. •Accepts newest 50' continuous run Super 8 MM Instamatic low cost Cartridge.

Crestline "Super 8" Projector. Everything you really need: 500 watt brilliance, color-corrected lens; autoloop reel-to-reel, 400 foot capacity; forward, rapid-rewind thru film gate, framer elevation knob, UL approved, self-contained case. Comes with 400' self-threading reel. Shpg. wt. 15 lbs.

No. 61A112. Camera & Projector. Both For \$99.90

No. 61A113. Camera only. Wt. 3 lbs. Net Each. \$59.95

No. 61A111. Projector Only. Wt. 12 lbs. Net Each. \$59.95

THIS NEW CAMERA
YASHICA ELECTRO 35
HAS BRAINS...
(BUILT-IN ELECTRONIC COMPUTER)

CdS sensing element linked to solid-state electronic shutter, ASA 10-400

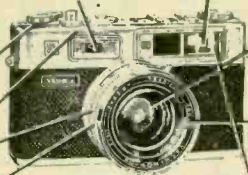
Rangefinder focusing, Auto Parallax Correction

Single stroke film advance

Shutter lock

X sync at 1/30

Manual aperture settings by number or symbol

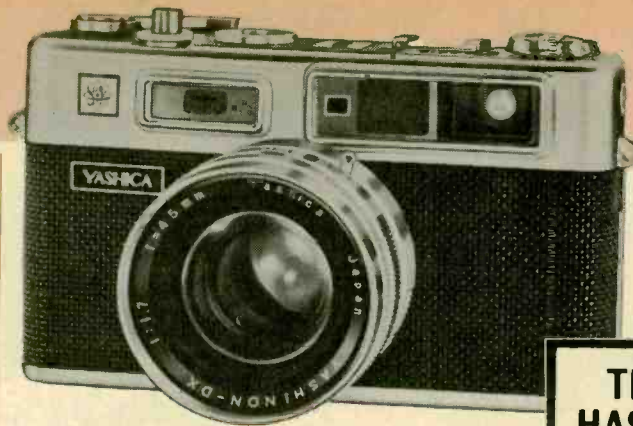


Yashinon/DX f/1.7 45mm lens

Shutter 30 seconds-1/500, B, self-timer

Warning lamps in finder, also top of camera
 Battery Check Lamp

Yashica's Electro 35 may look like other cameras, but it's not. It's new... all-through. It can practically see in the dark. Even one small candle gives light enough. Then... just view and snap... automatically you have a clear, "living" picture, without flash. Even if you have never clicked a shutter before. Why? Because the Electro 35 is transistorized. Has an electronic "brain" that's so fantastic it can even change exposure automatically during picture-taking. Sensitive... but not delicate. The solid-state "brain" is specially protected... even a jarring drop should make little difference to this camera.



\$89⁹⁰

FACTORY PACKED TOGETHER
CAMERA \$77.40
CASE \$12.50

Automatic Flash Calculation—Simply Select Lens Aperture and Electronic Shutter Takes Over

Whether you're a regular camera pro or an amateur you will start taking brilliant pictures immediately. Revolutionary new technical innovation in photography. Automatically sets any shutter speed required, for instance 1/287th sec. Ideal for night pictures, no meter movement, so it operates accurately in any position. Few moving parts in shutter to go wrong, transistors last indefinitely. Signal light tells you when to use tripod or ND filter. New multi-slot take-up spool makes loading simple and fast. Shpg. wt. 3 lbs. No. 61A115. Imported..... **\$89.90**

THIS SUPER-8 HAS EVERYTHING YOU WANT

(INCLUDING THE RIGHT PRICE)

THE NEW

ANSCOMATIC S/85



\$104⁹⁵

● Simple drop-in cartridge loading. Automatic Super 8 movies at the "right price". 50 feet of continuous action. Automatically sets ASA film speed. ● Fast F/1.7 lens with 4 to 1 zoom ratio. ● Automatic exposure with CdS meter and manual override to handle all your movie-taking situations. ● Permanently-attached pistol grip handle. Sure feel, no wobble. ● Built-in battery tester eliminates failure. ● Reliable battery drive... no winding, no "run down". Shpg. wt. 3 lbs. No. 61A117. Each..... **\$104.95**
 S/86 with 5:1 Power Zoom F/1.7 lens and instant slow motion. Shpg. wt. 3 lbs. No. 61A118. Each..... **\$139.95**
 21A41. Cameras req. 4 Pencils. Ea.....33c

THE ULTIMATE IN KODAPAK LOADING MINIATURE CAMERAS
YASHICA EZ-matic 4

\$66⁶⁶

FACTORY PACKED TOGETHER
CAMERA \$56.66
CASE \$10.00



FASTEST LENS EVER... F/1.9 ON AN INSTAMATIC LOADING

set distance by symbol and compose and check parallax. Fits in hands easily. Shpg. wt. 3 lbs. No. 61A116. (Imported). Camera & Case..... **\$66.66**

X sync at 1/30, with external flash socket and shoe

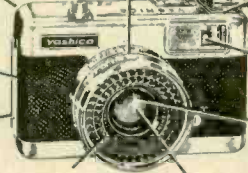
Cartridge sets ASA

Built-in flashcube socket

Kodapak cartridge (126 film) loading

Rapid-advance lever cocks shutter

Fully automatic round-the-lens electric eye, ASA 16-500



Computer-Scope view-finder

Yashinon/DX f/1.9 38mm lens

Programed Shutter 1/30-1/250, B, self-timer

Fastest Kodapak-loading lens on market: F/1.9, takes flashcubes, but also regular and electronic flash, for extreme versatility. Computer-Scope finder lets you check exposure,

LOW PRICES ON SLIDE TRAYS
ARIQUIPT MAGAZINES

Metal Magazine. Holds 36. Shpg. wt. 8 oz.
 No. 11A748. Each.....\$1.92 6 Lots, Each.....\$1.71
 Vari-Mount Plastic Magazine. Holds 36. Shpg. wt. 8 oz.
 No. 11B590. Each.....\$1.34 6 Lots, Each.....\$1.19
 Circular Magazine. Holds 100. Shpg. wt. 1 lb.
 No. 11B491. Each.....\$2.65 6 Lots, Each.....\$2.36

SAWYER TRAYS

Roto Tray. Holds 100. Shpg. wt. 1 lb.
 No. 11B766. Each.....\$2.29 6 Lots, Each.....\$2.21
 Easy-Edit Tray. Holds 36. Shpg. wt. 8 oz.
 No. 11B757. Each.....\$1.29 6 Lots, Each.....\$1.16

YANKEE TRAYS

Universal. 30 slot with plastic cover. Fits the Sawyer's Anscomatic, Viewlex, Keystone, AO Executive, Tower Automatic, TDC-Bell & Howell and Kodak Changers. Shpg. wt. 8 oz.
 No. 11A743. Each.....49c 6 Lots, Each.....44c
 Revere-Wollensak. 36 slot with plastic cover. Shpg. wt. 8 oz.
 No. 11A879. Each.....89c 6 Lots, Each.....79c
 Kodak Carousel. Circular, holds 80, with plastic cover.
 No. 11A1042. Shpg. wt. 2 lbs. Each.....\$2.59

ARGUS TRAYS

80 Slide Capacity. For Argus 538, 540, 541, 543, 550, 560, 570, 572. Shpg. wt. 1 lb.
 No. 11A1043. Each.....\$1.99 6 Lots, Each.....\$1.84

AUTOMATIC TELE-CONVERTERS
DOUBLE OR TRIPLE FOCAL LENGTH OF BOTH YOUR OWN AND VIVITAR LENSES LISTED AT RIGHT

● Fits directly into camera body. ● Accepts any lens designed for same camera. ● Does not alter focus scale. ● Does not alter minimum focus distance. ● Works with automatic or manual diaphragm. ● 2X doubles your focal length and 3X triples it. ● B-A's price includes leather case. Fits Cameras: Pentax, Mamiya/Sekor, CWP, Praktica, Edixa, Pentaxon, Yashica Penta J5, JP, J7. Shpg. wt. 8 oz.
 No. 61A119. 2X Auto-Converter. Each.....\$13.95
 No. 61A120. 3X Auto-Converter. Each.....\$19.95
 Fits All Miranda Cameras. Shpg. wt. 8 oz.
 No. 61A122. 2X Auto-Converter. Each.....\$17.95
 Fits All Minolta "SR" Series. Shpg. wt. 8 oz.
 No. 61A123. 2X Auto-Converter. Each.....\$17.95
 No. 61A124. 3X Auto-Converter. Each.....\$24.95
 Fits All Exacta Type Mounts. Shpg. wt. 8 oz.
 No. 61A125. 2X Auto-Converter. Each.....\$17.95
 No. 61A126. 3X Auto-Converter. Each.....\$29.95
 Fits All Nikon "F" Type Mounts. Shpg. wt. 8 oz.
 No. 61A127. 2X Auto-Converter. Each.....\$17.95
 No. 61A128. 3X Auto-Converter. Each.....\$24.95

VIVITAR LENSES
***GUARANTEED 5 YEARS**

Interchangeable "T" mount for most 35 MM SLR cameras. Lenses are preset type and come with one adapter of your specified choice. †Fully automatic type. May be used with auto converters at left for doubling or tripling the focal length.

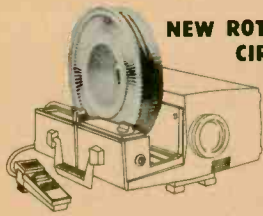
Stk. No.	Description	Shpg. Wt.	Each
61A131	28 mm F/2.8	1 lb.	\$49.85
61A81	+28 mm F/2.8	1 lb.	68.90
61A86	35 mm F/2.8	1 lb.	36.95
61A82	+35 mm F/2.8	1 lb.	48.96
61A85	35 mm F/3.5	1 lb.	29.50
61A87	135 mm F/3.5	1 lb.	29.95
61A88	135 mm F/2.8	2 Lbs.	36.95
61A83	+135 mm F/2.8	2 Lbs.	59.95
61A90	200 mm F/3.5	2 Lbs.	48.95
61A84	+200 mm F/3.5	2 Lbs.	79.95
61A91	300 mm F/5.6	3 Lbs.	61.20

*Vivitar Lenses are guaranteed against any optical or mechanical defect and carry the distributors Guarantee of replacement for 5 years from date of purchase.
 No. 61A96. Extra "T" Adaptor....\$4.50

COLOR SLIDE PROJECTORS

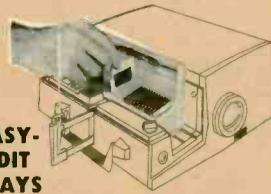
FOR 35MM 2x2" MOUNTS PLUS SQUARE SUPER-SLIDES AND INSTAMATIC 2x2's

EVERY SAWYER'S SLIDE PROJECTOR, EVEN THE LOWEST-PRICED, CAN SHOW 100 SLIDES UNINTERRUPTED... LETS YOU SHOW YOUR SLIDES 4 DIFFERENT WAYS!



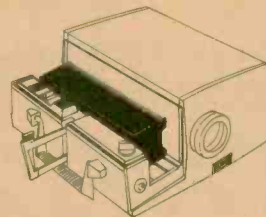
NEW ROTOTRAY CIRCULAR SLIDE TRAY

Now you can have the longest uninterrupted slide shows ever possible. Each Rototrayer holds 100 cardboard or plastic slides up to .08" thick, yet is smaller and lighter weight than you would think possible. Slides readily accessible, but can't spill accidentally. Complete with library box and Index. Stores like a book on a shelf. Shpg. wt. 1 lb. **\$2.29** 6 @ **\$2.21** Each.



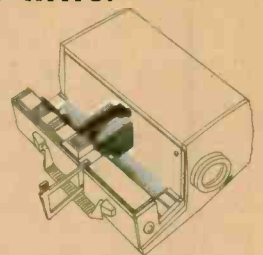
EASY-EDIT TRAYS

Exclusive flip-top keeps slides always within reach for convenient editing or repositioning. Allows slides to be lifted out while tray is still in projector so they can be edited or repositioned at any time. Each tray holds 36-2x2" slides, cardboard, glass or plastic. Complete with index card and transparent cover. wt. 8 oz. No. 11B757 **\$1.29** 6 @ **\$1.16** Each.



LOW COST TDC-TYPE TRAYS

All Sawyer's projectors will still handle this least expensive of trays. This permits many people to show their present slide collection or friends slides without switching trays. Lets you keep and use any TDC or universal trays you might have. No. 11A743 **49c** 12 @ **39c** Each.



NEW STACK LOADER

Lets you show up to 40 slides without a tray. Takes 2x2" slides in cardboard, or thin glass or plastic mounts. The perfect way to go through a stack of slides fast for showing, editing or sorting. No. 11B735 **\$5.00** Each.

SAWYERS ROTOMATIC "700" SLIDE PROJECTOR

DEPENDABLE? ... JUST READ THIS ...

B-A used a regular production run sample of the Rotomatic 700 and ran it continuously with Rototrayer on counter display 8 hours a day, 5 1/2 days a week for almost a year—better than 2,000 hours. This would be equal to about 200 years at 10

hours per year—much longer than the average amateur photographer will run a projector in a year. We encountered not even the slightest malfunction, only normal lamp replacement. FANTASTIC? Yes—but also TRUE!

\$89⁹⁵
NOTHING DOWN



\$5.00 MONTHLY

FULLY AUTOMATIC OPERATION... for continuous and unattended operation or remote control operation!

Here is high performance with the ultimate of convenience. Just set the Sawyer's Auto Timer on the Rotomatic "700" projector to show your slides automatically at 5, 10, 15, or 30-second intervals and you can settle back in your easy chair to enjoy the show.

The complete remote control provides focus, slide change and reverse, and you can change a slide at will without affecting the timing of the next slide. The simple 4" remote control panel lifts out from the projector for use anywhere in the room; a 10-ft. cord for the remote control is

included. You get all this convenience plus such quality features as 500 watt brilliance, extra-sharp detail with the 4" F/3.5 anastigmat lens, preheating of slides to maintain focus and control "popping", and Sawyer's exclusive four methods of slide handling.

Handsome! styled. Complete with Rototrayer, Easy-Edit Tray and Auto-Timer (Extra trays listed top of page). With self-enclosing case. See page 165 for B-A Guarantee. Shpg. wt. 18 lbs. No. 37C402. Model 700. Each. **\$89.95**

MADE OF NEW RUGGEDIZED BREAK & IMPACT RESISTANT MATERIAL!



ATLAS-WARNER MODEL 500-XL PROJECTOR FOR 35 MM, BANTAM, 127 OR INSTAMATIC SLIDES

- Automatic Slide Changer.
- 4" F/3.5 Color Corrected Lens.
- 40 Slide Capacity.
- 500 W. Replaceable Lamp.
- Fan Cooled.
- 2-Way Tilt.

\$29⁹⁵

Designed and engineered for ease of operation, maintenance and long life. Projects sharp and brilliant full color pictures from your treasured slides. No expensive magazines required—simply stack load right into spring fed chamber. Slides can be inter-mixed. Unit is completely self-contained and uses a standard replacement 500 watt lamp. Compact, 5 3/4" H. x 14" L. x 8 1/2" W. For 105-120 volt 50/60 cycle operation. Shpg. wt. 8 lbs. **\$29.95** No. 37A593. Each.

2-YEAR GUARANTEE FREE REPAIR AND PARTS (EXCEPT BULB) WHEN RETURNED TO AUTHORIZED SERVICE CENTER OR B-A

THIS IS A FINE PROJECTOR AT A REAL GOOD PRICE! AIREQUIPT SPRITE 135

Accepts 4 different magazine systems: The famous Airequipt Metal Magazine, which protects each individual slide with a metal frame; plastic Vari-Mount Magazine for all mounts up to 1/8" thickness; and new 100-slide Circular Magazine with library shelf storing box, plus the new Stack & Show Loader.

PLUS FEATURES GALORE: • Brilliant 500 watt lamp. • Features famous foolproof Airequipt changer. • Accepts 35 MM, Square Superslides and Instamatic 2x2" mounts. • 4" 3 element anastigmatic color-corrected lens coated on all air surface sides. • Extremely efficient blower cooling system, low filmplane temperature. • Built-in preheat to eliminate slide popping. • 3-way on-off switch. Lamp blower can be turned off independently. • Control panel wheel focusing. • Wide snap-out elevation foot for easy adjustment and stability. • Patented lamp protector shuts off lamp if internal temp. raises above 200° due to malfunction of blower or blockage of air intake. • Convenient wrap-around cord storage under projector. • Extremely lightweight, less than 10 lbs.

Housing of miracle space age polymer: Cyclo-lac. Extremely durable finish, break, mark and chip resistant stronger than die-casting yet lighter in weight and more durable finish. Compact size: 11x10 1/2 x 7". Complete with one Airequipt 36 slot metal magazine. Shpg. wt. 12 lbs. No. 37A569. Each. **\$56.66**
New 100 Slide Circular Magazine No. 11B491. Ea. **\$2.36** 6 Ea. **\$2.21**
Other Airequipt Magazines on page 167

ACCEPTS 4 DIFFERENT MAGAZINE SYSTEMS

SPECIAL \$56⁶⁶ NOTHING DOWN



\$5.00 MONTHLY

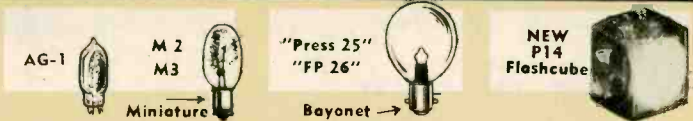
MICRO-FOCUSES SLIDES PLUS FORWARD AND REVERSE BY PUSH-BUTTON REMOTE



SYLVANIA BLUE DOT FLASHBULBS

FOR BLACK AND WHITE AND ALL COLOR FILM

COMPARE B-A's LOWER PRICES!



M3 is a universal bulb for "M" sync. box cameras, most late model focal-plane cameras, and Polaroid models 100, 101, 103 and 104. AG-1's are the tiniest of all sync. to all cameras except focal plane.

SYLVANIA CLEAR FLASHBULBS. For all Black and White, Type "A" color films and Kodachrome films. May be used with the new High Speed Ektachrome Type (EHB) with an 81C filter.

Stock No.	Bulb Type	Class	Lumen Seconds	Color Temp. K	Same As	Ctn. List	Per Ctn.	3 Ctns. @ Ea.	Case of 144 For
60A54	AG-1	—	7,000	3800° K	AG-1	\$1.56	\$1.12	\$1.07	\$11.52
11B504	M-3	M&FP	16,000	3800° K	M-2	2.04	1.47	1.40	15.12
11A513	M-2	—	7,200	3800° K	M-2	1.68	1.22	1.16	12.53
11A515	Press 25	M	20,000	3800° K	5	2.04	1.47	1.40	15.12
11A512	FP-26	FP	19,000	3800° K	6	2.40	1.74	1.65	17.86

contains 4 flashbulbs with self-contained reflectors and rotates automatically after each shot. Shipping weights of Bulbs: Press 25 or FP26 weigh 4 lbs. per case of 144. M3 or M2 weigh 2 lbs. per case of 144. AG-1 weigh 1 lb. per case of 144.

SYLVANIA BLUE FLASHBULBS. For all dual-purpose Kodachrome and Ektachrome films—plus daylight color films of any other manufacturer.

Stock No.	Bulb Type	Class	Lumen Seconds	Color Temp. K	Same As	Ctn. List	Per Ctn.	3 Ctns. @ Ea.	Case of 144 For
60A55	AG-1B	—	4,000	6000° K	AG-1B	\$1.56	\$1.12	\$1.07	\$11.52
11B505	M-3B	M&FP	9,000	6000° K	M-2B	2.04	1.47	1.40	15.12
11B511	M-2B	—	6,000	5100° K	M-2B	1.68	1.22	1.16	12.53
11A519	25B	M	9,000	6000° K	5B	2.04	1.47	1.40	15.12
11A521	FP26B	FP	8,500	6000° K	6B	2.40	1.74	1.65	17.86
11C507	P14 cube	—	2MCPs	5500° K	—	1.95	1.41	1.35	14.54

NEW CERAMIC "BLUE TOP" SYLVANIA PROJECTION LAMPS

Exact replacement for all slide and movie projectors. Shpg. wt. each 4 oz. PROJECTION LAMPS BELOW LISTED ALPHABETICALLY ACCORDING TO ASA CODE

Stock No.	ASA Code	Type Number	List Each	Net Each	3 Lots Each	6 Lots Each
11B411	BEH	150T10TF	\$2.80	\$2.16	\$2.02	\$1.92
11B401	BVB	30T75C	1.05	.81	.76	.68
11B416	CAL	300T10TF4	4.05	3.14	2.93	2.79
11B412	CAR	150T10TF1	3.10	2.40	2.24	2.13
11B403	CBJ/CBC	75T8/73	2.40	1.86	1.74	1.65
11A477	CEM	110T8/108SC	2.00	1.55	1.44	1.37
11A528	CEW/CFE	150T8/71	2.45	1.89	1.76	1.68
11C410	CGW/CGT	200T8/113	2.55	1.97	1.84	1.75
11A524	CLS/CLG	300T8 1/2/11	3.30	2.55	2.38	2.27
11A485	CLX/CMB	300T8 1/2/12	3.40	2.63	2.45	2.33
11A484	CMV/CMT	300T8 1/2/25C	4.00	3.09	2.88	2.74
11B747	CTS	1M/T12TF3	7.15	5.52	5.15	4.90
11B749	CWA	750T12/TF1	6.70	5.18	4.83	4.60
11A773	CWD	300T10TF1	3.75	2.90	2.70	2.57
11A526	CXK	300T10P	4.40	3.41	3.14	3.03
11B413	CXL	50T10SCP/R	5.70	4.40	4.11	3.91
11A486	CYC	300T10SC	3.40	2.63	2.45	2.33
11A775	CZA/CZB	500T10TF1	4.90	3.80	3.54	3.37
11A527	CZX/DAB	500T10P	4.85	3.75	3.50	3.33
11A931	DAH	500T12TF/H/200	7.15	5.52	5.15	4.91
11A492	DAK	500T10TF	4.65	3.60	3.36	3.20
11A932	DAY	500T10/TF/H	6.20	4.80	4.48	4.27
11C415	DBJ	500T12/DBJ	5.25	4.06	3.79	3.60
11B414	DCA	150T12TFR/LV	5.00	3.87	3.61	3.44
11B718	DCH	500T12TFR2	4.75	3.68	3.43	3.27
11C428	DCL	150T12TFR/3D	5.95	4.60	4.29	4.08

Stock No.	ASA Code	Type Number	List Each	Net Each	3 Lots Each	6 Lots Each
11A525	DDB	750T12P	5.10	3.95	3.68	3.51
11B431	DEF	150T12TFR/LVD	\$5.95	\$4.80	\$4.29	\$4.08
11A539	DEJ	750T12/3LR	6.05	4.68	4.37	4.16
11C744	DEK	500T12TF2/H	5.85	4.52	4.21	4.01
11C432	DEP	750T12TF	5.10	3.94	3.68	3.51
11A553	DFA	150T12TFR	5.25	4.05	3.78	3.60
11B717	DFC	150T12TFR1	4.75	3.68	3.43	3.27
11A490	DFD	1M/T12P	5.50	4.25	3.96	3.77
11B510	DFK	1M/T12/3LR	6.45	4.98	4.66	4.43
11B472	DFR	500T12	5.40	4.17	3.89	3.71
11B433	DFT	1M/T12/46	5.95	4.60	4.29	4.08
11B731	DFW	500T12TF2	5.20	4.02	3.75	3.57
11B417	DFY	1M/T12/5LR	6.75	5.21	4.86	4.63
11A487	DGA	300T10TF	4.05	3.14	2.93	2.79
11A475	DGH	750T12/500	7.60	5.87	5.47	5.21
11B438	DHT	1200T12/50	7.25	5.59	5.22	4.99
11B448	DJA	150T12TFR4	4.75	3.67	3.42	3.26
11B449	DJL	150T12TFR3	5.00	3.86	3.61	3.43
11B451	DKM	250T14TFR/LVD/1	8.10	6.26	5.84	5.56
11B452	DLR	250T14TFR/LVD	8.10	6.26	5.84	5.56
11B454	DLS	150T14TFR/LVD	6.30	4.87	4.54	4.33
11B456	DNF	150T20/LVD	6.95	5.37	5.01	4.77
11B459	DRC	1M/T20/13P	7.15	5.52	5.16	4.91
11B463	DRS	1M/T20MP	6.45	4.98	4.65	4.43
11A488	EDK	500T10/25C	4.45	3.44	3.21	3.05
11C745	FAL	420T4/Q	7.95	6.14	5.73	5.46
11C464	FCB	600T4/Q	8.50	6.57	6.13	5.84

CHECK THESE BEST SELLING KODAK PHOTO BOOKS!

- All Time Best-Sellers because they provide the fundamental knowledge necessary to good picture taking and processing . . . knowledge which will save many dollars of wasted materials and time.
- KODAK MASTER PHOTOGUIDE.** Complete information for taking still pictures in black-and-white and color on miniature, roll, pack, and sheet films. No. 16C372. Kodak R-21. Each. \$1.95
 - KODAK MASTER DARKROOM DATAGUIDE.** Key data for black-and-white processing, printing, etc. No. 16C373. Kodak R-20. Each. \$2.95
 - KODAK COLOR DATAGUIDE.** Basic descriptive and working data needed to correctly expose, process, and print color pictures in professional and advanced amateur work. No. 16B374. Kodak R-19. Each. \$4.95
 - ADVENTURES IN OUTDOOR COLOR SLIDES.** Designed to help the advanced color-slide fan make better pictures outdoors, with both Kodachrome and Ektachrome films. No. 16B74. Kodak E9. Each. 75c
 - BASIC DEVELOPING, PRINTING & ENLARGING.** No. 16B93. Kodak J2. Each. 50c
 - BETTER 35 MM SNAPSHOTS.** Tips for better black and white pictures with a 35MM or any adjustable camera. Discusses close-ups, flash shots, filters, etc. No. 16B97. Kodak C30. Each. 50c
 - COPYING.** All necessary information for copy photography. No. 16C102. Kodak M1. Each. 75c
 - ENLARGING IN BLACK & WHITE AND COLOR.** No. 16B105. Kodak G16. Each. 75c
 - FILTERS AND POLA-SCREENS.** Describes the theory and use of filters and pola-screens. No. 16B110. Kodak B1. Each. 75c

- DARKROOM DESIGN AND CONSTRUCTION.** No. 16B376. Kodak K-13. Each. \$1.00
- INFRARED AND ULTRAVIOLET PHOTOGRAPHY.** No. 16B378. Kodak M-3. Each. \$1.00
- PHOTOGRAPHY THROUGH THE MICROSCOPE.** No. 16B380. Kodak P-2. Each. \$1.00
- TECHNIQUES OF MICROPHOTOGRAPHY.** No. 16B381. Kodak P-52. Each. \$1.00
- PROCESSING CHEMICALS AND FORMULAS.** Discusses processing principles and techniques for black and white roll films, sheet films, plates and papers. No. 16C130. Kodak J1. Each. \$1.00
- KODAK PHOTOGRAPHIC NOTEBOOK.** All the listed books are punched to fit this notebook. This extra large binder makes possible a photographic handbook tailored to individual interests and needs. Hard-bound and includes backbone title strips and tabbed separator pages. No. 16C131. Kodak W22. Each. \$1.95
- HOW TO MAKE GOOD PICTURES.** A complete handbook on the fundamentals of "still" photography for the amateur. 192 pp. 5 1/2 x 8 1/2", profusely illustrated. No. 16B50. Kodak W1. Each. \$1.00
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- ADVENTURES IN INDOOR COLOR SLIDES.** Written to help you make better color slides indoors with flash, photoflood or existing light. Data on Kodak color films included. 5 1/2 x 8 1/2", profusely illustrated. No. 16B71. Kodak E7. Each. 75c

ALL AMERICAN MAKE SILVER LENTICULAR PROJECTION SCREEN

SILVER LENTICULAR is specially designed with vertical ribs to control horizontal light reflections for even brightness and sharp detail at extremely wide angles. Eye fatigue is eliminated because this optically correct surface is free from glare, sheen or hot spots. Slides and movies are faithfully and brilliantly reproduced in both lighted and darkened rooms. Surface is washable, flame and fungus resistant.

ROUND CASE with baked blue hammerloid finish with contrasting gray hammerloid legs. Plated caps fully enclose the roller. Flexible Top Bar for the proper tensioning of the Lenticular fabric. Shpg. wt. 10 lbs.

No. 40D112. Special. \$9.99



\$9.99

40 x 40 INCHES PORTABLE TRIPOD TYPE

TRANSISTOR-POWERED MEGAPHONE

NEW LOW PRICE

\$8.99

**AMERICAN
MADE!**



**AMPLIFIES
VOICE CLEARLY
AND DISTINCTLY
UP TO 1000 FT.
AWAY**

Extremely useful for sports, construction jobs, plants, group meetings, camps, etc. Easy to operate—just press the trigger and talk into high gain built-in microphone. Fully transistorized circuit provides ample volume up to 1000 ft.

Unique far listening feature . . . simply reverse horn bell for listening to remote conversations, bird calls, distant sounds, etc. Lightweight only 2 lbs. high impact, shock resistant case, 10 1/2" long. Uses 6 standard 1 1/2 V. "C" photoflash batteries. Shpg. wt. 4 lbs.
No. 34A320. Net..... **\$8.99**
No. 34A321. Battery Kit for above. Net84c

DeJUR 1/10 SECOND 7-JEWEL STOP WATCH



\$14.95



- Life-time unbreakable mainspring.
- "Time-out" feature allows stop and start without reset.
- 1 year guarantee material and workmanship—return for repair.

Precision 7 jewel movement is accurate even for the most exacting scientific uses. The new Polaroid color film, time-study analysis and of course, athletic contests. 2 RPM. large sweep second hand times accurately down to 1/10 sec. Black outer numerals read 0-30 sec., red inner numerals 0-60 sec. Small recorder dial totals to 15 min. Start-Stop crown button. Adds total time; resets only with Fly-Back-to-Zero side press button, for fullest usefulness. **\$14.95**
No. 60B179. Each.

BRUMBERGER MODEL 290 PROJECT-A-SCOPE

**\$6.40 ABSOLUTELY
AMAZING**

**PROJECTS GIANT PICTURES
FROM MAGAZINES, STAMPS,
MAPS, DRAWINGS, ETC., IN
COLOR OR IN BLACK AND
WHITE WITHOUT FILM OR
NEGATIVE**



Amazingly versatile! Delightfully simple! Adjustable, focusing lenses. Place over anything flat—magazines, books, photos, drawings, comics, coins, stamps, maps, etc. for brilliant, giant enlargements projected in glowing true-to-life color or black and white on wall or screen. Lots of fun for everyone—young and old—for hobby, play and profession.

Artists, collectors, lecturers, demonstrators, etc. will find it exceptionally useful. Mode of hi-impact polypropylene. 110 V. AC-DC. UL approved. Uses ordinary 60 watt bulb not supplied, 12x8x4 1/2". Shpg. wt. 2 lbs.

No. 37A445 **\$6.40** 2 Lots **\$5.70**
Net Each..... Each.....

HANDY ILLUMINATED MAGNIFIER

\$1.95



**THE MOST
VERSATILE
INSTRUMENT
YET!**

**Finest Import Quality.
5X Magnification with 2" Field.**

Magnifies work 5 times giving fully illuminated clear view. Field of vision is 2" at 1 1/8" working distance. Unlimited usage for home, shop, and industry. Ideal for inspection of meter movements, fine soldering, printed circuits, spark plugs, documents, fabrics, etc. Perfect for hobbyist, experimenter, serviceman, photographer, doctors, laboratories and countless others. Uses two size C flashlight batteries. 7" long.

17B565. Less Batteries. **\$1.95**
Shpg. wt. 1 lb. Net Each
21A2. Flashlight Battery. Ea. 14c

**A MUST FOR SUB-MINIATURE
WORK, COUNTLESS OTHER USES**

ELECTRIC GUITAR WITH TRANSISTORIZED ELECTRONIC AMPLIFIER AND PICKUP

EASY TO PLAY

B-A
SPECIAL

\$10.95



**HOURS OF ENJOYMENT—
COMPLETELY PORTABLE,
TAKE IT ANYWHERE**

Full size guitar molded of high impact plastic. Battery operated transistor amplifier with speaker, musical instrument pick-up, on-off switch and volume control. Also works with other guitars. With instructions and music sheet. Wt. 5 lbs. **\$10.95**
No. 33B8. Special.....
No. 21A1, "D" Cells (Requires 4). Each.....14c

THERE'S NO OTHER LANTERN LIKE THE BURGESS SAFARI LIGHT

**BRILLIANT, PORTABLE
FLUORESCENT
FLOODLIGHT
OPERATES ON BUILT-IN
BATTERIES OR AC**

\$19.95

COMPLETE WITH
BATTERIES



Gives a broad, bright flood of light to read, work or play by. Utilizes the high-efficiency features of fluorescent light to get more light and hours-of-use for each penny of battery cost. Practical and useful for the car, trailer, tent, boat, cabin, patio, at home . . . for emergencies, when the lights go out, to have handy when storms or tornadoes threaten. Use it once and it's paid for itself.

Plugs into standard AC outlet, or Power Miser Switch reduces light to save batteries. About 100 hours battery life in average use. Standard 6000 hr. F8T5-CW, 12" fluorescent bulb. With 2 Burgess Z46 batteries. Size 12 3/4" x 4 x 7 3/4"
No. 35B145. Shpg. wt. 10 lbs. Each..... **\$19.95**
No. 35B146. Burgess Z46 Replacement Battery (Requires 2). Each.....\$2.93

EMPIRE NEW FULLY AUTOMATIC ZOOM 6X TO 12X BINOCULARS

WITH GENUINE
LEATHER CASE **\$39.95**



With Latest
Synchro nized
Single Lever
Zoom Control.



AMBER
COATED
OPTICS

Power-to-spare with Empire's new thrilling automatic zoom precision binoculars. View at 6 or 7 power to see all the action . . . then zoom, zoom, zoom all the way to 12 power for those exciting close-ups. Precision crafted Japanese binoculars with latest amber coated optics, deluxe one-piece body construction, and deluxe plush lined case. Easy center focusing, lightweight, compact design. 30 MM objective lenses. Field of view 289 ft. at 6X. Brightness 37.5. Height 5 1/4". Wt. 29 oz.
No. 60A419. Shpg. wt. 4 lbs. Net Each..... **\$39.95**

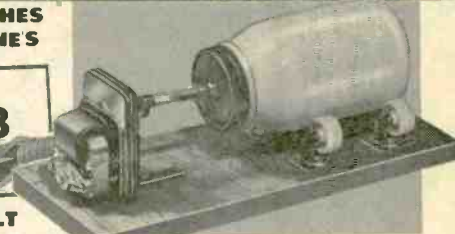
B-A HOBBYIST'S ROCK TUMBLER KIT

**SMOOTHES AND POLISHES
ROCKS, GLASS & STONES**

**DOES THE
WORK OF
HIGH-COST
MACHINES**

**ONLY
\$9.88**

QUICKLY, EASILY BUILT



B-A has sold thousands of motor drives for building inexpensive tumblers to rock collectors all over the USA! Now we have a complete kit of all the parts! Powered by an industrial quality continuous duty gear head drive motor which couples to a quart-size polyethylene container for the stones and polishing compound. Revolves at constant slow speed. Tumbling and abrasive action cleans and polishes even the hardest materials. Load limit 1 1/2 lbs. Kit consists of the 115 V. AC motor drive, power cord, polyethylene container, supporting nylon rollers, miscellaneous hardware and easy-to-follow instructions. Lumber base can be obtained at your local yard. Shpg. wt. 3 lbs. **\$9.88**
No. 18C477. Complete Kit, Special.....

A B-A SPECIAL PURCHASE... LIMITED QUANTITY

**HAMILTON BEACH
DELUXE CONSOLE**

Humidifier

FOR GREATER HOME COMFORT, HEALTH AND ECONOMY

COMPARE AT \$79.95

\$39.95

**IS YOUR HOME
AS DRY AS A
DESERT?**



**SWITCHBLADE
ELECTRIC KNIFE \$24.96**

**HAMILTON BEACH
ELECTRIC
SLICING KNIVES**

**KNIFETTE
PARING KNIFE \$19.95**

**THE ORIGINAL "KNIFE WITH THE HOLE IN THE HANDLE"
FITS LADIES HAND WITH EASE. SWITCHBLADE TURNS INSTEAD OF HANDLE
FOR PERFECT BALANCE, EASY CARVING CONTROL**

"Turn the blade—not the handle". Blade rotates for easy carving both vertically and horizontally. Textured white handle, light olive trim. Safety switch. Leather textured storage tray. Hole in handle for comfort, cutting ease. Knife rests safely, conveniently. Blades do not touch table. Spring-loaded on/off button operates with convenient fingertip control. 120 volts AC, 100 watts. 19 3/8" overall length, 6 ft. detachable cord. Shpg. wt. 4 lbs. No. 36B171. Model 283. Each..... **\$24.96**

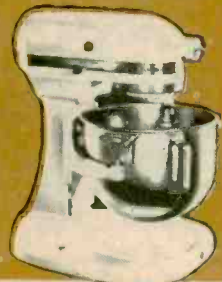
**② FABULOUS "KNIFETTE"
NEW CORDLESS ALL-PURPOSE PARING KNIFE
MAKES KITCHEN CHORES FUN**

The new, easy way to cut! Does all the things an ordinary knife does—only better, quicker, easier. Compact cordless design. And, for safe keeping, an attractive scabbard that sits on the counter or hangs on the wall—keeps knife fully charged (BUILT-IN NICKEL CADMIUM BATTERIES). White handle, stainless steel blade. Overall length 11", in scabbard 11 1/2". One Year Guarantee (FREE PARTS & LABOR). 120 volts AC, 4 W. No. 36A172. Model 281. Shpg. wt. 3 3/4 lbs. Each..... **\$19.95**



**KitchenAid
FOOD MIXERS**

**WORLD'S FINEST! GIVE GENERATIONS
OF DEPENDABLE SERVICE**



SUPER-POWER MODEL K5-A
Deluxe Extra Power and Extra Capacity (5-quart bowl). 1000's in use in commercial kitchens and large homes. 1/6th H.P. motor is self-lubricating. 10 definite-step speed control has intermediate speeds for any mixing need PLUS planetary beater action. Built-in power unit for many attachments. Equipped with 5 qt. stainless steel mixing bowl, one wire loop beater, and one flat beater. Cast base is 10 3/8 x 13 1/2", total height 16 1/2". For 115 volt AC or DC. Wt. 35 lbs. List \$164.95. (Made in White only) No. 31A311. **\$119.95** 3 Lots, **\$114.49** Each.....

KITCHEN-AID MODEL 4C. (Now with larger 4 qt. capacity). Full 1/2 H.P. motor, electrical governor controlled, 10 definite speeds for every need. Easy to read up-front mixing guide and motor speed control. Has recessed easy-hold hand grip. Cast base 8 7/8" x 13 7/8", overall height 13 7/8". Complete with 4 qt. pyrex bowl and planetary beater. 110 volt AC-DC. Wt. 22 lbs. Mfg. List \$72.95. Model 4-C (Stocked in White only). No. 31A308. **\$56.41** 3 Lots, **\$51.28** Each.....

Beautifully styled in rich walnut grained vinyl and is mounted on ball-bearing casters for effortless mobility. The Hamilton Beach Humidifier is the product of years of thorough research and actual in-use test. Motor-driven polyurethane belt and two-speed fan produce a high humidification output to quickly supply desired moisture. Effectively humidifies homes up to 2500 sq. ft. Automatic humidistat control is located in front and automatically maintains moisture required. Unit is turned on or off automatically when humidity level is reached. Full 10-gallon capacity (20 hours' continuous use) needs less filling. All controls, signal-light, water level, humidistat, humidity control on attractive front panel. Specifications: Two-speed fan, 120 volts, 60 cycle, 1.2 amps, AC only. 10-gallon polyethylene water tank. 4 swivel ball-bearing wheels. Washable foam-type polyurethane belt. Size 20" wide x 25 1/2" high x 12 3/4" deep. UL and CSA approved. Comes with Hamilton Beach 1 Year Guarantee covering free labor and parts when returned to your nearest authorized service station or B-A. No. 36B322. Shpg. wt. 35 lbs. Each..... **\$39.95**

NATIONALLY ADVERTISED

Pollenex PRODUCTS!

**PRECISION STYLED AND ENGINEERED BY ASSOCIATED MILLS, INC.
MANUFACTURERS OF EQUIPMENT FOR HOSPITALS AND THE
MEDICAL PROFESSION FOR OVER 30 YEARS**

**DEEP INFRA-RED
HEAT MASSAGER**

- Exclusive design for maximum body contact.
- Light and compact.

**SOLD NATIONALLY
FOR \$9.95**

**B-A's SPECIAL
LOW PRICE**

\$7.95



**GOES TO WORK
WHERE IT HURTS**

POLLENEX GOES TO WORK WHERE IT HURTS!

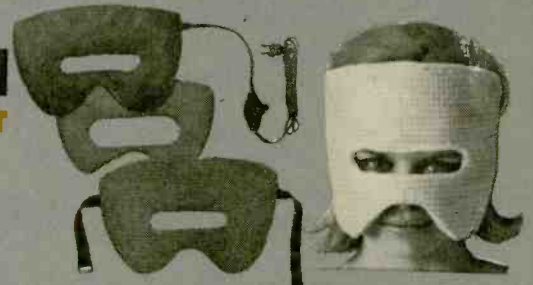
Penetrating infra-red heat and massage for quick temporary relief of minor aches and pains often associated with . . . Arthritis, Rheumatism, Neuralgia, Backache, Tired Feet, Muscular Strains, Muscular aches and pains due to over-exertion and fatigue, Bursitis, Sinusitis, Muscular Discomfort due to tension, Muscular spasm, Headaches, Tension, Traumatic Pain, Lumbago. Used by Physical Therapists . . . Used in Hospitals. Penetrating infra-red heat reaches painful areas. Warms, soothes irritated nerve ends; helps ease away pain; helps you relax muscles. No. 34B81. Shpg. wt. 1 lb. Each..... **\$7.95**

NEW

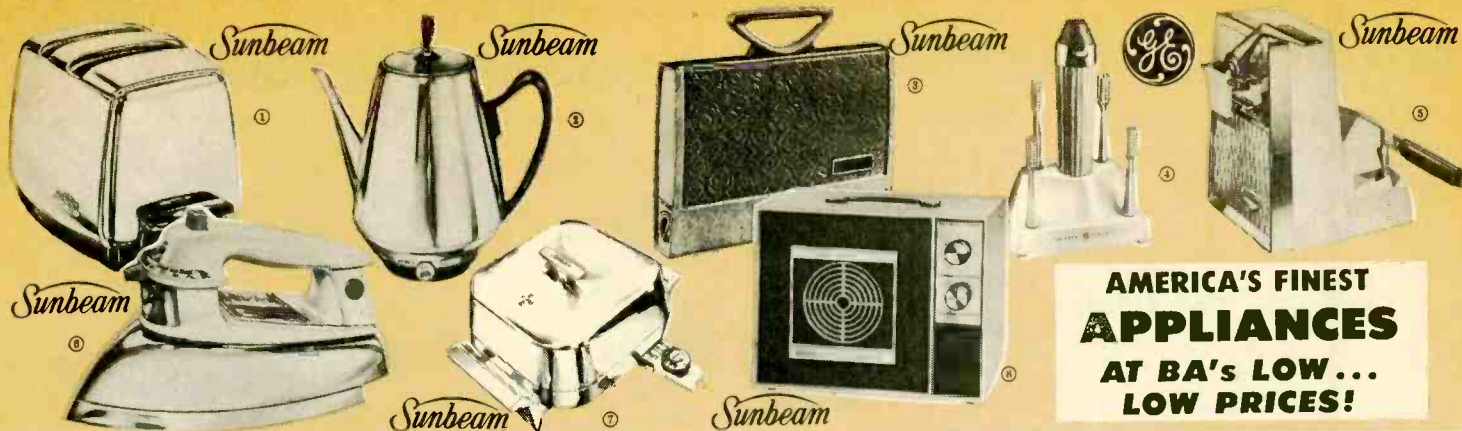
Pollenex®

**DEEP HEAT
SINUS
MASK**

\$7.95



Get soothing, temporary relief for aches and pain often associated with sinusitis. Automatically concentrates dry or moist heat on sinus areas. Adjustable head strap holds mask securely, leaves hands free. Fingertip switch gives Hi-Med-Low heat to suit needs. Wet-proof heating pad, washable cloth cover, sponge liner for moist heat. Shpg. wt. 1 lb. No. 36B170. Each..... **\$7.95**



AMERICA'S FINEST APPLIANCES AT BA'S LOW... LOW PRICES!

① Sunbeam RADIANT CONTROL SELF-LOWERING TOASTER
Fully automatic. Completely leverless—toast lowers and raises by itself. Set it to your taste just once, then slice after slice—thick or thin, dry or moist, rye or white—gives the same uniform shade of toast every time, automatically. Extra large wells take English muffins, frozen waffles, too. Easy-to-clean crumb tray. 2275 watts, 110-120 volts AC.
No. 36B320. Model T35. (Illus.) Shpg. wt. 6.4 lbs. Each..... **\$24.88**
No. 36A372. Model T75. 4-Slice Toaster. Not self-lowering. Each..... **\$24.88**

② Sunbeam STAINLESS STEEL PERCOLATORS
Every luxury feature: strength selector, serving signal light, coffee level gauge, twist-lock top. Keeps coffee serving-hot automatically. 800 watts, 110-120 volts AC. Shpg. wt. 4.2 lbs.
No. 36B316. 12-Cup Capacity. Model AP76 (Illus.) Each..... **\$23.95**
No. 36B317. 8-Cup Capacity. Model AP74. Each..... **\$17.95**

③ Lady Sunbeam "FLAIR" HAIR DRYER
Fashionable—at home or away. Rose beige molded plastic case. Lightweight, easy to carry. Large size cap and collapsible hose store inside case quickly, easily. 4-position heat control. 110-120 volts, 60 cy. AC only.
No. 36B318. Model HD14. Shpg. wt. 5 lbs. Each..... **\$14.88**

④ G.E. CORDLESS RECHARGEABLE AUTOMATIC TOOTHBRUSH
"The General Electric Toothbrush (with the up & down motion) has been provisionally accepted as an effective cleansing device for use as part of a program for good oral hygiene to supplement the regular professional care required for oral health".
Council on Dental Therapeutics
American Dental Association

Features "up & down" motion. 4 personal pastel colored brushes. Charges by induction, no electrical contacts to wear or corrode. Wall mount bracket included. UL listed. Shpg. wt. 1 1/2 lbs.
No. 60B71. Special Each..... **\$14.90**

⑤ Sunbeam CAN OPENER, KNIFE & SCISSORS SHARPENER
Opens any standard size can. Sharpens knives and scissors. Removable stainless steel cutting wheel for easy cleaning. Flip-top magnet holds lid. Compartment for excess cord storage. 110-120 volts AC. Shpg. wt. 6.3 lbs.
No. 36A373. Model DCO. Each..... **\$16.99**

⑥ Sunbeam ELECTRIC IRONS
36-vent spray, steam or dry iron. Exclusive 36-vent soleplate for maximum steam coverage. Water level gauge shows when to add more. Gleaming white custom grip. Fine steady spray at any setting. Fabric guide, stainless steel water tank, interchangeable cord. 1200 watts, 110-120 volts AC only. Shpg. wt. 4 lbs.
No. 36B314. Model SS3. Each..... **\$17.95**
No. 36B315. Model TSS3. As above with Teflon coated soleplate. Each..... **\$19.95**

⑦ Sunbeam TEFLON COATED BUFFET STYLED MULTI-COOKER FRYPAN
Miracle Teflon coating permits non-stick cooking, no scou cleaning. Attractive buffet styling. Removable heat control permits complete immersibility. 5-position high dome vented cover. White trim. Large size. 1250 watts, 120 volts AC. Shpg. wt. 8 lbs.
No. 36B319. Model TMLB. Each..... **\$22.95**

⑧ NEW Sunbeam PORTABLE ELECTRIC CLOTHES DRYER
Perfect for Apartments . . . Terrific for Travel . . . Handy for Homes
Boasts the features of the larger expensive dryers. Here's the handy automatic way to tumble-dry your clothes—anywhere. All you need is an electrical outlet, plus the space of a small TV set. Easy automatic timer lets you set and forget. 3 drying temperatures. Front loading. Amazing load capacity of 2 lbs. 60 minute automatic timer. Size 16 1/8 x 12 5/8 x 7 1/8". 660 watts, 110-120 V. 60 cy. AC. 3000 RPM fan. Shpg. wt. 14 lbs.
No. 36A374. Model DE111. Each..... **\$34.88**

OSTERIZER-LIQUEFIER-BLENDER CLASSIC VIII WITH 8 PUSH-BUTTON CONTROLS

SELECT THE CORRECT SPEED FOR YOUR PARTICULAR JOB!

At last . . . an Osterizer blender with 8 recipe-tested speeds at your fingertips conveniently operated by modern, push-button control. A separate, clearly marked button for each of the 8 processing actions. . . Stir, Puree, Whip, Grate, Mix, Chop, Blend and Liquefy. The extra-low stir speed is especially desirable for processing of foods to coarse textures, such as chopped parsley, hard-cooked eggs for salads, etc. Has a powerful 620 watt motor that handles even the heaviest batters with ease. Tapered cutting-well allows continuous feeding of ingredients to processing blades. Big 5-cup heat-resistant glass container with convenient handle and pouring lip . . . opens at both ends for easier cleaning and emptying. Seal-tite cover has removable 1-oz. measuring cup . . . permits adding ingredients during processing.

An exclusive extra . . . a 1/2-pt. heat-resistant blend and store jar for grinding coffee and spices and preparing and storing a small quantity of food is included. Chrome plated zinc die-cast housing. Black control panel in front with name-plate in brushed gold with aqua and white trim. Stainless steel processing unit. 8-speed universal motor for operation on 115 volts, 25-60 cy. AC only, 620 watts. Complete with 96 page illustrated recipe and instruction book. Shpg. wt. 16 lbs.
No. 34B18. Model 541-11. Each..... **\$45.97**

IT'S THE FINEST YOU CAN BUY!

\$45.97



NORELCO ELECTRIC SHAVERS

① NEW TRIPLEHEADER SPEEDSHAVER 35T
Nearly 40% raster shaves than ever before. Has three "floating-heads" for extra speed. 35% thinner microgroove heads for extra closeness. 18 rotary blades for extra comfort. Pop-up trimmer . . . easy snap-off cleaning . . . on/off switch, and voltage selector switch for 110-220 volts AC/DC. Coil cord. Metal travel case. Shpg. wt. 2 1/2 lbs.
No. 60A429. Each..... **\$23.77**

② "FLOATING-HEAD" SPEEDSHAVER 30
World travel model: 110-220 volts, AC/DC. Self-sharpening rotary blades in 35% thinner microgroove "floating-heads". On/off switch, easy "flip-open" cleaning, pop-up trimmer, coil cord. Handsome travel case.
No. 60B26. Shpg. wt. 2 1/2 lbs. Each..... **\$20.37**
No. 60A432. 40C. Same as above plus being rechargeable. Shpg. wt. 3 lbs..... **\$29.97**

③ CORDLESS SPEEDSHAVER 15C
The compact, low-cost second shaver. Runs on 4 pencil batteries . . . shaves anywhere. "Flip-top" cleaning . . . on/off switch . . . drawstring pouch. Ideal for car, boat, desk. Shpg. wt. 2 lbs.
No. 60A374. Each..... **\$11.15**

④ "FLIP-TOP" SPEEDSHAVER 20
The beginning shaver's favorite! Self-sharpening rotary blades for comfort. On/off switch . . . easy "flip-top" cleaning . . . 110 volts, AC/DC. Rugged travel case. Shpg. wt. 2 lbs.
No. 60A376. Each..... **\$13.57**

REPLACEMENT HEADS

No. 60A30. For Floating Head Models. Each..... **\$2.95**
No. 60A140. For Flip-Top Models. Each..... **\$1.95**

LIGHTEN YOUR CLEANING LOAD WITH THIS GE MVI PORTABLE CLEANER

Handy, camera size cleaner stores away where others can't. Only 4 lbs. 2 oz., it's as easy to carry as a pocketbook . . . yet so powerful it sucks in over 4 gallons of air every second. A new, quiet kind of ball-bearing motor purrs with powerful efficiency, sniffs out dust and dirt from the most inaccessible places. 22 ft. cord reaches anywhere. Permanent cloth filter bag is reusable and washable, holds 1 qt. Key slot underneath, lets you hang it in closet. Never needs oiling. Just 4 1/2" W, 7 1/4" H, 12" L. 195 W. Shpg. wt. 11 lbs.
No. 36B340
With Attachments. Special Each..... **\$24.88**

USEFUL SHOP TOOL TOO **\$24.88**

COMPLETE ATTACHMENTS

- Bare Floor Tool.
- Upholstery Nozzle.
- 3 Extension Wands.
- Dusting Brush.
- Crevice Cleaner.
- Shoulder Strap.



WORLD'S MOST COMPACT PORTABLE ELECTRIC REFRIGERATOR

FOR • AUTO • HOME • BOAT • OFFICE

**EASY FOR ANYONE TO CARRY
WEIGHS A MERE 16 POUNDS...
OPERATES ON 110 VOLTS AC OR
PLUGS INTO CAR LIGHTER
OUTLET**

**NO MOVING PARTS,
NOTHING TO BREAK**

This is a top quality electric refrigerator measuring only 14 3/4 x 12 1/4 x 13 1/4" and weighing only 16 lbs. . . . yet it holds 18 lbs. of your favorite foods and beverages. Instant convenience for business, motels, field offices . . . LIGHTWEIGHT LUXURY for fishing, hunting, camping, cottages . . . COMPACT EFFICIENCY for doctors, dentists, hospitals, labs, sick-rooms . . . HOME CONVENIENCE for the bedroom, bar, rec room. Complete with AC cord, car lighter plug-in adaptor, ice-cube tray. 3 year warranty against manufacturing defects—just return for repair or replacement. Fine refrigerator, made in Japan and imported by a most reputable American electronics corporation that exercises very rigid quality controls. Shpg. wt. 22 lbs. No. 34B42. Special Each..... **\$39.95**

**B-A SPECIAL
\$39.95
NO MONEY DOWN**

**USES NO MORE CURRENT THAN
YOUR CAR'S PARKING LIGHTS**

**3
YEAR**

GUARANTEE



**SAVE
ON
FAMOUS**

**Shetland
LEWYT**

DELUXE CANISTER TYPE Roll-A-Bout VACUUM CLEANER

WITH TURBO POWER BOOSTER & POWER THRU-WAY

**B-A'S UNHEARD OF
LOW, LOW PRICE**

**EXCITING
BEST
SELLING
VALUE!**

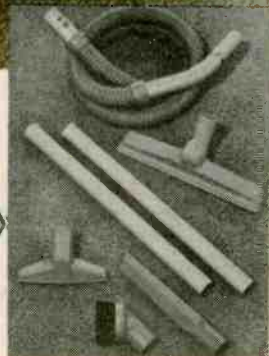
\$24.99



**POWERFUL MOTOR UL APPROVED
AT 750 WATTS 6.5 AMPS...
OVER 1 H.P.**

COMPLETE WITH

..... 7-Piece Accessory Assortment . . . Dusting Brush, Upholstery Nozzle, Crevice Tool, Rug and Floor Nozzle, Vinyl-Covered Hose, Two Wands.



Shetland/Lewyt extra value molded nozzle. Floating action Back Stop Brush at rear of nozzle assures trapping all particles including threads, pet hairs, flawless pickup on both carpets and bare floors. Nozzle swivels; is designed to hug carpet surfaces, keep even contact, allows vacuuming under low places with full suction power.

- 1 Free Wheeling. Cleaner glides over rug edges, floors, doorsills . . . goes from rugs to floors and back again on jumbo wheels.
- 2 Lie-Flat Luggage Type Handle. For convenience in handling. Positioned for perfect balance.
- 3 Multiple Filter System. Effectively traps dust from being blown back into room.
- 4 Space Saving Styling. Compact design for easy storage.
- 5 Dust Bag Safety Cradle. Dust bag safely suspends inside cradle — cannot slip or come loose from dust exhaust snorkle.
- 6 All Steel Housing. Baked enamel finish on rugged steel body.
- 7 Easy-Open Lid. Makes bag changing effortless.
- 8 Non-Slip Wand Connections. "Lock-in" power; prevent air leak. Easy to put together, take apart.
- 9 Reverse Air Stream. Reverses air flow for cleaner accessory function: blowing, spraying, demoting.
- 10 Wide Vinyl Bumper. Guards furniture, moldings against accidental scratches.
- 11 Foot Toggle Switch. No stooping or bending for on-off control.
- 12 Lightweight. Easy to carry anywhere about the house.
- 13 Exclusive See-Thru Speed Saks. Only no-poke, no-squeeze, no-guess disposable dust bags. Show at a glance when time to change. Giant size.

No. 34C39. Shpg. wt. 15 lbs. Complete..... **\$24.99**
No. 34C38. Box of 5 See-Thru Dust Bags. Mfg. List \$1.25. Box, Each.....,99c

INCANDESCENT and FLUORESCENT FIXTURES and LAMPS

FLUORESCENT DESK LAMPS FOR SHOP, OFFICE, HOME



FINE ADJUSTABLE DESK LAMPS

Feather-touch control allows adjustment of arms to ANY position, smoothly, noiselessly and without effort; stays put in selected position until moved again! 36-inch total length of arms with "universal joints" at base, center and shade. Shade with "on-off" switch on top, is 18" long, 4 1/2" wide. Has decorative die-cast ends and high light output reflector. Both models are UL approved and are fitted with 8-ft. connecting cords.

① DESK MODEL 4324

Has heavy no-tip cast base with felt on bottom. Wt. 28 lbs. Less Lamps

No. 32B54—Royal Gray
No. 31A262—Statuary Bronze
Choice **\$22.47** 3 @ **\$21.29**
Net Ea. Each

② CLAMP-ON MODEL 4303

Easily clamped to edge of any desk or table up to 2 1/4" thick. Wt. 10 lbs. Less Lamps.

No. 32B55—Royal Gray
No. 32B31—Statuary Bronze
Choice **\$16.36** 3 @ **\$15.29**
Net Ea. Each

PARALLEL ARM ACTION GIVES PERFECT CONTROL

Most convenient seeing aids made. Lamp head can be rotated and tilted to any position. Balanced parallel action steel arms allow lamp to be raised or lowered without affecting adjustment angle. Can be pushed aside or returned to service instantly. Arm extends up to 45" in any direction. Unbreakable all-steel base has extra stable double clamps for edge of desk or bench.

③ FOR TWO 15-WATT LAMPS

Finest light for close work of any kind, used by draftsmen, machine operators, offices, homes. Less Lamps. Wt. 10 lbs.

No. 34A13G—Grey
No. 34A13B—Brown
Choice **\$19.85** 3 @ **\$18.85**
Net Ea. Each

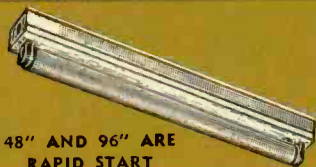
④ INSPECTION LAMP-MAGNIFIER

Both hands free to manipulate work. Furnishes glare-free light from 22 watt circline lamp around 5" distortion free lens. AC outlet in base. Less lamp. Wt. 12 lbs.

No. 34A15—Grey
Net **\$28.88** 3 @ **\$27.44**
Each Each

COOL FLUORESCENT LIGHTING FOR BROAD AREAS

QUALITY STRIPLIGHTS—15 TO 150 WATTS



48" AND 96" ARE RAPID START

Features U/L approved components throughout, heavy steel bodies finished in baked white enamel and removable covers to permit easy installation. Overall lengths are 1/2" longer than lamp used. 96" units are supplied with 1 1/2" dia. 430 MA Slimline Cool White Lamps. Others, with choice of lamp. Please specify.

Stk. No.	For Lamp	Channel Size	Weight	Net Ea.	3 @ Ea.
31A15	15-Watt, 18"	2 x 2 3/4" W.	4 lbs.	\$3.60	\$3.34
31A16	20-Watt, 24"	2 x 2 3/4" W.	5 lbs.	3.83	3.53
40B187	30-Watt, 36"	2 x 2 3/4" W.	8 lbs.	6.26	5.79
40B188	40-Watt, 48"	2 x 2 3/4" W.	10 lbs.	7.49	6.89
40A19	Two 75-Watt, 96"	4 3/8 x 5" W.	34 lbs.	19.85	18.86

RAPID START DOUBLE-40 PLUG-IN UNIT



on top and both ends—may be hung by rod, pipe or chains fastened to brackets on each end. Quick-on Reflector slips over lamp holders, is held by thumb screws. Super-white reflecting surface, gray enamel exterior finish. Size is 48 1/2" long, 13 1/4" wide, 6" deep; wt. 21 lbs. 6-ft. cord and plug, supplied complete with your choice of 40-watt lamps.

Stock No. 40B189. "Dreadnaught" 3 @ **\$12.39**
Double-40 Unit, Each **\$13.49** Each

Top efficiency, portable illumination —quickly installed or moved! TWO 40-watt lamps spaced 5-inches apart in full 13" wide reflector! U/L approved components mounted in strong steel wireway with knockouts

SYLVANIA ELECTRIC FLUORESCENT LAMPS

Day-light	Cool White	Warm White	Rated Lamp Watts	Net Wt.	Net Each	Lots of 6 Lamps Each	Lots of 24 Lamps Each
Stk. No.	Stk. No.	Stk. No.					
34C139	34C140	34C141	15	8 oz.	\$1.08	\$0.96	\$0.86
34C142	34C148	34C149	20	8 oz.	.95	.86	.77
	40B190		30	1 lb.	1.19	1.08	.97
*40B191	*40B192	*40B193	40	1 lb.	1.04	.95	.86

*Rapid or regular start.

CIRCLINE FLUORESCENT LAMPS				
12" Dia.	3486	32	1 lb. 2.87	2.28
8" Dia.	34814	22	1 lb. 2.97	2.43

CIRCLINE LAMP

CLAMP-ON INCANDESCENT LAMPS



FOR BENCH OR DESK \$9.72

Flexo Model 5600. Fully adjustable arm totals 31" length, beams light in any direction. Padded clamp bracket holds securely to flat surface up to 2 1/8" thick. Complete with 6 ft. AC cord and plug. Mfg. list \$11.95

No. 30A248G—Grey 3 @ **\$9.24**
Wt. 5 1/2 lbs. Less Bulb. Net Each Each

Swing-o-Lite Lamp. Most versatile adjustable lamp made. Has balanced parallel acting support arms to hold angle position of light regardless of up, down or side adjustment. Moves with a "flick of the finger" and stays put! Glide arms extend 45" in any direction from base. Clamp fits edge of table or other flat surface. Mfg. list \$19.90. Less Bulb.

No. 34A16—Grey 3 @ **\$14.20**
Wt. 7 lbs. Net Each Each **\$14.95**

OUTDOOR LIGHTING EQUIPMENT SPOTLIGHT BRACKET 75 and 150 Watt Outdoor Reflector Lamps



Cadmium plated OUTLET-BOX type bracket for ANY Reflector, Projector, or Heat Lamp. Adjustable to direct beam of light in ANY direction. May be fastened direct to 4" outlet box, or by screws to any surface. All steel; porcelain socket. Base 4 1/2" diameter. Wt. 1 1/2 lbs. (Less Lamp.)

"SYLVANIA" PAR-38 Weatherproof Spot or Floodlamp for OUTDOOR Built-in silvered reflector; skirted standard screw base. 120 volt. 2 lbs.



11A533. 75W Spot	Each . . .	\$1.83
11A534. 75W Flood	12, Each	1.67
11A536. 150W Spot	Each . . .	1.83
11A532. 150W Flood	12, Each	1.67

SYLVANIA INCANDESCENT LIGHT BULBS

AS LOW AS 16c EACH IN LOTS OF 24

Stk. No.	Watts	Pkg. of 2	*3 Pkgs. For	*12 Pkgs. For
34B280	15	\$0.40	\$1.08	\$4.10
34B281	25	.43	1.17	4.45
34B282	40	.43	1.17	4.45
34B283	60	.43	1.17	4.45
34B284	75	.43	1.17	4.45
34B285	100	.43	1.17	4.45

*Glare-Free Soft White Bulbs. Standard base. 120 V. AC-DC. Supplied in packages of 2.

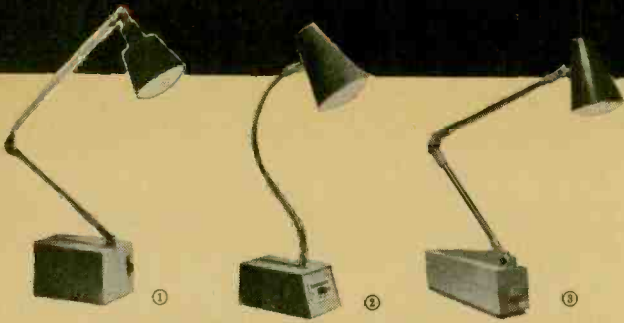
Stk. No.	Watts	Pkg. of 2	*3 Pkgs. For	*12 Pkgs. For
34B287	15	\$0.49	\$1.35	\$5.13
34A288	25	.49	1.35	5.13
34B289	40	.49	1.35	5.13
34B290	60	.49	1.35	5.13
34B291	75	.49	1.35	5.13
34B292	100	.49	1.35	5.13

*MUST BE ONE TYPE FOR QUANTITY PRICES

SYLVANIA FLUORESCENT STARTER SWITCHES

No.	Type	For Lamp	Net Ea.	10 @ Ea.	50 @ Ea.
20A68	FS-2	14, 15, 20-watt	24c	22c	20c
20A69	FS-4	13, 30, 40-watt			
20B8	FS-5	4,6,8,22,25-watt	42c	36c	32c
20B9	FS-12	32-Watt Circline	28c	25c	23c

FAMOUS TENSOR HIGH INTENSITY MINIATURE LAMPS



THE CLOSEST THING TO NATURAL LIGHT YOU CAN BUY!

• **LIFETIME AND ONE YEAR GUARANTEES**

Factory repair or replacement if unit becomes defective under normal use (excludes bulb and finish).

At bedside or chairside, on desk or table, these little lamps get in close to your reading or work without getting in the way. Features swivel heads and flexible arms—you get all the light where you need it, when you need it.

① **TENSOR "CLASSIC"**. Bright, white light never came in a cleaner, more functional package. No other high intensity lamp equals the concentrated, glare-free illumination of the Classic. Gives you the equivalent light of a 200 watt conventional desk lamp. Adjustable arm and shade, all metal construction. Keyhole slot for hanging on wall. Hi-Lo-Off switch. Bulb (#1133) supplied. Shpg. wt. 3 lbs. Spec. color: Gray, Brass or Brass/Walnut. *Lifetime Guarantee. **\$17.50**
No. 34C1. Each.....

② **TENSOR "STUDENT"**. When engineers design the perfect study lamp it looks like this. The student requires the minimum of desk space, provides the maximum in reading comfort. Supplies the equivalent light of a 150 watt conventional desk lamp. Flexible goose neck focuses light in any desired position. All metal construction. Hi-Lo-Off switch. Bulb (#93) supplied. Shpg. wt. 2 lbs. Specify color: Gray or Brass/Walnut. *Lifetime Guarantee. **\$9.95**
No. 34C2. Each.....

③ **TENSOR "PRINCESS"**. Attractive contemporary styling complements any room decor. Ideal for reading, making-up, manicuring, sewing, hobby work, or studying. Gives the equivalent light of a 100 watt conventional desk lamp. Keyhole slot for hanging on wall. Bulb (#93) supplied. On-Off switch. Shpg. wt. 2 lbs. Specify color: Beige, Black, or White. *One Year Guarantee. **\$9.95**
No. 34C9. Each.....

SIMULATED GAS LIGHT KIT

GIVES ANY ELECTRIC LAMP AUTHENTIC GAS LIGHT CHARM



\$1.98

LONG LIFE REPLACEMENT FOR REGULAR ELECTRIC BULB--ALL THE CONVENIENCE OF ELECTRICITY

Simple to install in outdoor lanterns, ornamental fixtures, hurricane lamps etc. . . . just screw into regular lamp socket . . . and forget it!

Operates cheaply, for less than 1/10 the cost of gas. Fibreglass mantle is burnout proof, never needs replacement. Produces light a-plenty for normal "gas light" installations. Complete with 3000 hour long life GE bulb. No. 11C117. Net Each..... **\$1.98**

OPERATES FOR ONLY 8¢ A MONTH

VERSATILE HIGH INTENSITY MINIATURE LAMP

USE AT HOME—TAKE IT WITH YOU HOBBYISTS, STUDENTS, HOMEMAKERS

- NIGHT LIGHT
- WALL LIGHT
- SPOTLIGHT
- TORCH LIGHT

\$12.95

MOST COMPACT AND PRACTICAL PERSONAL LIGHT WE HAVE SEEN

Glareproof pure white light wherever needed. Stands or hangs anywhere . . . on the smallest desk, night stand, drawing table, hobby bench, sewing table, bed, wall . . . dozens of practical uses. Has two-step brilliance control, completely adjustable arm and shade, non-tilting base with hang-up feature.

Arm and reflector fold down on base for soft night light; also to conserve space when packing away in luggage, drawer, etc. Size closed 7/8" x 2 3/4" dia. Beautifully made, black and white finished. For 115 V. 60 cy. AC. Imported highest quality. Shpg. wt. 2 lbs. No. 34A103. Special Each..... **\$12.95**



FOLDS INTO COMPACT UNIT

REPLACEMENT BULBS FOR ABOVE LAMPS

No. 16B226. Type 1133. Each.....39¢ No. 16A152. Type 93. Each.....30¢

INCANDESCENT DESK LAMP

A lamp of a thousand uses! Fine for every room of the home, office, shop, lab. Fully adjustable to any position. Brass socket with push-button switch and 7-inch parabola shade take any size lamp to 75 watts. Shade removable for "poking" into small areas or for heat lamps. Has weighted base, 6 ft. cord and plug. Wt. 4 lbs. Less Lamp.



\$2.40

12-Inch Flexible Arm

No. 32A20. **\$2.40** 6 @ **\$2.18**
Net Each.....

① SYLVANIA 250-WATT *Infra-red* HEAT LAMP



115 VOLTS AC-DC

Instant penetrating heat for treatment of aches and pains, drying paint, thawing, etc. No. 11A535. R-40 Clear Glass. **80¢**
Net Each. . . . 12 @ Each. . . .
No. 11A574. R-40 Red Glass. **\$2.13**
Net Each. \$2.37 12 @ Each.

② CLAMP-ON BRACKET FOR HEAT LAMPS

Rubber covered clamp, double ball swivel, extra heavy wire guard. Push switch socket, 6 ft. cord and plug. No. 20A932. Net Each..... **\$2.19**

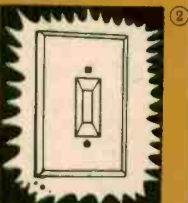
PANELESCENT NIGHT LIGHTS SHEDS A SOFT LIGHT—NO BULBS TO BURN OUT!



GLOW IN THE DARK

GOOD FOR 5 YEARS CONTINUOUS USE

Operate For Pennies a Year

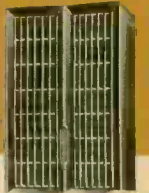


① **PLUG-IN NITE LITE**. Sheds gentle luminescent glow from any 115 V. AC outlet—simply plugs in. Only 3/4" dia., 1/4" thick. Wt. 2 oz. No. 11A474 **79¢** 10 Lots **69¢**
Net Each.....

② **WALL PLATE**. Attractive pearl-tone luminescent night light for hallway, stairway, bath, bedroom or nursery. Installs easily in place of regular switch plate. Automatically goes "on" when room light is "off". Wt. 4 oz. No. 11A364. **\$1.88** 10 Lots, **\$1.75**
Net Each.....

NUTONE ELECTRICAL DOOR CHIME

BEAUTIFUL TO SEE AND HEAR! \$4.97
DECORATOR STYLED FOR ANY ROOM IN THE HOME MFG. LIST \$6.95



Sounds 2 Notes for Front Door, 1 Note for Rear

Desert sand cover, brass grille. Pleasing musical tone. Finest construction for years of service. Size 4 7/8" x 7 3/4" x 2 7/8". Wt. 2 lbs. No. 36B129. Model L-17. Mfg. List \$6.95. Net Each..... **\$4.97**

ELECTRICALLY LIGHTED CHIME PUSH BUTTON

Handsome gold anodized and black with internally lighted button for easy finding in the dark. No extra wiring required. Size 2 5/8" x 1 1/2".

No. 20A6. Model PB10L. Mfg. List \$1.70. Net Each. **\$1.23**
Plain Pushbutton—No light. Gold anodized. No. 20A7. Model PB11. 2 3/4" x 3/4". Net Each..... 47¢

NUTONE TRANSFORMER

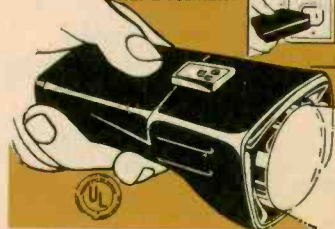
For use with above electric door chimes. 16 volts (10 VA) mounts any place. Can take substantial surge loads. 10 watts. Measures 2 x 2 5/8 x 2". Shpg. wt. 1 lb. **\$2.41**
No. 20A4. Mfg. List \$3.35. Net Each.....
No. 2C192 Chime Hook-up wire. 2 Cond. Twisted. **99¢**
100 Ft. for.....



POWERFUL RECHARGEABLE FLASHLIGHT

NEVER NEEDS BATTERY REPLACEMENT

\$7.95

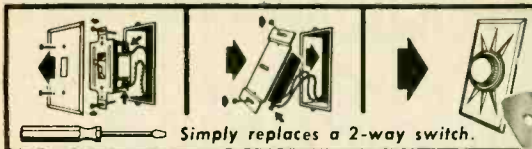


Extra dependable flashlight uses revolutionary new rechargeable battery burns brightly for hours on one charge. Recharges again and again just by plugging into 115 V. AC outlet. Convenient palm size, easy to hold. Has leather belt loop, luminous switch, built-in Alnico magnet for quick-hold attachment to any steel object. Full 5 year guarantee. **Factory Suggested Retail \$9.95 Wt. 1 lb. No. 11A470. \$7.95 6 Lots, \$7.50 Special Each**

Light-Dimmers, Automatic Time Switches

ELECTRONIC LIGHT DIMMERS

FOR GLAMOR LIGHTING IN HOMES, OFFICES OR SUBDUED CONVENIENCE AND SAFETY LIGHTING



Simply replaces a 2-way switch.

Brand new product of modern electronic technology. Incorporates "solid state" diodes to adjust current flow without heat or power loss. No coils or resistors as in other dimmers. Installs by simple 2-wire connection in place of regular wall switch.

SIMPLY DIAL THE LEVEL OF LIGHT... CREATE THE MOOD YOU WANT

From full on to zero light output or any degree in between. Smooth, gradual dialing is combined into a single control with positive on-off push-button action at any predialled light level. Wall plate not supplied. For 115 V. 60 cy. AC incandescent lights only. UL Listed
No. 29B3. 600 W. Capacity. Fits single gang box. Net Each... **\$11.97**
No. 13A352. 1000 W. Capacity. Fits 2-gang box. Net Each... **\$29.96**

GLAMOR-GLO 3-POSITION OFF-HI-LO SWITCH

Controls lighting at "off", 50% intensity or full on. Shpg. wt. 4 ozs. For 115 V. 60 cy. AC incandescent lights.
No. 29B4. 300 W. Maximum Lamp Load. Net Each... **\$1.71**
No. 29B5. 600 W. Maximum Lamp Load. Net Each... **\$3.18**

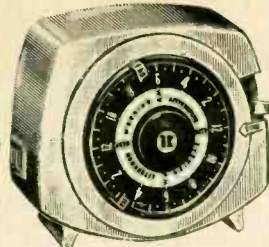


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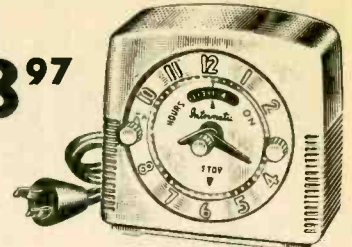
\$11.97

600 W

INTERMATIC AUTOMATIC TIMERS



\$8.97



DELUXE "TIME-ALL" MAKES ANY APPLIANCE AUTOMATIC!

Turns appliances, fans, lights, etc. "on" and "off" at any selected time from 1 hour to 23 hours. Automatically repeats same "on" and "off" operation daily without reset. Manual control switch allows temporary or permanent "on"-"off" independent of automatic switch if desired. Requires no installation—simply plug unit into wall socket and appliance cord into receptacle on the "Time-All." Handles up to 1875 Watts. Gray plastic case only 5x4x2". Mounts on wall if desired. UL approved. Wt. 2 lbs.
No. 37A315. Time-All Model A211. Net Each... **\$8.97**

CLOCK-TIMER COMBINATION ELECTRIC CLOCK AND SIGNAL TIMER

Not only tells time, but also is a dependable automatic timer for controlling electric fans and heaters, TV sets, lamps, radios, etc. Turns appliance on automatically for periods of 15 minutes to 5½ hours... turns off automatically. Especially suited for use with tape recorders in recording favorite programs while you are away. Capacity 15 amps, 1875 watts. No installation—just plug it in, set and forget. Desert Sand Plaskon case, 4¾x4½x2¼". 6 ft. heavy duty cord for 105-125 volts AC only. UL. Wt. 2 lbs.
No. 37B124. Model A401. Net Ea... **\$8.47**

AUTOMATIC TIMED EXTENSION CORD



\$5.47

SET IT AND FORGET IT!

Turns Off Home Appliances Automatically

Here's a happy combination... an adjustable Time Switch, Extension Cord and 3-Way Convenience Outlet! Promotes peace of mind... just plug it in and set it for automatic electrical "turn off" of appliances, radio, TV, lamp, fan, heating pad, etc. up to 4 hours later. Simple time-set knob adjusts to desired operating period. Also has "hold" position for continuous non-automatic operation.

High quality throughout. Uses famous Mark Time automatic switch, heavy duty 6 ft. cord, molded plug and 3-way receptacle. Ivory finish. Rating, up to 10 A. 125 V. AC. Factory guaranteed against defects in material and workmanship for one year. Shpg. wt. 2 lbs
No. 29A442 Net Each... **\$5.47**

AUTOMATIC PHOTOELECTRIC SWITCH TURNS LIGHTS ON AT DUSK... OFF AT DAWN

NIGHT TIME PROTECTION FOR YOUR HOME

Discourages prowlers, prevents accidents in the dark by turning on the lights for you—automatically. Tiny light sensitive cell in face of control box actually sees daylight and through 115 V. AC power source causes relay switch to turn lights off and on with daylight and darkness. Completely silent operation. Uses less power than an electric clock. Simple plug-in connection with U/L approved cord set. Handles lamp load up to 600 watts. Size 3x2½x2". Wt. 12 oz.
No. 37B149. Net Each... **\$5.95**



\$5.95

SPECTACULAR BUY! TV TIMER CONTROL

Turns Off TV Automatically While You Sleep!

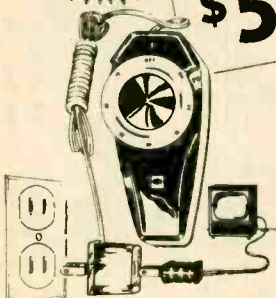
New! FOR BLACK AND WHITE AND COLOR TV!

\$5.97

EXTRA LONG 20 FT. CORD

- 500 Watts capacity.
- No installation.
- Just plug in.
- May also be used for radios, lamps, recorders, etc.

Now you can fall asleep while TV is still on! No need to wake up and turn it off. TV Timer Control turns off TV automatically. Simply plug TV set into Timer Control and Time Control into wall outlet. Turn dial to choose automatic "turn-off" time from 10 minutes to one hour. That's all. Shpg. wt. 2 lbs. Top quality import.
No. 37C416. Model M8. Each... **\$5.97**



INTERMATIC MODEL T101 UTILITY TIMER ALL-PURPOSE TIME SWITCH

FOR DEPENDABLE AUTOMATIC ON-OFF ELECTRIC CONTROL

OF:

- APPLIANCES • LIGHTS • FANS
- MUSIC SYSTEMS • ETC.

HEAVY-DUTY UP TO 40 AMPS (4375 WATTS) 125 VOLTS AC

\$8.77

HANDLES EVERY TIME NEED AROUND THE HOME OR BUSINESS



Automatic switch, powered by 115 V. 60 cy. AC synchronous clock, repeats timing cycle each 24 hours. Manual switch allows independent operation when desired. Comes with one set of adjustable on-off trippers; others easily added without removing dial, for up to 12 on-off operations per day. Minimum time between settings, 1 hour. Heavy duty 40 amp switch contacts will handle in-rush currents up to 8 times normal rating. Encased in gray steel cabinet with hinged door and wiring knockouts. Size 7¾" H, 5" W, 3" D. For 115 V. 60 cy. AC. Wt. 3 lbs.
No. 37B350. Net Each... **\$8.77**
Type T103. Same as above but Double Pole Single Throw. **\$9.97**
No. 37B351. Net Each...
Type 107T8A. Set of "On and Off" Trippers for Intermatic switches. **26c**
No. 37A321. Net Per Set...

TORK 24 HOUR PROGRAM TIMER

- 15 MINUTE SWITCHING
- REPEATS 1 TO 48 DAILY OPERATIONS FOR PRECISE AUTOMATIC CONTROL OF ELECTRICAL SYSTEMS

Ideal precision timer for music systems, lights, ventilating and heating, pumps, etc. Used extensively in industrial plants as well as homes, farms, etc. where high dependability is required even under extreme cold or warm temperatures.

Exclusive tilting-tab adjustment on timer drum allows rapid set-up or change for 15 minute increments of "on" or "off" operation up to 23 hours and 45 minutes. Switch is precision snap action type, SPDT, rated 20 amps 115 V. AC. Powered by extra heavy duty long life 115 V. 60 cy. timing motor. Drawn steel case, hinged lid, 8½x5¾x4½". Wt. 5 lbs.

No. 37B381 Mfg. List \$29.95. Net Ea... **\$19.97**

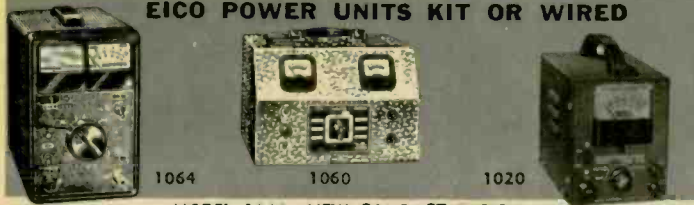


MFG. LIST \$29.95

\$19.97

Inverters, Power Supplies, Mercury Batteries

EICO POWER UNITS KIT OR WIRED



MODEL 1064—NEW COMPACT DESIGN

Delivers ripple free DC in two ranges. 0-8 volts and 0-16 volts continuously variable by front panel control adjustment of variable transformer. Ideal for servicing transistor equipment, auto sets, portables, as battery substitute or battery charger. Ranges (selected by toggle switch) 0-8 volts at 10 amp continuous, 20 amp intermittent and 0-16 volts at 6 amps continuous, 10 amp intermittent. Output voltmeter and ammeter permits constant monitoring. Fused primary, automatic reset overload relay on secondary. Gray cabinet size 8 1/2 x 5 3/4 x 7 1/2". Wt. 14 lbs. Use on 105-125 volts AC 50-60 Cycle line.

No. 35A272, 1064K. Kit Each. **\$45.95**
No. 35A273, 1064. Factory Wired. Each. **\$54.95**

MODEL 1060 LOW RIPPLE VARIABLE POWER UNIT

Incorporates extra low-ripple filter circuit to supply dependable DC power for servicing and operating all 6 or 12 volt transistor radios, amplifiers, vibrator-tube sets and other equipment. Has variac-type voltage adjustment. Ranges (selected by 6-12 volt toggle switch), are 0-8 volts at 10 amp. continuous or 20 amp. intermittent and 0-16 volt at 6 amp. continuous, 10 amp. intermittent. Two meters, 0-20 volts and 0-10/0-20 amperes permits constant monitoring of the output. Ruggedly constructed with fused primary and overload reset protection. Operates on 105-125 volts AC 60 cycles. Weight 19 lbs. Size 8 3/4 x 10 1/2 x 7 3/4".

No. 35A193, Model 1060. **\$39.95** No. 35A194, Factory Wired. **\$49.95**
Complete Kit. Net Each. **\$39.95** Ready to Use. Net Each. **\$49.95**

MODEL 1020 TRANSISTOR POWER AND BIAS SUPPLY

Continuously variable 0-30 volts monitored by dual range voltmeter. Versatile, stable, transistorized, capable of up to 300 MA. Ideal bench unit which will supply all voltage needed to operate transistor devices, variable bias supply, DC filament supply and to recharge batteries of various kinds. Output voltage continuously variable from 0-30. Current rating 150 MA from 0 to 12 volts. 200 MA from 12 to 24 and 300 MA from 24 to 30. Extremely low ripple 120 cps. at full load is only 0.005%. Size 5X 4x5 1/2". Housed in gray steel cabinet. Fuse protected. Wt. 5 lbs.

No. 35C397, Model 1020. **\$25.95** No. 35C398, Factory Wired. **\$34.95**
Complete Kit. Net Each. **\$25.95** Ready to Use. Net Each. **\$34.95**

"TERADO" TRAV-ELECTRIC INVERTERS

CHANGE BATTERY POWER TO
115 VOLTS, 60 CYCLES AC



Galaxy, new transistorized unit with adjustable voltage and frequency. Operates dictating machines, power tools, TV and recorders. **Electral**, small glove compartment size, operates tape recorder, radios, etc. Has cigarette lighter connector. **Senior**, time proven, reliable, small in size. **Dynamo**, lowest cost converter, operates all shavers, small radios, etc. **Supreme**, up to 200 watts AC power, has remote control with variable output switch and indicator light. Connects direct to battery. **New transistorized (Series 200 Watt Atlas and 275 Watt Continental and 550 Watt Dual Continental Continuous Duty)**. Uses transistors for more efficient, quieter operation. Produces good wave form, at 60 cycles controlled by frequency read, well filtered, for operating tape recorder, phonograph and other motor type appliances as well as TV sets, power tools, etc. Complete with remote control and all wiring.

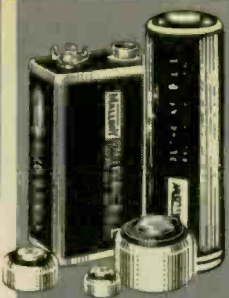
Stock No.	DC Volts Input	Output	Wtge. Conf. Interm.	Mfg. No.	Wt. Lbs.	Size Inches	Net Each
29B130	12	25	30	Dynamo	2	2 x2 x3 3/4	\$9.95
29A152	12	42	52	Electral	3	3 x2 1/4 x5 1/2	20.77
29A146	12	40	50	Senior	3	2 1/2 x2 1/4 x4 1/2	18.47
29B165	12	140	175	Galaxy	9 1/2	10 3/4 x6 x6	36.78
29A154	12	175	200	Supreme	25	10 3/4 x6 x6	84.07
29A176	12	275	300	Cont'nt'l	30	11 x6 x6	153.13
35B26	12	550	600	Cont'nt'l	60	10 3/4 x13 x7 1/4	307.77

NOW... 117 VOLTS OF HOME ELECTRICITY IN TENT, TRAILER, BOAT... ANYWHERE! TERADO TRAV-ELECTRIC COMPLETELY SELF-CONTAINED 117 VOLT AC POWER SUPPLY

For use anywhere. Operates TV, recorders, electric drill, test equipment, hedge trimmer, TV camera, soldering iron, sewing machine, electric lights, PA systems. Contains inverter with battery and automatic recharger. Output 117 volts 60 cycle AC, 125 watts continuous, 175 intermittent. Meter shows charge rate and hours of anticipated output. Battery: 25 amp hr. wet storage. Charger operates on 110 V. AC or 12 volts (cigarette lighter socket), 6 amp rate automatically tapers to 0, will not overcharge if left on. Copper clad case 12x5 1/2 x8". Wt. 30 lbs. Shpg. wt. 36 lbs.



No. 29A169, Model 50-160 **\$60.63**
Complete. Each. **\$60.63**



FABULOUS NEW... MALLORY DURACELL

MERCURY BATTERIES

LAST UP TO 5 TIMES LONGER THAN ORDINARY BATTERIES

New construction puts in more high-energy chemicals, gets out more performance.

Stock No.	Mallory No.	List Each	Net Each	Pkg. Qty.	@ Each	Volts	Size O.D.	Inches H.	Replaces Eveready
14B422	RM1	.75	.57	4	.52	1.35	5/8	x 2 1/2	E1
14B428	RM3R	1.50	1.15	4	1.05	1.35	1 1/2	x 2 1/2	E3
14B439	RM4R	1.95	1.44	4	1.35	1.35	1 1/2	x 2 1/2	E4
14B442	RM12	1.25	.96	2	.87	1.4	5/8	x 2	E12
14A459	RM12R	1.50	1.15	2	1.05	1.35	5/8	x 2	E12N
14C514	RM42	3.95	2.68	2	2.68	1.4	1 1/2	x 2 3/8	E42
14D518	RM42R	4.50	3.15	2	3.15	1.35	1 1/2	x 2 3/8	E42N
14C515	RM400R	.50	.39	2	.35	1.35	3/8	x 1 1/2	E400
14A431	RM413	4.95	3.46	2	3.46	28	1 1/2	x 2 1/2	E401
14C415	RM401	.75	.55	3	.55	1.4	45	x 1 1/2	E502
14B438	RM502R	1.35	.96	2	.87	1.35	5	x 1 1/2	E625
14C477	RM575	.35	.26	4	.24	1.4	55x	.129	E625
14C478	RM625	.60	.46	4	.42	1.4	5/8	x 1/4	E625
14C418	RM625R	.75	.58	2	.53	1.35	5/8	x 1/4	E640
14C517	RM630	.60	.46	4	.42	1.4	3/8	dia. x 1/4	E675
14A555	RM640	.60	.46	4	.42	1.4	5/8	x 1 1/2	E640
14A554	RM675	.45	.35	6	.32	1.4	5/8	x 1 1/2	E675
14C562	TR115R	2.75	2.27	2	2.06	6.75	.65	x 1.295	E115
14A561	TR126	1.95	1.44	12	1.31	8.4	3/4	x 2	E126
14C429	TR132R	1.65	1.29	2	1.17	2.7	.655	x 1.305	E132
14C430	TR133	1.65	1.29	2	1.17	4.2	.655	x 1.96	E133
14B531	TR133R	1.95	1.48	2	1.35	4.05	x 2	E133N	
14C633	TR134R	2.50	1.89	2	1.72	5.40	x 2	E134N	
14C535	TR135R	2.95	2.20	2	2.00	6.75	x 3 1/4	E135N	
14C604	TR136R	3.50	2.64	2	2.40	8.1	.655	x 3.906	E136
14C613	TR145	2.50	1.89	2	1.72	7.0	.65	x 1.050	E145
14C614	TR146X	.94	1.44	2	1.31	8.7	1 1/8	x 1 1/8	E146
14C615	TR152R	1.50	1.15	2	1.05	2.7	.48	x 1.125	E152
14A676	TR163	1.65	1.29	2	1.17	4.2	x 1 1/4	E163	
14A553	TR164	1.95	1.44	2	1.31	5.6	x 1 1/4	E164	
14B566	TR165	2.50	1.87	2	1.70	7	x 1 1/2	E165	
14A557	TR177	1.95	1.44	2	1.31	9.8	x 1 1/8	E177	
14C423	TR233	3.25	2.50	2	2.27	4.2	1.015	x 1.969	E233
14A582	TR289	3.25	2.50	2	2.27	12.6	x 2 1/2	E289	
14B595	ZM-9	.95	.70	4	.64	1.4	Pen Cell	AA	E9

MALLORY DURACELL ALKALINE BATTERIES

PROVIDES UP TO 5 TIMES LONGER SERVICE FOR OPERATING

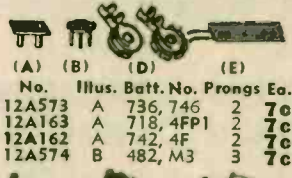
	RADIO	RECORDER	PHOTO FLASH	TOYS	FLASHLIGHTS
14A678	MN 9100	Replaces 904 or NE.	Net Each .30c	2 @ Ea.	27c
14A680	MN 1400	C Size Cell. 935 etc.	Net Each .55c	6 @ Ea.	50c
14A681	MN 1500	AA Penlight. 915 etc.	Net Each .35c	12 @ Ea.	33c
14A685	MN 1300	D Size Cell. 950 etc.	Net Each .71c	6 @ Ea.	65c
14B694	MN 2400	AAA Size. 912 etc.	Net Each .36c	12 @ Ea.	33c
14A607	MN 1604	9 Volt Transistor.	Net Each .92c	6 @ Ea.	84c
14A603	PX 825	Flashcube #1. Blister Pack of 4. Per Pack			\$1.32

MALLORY SILVER OXIDE BATTERIES

Tiny long life cells for the new, very small and powerful hearing aids such as Zenith and Audiotex.

14A598	MS13	.40	.30	6	.27	1.5	.205x	.305
14A599	MS41	.40	.30	6	.27	1.5	.157x	.455
14A600	MS76	.45	.33	6	.30	1.5	.205x	.455

BATTERY PLUGS AND SNAP-ONS



(D) 12A1341. Individual snap fasteners for 455, 457, 467, etc. Male and female. Per Set. **9c**
50 Up, Per Set. **7c**
(E) 14A717. Snap-on strip for 455, 456, etc. Each. **18c**
(E) 14C4. Snap-on strip for 437, 477, etc. Each. **18c**
(E) 14B127. Snap-on strip for U30, 415, 216, etc. Each. **24c**



KEYSTONE CLIP-IN BATTERY HOLDERS

TEMPERED ALUMINUM

Fits Battery Types	Holds No.	Stk. No.	Choice Each	1-19	20-99	100 Up
912 Eveready, #7 Burgess, or ZM-9 Mercury Cell	One 137	14B109	\$0.23	\$0.21	\$0.18	
	Two 138	14B110	.38	.34	.30	
915 Eveready, Z Burgess Pencil, or TR233 Mercury Cell	One 139	14B111	.23	.21	.18	
	Two 140	14B112	.38	.34	.30	
935 Eveready, 1 Burgess "C" Cell or TR233 Mercury Cell	One 173	14B113	.30	.26	.24	
	Two 174	14B114	.38	.34	.30	
412 Eveready, U15 Burgess 22 1/2 V. or RM-412R Mercury Cell	One 177	14B120	.30	.26	.24	
413 Eveready, U20 Burgess 30 V. or RM-413R Mercury Cell	One 183	14B123	.30	.26	.24	
950 Eveready, #2 Burgess "D" Cell or RM42R Mercury Cell	One 175	14B53	.30	.26	.24	
	Two 176	14B54	.38	.34	.30	
"D" Cells Mounted in Line	Two 186	14A59	.46	.37	.34	
504 Eveready, Y10 Burgess 15 V.	One 225	14B55	.21	.20	.18	
411 Eveready, U10 Burgess 15 V.	One 166	14B131	.30	.26	.24	

Batteries



EVEREADY Batteries

FOR RADIO AND ELECTRONICS
ENERGIZERS—TRANSISTOR BATTERIES

Stock No.	Fact. No.	List Each	Net Each	Pkg. Qty.	@ Each	Volts	Dimensions L. W. H.	Replaces Type
21B63	E9	.95	.72	2	.64	1.4	Mercury Pen Cell	Z9
21A38	1050	.30	.19	1	.19	1 1/2	1 1/2 x 2 1/2	Z30
21A43	206	.89	.62	1	.62	9	3/4" dia. x 2"	VS327
21B141	216	.69	.48	1	.48	9	1 1/2 x 1 1/2 x 1 1/2	ZU6
21A198	222	.98	.65	1	.65	9	1 1/2 x 1 1/2 x 1 1/2	P6
21B159	226	.89	.62	1	.62	12	1" dia. x 2 1/2"	VS329
21A25	228	1.50	1.05	1	1.05	13 1/2	1 1/2 x 1 1/2 x 2 1/2	XX9
21C62	239	1.85	1.30	1	1.30	9	1 1/2 x 1 1/2 x 2 1/2	2N6
21B142	246	1.85	1.30	1	1.30	9	1 1/2 x 1 1/2 x 2 1/2	M6
21A30	266	1.95	1.36	1	1.36	9	2 1/2 x 2 1/2 x 3 1/2	D6
21B137	276	1.95	1.36	1	1.36	4.5	.662 dia. x 1.965	1306
21A46	333	.89	.62	1	.62	1 1/2	.44" dia. x 1.18	Size N
21A40	904	1.25	.09	6	.08			

"B" BATTERIES FOR PORTABLE RADIOS, ETC.

Stock No.	Fact. No.	List Each	Net Each	Pkg. Qty.	@ Each	Volts	Dimensions L. W. H.	Replaces Type
21A27	412	1.50	1.05	1	1.05	22 1/2	1 1/2 x 3/8 x 2 1/2	U15
21B69	413	1.75	1.23	1	1.23	30	1 1/2 x 3/8 x 2 1/2	U20
21C165	417	1.75	1.35	6	1.23	22 1/2	1 1/2 x 3/8 x 1 1/2	K10
21B121	437	4.50	3.47	3	3.15	75	1 1/2 x 1 1/2 x 3 1/2	XX50
21B67	457	3.85	2.97	6	2.70	67 1/2	2 1/2 x 1 3/8 x 2 1/2	K45
21B26	477	3.85	2.97	6	2.70	67 1/2	1 1/2 x 1 1/2 x 5 1/2	P45
21B132	479	4.25	3.27	6	2.97	90	1 1/2 x 1 1/2 x 5 1/2	P60
21A19	482	4.25	3.27	6	2.97	45	3 5/8 x 1 7/8 x 7 1/2	M30
21C143	484	4.95	3.47	3	3.47	45	3 3/4 x 2 1/2 x 5 1/2	B30
21B20	490	4.50	3.47	6	3.15	90	3 3/4 x 1 3/8 x 5 1/2	N60
21B68	493	11.95	8.37	1	8.37	300	2 1/2 x 2 1/2 x 3 1/2	U200
21C140	506	1.85	1.30	6	1.30	30	1 1/2 x 3/8 x 1 1/2	Y20

PORTABLE "A" BATTERIES

Stock No.	Fact. No.	List Each	Net Each	Pkg. Qty.	@ Each	Volts	Dimensions L. W. H.	Replaces Type
21B70	717	1.75	1.35	6	1.23	7 1/2	2 1/2 x 1 1/2 x 3 1/2	C5
21B66	724	1.25	.87	1	.87	6	1 1/2 x 1 1/2 x 2 1/2	Z4
21A12	742	1.65	1.26	6	1.15	1 1/2	2 1/2 x 2 1/2 x 4 1/2	4F
21A15	746	2.25	1.73	3	1.57	4 1/2	3 3/4 x 1 1/2 x 4 1/2	G3
21A23	773	2.50	1.92	5	1.75	7 1/2	Scr. Ter. & Lead	5540
21A9	781	1.75	1.35	5	1.23	4 1/2	Screw Term.	5360
21B11	964	.60	.46	12	.42	1 1/2	1 3/8 Dia.	21R

HOBBY BATTERIES (Screw Terminals)

Stock No.	Fact. No.	List Each	Net Each	Pkg. Qty.	@ Each	Volts	Dimensions L. W. H.	Replaces Type
21B122	735	1.25	.84	1	.84	1 1/2	2 5/8 x 2 5/8 x 4 3/4	4FH
21A202	1010	7.95	5.30	1	5.30		Rechargeable Glo-Pug Pow-R-Pak	

PHOTO FLASH BATTERIES

Stock No.	Fact. No.	List Each	Net Each	Pkg. Qty.	@ Each	Volts	Dimensions L. W. H.	Replaces Type
21A188	812	.20	.14	1	.14	1.5	Round 3/8" dia. x 1 1/2"	720
21A50	815	.25	.16	1	.16	1 1/2	Pen Cell size	920
21A51	835	.30	.19	1	.19	1 1/2	C Cell size	120
21A52	850	.30	.19	1	.19	1 1/2	D Cell size	220
21A205	497	15.95	11.16	1	11.16	510	3 1/2 x 1 1/2 x 5 1/2	Y10
21A128	504	1.15	.81	1	.81	15	5/8 x 1 1/2 x 1 3/8	
21B116	460K	2.50	1.67	1	1.67		For Polaroid Winklite w/Lamp	
21A195	531	1.25	.82	1	.82	4 1/2	For New Polaroid	
21A196	EPX13	.75	.55	4	.50	1 1/2	For Polaroid & Others	

ALKALINE LONG LIFE, HIGH DRAIN TYPES

Stock No.	Fact. No.	List Each	Net Each	Pkg. Qty.	@ Each	Volts	Dimensions L. W. H.	Replaces Type
21A131	E90	.40	.27	1	.27	1 1/2	Size N	N
21A41	E91	.50	.33	1	.33	1 1/2	Pen Cell Size	915
21A197	E92	.50	.33	1	.33	1 1/2	AAA Size	912
21A133	E93	.60	.39	1	.39	1 1/2	C Cell Size	935
21C134	E94	.50	.33	1	.33	1.5	Rd. 1 1/2" dia. x 1 1/2"	1/2 D
21A53	E95	.75	.49	1	.49	1 1/2	D Cell Size	950
21A186	E177	1.98	1.29	1	1.29	9	Rd. 1 1/2" dia. x 1 1/2"	TR177
21A187	523	1.25	.82	1	.82	4.5	Rd. .066" d. x 1.96	MN1306
21A221	563	4.15	3.04	3	2.76	4.5	12 1/4" dia. x 7 1/2"	1 lb.
21A222	564	14.95	11.75	2	9.94	13.5	8 1/2" x 2 1/2" x 5 7/8"	5 lb.

For Flashlight, Lantern, Emergency Lighting, Toys

Stock No.	Fact. No.	List Each	Net Each	Pkg. Qty.	@ Each	Volts	Dimensions L. W. H.	Replaces Type
21A211	1461	5.50	4.07	4 for 14.80			Hot Shot 6 volt 9 Lbs.	
21A189	1463	5.98	4.01	1 for 14.80			Hot Shot 12 volt 7 1/2 Lbs.	

POPULAR "MINI-MAX" A-B BATTERY PACKS

Stock No.	Mfg. No.	Net Each	Voltage	Size	Wt. Lbs.
21A206	759	7.95	Standard	1 1/2/90 Volt Pack	15 1/2 x 4 3/8 x 6 1/8 17

QUICK ORDER LISTING OF THE MOST POPULAR BATTERY TYPES

ORDER BY STOCK NUMBER AND YOUR CHOICE OF EVEREADY-BURGESS-R.C.A.

For Flashlights, Lanterns, Toys, Instruments, Etc.

Stock No.	Eveready No.	Burgess No.	RCA No.	Volt or Size	Mfg. List	Net Each	Pkg. Qty.	At Each	Std. Pkg.	Wt. Pkg.
21C60	912	7	VS074	AAA	\$0.20	\$0.14	24	\$0.13		0.8
21A3	915	Z	VS034A	AA	.20	.14	24	.13		0.9
21A2	935	#1	VS035A	C Cell	.20	.14	12	.13		2.1
21A1	950	#2	VS036	D Cell	.20	.14	48	.13		9.5
21A5	No. 6	6 Ign.	VS006S	Dry Cell	1.35	.92	12	.84		25.
21A4	509	F4M	VS040C	Lantern	1.39	1.01	12	.92		17.
21B136	...	TW1	VS317	6 V. Ltrn.	2.95	1.96	1	1.96		3.2

"B" BATTERY AND PORTABLE "A" TYPES

Stock No.	Eveready No.	Burgess No.	RCA No.	Volt or Size	Mfg. List	Net Each	Pkg. Qty.	At Each	Std. Pkg.	Wt. Pkg.
21B71	411	U10	VS083	15 V "B"	1.15	.81	1	.81		.05
21B138	415	U30	VS086	45 V "B"	2.50	1.75	1	1.75		0.1
21B164	416	...	VS318	67 1/2 V	2.95	2.07	1	2.07		0.3
21A17	455	XX30	VS055	45 V "B"	3.25	2.27	1	2.27		.5
21A18	467	XX45	VS016	67 1/2 V "B"	3.85	2.70	1	2.70		.8
21A31	744	F4P1	VS009	6 V "A"	1.65	1.15	1	1.15		1.4

BURGESS Batteries

THE ACCEPTED STANDARD FOR INDUSTRY, LABORATORY, AND ELECTRONIC NEEDS. FRESH STOCK ALWAYS AT B-A!



"A" BATTERIES

Stock No.	Mfg. No.	List Each	Net Each	Pkg. Qty.	@ Each	Volts	Dimensions L. W. H.	Wt. Lbs.
21B123	2F	1.75	1.22	1	1.22	1 1/2	2 1/2 x 1 1/2 x 1 1/2	4 1/4
21B80	4F	1.65	1.15	1	1.15	1 1/2	2 5/8 x 2 5/8	4 3/4
21B81	21R	.60	.42	12	.42	1 1/2	1 1/2 x 1 1/2	4 1/8
21B87	2FBP	1.15	.87	5	.79	1 1/2	2 1/2 x 1 1/2	4 1/4
21B88	F2BP	1.90	1.46	5	1.33	3	2 1/2 x 1 3/8	4 3/4
21B89	F4BP	1.29	.85	5	.85	6	2 5/8 x 2 5/8	4
21B90	F2FH	2.50	1.93	5	1.75	3	2 5/8 x 2 5/8	4 1/4
21B91	422	1.15	.87	6	.79	3	2 1/2 x 2 1/2	4 1/4
21B92	432	1.25	.96	6	.87	4 1/2	2 1/2 x 2 1/2	4 1/4
21B93	532	1.95	1.36	1	1.36	4 1/2	2 1/2 x 2 1/2	4 1/4
21B153	B5	3.25	2.27	1	2.27	7 1/2	3 3/8 x 1 1/2	2 3/4

"B" AND "C" BATTERIES

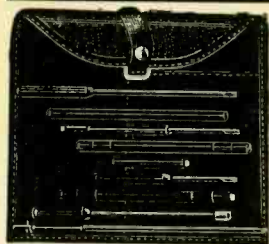
Stock No.	Mfg. No.	List Each	Net Each	Pkg. Qty.	@ Each	Volts	Dimensions L. W. H.	Replaces Eveready	Wt. Lbs.
21B97	P45	3.85	2.97	6	2.70	67 1/2	1 1/2 x 1 1/2 x 5 1/2	477	477
21A191	B30	4.95	3.47	1	3.47	45	4 1/4 x 1 3/4	484	484
21B98	M30	4.25	2.97	1	2.97	45	3 3/4 x 1 3/4	482	482
21B100	4156	2.35	1.61	1	1.61	22 1/2	3 1/2 x 2 1/2	763	763
21B101	5156SC	5.95	4.57	5	4.16	22 1/2	4 1/8 x 2 1/2	778	778
21B102	5308	4.35	3.05	5	3.05	45	4 1/4 x 2 1/2	762S	762S
21B104	K15	1.95	1.44	1	1.44	22 1/2	1 1/4 x 1 1/4	420	420
21B130	U30	2.50	1.75	1	1.75	45	4 1/4 x 1 3/8	415	415
21A18	XX45	3.85	2.70	1	2.70	67 1/2	2 3/4 x 1 1/4	467	467
21A192	Z30	3.95	2.76	1	2.76	45	3 x 2 1/2	738	738
21B113	Z30NX	3.85	2.69	1	2.69	45	3 3/4 x 1 1/8	W350	W350

PHOTO-FLASH BATTERIES

Stock No.	Mfg. No.	List Each	Net Each	Pkg. Qty.	@ Each	Volts	Dimensions L. W. H.	Replaces Eveready	Wt. Lbs.
21A216	N150	10.95	7.65	1	7.65	225	Strobonor 6	492	492
21A218	XX150	10.25	7.20	1	7.20	225	Stroboflash II, III	489	489
21A219	U160	10.25	7.20	1	7.20	240	Stroboflash I	491	491

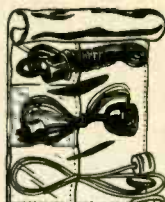
Handy Tools, Test Leads

POPULAR TOOL KITS AND AIDS USED IN TESTING AND SERVICING



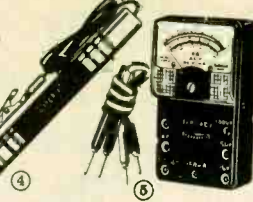
① HANDY TV ALIGNMENT KIT
A low cost kit that contains all the necessary aligning tools for doing a complete TV servicing job, 9 tools in all—in a convenient pocket sized leatherette roll case.
Made to last and wear for hundreds of jobs—an absolute must for every service shop. Includes K-tran tool, channel tool, tool for RF and IF, core aligner, oscillator tool, long reach aligner, universal aligner, duplex aligner, and flexible tuning wand.
GC8455. Wt. 1/2 lb.
No. 16A841. Each..... **\$6.13**

DELUXE TV ALIGNMENT KIT
Similar to above but with 16 tools in roll case. Handles alignment of most TV sets. All tools are of best quality available.
Designed to give long service.
GC8280. Wt. 1 lb.
No. 16C725. NET..... **\$10.09**



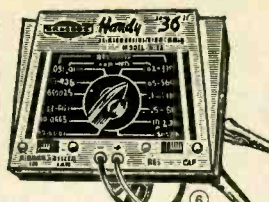
② TV SERVICE CORD KIT
Contains "most-needed" universal extension leads in a plastic roll-case.
Includes: 4 ft. anode extension lead with socket; 4 ft. picture tube extension with kinescope socket, CRT base and 6 leads; 5 ft. anode extension for metal tubes with snap connectors at each end; yoke extension harness with 8 wires that can be wired as desired; 6 ft. cheater cord for both standard and Zenith sets.
Wt. 1 lb.
14B285. Eby K308. Each... **\$4.95**

③ TUBE CHECKER
Locates bad receiving tubes and picture tubes in series filament TV and radios. Checks latest tubes including compactron, novar, nuvistor. Plug tubes in, neon glows if filament is OK. Leads provide continuity test, no shock hazard. Plugs in outlet with cheater cord. Weighs only 6 oz. Sencore FC123.
No. 16C296. With Leads... **\$3.95**



④ CHEK-IT ELECTRICAL CIRCUIT TESTER
Battery operated. 1000's of uses for the serviceman, electrician, auto mechanic. Checks continuity of circuits in radio and TV, motors, appliances, auto ignition systems, etc. Tests fuses, switches, buzzers... handle lights up when circuit shows continuity. Uses standard penlight cell. Shpg. wt. 8 ozs.
No. 17C422. Less Battery... **\$1.49**
21A3 Battery for above. Each... **.14c**

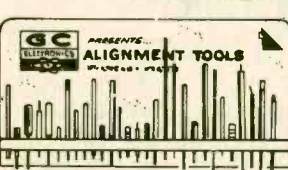
⑤ VOLT-OHM-MA TESTER
1000 OPV. AC or DC volts in 3 ranges 0-15, 0-150 and 0-1000; DC current 0-150 MA. Resistance 0-100,000 ohms. Thumb-operated ohms zero adjust and pin jacks for all 5 ranges. Bakelite case 4x2 1/4 x 1 3/8". Test leads, self-contained battery. Instructions included. Wt. 1 lb.
No. 35A573.
Import Special..... **\$6.95**



⑥ R-C SUBSTITUTOR
Provides 36 of the most often needed components for direct substitution: 12 one-watt 10% resistors from 10 to 5600 ohms; 12 half-watt 10% resistors from 10K ohms to 5.6 megs.; 10 capacitors from 100 mmfd. to 0.5 mfd., 600 volts; one 10 mfd. and one 40 mfd. 450 volt electrolytic. Three-pole, 12 position switch selects each component individually. Sencore H36.
Wt. 2 lbs.
No. 16B316. Net..... **\$12.75**

⑦ EBY POCKET TESTER
Low voltage tester (1000 V.) AC, DC; high voltage tester (50 K.V.) for TV power supplies; A.G.C. substitution voltage supply; signal tracer; audio oscillator; condenser tester; continuity tester. Visual output meter for alignment of radio IF and TV sound IF transformers. Wt. 1 lb.
No. 16B629.
Type A-1000. Each..... **\$5.95**

ALIGNMENT TOOL PANEL KIT



Wall mounting kit with 27 tools for complete radio-TV alignment service. Includes: alignment screwdrivers, wrenches, channel tuners, oscillator adjustment tools, core aligners, solder probe, trimmers and IF aligners, hex tools, nylon replacement tip, etc. Steel panel has separate indexed compartment for each tool. Shpg. wt. 3 lbs.
No. 16B124.
GC9200. Each..... **\$17.17**

SIGNAL TRACER TROUBLE SHOOTING AID

SAVES TIME AND MONEY
Finds defective stage in a minute. Produces 1000 cycle signal for fast tracing of troubles in transistor radios, tube radios, hi-fi amplifiers, TV sets, etc. No need to unsolder transistors for checking. Size 3 1/2 x 4 1/2 x 1 3/8". Complete with batteries. Sencore HG104. Wt. 1 lb.
No. 16A315. Net Each..... **\$9.95**



H. H. SMITH TEST LEADS



Test Leads of Best Quality Flexible, Kinkless Wire 48" to 50" Long

① PHONO NEEDLE TYPE
Replaceable phono needles one end, choice of below connectors other end. Slim 4" red and black handles.
11A167. With Std. Phone tips. **87c**
Type 613. Pair.....
11B51. With spade lugs. Pair... **87c**
11B52. With alligator clips. Pr... **93c**

② SLIM LINE TYPE
Long vinyl-insulated shafts. Red and black tenite handles. Phone tip plugs.
Type 698.
No. 16A517. Per Pair... **\$1.14**

③ ALL PURPOSE TYPE
Sturdy slim 6" plastic handles with sharp point tips. Equipped with banana plugs allowing for interchange of spade lugs, phone tips or alligator clips all supplied. Type 610.
No. 11A169. Complete Kit... **\$1.80**

④ WESTON TYPE
Well made for precision tests. Red and Black 4" long pencil type plastic handles, 48" lead, molded finger grip phone tips. Type 625.
No. 11A171. Per Pair... **\$1.35**

⑤ RETRACTILE TEST LEADS TYPE 618
Coiled cords extend to 6 ft., retract to 12". Black and red molded butyrate handles, plastic red and black plugs. Solderless phono tips.
No. 11C168. Per Pair..... **\$2.95**

TEST PRODS AND WIRE



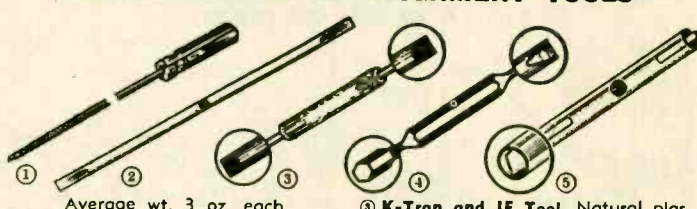
① Phono Needle Type—Tapped removable chuck holds standard phono needles. Red or Black Tenolite handle.
11A173. Type 317. 5" long... **30c**

② Hard Steel Phono Needles. Standard straight shank type used in all phono needle test prods.
No. 24B333. Pkg. of 25..... **25c**

③ Test Lead Wire—Non-kink flexible wire with live rubber insulation. 5000 volt breakdown.
No. 2A65. 5' Red and 5' Black... **75c**
No. 2A64. 25' Red or Black... **\$1.15**

"CB" ALIGNMENT TOOL KIT
9 most often needed alignment tools for servicing citizens band equipment. Tune IF transformers, RF coils, antenna and oscillator coils... make countless intricate adjustments. In plastic carrying case. Shpg. wt. 1/2 lb.
No. 16B745. G-C 9210. Each..... **\$4.79**

MOST POPULAR QC ALIGNMENT TOOLS



Average wt. 3 oz. each

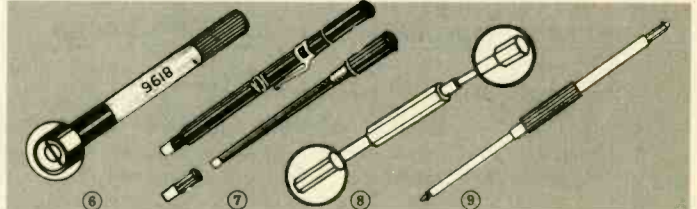
① Narrow Blade "Fibreglas" screwdriver completely insulated. Type 9291.
16B868. 7" L. x 3/8" dia. Ea... **83c**

② Long Reach Alignment Screwdrivers. Made of bone fibre, extra thin 1/8" dia. blades. Screwdriver tips both ends—can be re-ground.
16B870. Type 9293.
12" L. x 1/8" dia. Each..... **47c**

③ K-Tran and IF Tool. Natural plastic. Screwdriver tip, both ends. Type 5097.
16B746. 6 1/4" L. x 3/8" dia. Ea... **76c**

④ Molded Double Ender. Delvin plastic molded for Zenith TV's etc. Hex wrench 5 7/8" x .100" dia. one end, screwdriver tip other end. Type 8282.
16B751. Net Each..... **38c**

⑤ Low Loss Plastic Tool. 5" L. x 3/8" dia. Recessed blade one end, extended blade other. Type 8609.
11A319. Net Each..... **62c**



⑥ TV & FM Tuning Tool. Molded plastic. Fine recessed screwdriver tip. 2 1/2" x 3/8" dia.
No. 11B58. Type 8196. Each... **41c**

⑦ Alignment Tool Set. Fountain pen size. Has 1/4" and 3/8" nut wrenches, small and full blade screwdrivers. Made of bone fibre.
No. 11A156. Type 5015. Set... **\$1.24**

⑧ Delvin Plastic Hex Wrench. Hex wrenches both ends, one end undercut to reach bottom slugs in iron cores. 1 1/2" long.
No. 16C727. Type 8606L. Each **62c**

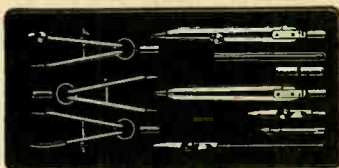
⑨ Transistor IF Core Aligner. Reaches bottom slugs in iron cores. 5" long.
No. 16B125. Type 2501. Each. **62c**

⑩ Color TV Cheater Tool. Removes ground from high voltage supply when back cover of set is removed. Permits insertion of high voltage probe through cheater.
No. 16B866. Type 5650. Each..... **73c**

⑪ Color TV Tool. Permits simultaneous adjustment of concentric controls on color TV sets.
No. 16B867. Type 9299. Each..... **\$1.42**

Service Tools

DRAWING SETS



ONLY **\$3.39**

Engineers quality 11 piece German made drafting set. 4 1/2" compass with pen and pencil part, 4 1/2" divider, 3 1/2" ruling pen, 1 each of 3 1/2" bow pencil, bow divider and bow pen all heavy nickel plated brass in felt lined container.

No. 37B175. Special, Each. **\$3.39**

DRAWING BOARD SET

18x24" drawing board of high grade 3/4" basswood and with end cleats for added strength plus 24" well seasoned hardwood T-square.

No. 36A200. Per Set. **\$4.29**

RADIO RULE

Makes symbols indicating tubes, meters, coils, transformers—all parts in chassis. Pocket size. With directions.

No. 11A314. Each. **90c**



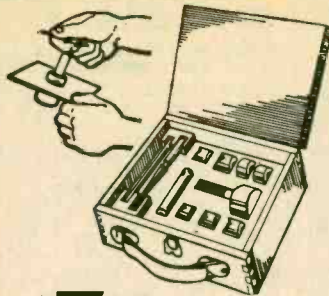
\$5.79

TV SERVICE MIRROR FOR VIEWING SCREEN WHILE SERVICING SET

Just the thing for viewing the TV screen while adjusting controls or servicing in rear of set. Good quality 12x10" glass mirror does not distort image. Telescoping stand adjusts to the necessary height—collapses for easy carrying when making service calls. Shpg. wt. 4 lbs. G-C 8390.

No. 35A85. **\$5.79**

MIRROR ONLY FOR BENCH USE
12x10" glass mirror in chrome frame and with upright bracket. **\$2.91**
No. 35A88. G-C 8391. Ea.



\$7.95

CHASSIS PUNCH SET

5 PUNCHES PLUS BURRING REAMER AT PRICE YOU NORMALLY PAY FOR 2 OR 3 PUNCHES ALONE!

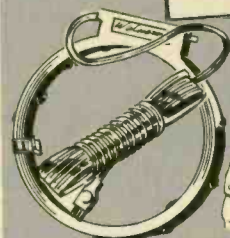
Five most often needed round hole punches. Cuts clean accurate holes in chassis or panel to accommodate sockets, switches, controls, etc. Does the job quickly and easily—drive with any wrench or with T-handle included. Punch sizes are 5/8", 3/4", 1", 1 1/8", 1 1/4". Complete with punches, dies, T-handle, 1/8" to 1/2" tapered burring reamer, and handsome case. Quality import. Shpg. wt. 3 lbs.

No. 17A626. **\$7.95**
Special Per Set.

NEW WALSCO COLOR TV DEGAUSSING COIL AT LOWEST COST!

SAFE, EASY TO USE . . . EVEN FOR SET OWNER

\$5.83



Improves & Sharpens Color By Removing Pix Tube Magnetism

Eliminates fuzzy, unwanted stray colors . . . in just minutes. An absolute necessity for the serviceman. Simple for anyone to use . . . allows set owner to save many dollars by demagnetizing his own color TV. High-impact plastic, with momentary push button switch. Convenient storage clip for back of set. With illustrated instructions.

No. 13B680. Type 2592. **\$5.83**
Each.

POPULAR SERVICE SHOP TOOLS



① **Tube and Parts Extractor.** For extracting tubes, parts from inaccessible places. Spring steel rubber cushioned prong.

No. 16B55. G-C 5092. Wt. 12 oz. **EACH . . . 96c**

② **G-C Illuminated Inspection Mirror.** Gets into dark, hard-to-get-at places. Insulated. 7/8" dia. adjustable mirror, lucite rod. Holds 2 penlight batteries. Lgth. 12 1/4". With bulb. G-C 8725. 6 oz.

No. 16A950. (Less Batteries). Each. **\$1.98**

No. 21A3. Batteries for above. Each. **14c**

③ **Bulb Remover.** Removes pilot bulbs easily from awkward places.

No. 16B561. Dialco L-73. Wt. 3 oz. **Each . . . 28c**

④ **Folding Pocket Magnifier.** 1 3/4" diameter lens, 2 1/2 Power. Stiff leather case.

No. 11A308. Wt. 4 oz. **Your Cost, Each . . . 96c**

⑤ **Jiffy Spring Clamps.** Hundreds of uses such as clamping wood strips together for gluing, metal parts for soldering or welding, etc. Heavy gauge steel with powerful tension spring. Nickel Plated.

No. 11C13. 1" Opening. Wt. 2 oz. **Ea. 33c**

No. 11C15. 2" Opening. Wt. 3 oz. **Ea. 49c**

No. 11C18. 3" Opening. Wt. 4 oz. **Ea. 96c**

⑥ **Flexible Screwholding and pickup tool.** Handy flexible tool made of spring coiled wire with retractable spring steel jaws. Ideal for starting screws or nuts, and retrieving small parts in inaccessible places. 12" long.

No. 11C2. G-C 5089. Wt. 5 oz. **Net Ea. . . . \$1.13**

GC C-RING TOOL

Special tool removes and inserts "C" washers and retaining rings on volume controls, turntables, recorders, switches, radio and TV sets, etc. Made of high grade steel, nickel plated. Type 8872. Wt. 2 oz.

No. 11B56. Each. **\$1.84**

"JONARD" RELAY SERVICE TOOLS



Highest quality precision tools for repair and adjustment of all foreign and domestic relays.

① **SPRING ADJUSTER.** .023" slot each end. Made of carbon steel, plastic handle.

No. 16B507. Type SA-17. Overall length 8". **Each \$2.95**

② **SPRING ADJUSTER.** .031" slot each end. Made of carbon steel, plastic handles.

No. 16B510. Type SA-16. Overall length 8". **Each \$2.40**

③ **STOP BENDER** for adjusting armature back stops. Carbon steel nickel chrome plated. Slots .033" wide.

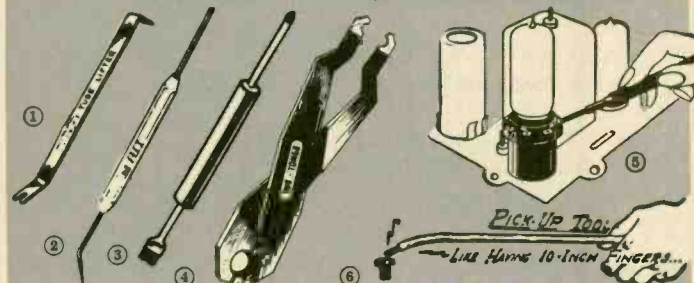
No. 16B511. Type SB-22. Overall length 5". **Each \$1.48**

④ **POCKET CLEANER-BURNISHER.** Hard tempered blade cleans any type contact—leaves no grit or dust. Plastic cap with pocket clip. With 12 blades.

No. 16B504. Type P-4. Overall length 5 1/2". **Net Each. \$3.90**

No. 16B505. Type RB-4. Pkg. of 25 Replacement Blades. **\$3.75**

POPULAR G-C SERVICE AIDS



① TUBE LIFTER

Lifts tubes, vibrators, plugs and similar type parts easily and quickly. Simply insert tool under base of part and lift. Right angle end is for auto radios and for pulling knobs. Stainless steel. G-C 9213. 2 oz.

No. 16A832. **EACH 29c**

② SOLDERING AID

Soldering made easier . . . fast! Special stainless steel angled tip acts as probe—clears lug of solder, pushes other wire aside. Fork tip on other end guides and holds wire when soldering in tight spots. Wt. 4 oz.

No. 16B933. **98c**

③ SOLDERING AID

Handy new tool with a stiff wire brush on one end for cleaning wires, terminal strips, lugs, etc., before soldering, and a fork-tip on the other end for guiding and holding wires while soldering. G-C 9088. 4 oz.

No. 11B165. **Net Each 98c**

④ Universal Fuse Puller

Accommodates all kinds and types of fuses including household screw-in plug types and cartridge fuses up to 3/4" or 100 amps. Made of molded nylon . . . non-conductive, non-inflammable, virtually unbreakable. Wt. 3 ozs.

No. 11B16. GC9356. **Each 87c**

HANDY 4-IN-1 TOOL

- Pin Straightener
- Tube Puller
- Tube Tapper

For both 7 and 9 pin miniature tubes. Extremely well made of top quality live rubber with aligning dies of hardened nylon bakelite. Costs 1/4 the price of the 4 tools it replaces. G-C 9130. 3 oz.

16B64. Special, Ea. **90c**

⑤ TEST ADAPTERS

Handy for checking circuit voltages, etc., without removing chassis. Replace tube with appropriate test adapter—plug tube into adapter. All socket connections are topside . . . within easy reach of a test prod. Low loss phenolic construction with high insulation resistance and high voltage breakdown.

16B736. 7-pin Miniature. **\$1.62**

G-C 9247. 4 oz. **Each \$1.62**

16B752. 8-Pin Octal. **\$1.54**

G-C 9248. 4 oz. **Each \$1.54**

16B773. 9-Pin Miniature. **\$1.83**

G-C 9249. 4 oz. **Each \$1.83**

No. 16B930. TV CRT. **\$1.91**

G-C 9251. 4 oz. **Each \$1.91**

No. 16B931. Kit of 4 above put up in convenient container. **\$6.84**

G-C 9250. Wt. 1 lb. **Each \$6.84**

⑥ 10 1/2-INCH MAGNETIC PICK-UP TOOL

Reaches what your hands can't grasp. Use for picking up small parts from hard to reach places. With permanent Alnico magnet.

No. 16A854. Wt. 4 oz. **Each 35c**

NE-O-LITE ELECTRIC TROUBLE SHOOTER

Handy for radio men and electricians for testing AC lines, polarity of AC or DC, for blown fuses, tracing ground line in AC circuits, as an RF indicator, spark plug and cable tester, etc. Can be used on voltages of 60 AC to 550 volts AC or DC. G-C 5100. 3 oz.

11A84. **44c**

Each **44c**

Paint and Insulating Materials

KRYLON CLEAR PLASTIC SPRAY



SEALS! PROTECTS! RESISTS RUST and CORROSION!

Transparent plastic protective coating adheres to practically any surface. Seals out air, water, chemicals, oil, grease and acids. Protects automotive chrome, golf clubs, fishing rods, tools, leather goods, photos, blueprints, etc. Seals TV antennas against the effects of weather and corrosion. Helps prevent corona in TV high voltage sections. Fast dry.

208863. #1302 (For Radio & TV)
11A702. #1303 (For Graphic Arts)

Your Choice 13 oz. can

1 to 11	12-47	48-95	96 up
Each	Each	Each	Each
1.27	1.17	1.14	1.10

GLASS FROSTING SPRAY

Insures privacy when applied to windows, sky-lights, etc. Obscures vision, yet allows light to enter. Diffuses and eliminates glare from lamp reflectors, bulbs, shades and outside lights. Ideal for decorating glass doors and partitions, table tops, vases and glassware. Just spray it on—dries in 5 minutes. Non-toxic. Removable with lacquer thinner or may be scraped off with razor blade to return glass to original condition.

No. 11B600. 15 Oz. Can. Each **\$1.29**
No. 11B601. 6 Oz. Can. Each **.79c**

SPRAY TOP-QUALITY ENAMEL PAINT DIRECT FROM CAN

- NO BRUSH! • NO MIXING!
- NO MUSS OR WASTE!

GIANT ECONOMY SIZE
16-OZ. DISPENSER

\$1.29



Just press the button and spray . . . exclusive built-in governor regulates spray . . . prevents sagging, running or bubbling. Dries in just 5 minutes. Won't work off, peel off or chip off. Non-toxic. 16 oz. can covers approx. 200 sq. ft. All colors with asterisk* have new Rustcor rust preventative. Easy to follow directions on can.

BUY SEVERAL CANS NOW . . . KEEP ON HAND—WON'T SPOIL

- | | |
|-----------------------------|---------------------------------|
| 11A651—Appliance White* | 11A654—Flat White* |
| 11A640—Chrome Aluminum* | 11A650—Gloss Black* |
| 11A642—Battleship Grey* | 11A652—Clear Plastic |
| 11A643—Garden Green* | 11A655—Zinc Chromate Primer* |
| 11A644—Medium Blue* | 11B616—Canary Yellow |
| 11A647—Chinese Red* | 11A259—Grey All-Purpose Primer* |
| 11A648—Dove Grey* | 11A656—Mist Green* |
| 11A649—Gloss White* | 11B632—Statutory Bronze |
| 11A276—Gloss Black Lacquer* | 11B633—Brite Gold* |
| 11A277—Gloss White Lacquer* | 11A641—Coppertone |
| 11A279—Flat Black Lacquer* | 11A657—Brass |
| 11A653—Flat Black* | 11A659—Antique Gold |

CHOICE EACH **\$1.29** 12 CANS (colors can be assorted) EACH **\$1.08**

NU-TILE EPOXY SPRAY

Provides a super-hard tile-like finish on most any surface. Dries rock-hard. Keeps its gloss, beauty and toughness . . . won't peel, crack or chip. Ideal for appliances, cabinets, refrigerators, washers, dryers, etc. Specify Color: Turquoise, Appliance White, Coppertone, Appliance Yellow, Appliance Pink.

No. 11B617. 16 Ounce Can. Each **\$1.47** 12 Each **\$1.33**

WRINKLE-FINISH SPRAY PAINT

Gives a rich, professional wrinkle finish to any surface. Air dries or can be baked. Perfect for office equipment, appliances, tools, test equipment, tackle boxes, etc. Easy to use—just spray on—it wrinkles as it dries. Specify color: Forest Green, Silver, Tropical Tan, Opal Gray, Black, Blue.

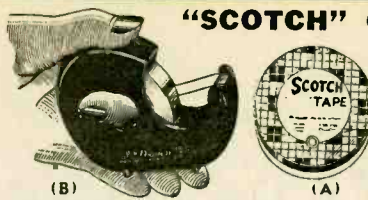
No. 11B606. 16 Oz. Can. Each **\$1.47** 12 @ Each **\$1.33**

16 OZ. HAMMERTONE SPRAY

For custom finishing or touch-up of chassis, racks, panels, etc. Just spray it on—no brush streaks, or mess. Provides hammer finish found only on the finest electronic equipment. Made by Illinois Bronze. Specify color. Silver-Grey, Gold, Copper, Green, Charcoal-Grey or Blue.

No. 11A627. 16 oz. Can. Each **\$1.39** 12 @ Each **\$1.26**

"SCOTCH" CELLOPHANE TAPE



"Scotch" Transparent Tape—sticks to anything. For practically any sealing need plus numerous mending jobs such as torn speaker cans, anchoring coils, etc.

(A) 1296 Inch Roll 1/2" Wide, fits the handy dispenser illustrated. 11A580. 12 Lots, **90c** Each. 12 Lots, **81c** Per Roll **65c** Each **59c**

(B) Dispenser. 2592 Inch Roll 1/2" Wide. 11A582. **29c** Each. 12 Lots, **\$1.18** Each. 2592 Inch Roll 3/4" Wide. 11A583. **\$1.31** Each. 12 Lots, **\$1.18** Each.

SCOTCH VINYL PLASTIC ELECTRICAL TAPE

SUPER-TOUGH AND STRETCHY—THIS FAMOUS MINNESOTA - MINING PRODUCT CARRIES FULL U/L APPROVAL.

Scotch No. 33. Black vinyl plastic molds to any surface, remains flexible at low temperature. Resistant to grease, acids, alcohols, water, gasoline, etc. Non-corrosive. Has high tensile strength. 7 mils thick. Dielectric strength 10,000 V. breakdown.

No. 11A584. 66 Ft., 3/4" Wide. **\$1.39** 10 Rolls **\$1.15** Roll, Each. 11A585. 20 Ft. x 3/4" Wide Roll. **52c** 11A586. 3/8" x 20 Ft. Roll. **32c**

Scotch All Weather Plastic Electrical Tape No. 88. Makes splice wrapping in cold weather easy, yet retains its excellent body for smooth and easy application at normal temperatures. 8.5 mils thickness, super-tough—abrasion, oil, acid and flame resistant. Remains pliable at temperatures down to 0° F. 9350 volts electric strength.

No. 11B232. 66 Ft., 3/4" Wide **\$1.69** 10 Rolls, **\$1.41** Roll, Each. No. 11B242. 20 Ft., 3/4" Wide **61c** 10 Rolls, **52c** Roll, Each.

"SCOTCH" MULTI-USE MASKING TAPE

A handy aid for many uses in addition to its original purpose of protecting areas where painting isn't desired. For example: Write-on for labeling, holds parts together while soldering, temporarily secures moving parts which might become damaged during transportation, such as phono pick-up arms, etc.; for making notes on factory packed boxes, then removing them without a trace, etc.

No. 11A284. 60 Yds., 3/4" Wide. Roll, Each **98c** 12 Rolls, Each **89c**
No. 11A358. 60 Yds., 1" Wide. Roll, Each **\$1.39** 12 Rolls, Each **\$1.25**
No. 11A370. 60 Yds., 1 1/2" Wide. Roll, Each **\$1.98** 12 Rolls, Each **\$1.78**

"MISTER EASE"

MAGIC All-Purpose SILICONE LUBRICANT STOPS STICKING, BINDING AND SQUEAKING

- Lubricates • Waterproofs • Preserves • Protects

The most fantastic lubricant we have ever seen! Lubricates to easy operation bearing shafts, windows—practically anything where other lubricants have failed to penetrate. Oilless, dripless, greaseless—will not gum, melt or freeze.

Lubricates, waterproofs, weatherproofs, preserves and protects . . . rubber, metal, glass, leather, fibre, wood and canvas. Prevents freezing of ice on car door locks, trunk lids and handles. Protects chrome. Prevents rust, mildew and corrosion.

No. 11A796. 6 oz. Can. Net Each **99c**
No. 11A795. 16 oz. Can. Net Each **\$1.99**

INSL-X RED INSULATING TOOL-DIP



Used by major utility companies, for insulating power linemen's tools. Gives more than adequate protection against 110 to 220 volts exposure. Dielectric strength 1500 v/m. Resists acids, alkalis, and petroleum derivatives.

No. 11A379. **\$1.25** 6 Oz. Can.

ELECTRIC MOTOR CLEANER



Just spray on . . . cleans without washing or wiping. Instantly penetrates, dissolves, cleans and removes grease, oil, dirt from motors, electrical-electronic equipment, etc. Evaporates completely—leaves no residue. Safe to use on insulation and painted surfaces.

No. 11B400 **\$1.24** 16 oz. Spray Can

MAKE YOUR OWN CHALK BOARD ON ANY FLAT, SMOOTH SURFACE



\$1.49

EVEN REFINISHES OLD CHALK BOARDS—IDEAL FOR PING PONG TABLES

Most amazing product we have seen in a long time! Just spray it on scrap lumber, glass, hardboard, wallboard . . . virtually any smooth surface and it becomes a convenient useful chalk board. Also refinishes factory made boards. Special formula with friction "bite" makes it ideal for use in making or re-finishing table tennis surfaces. Perfect for warehouses, offices, stores, homes. Apply to walls of children's rooms . . . just paint over when changing decor.

No. 11B631. 15 Oz. Can. **\$1.49**

Wire Strippers, Blow Torches, Rules, Gauges

AMP HAND TOOL

CRIMPS SOLDERLESS TERMINALS TO WIRE . . . SHEARS BOLTS CUTS, STRIPS AND GAUGES WIRE

Never before a single tool with so many uses. Crimps solderless terminals (see page 106) to wire ends. Shears bolts sizes 10-24, 10-32, 8-32, 6-32, and 4-40 to desired length without damaging threads; Strips, Cuts, and measures wire, sizes 22 to 10. 19B1100. Shpg. wt. 1 lb.

\$4.95



Assort. of 50. New "Solistrand" solderless terminals. For solid, stranded, or irregularly shaped wires, or their combinations. 19B1113. Per Ass't. **\$1.89**

POCKET BLOW TORCH & SOLDERING KIT



\$3.75

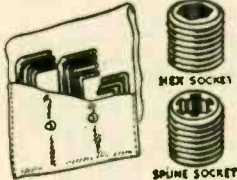
HANDY 2-IN-1 TOOL WORKS FROM BUTANE GAS CARTRIDGE

Handiest torch yet for doing those small repair jobs quickly and easily. Provides high heat (3500 degrees) pin point flame sufficient for soldering, brazing, softening paint and putty, fixing leaks plus numerous other uses. Pays for itself in no time at all! Uses economical "throw-away" gas cartridges similar to those used in cigarette lighters. Kit includes compact size 7" torch with soldering tip, all purpose solder and three butane gas cartridges. Soldering tip slips over torch head to provide portable iron for those outdoor or away from bench soldering jobs. In handy plastic carrying case. Shpg. wt. 1 lb.

\$3.75

No. 11C10. Kit Each **\$1.95**
No. 11B118. Torch Only with one cartridge. **49c**
No. 11B119. Extra Cartridges. Box of 2. **49c**

HEX & SPLINE WRENCH KIT

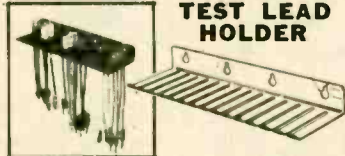


Handy pocket size kit contains complete range of wrench sizes used in electronics. Includes Hex (Allen) wrenches that fit No. 4 to No. 10 set screws and No. 2 to 6 cap screws and (Bristol) wrenches for set screws up to 1/4" and cap screws up to No. 8. In durable leatherette case. Shpg. wt. 8 oz.

\$1.18

No. 16A648. SET

TEST LEAD HOLDER



Keeps test leads and patch cords neat, orderly, readily accessible. Accepts cables up to .210" dia. Mounts on wall or bench. Made of cold rolled steel, with baked enamel finish. Size 11" W. x 3 1/2" D.

\$2.50

No. 17C195. Each

TWEezer KIT



Always handy for small work. Includes 7" with curved smooth point, 4 3/4" slide-lock, 5 1/2" self-closing, and 4 3/4" standard type. Nickel Plated steel. Shpg. wt. 8 oz.

\$1.93

No. 11B164. Kit of Four

MILLERS-FALLS STEEL TOOL MARKING SETS

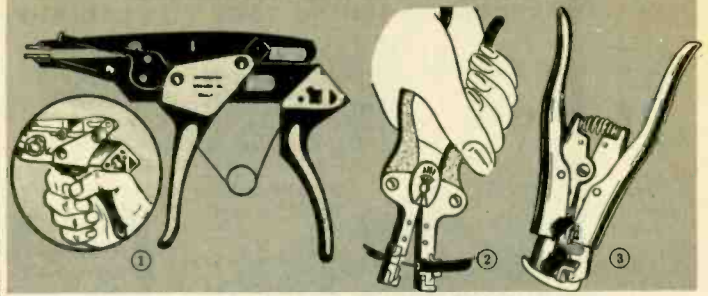


1/8" Roman face characters for marking chassis, parts, etc. Simply hammer to produce clear sharp impressions. Shpg. wt. 2 lbs.

Letter Set—Consists of 28 characters. (A to Z, "E" and "Period"). No. 11A273. **\$4.95**

Figure Set—Consists of 9 characters. (0 to 8 with "6" being used also as "9"). No. 11A274. Per Set. **\$1.85**

POPULAR WIRE STRIPPERS



① UTICA "STRIPWRIGHT" WIRE STRIPPER

Slim nose design ideal for working on small electronic apparatus . . . reaches into the most closely confined areas. Just insert wire in end jaws and squeeze handle—strips fast and clean. Calibrated cam action dial adjusts to strip from #12 to #26 wire gauge size. Handles Teflon as well as other insulations. Gripping jaws hold wires firmly, keeps insulation marking at an absolute minimum. Adjustable stop permits insulation stripping up to 7/8" per stroke. Comfortable cushion-grip handles. Shpg. wt. 1 lb. **\$15.69**

② SPEEDEX AUTOMATIC WIRE STRIPPERS

Strips insulation automatically from wire easily and cleanly without crushing it. Just squeeze the handles and the job is done. Deluxe models are fully automatic with delayed return action—prevents crushing of fine stranded wire. Jaws remain open until wire is removed. Shpg. wt. 1 1/4 lbs.

DELUXE MODELS: 22B138. Type 766. For 12 to 20 wire. **\$5.81** EACH
22B135. Type 766A. For 14 to 30 wire. **\$5.81** EACH
STANDARD MODELS: 22B136. Type 733. For 12 to 20 wire. **\$4.67** EACH
22B137. Type 733A. For 14 to 30 wire. **\$4.67** EACH

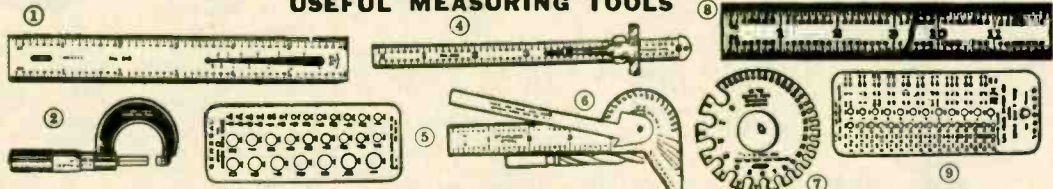
SPEEDEX WIRE STRIPPER KIT. Deluxe type wire stripper and 7 different size blades in a special steel box. Strips solid or stranded wire #8 to #30, 18 POSJ, and 300 ohm twin lead. Shpg. wt. 2 1/4 lbs. **\$12.90**

③ WALSCO DELUXE AUTOMATIC WIRE STRIPPER

Popular for years among radiomen everywhere because of its many exclusive features . . . particularly designed for electronics work but equally effective for electricians, linemen, etc. Easy to use—just insert wire and squeeze handle. Strips wire sizes 10 to 22 fast . . . clean. Stay-open feature prevents crushing wire. Automatically strips insulation away neatly and quickly with hardened steel, precision ground replaceable type blades. **\$5.81**

No. 16B243. Shpg. wt. 1 lb. Net Each

USEFUL MEASURING TOOLS



④ **Pocket Rule & Depth Ga.**
Tempered steel 6" rule with pocket clip. Quick reading 64th graduation. No. 18A421. Shpg. wt. 2 oz. **16c** EACH

⑤ **Jobbers Drill Gauge**
Gauges fractional size drills 1/8" to 1/2". Gives decimal equivalent of each. Made of heavy gauge tempered steel. Shpg. wt. 5 oz. **\$1.58**

No. 11A194. Each

⑥ **Multi-Use Rule & Gauge**
4" rule with 32nd and 64th scale, a drill point gauge; a square, a bevel protractor, a circle divider, center finder, and tap drill table. Stainless steel with leather-case. No. 11A196. Net Each **\$1.58**

⑦ **Handy Wire Gauge**
American Standard. Gauges wire and non-ferrous metals sizes 0 to 36 with decimal equivalent of each on reverse side. Tap quality tempered steel. 11A323. Shpg. wt. 7 oz. **\$4.39**

⑧ **12" Steel Rule**
Stainless steel rule. 7/8" wide graduated in 8ths, 16ths, 32nds and 64ths one side. 32nds, 64ths, 16ths on the other. Shpg. wt. 5 oz. **99c**

⑨ **Drill & Tap Gauge**
Made of heavy gauge tempered steel. Gauges and gives decimal equivalent of numbered drills, sizes 1 to 60. Also handy drill index for machine screw taps. Shpg. wt. 5 oz. **\$1.58**

No. 11A193. Each

⑩ **Micrometer**
Precision tool. Measures 0" to 1" with great accuracy. Guaranteed correct to .0005". Screw type anvil makes zero adjustment easy. Die cast special alloy frame. No. 16B814. Each. **\$4.32**

⑪ **Vernier Caliper**
Made of cold rolled steel, graduations deeply etched on 1" and 3" permit close readings. Inside jaws offset and may be used for scribing circles or dividers. 5" capacity. Vernier reading and depth gauge. No. 11A195. Your Cost, Ea. **\$1.58**

⑫ **LEVEL-SQUARE-10 FT. RULE**
Now by the K & E Co., foremost mfr. of measuring instruments, a 10 ft.-1/2 in. wide "wyteface" rule, a square and an accurate unbreakable level, all contained in 2 x 2 3/8 x 5/8" thick, metal case, ideal for conveniently taking accurate "inside" measurements. No. 16B896. Each. **\$1.49**

⑬ **UTICA "KUTMASTER" ELECTRICIANS' KNIFE**

Standard 2 3/4" knife blade and a special screwdriver blade with insulation cutter and wire scraper. Screwdriver blade locks in open position. 3 3/4" Rosewood handle with shackle ring, polished bolsters, and brass linings. Made to government specs. Shpg. wt. 7 oz. **\$1.65** EACH

60A119. **\$1.89** 12 Lots, **\$1.65** EACH

⑭ **REVERSIBLE SCRIBER**

Knurled steel handle with chuck that holds needle point and retracts into handle when not in use. 11A271. Complete, Each. **76c**

11A272. Extra Points **21c**

Soldering Guns & Irons

WEN SOLDERING PISTOL MOST ADVANCED SOLDERING TOOL YOU CAN BUY!

B-A'S LOW PRICE
\$3.64

NEW SPACE-AGE HIGH-HEAT
EFFICIENCY METAL MAKES
50 WATTS DO WORK OF
OTHER 100 WATT UNITS



Handles Light or Heavy
Soldering Jobs

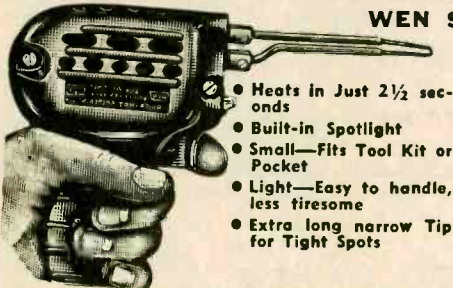
*ATR
Regulates
Temperature
for Highest
Efficiency

BETTER PERFORMANCE & BALANCE
LONGER REACH! LOWEST COST!

The first really new soldering development in 20 years! And at an amazing low price! A soldering pistol perfectly sized and balanced for delicate work normally done by soldering "pencils"—yet with plenty of capacity for heavy jobs as well. A tiny hairlike wire of new space-age metal heats the heavy tapered copper tip... delivers heat normally available only from soldering devices with twice its low 50 watt rating. Exclusive new *Automatic Thermal Regulation. Automatically adjusts the temperature to fit the job. A surge of 50 watts brings tip to working temperature in seconds, then only 30 watts are needed to maintain heat for normal soldering. When tip is placed against an unusually large cold mass *ATR triggers more heat—then regulates back to its amazing 30 watt efficiency. Built-in spotlight beams directly on work. Heavy copper tip never overheats or needs re-tinning, has long reach for close areas. Trigger On-Off switch. High impact plastic case. 120 V. AC. Net wt. 12 oz. Shpg. wt. 1 1/2 lbs.

No. 37B214. Model 75. Each. **\$3.64** 3 Lots, **\$3.30**
No. 16B323. Standard Tip for above. Each. **.74c**
No. 16B321. Fine Tip for above. Each. **.74c**

WEN SOLDERING GUNS



- Heats in Just 2 1/2 seconds
- Built-in Spotlight
- Small—Fits Tool Kit or Pocket
- Light—Easy to handle, less tiresome
- Extra long narrow Tip for Tight Spots

ONLY
\$5.83

MODEL 199

A little sweetheart of a soldering gun, priced within the reach of everybody. Accomplishes those regular soldering jobs with ease, gives ample soldering heat quickly! Cools when trigger is released. Weighs only 1 1/2 lbs. with perfect balance. Easy to use—not firing. Plastic handle and case are heat and shock resistant. 3/4" long, narrow lifetime tip reaches into those tight spots with real ease, while spotlight focuses on work. 115 volts, 60 cycle AC. Wt. 2 1/2 lbs.

No. 37A329. Net Each. **\$5.83** 3 Lots, **\$5.30**

HEAVY-DUTY MODELS

With extra-long rigid tip for all work—light, medium and heavy.

Stk. No.	Model	Watts	Wt.	Each	3 @ Ea.
37B260	288	200	3 lbs.	\$7.31	\$6.64
37A238	250	250	4 lbs.	9.52	8.64

WEN REPLACEMENT TIPS

Stk. No.	Type	For Gun Model	Each	3 @ Ea.
16A375	Long Reach (19B4)	#199, 100	\$0.38	\$0.36
16B445	Standard (25A4)	#250	.20	.17
16A657	Long Life (25X20)	#250	.38	.35
16B659	Plastic Tile Cutting (19C1)	#199, 100	.48	.42
16A859	Standard (28C4)	#288	.48	.42
16A861	Flat Iron Tip (19F33)	#288, 199, 100	.48	.42

"AMERICAN BEAUTY" IRONS



Exceptionally dependable. Irons widely used by industrial and servicemen for continuous duty work. All are supplied with 6 ft. cord.

Stk. No.	Model	Heat	Lgth.	Tip	Wt.	Net Each
① 22B168	3118SCP	30-Watt	8"	1/8"	6 Oz.	\$5.80
① 22C186	3114	60-Watt	9"	1/8"	8 Oz.	7.00
① 22B166	3128	60-Watt	12 1/4"	1/8"	7 1/2 Oz.	8.30
① 22B165	3138	100-Watt	12 7/8"	3/8"	16 oz.	9.10
② 22B169	3158	200-Watt	13 5/8"	5/8"	28 Oz.	11.20

EXTRA TIPS

11A365. For 3118SCP. Each. **.22c** 11A243. For 3138. Each. **.58c**
11B245. For 3128, 3114. Each. **.39c** 11B39. For 3158. Each. **\$1.33**

SOLDERING AID AND SCRIBER

Perfect aids in repairing printed circuit boards, holding leads while soldering, stringing dial cords, removing parts from inaccessible places—1000 uses from one tool. Hardened steel scriber point for marking chassis, panels, etc.

① No. 11A1. Combination Scriber and Hook—8 1/2" long. Net Each. **.59c**
② No. 11A3. Combination Scriber and Awl—8 1/2" long. Net Each. **.59c**

WEN SOLDERING "ALL-GUN" NOW... FIRST TIME POSSIBLE! ONE PRECISION SOLDERING DEVICE FOR ALL SOLDERING JOBS!

SUPPLIES
25 TO
450 WATTS
FOR LIGHT,
MEDIUM
OR HEAVY
DUTY USE



B-A'S LOW PRICE
\$9.97

*ATR
Regulates
Temperature
for Highest
Efficiency

PERFECT SIZE AND BALANCE
ULTRA-HIGH HEAT SPACE-AGE
METAL PRODUCES EXTREMELY
RAPID HEATING



Handles any soldering job from delicate kit work and printed circuits to copper plumbing, gutter and downspout repair. *Automatic Thermal Regulation provides an extremely efficient range of heat power to the tip through a tiny hair-like space-age metal wire. Temperature is automatically adjusted to the right level for the job. Heats and cools in just seconds. Pre-focused spotlight illuminates work area. Trigger on-off switch. High-impact plastic case, 5 3/8" long. With heavy duty 200-450 watt tip.

No. 37B215. Shpg. wt. 2 1/2 lbs. **\$9.97** 3 Lots, **\$9.30**
Model 450. Each. **.98c**
No. 16B401. 200-450 Watt Tip. Each. **.98c**
No. 16B402. 100-200 Watt Tip. Each. **.98c**
No. 16B403. 25-100 Watt Tip. Each. **.98c**

WEN "HOT ROD" SOLDERING KIT

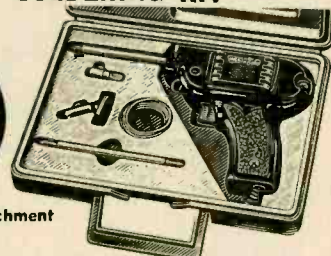
THE IDEAL ALL-AROUND KIT
FOR HOME AND SHOP

B-A'S LOW PRICE
\$8.79

*ATR
Regulates
Temperature
for Highest
Efficiency

YOU GET:

- New Hot-Rod Gun
- 2 Soldering Tips
- Cutting Attachment
- Flat Iron Attachment
- Roll of Solder
- Carrying Case



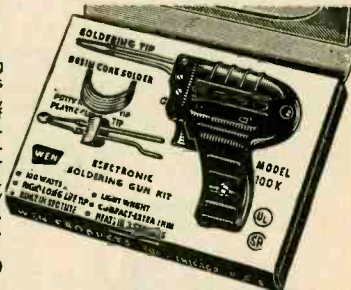
New Hot-Rod Gun is lightweight and perfectly sized for delicate work... and has plenty of power for heavier jobs, too. Delivers from 25 to 200 watts of heating power simply by changing tips. Wen's exclusive *Automatic Thermal Regulation automatically adjusts the temperature to the tip through a tiny hair-like space-age metal wire. Heats and cools in seconds. Built-in spotlight illuminates work. Trigger on-off switch. High-impact plastic case. 120 V. 60 cycle AC. Shpg. wt. 3 1/2 lbs.

No. 37B40. Model 222K5. **\$8.79** 3 Lots, **\$7.97**
Net Each. **.98c**
HOT-ROD GUN only. Supplied with 100-200 watt tip. Shpg. wt. 2 lbs.
No. 37C34. Model 222. **\$5.83** 3 Lots, **\$5.30**
Each. **.98c**
No. 16B403. 25-100 Watt Tip. Each. **.98c**
No. 16B402. 100-200 Watt Tip. Each. **.98c**

WEN 100K SOLDERING GUN KIT

A real value! Wen quality soldering gun in handy carry package. Comes complete with standard soldering tip, plastic cutting tip plus handy roll of rosin core solder. Ideal for kit builders, experimenters as well as servicemen. Same high quality as heavier duty models but made for lighter use. Rated 100 watts. Rapid heat ready for use in 5 seconds. 120 volts 60 cy. AC. Fully guaranteed. UL approved. Wt. 3 lbs.

No. 37A35. **\$5.83** 3 Lots, **\$5.30**
Net Each. **.98c**



SOLDER ALL METALS EASILY!

95c

SENSATIONAL "SAL-MET" NON CORROSIVE FLUX

SOLDERS:

- Copper to Aluminum.
- Aluminum to Aluminum
- All Metals.

Makes a formerly impossible job easy. No special solder needed, no special preparation necessary. Just put a dab of "Sal-Met" on the spot to be soldered and proceed to solder in the usual manner using your favorite iron, gun, or torch. Results will be a positive electrical and mechanical connection.

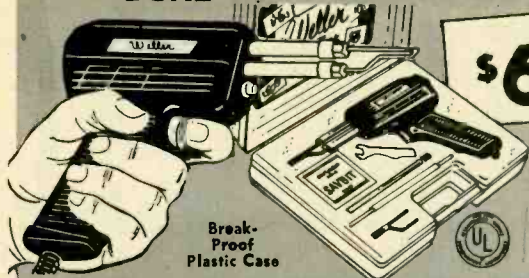
Used by Hughes Aircraft, Westinghouse, National Advisory Council for Aeronautics, Erie Resistor Corp. and many others. Handy one oz. tubes sufficient for hundreds of jobs.

No. 11B78. Net Each. **95c**



Soldering Guns, Irons & Solder

WELLER DUAL HEAT SOLDERING KIT



\$6.57

LOOK
WHAT
YOU
GET!

- New Dual Heat Gun
- Flux Brush
- Soldering Aid
- All-Purpose Solder
- 3 Soldering Tips
- Tip Wrench

MAKES SOLDERING FASTER—EASIER

The hottest solder gun value ever offered! Here is true Weller professional performance and quality construction in a small, lightweight, exceptionally easy to handle solder gun. Perfect for hobbyist or serviceman—does a real man-sized soldering job. New improved gun, rated 100/140 watts furnishes soldering heat in just 5 seconds by a trigger control. Prefocused spotlight illuminates work as you solder. Dual heat feature provides reserve power for heavier soldering needs. Uses high efficiency long life tip. 120 volts 60 cy. AC. Fully guaranteed. Wt. 3 lbs. **\$6.57** 3 Lots, **\$5.83** 12 Lots, **\$5.65** 37C257. 8200PK. Each Each Each
16A796. Extra Tips. Pkg. of 2 **35c**

WELLER "MAGNASTAT" IRONS



All feature the magnastat controller which automatically maintains proper temperature at the tip. Tips are premium plated for long life, tapered for heat efficiency, replaceable by simply unscrewing knurled nut which holds tip in place. Supplied less tips. 110-120 volts AC.

Stk. No.	Type	Cord Type	Watts	Weight	Each
37A13	TC552-2	2 Wire	55	6 3/4 Oz.	\$6.07
37A420	TC602-2	2 Wire	75	7 1/4 Oz.	6.25
37B360	TC1202-2	2 Wire	120	9 3/4 Oz.	6.99

TIPS FOR TC IRONS

Stk. No.	Type	Temp.	Fits Iron	Description	Each
16A533	5-C1N	600°	TC552	1/8" Screwdriver	\$0.56
16A558	5-B1N	700°	TC552	3/32" Screwdriver	.56
16A534	6-E1N	700°	TC602	1/4" Screwdriver	1.12
16A578	12-F4N	750°	TC1202	3/8" Chisel	1.49

HEAT SINK & SOLDER AID



\$1.29

The perfect heat sink—"clamps on" and holds wires in position while soldering. Retrieves small items in hard to reach places. Lightweight aluminum. 5" long. No. 11A348. Each. **\$1.29**

ERSIN MULTICORE SOLDER



Extra active, non-corrosive. 5 core construction assures flux continuity . . . prevents "dry" joints. Conforms to Govt. specs. QOS-571.

KIT-PAK. Two solder gauges for the occasional user. No. 11A701. Approx. 6'. Each. **25c**

60% TIN—40% LEAD			
11C798. Easy Dispenser Pak. (Approx. 15')	Ea.		69c
11C662. 16 Ga. 1 Lb. Spool.		28 Lbs. Ea.	\$2.81
11A690. 18 Ga. 1 Lb. Spool.		28 Lbs. Ea.	\$2.86

"SAVBIT" COPPER-LOADED ALLOY SOLDER

Does not absorb metal from copper tips, reduces wear and prolongs tip life ten-fold.

11C663. 16 Gauge. 1 Lb. Spool.		28 Lbs. Ea.	\$2.71
11C664. 18 Gauge. 1 Lb. Spool.		28 Lbs. Ea.	\$2.81

KESTER "RESIN-FIVE" CORE SOLDER



The better Rosin Core solder for TV . . . all radio and electronic parts . . . everything electrical.

Flux is more active and stable yet non-corrosive and non-conductive. Consists of the highest grades of tin and lead commercially available.

No. 11A692. Small box for the occasional user. 40% tin—60% lead, 3/32" diameter. Approx. 6'. Each. **21c**

40% TIN—60% LEAD			
3/32" (.092) Diameter			
No. 11A684. 1 Lb. Spool. Ea.		No. 11A685. 1 Lb. Spool. Ea.	\$1.73
No. 11A694. 5 Lb. Spool. Ea.	8.18	No. 11A695. 5 Lb. Spool. Ea.	8.40

50% TIN—50% LEAD			
No. 11A686. 1 Lb. Spool. Ea.	\$2.03	No. 11A687. 1 Lb. Spool. Ea.	\$2.07
No. 11A696. 5 Lb. Spool. Ea.	9.90	No. 11A697. 5 Lb. Spool. Ea.	10.05

60% TIN—40% LEAD			
No. 11A688. 1 Lb. Spool. Ea.	\$2.31	No. 11A689. 1 Lb. Spool. Ea.	\$2.36
No. 11A698. 5 Lb. Spool. Ea.	11.33	No. 11A699. 5 Lb. Spool. Ea.	11.55
No. 11A691. Soldering Paste. Per 2 Oz. Can.	15c	10 Cans, Each.	13c

KESTER SILVER SOLDER FOR PRINTED CIRCUITS

Contains 3% silver, 61 1/2% tin, 35 1/2% lead with an .062 diameter. No. 11A700. 1 Lb. Spool. Net Each. **\$4.65**

WELLER HEAVY-DUTY DUAL HEAT SOLDERING GUN KIT

FOR SERVICEMAN, HOMECRAFTER, HOBBYIST, EVERYONE!

B-A's LOW PRICE

\$9.55

- SOLDERS!
- MENDS!
- SEALS! • CUTS!

Accomplishes scores of money-saving jobs. Handy to have for ready use in the shop, at home, out on the job, anywhere.



Comes complete with the very popular Weller heavy-duty dual heat 240/325 watt soldering gun that has such desirable features as: Instant heating—takes only 5 seconds to obtain solder heat; Extra long reach to get into the deep inaccessible places; Dual spotlights to focus on work; Rugged housing that stays cool. Dual heat feature provides reserve power for extra heavy jobs. Includes 3 handy Tips; Long-life soldering tip; Smoothing tip for heat-sealing, and mending plastic articles; Cutting tip for cutting plastic tiles, removing hard putty from broken windows, etc., tip changing wrench and all purpose solder. Instruction booklet gives helpful hints—tells how to do various jobs.

Unbreakable plastic case is convenient for storage and has handle for easy carrying. Shpg. wt. 6 1/2 lbs.

37C256. D-550PK.	\$9.55	3 Lots, Each	\$8.48	12 Lots, Each	\$8.15
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WELLER PROFESSIONAL GUNS



MODEL D-440

\$7.30

145/210 WATTS

HANDY ACCESSORY TIPS



New-improved models designed to do any or all soldering jobs, heavy or light, with equal ease. Instant heating—takes only 5 seconds to obtain solder heat. 5 1/4" reach gets into the deep inaccessible places—dual spotlights focus on the work. Rugged housing withstands abuse—stays cool. Guns are perfectly balanced—do not fatigue the user. Low-cost tips can be changed in a jiffy. Dual Heat provides 35% reserve power for heavier soldering needs. Operates on 115 volt 60 cycles AC.

DELUXE DUAL HEAT MODELS

No.	Model	Watts	Shpg. Wt.	Each	3 Lots, Each	12 Lots, Each
37B4	D-550	240/325	4 Lbs.	\$8.08	\$7.15	\$6.90
37A237	D-440	145/210	3 Lbs.	7.30	6.52	6.25
37A62	8200	100/140	3 Lbs.	5.10	4.56	4.35

REPLACEMENT SWITCH for all Weller Dual Heat Solder Guns No. 16A907. Type 7324. Net Each. **69c**

WELLER SOLDERING TIPS

No.	Type	For Gun Models	Pkg. of 2	25 Pkgs. Each
16A655	7250	WS-200, WD-250, S-500, D-550, 8250A	35c	33c
16A656	7135	WD-135, S-400, D-440, 8100, 8200	25c	23c
16A598	7300	S-107, D-207	25c	23c
16A796	8125	8200, 8100B	35c	33c

WELLER HOBBY & HOMECRAFTER TIPS

For cutting plastic tile; fixing home appliances and wiring; heat-sealing home-freezer packages; model railroads, regrooving tires, removing putty, etc. All are supplied with Tip nuts.

Smoothing Type	Cutting Type	For Gun Models	Each
16B552	16B551	WD-250, S-500, D-550, 8250A	35c
16B550	16B549	WD-135, 8200, D-440, Jr., 8100B	35c

WELLER PENCIL SOLDERING IRON



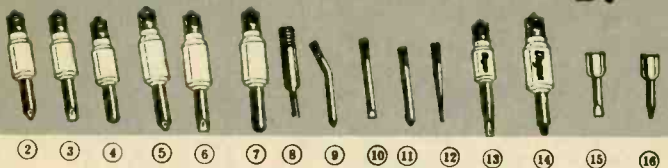
Ideal for miniature type soldering, kit building and production line work. Small and lightweight—hold it like a pencil. High efficiency—rapid recovery, can do work of much higher wattage rated irons. Impact resistant plastic handle stays cool. Complete with 1/8" tip and cord. Rated 25 watts. Net wt. of iron and tip 1 3/4 oz. Shpg. wt. 1/2 lb. No. 37C269. Model W-P.

Each. **\$3.82** 12 Lots Each. **\$3.45**

No. 16C690. 1/16" Screwdriver Tip. Each.	56c
No. 16C691. 3/32" Screwdriver Tip. Each.	56c
No. 16C692. 1/8" Screwdriver Tip. Each.	56c

Ungar Soldering Pencils & Tips

UNGAR SOLDERING PENCIL & TIPS



① UNGAR MODEL 77 SOLDERING PENCIL

"Insul-cool handle" ruggedized for production line soldering. Features stainless steel deflector for low handle temperature, ceramic and glass insulation for longer life, tough phenolic for added durability and extra heavy, extra flexible 6 ft. 18 gauge Polyvinyl cord. Cork finger-grip, red colored handle. Accommodates all elements and tips below.

11A247, Type 776 10 Lots, \$1.12 50 Lots, \$1.01
(Less Tip). Each \$1.32 Each

④ New "Clean Room" Soldering Pencil. Special heat stabilizer with air-flow cooling keeps handle cool to the touch all day long. Octagon shaped non-slip poly-grip won't collect dust or deteriorate. Efficient, perfectly balanced. Supplied in attractive easy-on-the-eye blue pastel color. Other features same as Type 776 above.

No. 11B831, Type 777 10 Lots, \$1.28 50 Lots, \$1.18
(Less Tip). Each \$1.50 Each

TIPS WITH SELF-CONTAINED ELEMENTS

500 STANDARD SERIES—23½ WATTS

For instrument repair, and general use. Tips of new UC47 copper.

Stk. No.	Fig.	Type	Tip	Size	Temp. °F	Each	10 Ea.	50 Ea.
11A60	(13)	533	Chisel	1 5/8" L x 1/4" W	700	\$1.24	\$1.04	\$0.95
11A248	(2)	536	Pyramid	1 5/8" L x 3/8" dia.	700	1.24	1.04	.95
11A252	(3)	539	Chisel	1 5/8" L x 3/8" W	700	1.24	1.04	.95

1200 HI-HEAT SERIES—37½ WATTS

For general service and light to medium production line service. Tip of new UC47 copper.

Stk. No.	Fig.	Type	Tip	Size	Temp. °F	Each	10 Ea.	50 Ea.
11A61	(13)	1233	Chisel	1 5/8" L x 1/4" W	800	1.50	1.28	1.15
11B226	(5)	1236*	Pyramid	1 5/8" L x 3/8" dia.	800	1.50	1.28	1.15
11B235	(6)	1239*	Chisel	1 5/8" L x 3/8" W	800	1.50	1.28	1.15

4000 SUPER HI-HEAT SERIES—47½ WATTS

For all operations formerly requiring a 150 watt iron. Tips of new UC47 copper plated with iron and pure silver.

Stk. No.	Fig.	Type	Tip	Size	Temp. °F	Each	10 Ea.	50 Ea.
11A367	(13)	4033	Chisel	1 5/8" L x 1/4" W	1000	2.60	2.18	2.01
11A368	(5)	4036	Pyramid	1 5/8" L x 3/8" dia.	1000	2.60	2.18	2.01
11A369	(6)	4039	Heavy Chisel	1 5/8" L x 3/8" W	1000	2.60	2.18	2.01

HEATING UNITS ONLY

NEW THREAD ON HEATING UNITS Use with thread on Mini-tips below.

Stk. No.	Fig.	Type	Wattage	Temp. to Tip	Each	10 Ea.	50 Ea.
11A62	(14)	4037	47 1/2	900°	\$2.60	\$2.18	\$2.01
11A63	(14)	1237	37 1/2	800°	1.55	1.30	1.20

THREAD-IN HEATING UNITS

Use with Series 300 Elkaloy and Iron Plated Tiplets listed below.

Stk. No.	Fig.	Type	Wattage	Temp. to Tip	Each	10 Ea.	50 Ea.
11B32	(4)	535	23 1/2	650°	1.24	1.04	.95
11A324	(7)	1235	37 1/2	750°	1.50	1.28	1.15
11A439	(7)	4035	47 1/2	850°	2.60	2.18	2.01

Hi-heat thread-in unit for use with Series 800 Tiplets.

Stk. No.	Fig.	Type	Wattage	Temp. to Tip	Each	10 Ea.	50 Ea.
11A37	(7)	4045	47 1/2	850°	2.60	2.18	2.01

NEW THREAD ON MINI-TIPS FOR 4037 & 1237 HEATING UNITS

Stk. No.	Fig.	Type	Description	Each	10 Ea.	50 Ea.
11A66	(16)	PL111*	3/4" Long 1/8" Pencil	.62	.52	.48
11A67	(16)	111	3/4" Long 1/8" Pencil	.28	.23	.21
11A79	(15)	PL113*	3/4" Long 1/8" Chisel	.62	.52	.48
11A81	(15)	113	3/4" Long 1/8" Chisel	.28	.23	.21

NO. 300 TIPPLETS FOR 535, 1235, 4035 HEATING UNITS

Stk. No.	Fig.	Type	Description	Each	10 Ea.	50 Ea.
11B53	(11)	PL331*	1/8" Pencil Tiptlet	.49	.41	.37
11B24	(11)	331	1/8" Pencil Tiptlet	.19	.16	.14
11B54	(9)	PL332*	1/8" Offset Pencil Tiptlet	.49	.41	.37
11B23	(9)	332	1/8" Pencil, 30° Offset	.19	.16	.14
11B59	(10)	PL333*	1/8" Chisel Tiptlet	.49	.41	.37
11B22	(10)	333	1/8" Chisel Tiptlet	.19	.16	.14
11A440	(12)	PL338*	1/8" Tapered Needle	.49	.41	.37
11A64	(8)	PL340*	Micro-Needle 1/16"	.49	.41	.37

EXTRA LONG TIPPLETS

(Designed for use with 4045 heating unit only)

Stk. No.	Fig.	Type	Description	Each	10 Ea.	50 Ea.
11A34	(11)	PL823*	1/8" Pyramid	.54	.44	.42
11A72	(11)	823	1/8" Pyramid	.19	.16	.14
11A100	(10)	PL824*	1/8" Chisel	.54	.44	.42
11A102	(10)	824	1/8" Chisel	.19	.16	.14
11A436	(10)	PL833*	Straight 2"x 3/8" Chisel	.81	.67	.62
11A437	(9)	PL834*	45° Offset 2"x 3/8" Chisel	.81	.67	.62

#8000 SOLDERING IRON HOLDER

A unique soldering iron holder designed to provide safer and more efficient production soldering. Safety guard design protects operator from accidental burns, protects iron against breakage. Keeps iron cradled safely and securely—ready for easy, instant use. Angle of cradle adjustable for operator's convenience. Mounts quickly to top, side, or underside of workbench. Shpg. wt. 1 lb.

11A240 Ea. \$1.67 10 Ea. \$1.37 50 Ea. \$1.27

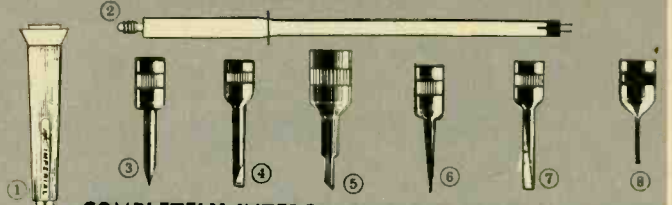
#400 KLEEN-TIP

Double life of soldering tips with new tip cleaner. Consists of special sponge, tray and bracket for fastening to work bench.

No. 11A17, Ea. 98c 10 Ea. 81c 50 Ea. 75c

#455 Refill Sponge for above. No. 11A20, Net Ea. 39c 10 Ea. 33c 50 Ea. 30c

UNGAR "IMPERIAL" SOLDERING PENCIL AND TIPS



COMPLETELY INTERCHANGEABLE HEAT CARTRIDGES & TIPS TO FIT ANY SOLDERING JOB

Satisfies every demand for a cool, lightweight, easy-handling soldering iron. Engineered to get jobs done faster, better, more economically. Built to provide years of dependable operation. Complete unit weighs less than 5 ounces. Handles and heat cartridges color keyed for instant identification.

① IMPERIAL "PERMA-COOL" HANDLE

Introduces a completely new heat sink principle... double cushion of air, combined with five heat transition surfaces evenly dissipates heat, keeps handle cool and comfortable all day long. Durable built of Lexan high strength polycarbonate resin with built-in die-cast aluminum heat sink. Lgth. 4.7". Specify color: Turquoise, Beige, Ivory or Black. (Handle only, less Cord).

No. 11A802, Type 6100, Ea. \$1.25 10 @ \$1.07 100 @ 96c

INTERCHANGEABLE PLUG & CORD SETS

Select the cord that fits your needs, plug on to Perma-Cool Handle. 6 ft. 18 gauge flexible stranded wire, polyvinyl chloride insulation on both wire and female connector. Specify color: Turquoise, Beige, Ivory or Black.

Stk. No.	Type	Description	Each	10 Ea.	100 Ea.
11A803	6102	2-Wire cord W/Plug	\$1.47	\$1.26	\$1.14
11A804	6103	3-Wire Nema Cord W/Plug	2.41	2.07	1.88

② INTERCHANGEABLE HEAT CARTRIDGES

New element winding principle provides reduced watt density, insures longer life. Heating element at tip end of cartridge results in less heat to handle, more heat to tip. Stainless steel, completely sealed—eliminates costly breakage. Threaded-end is engineered to resist oxidation, reduce heat waste, providing maximum heat transfer. Slim, tubular design offers easy access to hard-to-reach areas. Extends 2.5" beyond handle. 110-120 volts, AC-DC. Each cartridge (except 15-watt) has color-keyed band for instant wattage identification. 6200 has red band, 6201 blue band, 6202 green band, 62U3 yellow band.

Stk. No.	Type	Wattage	Temp. To Tip	Each	10 Ea.	100 Ea.
11A893	*6203	60	150°	\$3.98	\$3.46	\$3.10
11A806	6200	40	95°	3.51	3.00	2.70
11A807	6201	30	85°	3.51	3.00	2.70
11A808	6202	25	800°	3.51	3.00	2.70
11A897	*6206	15	74°	3.51	3.00	2.70

*For use only with Micro-Tips listed below. †Use only iron clad tips.

"MICRO-TIPS" FOR 15-WATT CARTRIDGE

All are iron clad, 24K gold plated.

Stk. No.	Fig.	Type	Description	Each	10 Ea.	100 Ea.
11A889	⑦	6550	Tapered Screwdriver	\$1.02	\$0.87	\$0.78
11A890	⑤	6551	Stepped Spade	1.02	.87	.78
11A891	⑤	6553	Stepped Chisel	1.02	.87	.78
11A892	⑤	6554	Stepped Pencil	1.02	.87	.78

INTERCHANGEABLE THREAD-ON "MINI-TIPS"

All are of Tellurium Copper except those marked * which are iron clad, 24 K, gold plated. For use with 25, 30, 40 and 60 watt heat cartridges.

Stk. No.	Fig.	Type	Description	Each	10 Ea.	100 Ea.
11A811	①	6312	3/4" long, 1/8" pencil	\$0.35	\$0.30	\$0.27
11A812	①	6313*	3/4" long, 1/8" pencil	.87	.74	.65
11A815	①	6318	3/4" long, 1/8" taper chisel	.35	.30	.27
11A816	①	6319*	3/4" long, 1/8" taper chisel	.87	.74	.65
11A817	①	6324	3/4" long, 1/8" taper pyramid	.35	.30	.27
11A821	①	6333*	3/4" long, 1/8" needle	.87	.74	.65
11A809	①	6304*	1/2" long, 3/32" micro-chisel	.87	.74	.65
11A810	①	6305*	1/2" long, 3/32" micro-spode	.87	.74	.65
11A818	①	6325*	3/4" long, 1/8" taper pyramid	.87	.74	.65
11A820	①	6331*	3/4" long, 1/8" screwdriver	.87	.74	.65
11A854	⑦	6481*	3/4" long, 3/32" taper screwdriver	.87	.74	.65

UNGAR No. 270 DE-SOLDERING KIT

Tedious printed circuit repairs now made easily and safely. Includes Ungar handle, super heat 47 1/2 watt unit, slotted tiptlet, and rectangular de-soldering tiptlet 1 1/2 x 3/8" for removing resistors and capacitors, or other components within this size. De-soldering tiptlets 1", 3/4" and 5/8" diameter for removing 9, 7, and 5 pin tube socket. All in metal case. Wt. 1 lb.

11A246, Six, \$6.47 Each, \$6.10



\$6.47

NEW UNGAR "HOT-VAC" PRINTED CIRCUIT DE-SOLDERING & CLEANING TOOL

Provides fast, safe de-soldering for easy removal of components and parts. Just place heating tip to soldered connection, press-release bulb, and Hot-Vac "sucks-up" molten solder. Heat can be pin-pointed and solder removed one terminal at a time. Prevents overheating of transistors, diodes, etc. Special coating prevents solder from adhering to tip, or clogging orifice. Utilizes new #177 "Clean Room" handle. Shpg. wt. 1 lb.

No. 11B822, Type 7800, \$9.75 Each, \$7.95

No. 11B814, Replacement Tip, \$9.75 Each, \$7.95



\$9.75

Soldering Pencils, Welding Torch, Etc.

NEW UNGAR "PRINCESS" MINIATURE SOLDERING PENCIL & TIPS



Designed to meet the newest, most exacting requirements for precision hand soldering in Microelectronic circuitry, high density packaging and assembly. Combines sophisticated miniaturization with a thermo efficiency and work capacity never before achieved in small, high-heat, feather-weight irons.

① PRINCESS FEATHERWEIGHT HANDLE

Molded of heat resistant A.B.S. Has midjet thread-in socket to accept heat capsules below. Weight without cord .05 oz., with cord 3 oz. 5" long x 1/8" dia. at front. Turquoise color. 120 V. AC/DC.

No. 11C216. Type 6902. 2-Wire Cord. Ea. **\$2.40** 10 Ea. **\$2.20** 50 Ea. **\$1.96**
No. 11C220. Type 6903. 3-Wire Cord. Ea. **\$3.06** 10 Ea. **\$2.80** 50 Ea. **\$2.50**

② INTERCHANGEABLE HEAT CARTRIDGES

Thread into Princess handles with fingertip ease. Heating section is threaded to accept nibs below.

Stk. No.	Type	Wattage	Temp. to Tip	Each	10 Each	50 Each
11C221	6906	6	400° to 450°	\$2.86	\$2.61	\$2.33
11B223	6910	10	550° to 650°	2.86	2.61	2.33
11B236	6915	15	700° to 800°	2.86	2.61	2.33
11B238	6918	18	900° to 1000°	2.86	2.61	2.33

INTERCHANGEABLE THREAD-IN NIBS (TIPS)

All are cadmium copper except those marked * which are iron clad, 24 K gold plated. All have 1/8" dia. threads.

Stk. No.	Fig.	Type	Description	Each	10 Each	50 Each
11B239	②	6950	.61" Long Pencil	32c	30c	27c
11B244	④	6951	.68" Long Screwdriver	32c	30c	27c
11B253	⑥	6952	.61" Long Spade	32c	30c	27c
11B255	⑧	6953	.61" Long Point	49c	45c	40c
11B258	⑦	6960*	.62" Long Pencil	58c	52c	47c
11B267	⑩	6961*	.62" Long Screwdriver	58c	52c	47c
11B269	⑨	6962*	.62" Long Spade	58c	52c	47c
11B275	⑬	6963*	.61" Long Point	98c	89c	79c

PRINCESS SOLDERING IRON HOLDER

Equipped with specially processed slit sponge for tip cleaning. Plastic base with swivel mounted metal cage. Wt. 3 oz.

No. 11B278. Type 6990. Each **\$2.45** **\$2.45**

10 **\$2.25** 50 **\$2.00**

Each **39c** Each **34c**

Refill Sponge. Type 6991. **39c**

No. 11B280. Each **36c** 50 **34c**

UNIQUE "SOLDER SIPPER"

REMOVES SOLDER FROM ELECTRICAL TERMINALS

For Safe, Easy Removal of Components. Just heat soldered connection and amazing Solder Sipper "sucks-up" molten solder. Heat can be pin-pointed and solder removed one terminal at a time. Prevents overheating and subsequent damage to transistors, diodes, and other heat sensitive components. Ideal for working with printed circuit boards, glass epoxy resin boards, any material that becomes soft and weak when heated. Rubber pressure bulb with Teflon Tube. Tube cleaning wire included. Wt. 8 oz.

No. 11B268. **\$1.29**

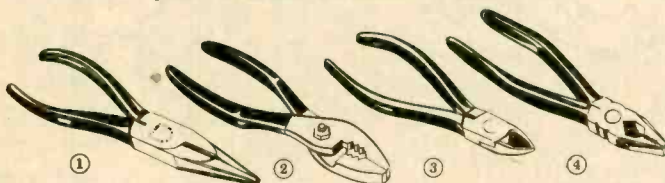
Each **\$1.29**

JEWELERS SCREWDRIVER SET

Perfect for working with jewelry, instruments, small electronic devices, hobbies, etc. Six hardened steel replaceable blades, sizes: .100", .080", .070", .055", .040", .025". Each unit has hexagon swivel head with thumb rest and knurled steel handle. Threaded chuck firmly holds blade in position. Overall length 3 3/4". Shpg. wt. 1/2 lb.

No. 11A309. Set of 6. **\$2.89**

TOP VALUE UTILITY PLIERS



All are fully drop-forged, shockproof insulation on handles for protection and comfort. Quality import.

① 6 1/4" Long Nose Side Cutters. Thin nose for hard to reach areas, has hardened and tempered side cutters. Polished head. **\$1.19**

② 8" Slip Joint Pliers. Heavy duty all-purpose pliers for home and shop use. Chrome plated, rust proof. Shpg. wt. 15 oz. **99c**

③ 6 1/4" Diagonal Cutters. Precision honed hardened and tempered cutting edges. Polished head. Shpg. wt. 11 oz. **\$1.19**

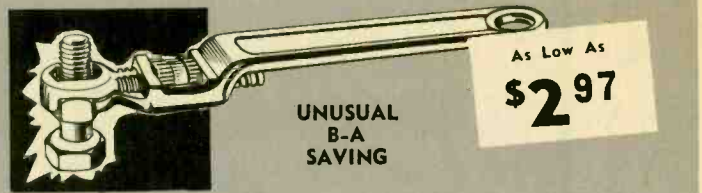
No. 16B947. Each **\$1.19**

④ 7" Lineman's Cutting Pliers. Rugged, heavy-duty utility pliers. Hardened and tempered side cutters. Polished head. Shpg. wt. 14 oz. **\$1.29**

No. 16B949. Each **\$1.29**

NEW "ADJUST-A-BOX" WRENCH

A COMPLETE SET OF BOX WRENCHES IN ONE TOOL



UNUSUAL
B-A
SAVING

As Low As
\$2.97

- Non-slip jaw grip, won't slip even on burred and damaged nuts.
- Narrow head gets into tight spots.
- Fits Metric, Whitworth, U.S. sizes.

Combines the strength and compactness of a socket or box-end wrench with the handy versatility of a single adjustable wrench. Covers a wide range of sizes that would otherwise require a multiple number of fixed-size wrenches. Made of special forged alloy steel for maximum strength and long life. Fully heat treated and nickel-chrome plated.

No. 16A677. 8" Size. Capacity 1/4" to 1". Wt. 1/2 lb. Each **\$2.97**
No. 16A678. 10" Size. Capacity 3/8" to 1 1/8". Wt. 1 lb. Each **\$4.39**
No. 16A679. 12" Size. Capacity 1/2" to 1 3/8". Wt. 1 1/2 lb. Each **\$5.89**

NEW ADJUSTABLE RATCHET WRENCH



8" LENGTH
\$1.99

SELF ADJUSTING
FITS BOLTS, NUTS,
PIPES

Does the job of an adjustable, open-end box and pipe wrench. Works twice as fast... does the job better. One hand operation... won't slip, ratchets. Drop forged tool steel, polished and chromed. Quality import.

No. 16B942. 8" Length. Shpg. wt. 1/2 lb. Each **\$1.99**
No. 16B943. 10" Length. Shpg. wt. 3/4 lb. Each **\$2.49**

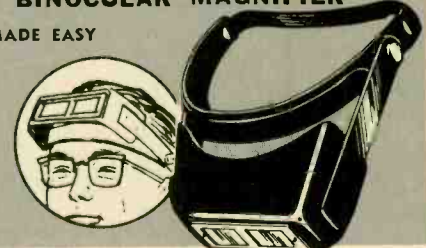
SENSATIONAL BINOCULAR MAGNIFIER

CLOSE MINIATURE WORK MADE EASY

\$14.00

SWIVELS UP OUT OF
WAY WHEN NOT IN
USE

LARGE LENS AREA FOR
DEPTH AND CLARITY



Unique binocular design greatly magnifies work to provide precision accuracy, gives natural 3 dimension vision. Perfect for repair and assembly of small electronic devices, hobbycrafts, camera repair, experimental work—any "close" job requiring pinpoint clarity. Greatly reduces eye strain, may be worn over regular glasses. Optical glass lenses ground and polished to precision standards. Fully adjustable plastic headband and visor made of durable U.S. Royallite—non-conductive—chemical, grease and flame resistant. Net wt. 4 ozs. Shpg. wt. 1/2 lb.

No. 60B218. -1 3/4 Power with 14" Focal Length Choice **\$14.00**
No. 60B219. -2 1/2 Power with 8" Focal Length Each **\$14.00**

TWEEZERS

- | | |
|--|---|
| (A) | (C) |
| (B) | (D) |
| (A) 7" Long, curved smooth point Tweezers. | (C) 5 1/2" Long Self-Closing, blunt serrated points, plated. 54c |
| No. 11A307. Each 72c | No. 11B163. Each 54c |
| (B) 4 3/4" Long Slide Lock, blunt smooth point tweezers, plated 65c | (D) 4 3/4" Long common soldering tweezers, plain steel. 47c |
| No. 11B162. Each 65c | No. 11A306. Each 47c |

"MICROFLAME" GAS WELDING TORCH

B-A's LOW PRICE

\$17.95

WELDS, BRAZES, SOLDERS
WITH 5000° PRECISION FLAME
USES OXYGEN AND BUTANE
THROW-AWAY CARTRIDGES



Most ingenious tool we've seen in a long, long time! Imagine! A completely self-contained gas welding torch that fits in the palm of your hand and produces 5000° F pin-point accurate flame. Welds, brazes, solders—hundreds of uses in the shop, jewelry repair, dental labs, tool and model making... ideal for silver soldering and printed circuit repair—anywhere precision high heat is required. Easy to operate, uses economical throw-away gas cartridges. Complete with torch, 3 tip sizes, 1 each compressed butane and oxygen cartridge, in handy compartmented plastic container. Shpg. wt. 1 lb.

No. 37B25. Each **\$17.95**
No. 37B33. Extra Butane Cartridge. Each **45c**
No. 37B26. Extra Oxygen Cartridge. Each **70c**

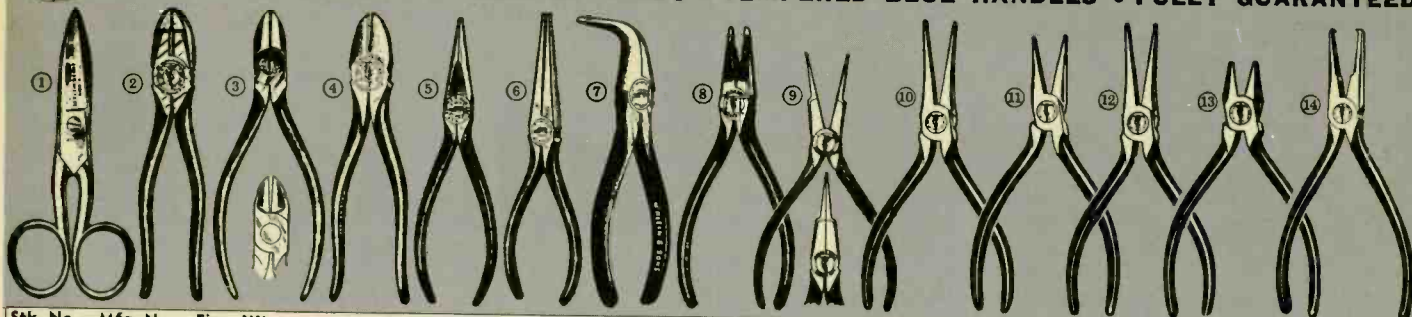
Pliers, Vise Grips



FAMOUS KLEIN PROFESSIONAL QUALITY PLIERS

BY MATHIAS KLEIN AND SONS—FOREMOST IN QUALITY TOOLS FOR THE INDUSTRY SINCE 1857

• HIGHEST QUALITY • POLISHED HEADS • TEMPERED BLUE HANDLES • FULLY GUARANTEED



Stk. No.	Mfg. No.	Fig.	Wt.	Description	Each	*6 Each
16A970	2100-5	①	6 oz.	Xela "S" Scissors	\$2.43	\$2.21
16A974	201-7NE	②	9 oz.	7" Side Cutting Pliers	3.39	3.08
16B708	213-9NE	③	9 oz.	9 1/4" Side Cutters	4.86	4.42
16B898	D202-6	④	4 oz.	6" Oblique Cutting Pliers	2.95	2.68
16A976	D245-5W	⑤	4 oz.	5" Cutters w/wire strippers	3.50	3.18
16A977	D220-7	⑥	9 oz.	7" Oblique Cutting Plier	3.53	3.20
16A978	D301-7	⑦	8 oz.	7" Long Nose Pliers	2.81	2.37
16A979	D203-6	⑧	6 oz.	Long Nose w/Cutters	2.90	2.64
16A980	D305-6	⑨	6 oz.	7" Long Flat Nose Plier	2.72	2.47
16A981	D302-6	⑩	5 oz.	6" Long Curved Nose Plier	3.13	2.83

Stk. No.	Mfg. No.	Fig.	Wt.	Description	Each	*6 Each
16B918	†D301-6PC	⑪	5 oz.	6" Long Nose w/End Cutter	\$3.91	\$3.55
16A922	†D301-6SCPC	⑫	5 oz.	6" As Above, Less Cutter	3.17	2.88

KLEIN SMALL SERIES

16A965	D307-5 1/2	⑬	4 oz.	5 1/2" Long Nose Pliers	2.50	2.27
16B920	†D317-5C	⑭	4 oz.	5" Chain Nose Pliers	2.68	2.44
16A967	D306-5 1/2	⑮	5 oz.	5 1/2" Duck Bill Pliers	2.95	2.68
16A968	D209-5	⑯	5 oz.	5" Oblique Cutting Pliers	3.12	2.84
16C919	†D204-6C	⑰	6 oz.	6" Traverse 6" End Cutters	3.45	3.14

Pliers with prefix "D" have plastic cushion grip handles

†With coil spring to hold jaws open ready for use.
*Cannot be assorted for quantity prices.

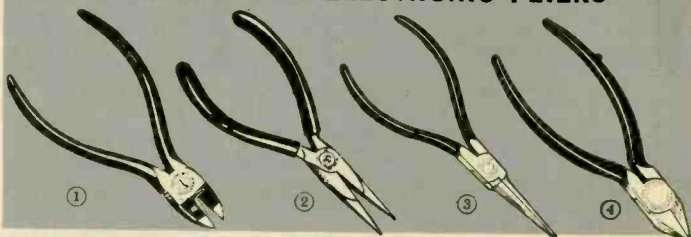
KLEIN "JEWELERS" SIZE PLIERS



Stk. No.	Mfg. No.	Fig.	Wt.	Description	Each	6 Each
16C767	D321-4 1/2	①	3 oz.	4 1/2" Long Nose Plier	\$2.21	\$2.00
16C881	D321-4 1/2 C	②	3 oz.	As Above w/Coil Spring	2.43	2.20
16C768	D224-4 1/2	③	3 oz.	4 1/2" End Cutters	2.79	2.54
16C769	D257-4	④	3 oz.	4" Diagonal Cutter	2.28	2.07
16C882	D257-4C	⑤	3 oz.	As Above w/Coil Spring	2.50	2.27

All with plastic cushion grip handles. Cannot assort for quantity prices.

SPECIAL KLEIN ELECTRONIC PLIERS

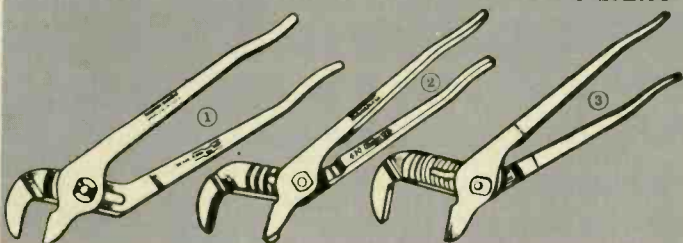


Stk. No.	Mfg. No.	Fig.	Wt.	Description	Each	6 Each
16C770	D207-5C*	①	4 oz.	5 1/2" Oblique w/Shear Cutters	\$3.82	\$3.47
16B849	D221-5 1/2 C*	②	4 oz.	Fine Needle Nose	3.31	3.00
16A934	D318-5 1/2	③	4 oz.	5 1/2" Long Needle Nose	2.69	2.43
16B848	D318-5 1/2 C*	④	5 oz.	As above w/Coil Spring	2.90	2.63
16A936	D209-4C*	⑤	4 oz.	4" Oblique Cutters	3.17	2.88

*Supplied with coil spring to hold jaws open ready for use.

All have plastic cushion grip handles. Cannot assort for quantity prices.

"CHANNEL-LOCK" TONGUE & GROOVE PLIERS



The first choice of mechanics for years. Interlocking principle positively prevents slipping under any load... the heavier the job, the greater the interlocking action. Made of highest grade steel with polished heads and handles. 440-G and 460-G supplied with plastic cushion grips.

Stk. No.	Mfg. No.	Capacity	Wt.	Description	Each
① 16C700	426	7/8"	5 oz.	6 1/2" Pump Plier	\$1.95
② 16A546	420	1 1/8"	12 oz.	9 1/2" Pump Plier	2.63
③ 16A547	430	7/8" to 1 1/2"	14 oz.	10" Big Champ Plier	2.85
④ 16A548	440-G	2 1/2"	1 1/2 lb.	12" Gripmaster Plier	3.23
⑤ 16A926	460-G	4 1/4"	3 lb.	16" Gripmaster Plier	4.20

ADJUSTABLE KLEIN WRENCHES

IN 4 POPULAR SIZES

Chrome plated drop forged alloy steel combines maximum strength, lighter weight with lasting beauty. Identical to Crescent.

Stk. No.	Mfg. No.	Wt.	Size	Cap.	Each
15B917	500-4	3 1/2 oz.	4"	1/2"	\$2.13
16B702	500-6	3 oz.	6"	3/4"	2.31
16B704	500-8	6 oz.	8"	1"	2.63
16B706	500-10	13 oz.	10"	1 1/8"	3.29
16B707	500-12	24 oz.	12"	1 3/8"	4.82

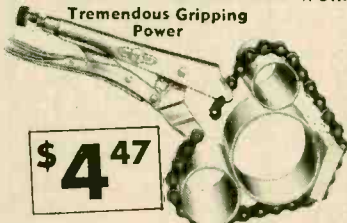


CHROME PLATED

WISE-GRIP CHAIN CLAMP AND PIPE WRENCH

ADJUSTS TO ANY SIZE WORK UP TO 19 IN. IN PERIMETER

Tremendous Gripping Power



\$4.47

Holds and locks around anything, any size, any shape, anywhere that the 19" chain can be wrapped around. Quick adjustment of end screw provides locking with the right pressure—won't flatten thin walled pipe, tubing, unions, etc. A flick of the finger on Easy Release Lever unlocks it instantly. Works in close quarters, leaves both hands free. Adjusts to ratchet action for turning pipe, has no teeth to mar bright surfaces. Shpg. wt. 2 lbs. No. 16C519. Model 20R. Ea. \$4.47

LEATHER TOOL POUCH

Fits belt. 5 compartments for pliers, screwdrivers, etc., snap for knife. 8x9". Finest pliable leather, stitched and riveted. Wt. 1 lb.



37B174
Net Each \$4.28

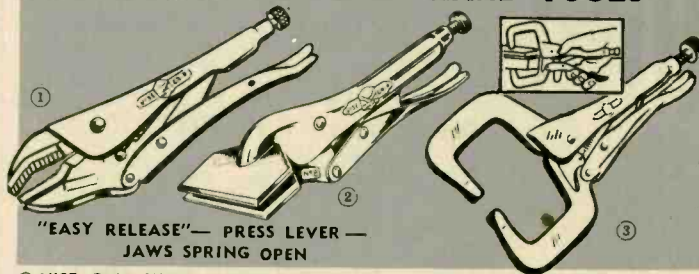
DIPPED SLIP-ON HANDLES

Colors: Red, Yellow, Green and Blue.

Specify Color and Stock No.

Stk. No.	To Fit	Per Pr.
16A913	4"-4 1/2" Pliers	12c
16A914	5"-5 1/2" Pliers	14c
16A916	6"-6 1/2" Pliers	16c

GENUINE VISE-GRIP HAND TOOLS

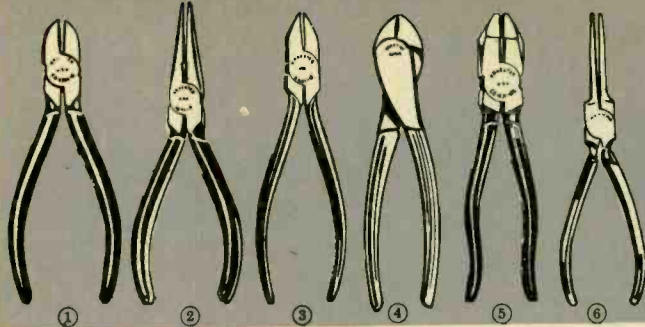


"EASY RELEASE"—PRESS LEVER—JAWS SPRING OPEN

- ① VISE GRIP WIRE CUTTERS. Tong-grip remains locked to work with hands removed. Adjusts to super-plier action, has powerful wire cutter. Model 5WR-5". 3/8" thick jaws adjust to 1 1/4". Wt. 5 oz. No. 16A925. Net Each \$1.99
- Model 7WR-7" 1/4" thick jaws adjust to 1 5/8". Wt. 10 oz. No. 11A360. Net Each \$2.12
- Model 10WR-10" 3/8" thick jaws adjust to 1 7/8". Wt. 1 1/2 lbs. No. 11A359. Net Each \$2.50
- ② SHEET METAL TOOL. Handy for forming chassis, making angle brackets, angling panels, bending metal edges, etc. Also ideal as a vise. Locks to work with tremendous grip. Has non-locking plier action. 8" long, 3 1/8" jaw width, 1 3/4" throat depth. Wt. 18 oz. No. 16A948. Type 8R. Net Each \$2.84
- ③ C-CLAMP. "Ice-Tong" jaws reach around any shape object. Adjust 0 to 3 3/4". Locks to work by a squeeze of the hand with tremendous grip. Ideal for gluing, drilling, sawing, etc. Overall length 11". Wt. 28 oz. No. 16B927. Type 11R. Net Each \$2.84

Pliers & Screwdrivers

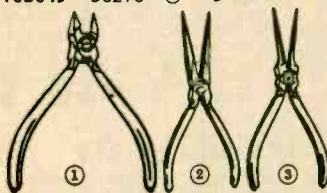
KRAUTER FINEST QUALITY PLIERS



Made of highest grade steel. All have polished heads and are supplied with comfortable cushion grip handles. *Cannot be assorted for quantity prices.

Stk. No.	Mfg. No.	Fig.	Wt.	Description	Each	*6 Ea.
16A642	35016	①	6 oz.	Diagonal Cutting Pliers	\$2.94	\$2.67
16A643	36616	②	5 oz.	Long Chain Nose	2.94	2.67
16A610	36415	③	4 oz.	Chain Nose with Cutters	2.85	2.40
16A470	37015	④	4 oz.	Needle Point Diagonal	3.18	2.88
16B646	36107	⑤	8 oz.	Hvy.-duty Diag. Cutters	2.94	2.67
16C418	38308	⑥	13 oz.	Side Cutting Pliers	3.31	3.00
16B645	36216	⑦	5 oz.	Long Needle Nose	2.68	2.43

KRAUTER ELECTRONIC PLIERS



WITH PLASTIC CUSHION GRIP HANDLES

All have coiled spring to keep jaws open ready for use. *Cannot be assorted for quantity prices.

Stk. No.	Mfg. No.	Fig.	Description	Wt.	Each	*6 Ea.
16A472	20101	①	4 1/2" Needle Point Diagonals	3 oz.	\$3.68	\$3.33
16A473	20140	②	6" Long Nose	4 oz.	3.31	3.00
16A480	20160	③	7" Extra Fine Long Nose	5 1/4 oz.	3.01	2.83

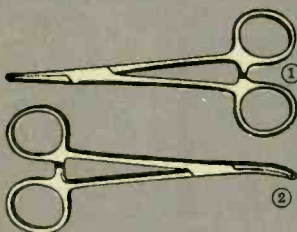
KLEIN CUSHION-GRIP SCREWDRIVERS

- 50% greater torque.
- Comfortable Nitrile rubber cushion never hurts hand.

Exceptionally strong, of alloy tool steel. Chrome plated finish. Plastic handles with molded-on cushions, shockproof, hammerproof—resistant to oil, gas, etc. Round blades with precision ground points.

Stk. No.	Mfg. No.	Blade	Wt.	Ozs.	Each	Stk. No.	Mfg. No.	Blade	Wt.	Ozs.	Each																				
16C856	601-3	3x3/8"	5		\$0.83	16C871	601-10	10x3/8"	8		\$1.01																				
16C857	602-4	4x1/2"	8		1.01	PHILLIPS HEAD <table border="1"> <thead> <tr> <th>Stk. No.</th> <th>Mfg. No.</th> <th>Blade</th> <th>Point</th> <th>Each</th> </tr> </thead> <tbody> <tr> <td>16C872</td> <td>603-3</td> <td>3x3/8"</td> <td>#1</td> <td>\$0.83</td> </tr> <tr> <td>16C865</td> <td>601-8</td> <td>8x3/8"</td> <td>7</td> <td>.90</td> </tr> <tr> <td>16C869</td> <td>602-8</td> <td>8x3/8"</td> <td>19</td> <td>1.58</td> </tr> </tbody> </table>						Stk. No.	Mfg. No.	Blade	Point	Each	16C872	603-3	3x3/8"	#1	\$0.83	16C865	601-8	8x3/8"	7	.90	16C869	602-8	8x3/8"	19	1.58
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16C872	603-3	3x3/8"	#1	\$0.83																											
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16C869	602-8	8x3/8"	19	1.58																											
16C858	601-6	6x3/8"	6	.86																											
16C864	602-6	6x3/8"	13	1.28																											
16C865	601-8	8x3/8"	7	.90																											
16C869	602-8	8x3/8"	19	1.58																											

XCELITE "SEIZER" TOOL



Especially designed for working with miniature components. Clamps on to work and will outhold needle nose pliers. Ideal for use as a heat sink, holding leads while soldering, restringing dial cards, etc. All stainless steel with precise box joints. Length 6".

① No. 11A218. Model 42H. Straight Nose. Net Each... **\$4.42**

② No. 11A219. Model 43H. Curved Nose. Net Each... **\$4.57**

RATCHET OFFSET SCREWDRIVER



Very handy sturdy nickel plated steel ratchet screwdrivers handle both small and large hard-to-get-at screws. Ratchet is instantly reversible in either forward or reverse.

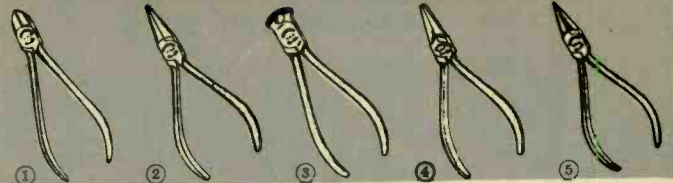
With Std. 1/4" and 3/8" blades. **90c**

No. 11B82. Net Each... **\$1.08**

With Phillips #1 & #2 blades. **\$1.08**

No. 11B228. Net Each... **\$1.08**

KRAUTER JEWELERS' PLIERS



Perfect for accomplishing the most delicate job, yet large enough for easy handling. Quality made, drop forged from the finest steel and fully polished. Endorsed by instrument manufacturers. Plastic cushion grip handles.

Stk. No.	Mfg. No.	Fig.	Description	Wt.	Each	*6 Each
16A603	20181	①	4 1/2" Diagonal Cutters	3 oz.	\$2.65	\$2.40
16A602	20183	②	4 1/2" Chain Nose	3 oz.	2.50	2.27
16A606	20182	③	4 1/2" End Nippers	3 oz.	3.12	2.83
16A604	20184	④	4 1/2" Flat Nose	3 oz.	2.50	2.27
16A605	20185	⑤	4 1/2" Round Nose-Round Jaw	3 oz.	2.50	2.27

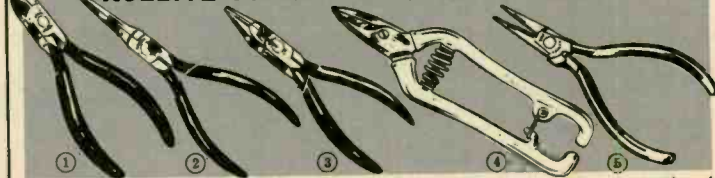
UTICA PLIERS FOR ELECTRONICS

Drop forged from the finest alloy steel. All have polished heads.



Stk. No.	Mfg. No.	Fig.	Description	Wt.	Each	*6 Each
16A564	777	①	6" Long Needle Nose	4 oz.	\$2.57	\$2.30
16A565	272-CS	②	7 1/2" Electronic Snips	7 oz.	3.08	2.74
16A566	23	③	4 1/2" Chain Nose	3 oz.	2.34	2.08

XCELITE PRECISION QUALITY PLIERS

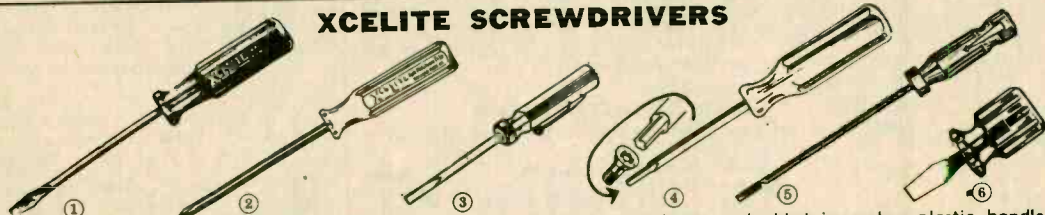


Forged alloy steel construction, precision machining provides exceptional strength and utility. All have plastic cushion grip handles, polished heads. †Has polished, chrome plated blades.

Stk. No.	Mfg. No.	Fig.	Description	Wt.	Each	*6 Each
11B466	54CG	1	4" Diagonal Cutters	3 Oz.	\$3.28	\$2.93
11B467	55CG	1	5" Diagonal Cutters	4 Oz.	3.22	2.87
11C11	66CG	1	6" Diagonal Cutters	5 oz.	3.58	3.20
11A393	56CG	2	6" Needle Nose	5 Oz.	3.28	2.93
11B471	41CG	3	4" Long Nose	3 Oz.	2.95	2.64
11B476	†86CG	4	6 1/2" Electronic Snips	6 Oz.	3.44	3.07
11B7	61CG	5	5" Fine Nose w/ Cutters	3 oz.	4.87	4.33

*Cannot be assorted for quantity prices.

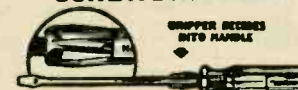
XCELITE SCREWDRIVERS



Top quality Screwdriver skillfully designed for better performance. Full sized shock and break-proof handle is correctly shaped for grip and balance. Chrome Vanadium steel blade embedded in amber plastic handle. Tip of blade is properly ground and gauged to fit screw slot accurately.

① ROUND BLADE				② PHILLIPS HEAD				③ POCKET STYLE WITH CLIP				④ CLUTCH HEAD			
No.	Blade	Overall	Each	No.	Blade	Overall	Each	No.	Blade	Overall	Each	No.	Slot	Blade	Each
11A85	3x1/8"	5 1/4"	\$0.33	11C159	4x3/8"	8 1/2"	\$0.96	11B155	1/8"	3x3/8"	\$0.78	11B172	3/16"	4x3/8"	.93
11A86	4x1/8"	6 1/2"	.42	11C160	6x3/8"	10 1/2"	1.08	11B177	5/16"	4x3/8"	.93	11B197	1/4"	4x3/8"	.93
11A87	6x1/8"	8 1/2"	.48	11C161	8x3/8"	12 1/2"	1.17	⑤ THIN BLADE				11A103	3/8"x2"	4 1/4"	\$0.30
11B108	3x3/8"	5 1/2"	.45	⑥ PHILLIPS HEAD				11A104	3/8"x3"	5 1/4"	.33	11A105	3/8"x4"	6 1/4"	.36
11B127	4x3/8"	6 1/2"	.45	No. <th>Blade</th> <th>Overall</th> <th>Each</th> <td colspan="4">⑦ STUBBY TYPE</td> <td>11A95</td> <td>1/4"x1 1/4"</td> <td>3 1/4"</td> <td>\$0.51</td>	Blade	Overall	Each	⑦ STUBBY TYPE				11A95	1/4"x1 1/4"	3 1/4"	\$0.51
11B136	5x3/8"	7 1/2"	.48	11A237	1/8"x2"	4 1/2"	0	\$0.48	⑧ NON-MAGNETIC BERYLLIUM COPPER				11A343.	1/8"x10 Blade, 12 1/2" O'all	96c
11B141	8x3/8"	10 1/2"	.63	11A96	1/8"x3"	6 5/8"	1	.75	⑨ QUICK-WEDGE SCREW-HOLDING SCREWDRIVERS						
11A88	3x7/8"	6 5/8"	.60	11A97	1/4"x4"	7 7/8"	2	.93	UNCONDITIONALLY GUARANTEED						
11A89	4x7/8"	7 5/8"	.69	11A98	3/8"x6"	10 1/4"	3	1.26	PUSH →						
11A90	6x7/8"	9 5/8"	.75	11A99	3/8"x8"	12 1/2"	4	1.59	Holds screws, drives screws, retrieves screws from inaccessible places. Two half-round blades inside a moveable steel tube. When tightening in screw tube is moved forward the double bit expands thus tightening in screw slot. When tube is moved back the screw is released. Unbreakable, shockproof tenite handle. Tough spring steel blade.						
11A91	8x7/8"	11 5/8"	.87	No. <th>Blade</th> <th>Overall</th> <th>Each</th> <td>No. <th>Blade</th> <th>Overall</th> <th>Each</th> </td>				Blade	Overall	Each	No. <th>Blade</th> <th>Overall</th> <th>Each</th>	Blade	Overall	Each	
11A92	4x1"	7 7/8"	.87	11B311	2 1/2"x1/8"	5"	\$0.95	11B114	4x3/8"	6 1/2"	\$0.95	11B113	8x3/8"	10 1/2"	1.02
11A93	6x1 1/4"	9 7/8"	.96	11B320	7 1/2"x1/8"	10"	1.13	11B115	12x3/8"	14 1/2"	1.13				
11A94	8x1 1/4"	11 7/8"	1.02												

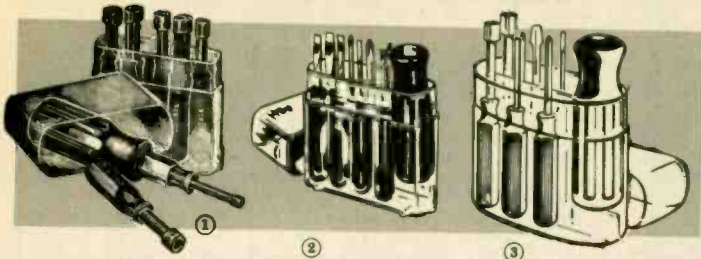
UPSON "HOLD-E-ZEE" SCREW-HOLDING SCREWDRIVERS



No.	Type	Hex	Blade	Each
11A110	TR2	3/16"	2"	\$0.37
11A111	TR4	1/4"	4"	.59
11B120	TR6	3/8"	6"	.65
11B121	TS7	1/2"	7"	.79
11B122	TR8	7/16"	8"	.73
11A112	TR10	5/8"	10"	.79

Nut Drivers, Precision Tools, Etc.

XCELITE "COMPACT" NUTDRIVER AND SCREWDRIVER SETS



WITH UNIQUE SLIP-ON TORQUE HANDLES
Handiest, most often needed precision tools for working on small electronic apparatus, TV, radio, instruments, etc. Unique "piggyback" torque handle slips on over regular handles for tough jobs—provides the grip, reach and power of standard size drivers. Permits you to do more jobs with less equipment, saves bench space, lightens the service kit. Each set is in a see-thru plastic pocket size case with a flat base for use as bench stand.

① MINIATURE NUTDRIVER SET

A complete set of ten precision miniature size nutdrivers with shockproof, breakproof plastic handles—color coded for instant identification. Sizes: $\frac{1}{16}$ ", $\frac{1}{8}$ ", $\frac{3}{16}$ ", $\frac{1}{4}$ ", $\frac{5}{16}$ ", $\frac{3}{8}$ " and $\frac{1}{2}$ ". Overall length of each $3\frac{1}{2}$ ". Supplied with torque handle and see-thru plastic case. No. 11C125. Type PS120. Shpg. wt. 1 lb. Each. **\$5.55**

② PRECISION SCREWDRIVER SET

All the screwdrivers needed for all servicing jobs in one compact see-thru plastic case. Includes 8 drivers—five standard slotted sizes $\frac{1}{8}$ ", $\frac{3}{16}$ ", $\frac{1}{4}$ ", $\frac{5}{16}$ ", $\frac{3}{8}$ ", #0, #1, and #2 Phillips. Shockproof, breakproof plastic handles. Overall length of each $3\frac{1}{2}$ ". Complete with torque handle. No. 11C28. Type PS88. Shpg. wt. 1 lb. Each. **\$3.93**

③ NUTDRIVER AND SCREWDRIVER SET

Includes the most popular sized tools from above kits. 2 nutdrivers $\frac{1}{4}$ " and $\frac{3}{8}$ "; 2 standard slotted screwdrivers $\frac{1}{4}$ " and $\frac{3}{8}$ "; 2 Phillips screwdrivers #0, #1. With torque handle. Shpg. wt. 1 lb. No. 11B256. Type PS7. Each. **\$3.60**

XCELITE NUTDRIVERS



Color coded for easy identification of size. Finest quality nutdrivers with full size shockproof, breakproof plastic handles, fully polished blades. Hollow shaft type fits over volume control shafts, bolts, etc. Shpg. wt. 7 oz. ea.

HOLLOW SHAFT TYPE (illus.)

Stock No.	Depth of Hole	Nut Size	Lgth.	COST EACH	Stock No.	Nut Size	Lgth.	Net Each
11B107	$\frac{1}{4}$ "	$\frac{1}{8}$ "	7"	\$0.93	11A128	$\frac{1}{8}$ "	6"	\$0.78
11A143	$\frac{1}{4}$ "	$\frac{1}{8}$ "	7"	.93	11A129	$\frac{1}{8}$ "	6"	.78
11A144	$\frac{1}{4}$ "	$\frac{1}{8}$ "	7"	.93	11A130	$\frac{1}{8}$ "	6"	.78
11A145	$\frac{1}{4}$ "	$\frac{1}{8}$ "	7"	.93	11A131	$\frac{1}{8}$ "	6"	.78
11A146	$\frac{1}{4}$ "	$\frac{1}{8}$ "	7"	1.05	11A132	$\frac{1}{8}$ "	6"	.78
11A147	$\frac{1}{4}$ "	$\frac{1}{8}$ "	7"	1.08	11A133	$\frac{1}{8}$ "	6"	.78
11A148	$\frac{1}{4}$ "	$\frac{1}{8}$ "	7"	1.14	11A134	$\frac{1}{8}$ "	6"	.78
11A149	$\frac{1}{4}$ "	$\frac{1}{8}$ "	7"	1.26	11A135	$\frac{1}{8}$ "	7 $\frac{1}{4}$ "	.99

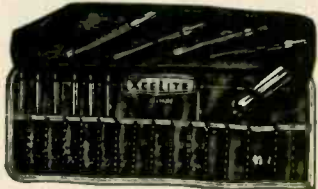
Stubby Type—For $\frac{1}{4}$ " nuts. $1\frac{1}{8}$ " Shaft, overall length $3\frac{1}{8}$ ". No. 11B137. Each. **69c**

PRECISION "MIDGET" NUTDRIVERS

All have color coded, shockproof plastic handles with handy pocket clip. Overall length of each $3\frac{1}{2}$ ".

Stock No.	Nut Size	Each	Stock No.	Nut Size	Each
11A19	$\frac{1}{16}$ "	\$0.51	11C170	$\frac{1}{16}$ "	\$0.51
11B36	$\frac{1}{8}$ "	.51	11B178	$\frac{1}{8}$ "	.51
11B109	$\frac{3}{16}$ "	.51	11B184	$\frac{3}{16}$ "	.51
11C152	$\frac{1}{4}$ "	.51	11C208	$\frac{1}{4}$ "	.51
11C166	$\frac{5}{16}$ "	.51	11C211	$\frac{5}{16}$ "	.51

XCELITE NUTDRIVER AND SCREWDRIVER SETS

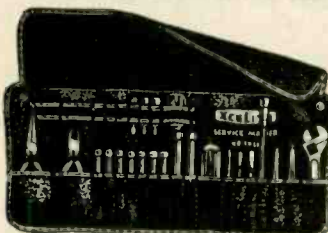


No. 99PR—Consists of amber plastic handle with 9 snap-in nutdrivers, sizes $\frac{1}{16}$ " to $\frac{1}{2}$ "; double end snap-in screwdriver bit with $\frac{1}{4}$ " and $\frac{3}{8}$ " blades; and double end snap-in screwdriver with Phillips No. 1 and 2 blades. Tools fasten simply—are held securely in handle. Plastic roll case. No. 11B231. Complete. **\$9.42**

No. 99 Jr. Pocket version of the big "99". Has smaller handle. 11B230. Each. **\$8.28**

XCELITE SERVICE MASTER KIT

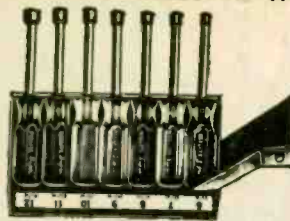
Handles 99% of All Service Calls



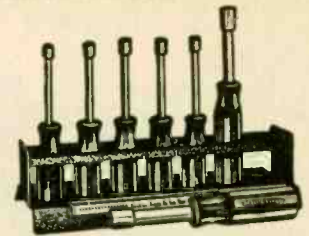
Versatile set of high-quality tools meets almost any radio-TV servicing need.

Set includes: 6" long nose pliers; 5" diagonal cutters; 6" adjustable wrench; 9 regular nutdrivers $\frac{1}{16}$ " through $\frac{1}{2}$ "; 3 stubby nutdrivers $\frac{1}{4}$ ", $\frac{3}{8}$ " and $\frac{1}{2}$ "; $\frac{1}{4}$ " and $\frac{3}{8}$ " slotted screwdrivers; #1 Phillips screwdriver; $\frac{1}{8}$ "- $\frac{3}{16}$ " reamer; $\frac{1}{4}$ "- $\frac{1}{2}$ " reamer; 8" extension; regular handle and stubby handle. All tools tough alloy steel with highly polished nickel chrome finish. In roll-up kit with separate compartment for each tool. Shpg. wt. 3 lbs. 11A380. Type 99SM. Each. **\$24.87**

XCELITE NUT DRIVER SETS



Type 127. The 7 most popular size nutdrivers. Shockproof, breakproof plastic handles are color coded for easier selection of sizes. Fully polished $3\frac{1}{2}$ " blades. Consists of sizes $\frac{1}{16}$ ", $\frac{1}{8}$ ", $\frac{3}{16}$ ", $\frac{1}{4}$ ", $\frac{5}{16}$ ", $\frac{3}{8}$ " and $\frac{1}{2}$ ". Handsome metal container can be fastened to wall or work bench. Wt. 2 lb. No. 11A229. Per Set. **\$6.60**



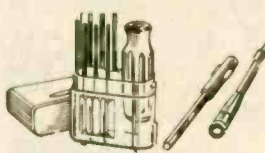
Type 137. The 5 most popular size nutdrivers together with 2 hollow shaft type for fitting over volume controls, etc. Shockproof, breakproof handles are color coded. Consists of sizes $\frac{1}{16}$ ", $\frac{1}{8}$ ", $\frac{3}{16}$ ", $\frac{1}{4}$ " and $\frac{5}{16}$ ". Attractive Metal stand. Wt. $2\frac{1}{2}$ lbs. No. 11C14. Per Set. **\$7.35**

XCELITE NUTDRIVER SET



The 7 most often needed nutdrivers in handy, durable plastic carrying case. Serves as a bench stand. Hole in lid for hanging on wall. Bottom tray is molded so tools won't fall out. Shockproof, breakproof plastic driver handles are color coded for easy identification. Consists of sizes: $\frac{1}{16}$ ", $\frac{1}{8}$ ", $\frac{3}{16}$ " and $\frac{3}{8}$ ". Shpg. wt. 2 lbs. No. 11B83. Type 77. Each. **\$6.75**

XCELITE ALLEN HEX SCREWDRIVER SET



Long alloy steel blades provide 4" working length for greater reach, makes it easy to get at deep-set or awkwardly placed screws. Contains: 9 interchangeable blades sizes .05, $\frac{1}{16}$ ", $\frac{1}{8}$ ", $\frac{3}{16}$ ", $\frac{1}{4}$ ", $\frac{5}{16}$ ", $\frac{3}{8}$ ", $\frac{1}{2}$ " and 4" extension shaft, servicemaster amber colored handle. In pocket-size, see-through plastic case. No. 11B26. Type 99ps-40. Each. **\$6.75**

XCELITE 4-WAY TOOL



Provides the proper tool for scores of jobs in the home and shop. Includes: $\frac{1}{4}$ " and $\frac{3}{8}$ " nut drivers, No. 1 Phillips screwdriver, No. 11A157. slotted screwdriver. Type 600. Each. **\$1.50**

MOODY PRECISION TOOL SETS DESIGNED FOR MINIATURE WORK



These handy precision made miniature tools are just the ticket for handling those jobs requiring the use of tiny size tools. Ideal for working on small radios, jewelry, cameras, model trains, hearing aids, electric razors, etc.

① SCREWDRIVER SET

With 4 Interchangeable Blades And Awl

Contains 4 hardened steel nickel plated blades, sizes: .100", .080", .070", .055", plus handy awl; 2 $\frac{3}{4}$ " knurled steel handle with plastic swivel top and chuck; Handy stand with clear plastic cover. Shpg. wt. 8 oz. No. 18A392. PER SET. **\$1.19**

② SCREW HOLDING SCREWDRIVER SET

Ideal for Miniature Size Screws

Interchangeable spring steel clip fits either the 1 $\frac{3}{4}$ " or 2 $\frac{1}{2}$ " blade supplied—holds tiny screws with a firm grip for driving or removing from hard-to-get-at places. Swivel top screwdriver handle with chuck takes either blade. Plastic container. No. 18A300. Shpg. wt. 8 oz. PER SET. **\$1.19**

③ MAGNETIC SOCKET WRENCH SET

For Those Tiny Size Nuts

New set has amazing utility value, contains 5 tiny socket wrenches, sizes $\frac{1}{16}$ ", $\frac{1}{8}$ ", $\frac{3}{16}$ ", $\frac{1}{4}$ " and $\frac{5}{16}$ ", which are interchangeable in the swivel top chuck type handle. Magnetized to simplify the handling of tiny size hex nuts, particularly when working in hard-to-get-at places. Shpg. wt. 8 oz. No. 18B389. PER SET. **\$2.67**

④ OFFSET OPEN END WRENCH SET

A brand new kit specifically designed for subminiature work. Easily removes or attaches tiny nuts found in hobby, electronics, instruments, ignition, etc. Contains five heat treated steel interchangeable wrenches, sizes: $\frac{1}{16}$ ", $\frac{1}{8}$ ", $\frac{3}{16}$ ", $\frac{1}{4}$ " and 2 $\frac{5}{8}$ " knurled steel handle with chuck and swivel top. Supplied in stand with clear plastic dust cover. Shpg. wt. 8 oz. No. 18A391. Each. **\$1.69**

⑤ NEW HOBBYIST TAP SET

Contains 5 of the most popular sized taps 0-80, 1-72, 2-56, 3-48, and 4-40 plus tap wrench. The perfect tool for hobby and model shop work, for tapping plastic, metal etc. Supplied in stand with clear plastic dust cover. Shpg. wt. 8 oz. No. 18A390. Each. **\$4.69**

Tackers, Punches, Files, Etc.

ARROW AUTOMATIC STAPLE TACKERS

NEW "UTILITY" MODEL

\$6⁹⁵



Especially designed to fill the needs of the serviceman, hi-fi installer, homeowner. A medium weight, remarkably low priced Gun Tacker that fulfills 90% of all tacking requirements. Actually performs the functions of heavy duty Model T-50 Tacker (listed at right)—fastens ceiling tile, wall board, grille cloth, upholstery material, plus scores of other work. Durable, precision engineered, operates on double leverage principle. Just a squeeze of the hand drives staples into work with powerful penetration. 10 times faster than hammer and nails. Solid steel construction with jam-proof mechanism. Baked enamel finish. Shpg. wt. 1 1/2 lbs. **\$6.95**

HEAVY-DUTY INDUSTRIAL T-50 TACKER KIT



- T-50 GUN TACKER
- 5000 Assorted Staples
- Staple Lifter
- Handy Case

Kit is complete in attractive package with T-50 Gun, 5M Staples in 4 sizes (1/4", 3/8", 1/2" and 5/8") and handy staple remover. Shpg. wt. 5 lbs.

22B274. Complete Kit.....\$12.83

Model T-50 Gun. For continuous heavy duty use, chrome-plated. Mfg. List \$12.50. Shpg. Wt. 2 lbs. **No. 22B188. Net Each.....\$10.41**

STAPLES FOR T-55 & T-50 GUNS

Stk. No.	Leg Lgth.	Wt.	Box 5000
22B189	1/4"	1 1/2 lbs.	\$2.08
22B190	3/8"	2 lbs.	2.29
22B191	1/2"	2 1/4 lbs.	2.70
22B192	5/8"	2 1/2 lbs.	2.92

ARROW GUN TACKER LOWEST PRICE EVER!



\$3⁹⁷

JUST A SQUEEZE OF THE HAND DRIVES STAPLES INTO WORK

Now at a price everyone can afford—a fast, easy operating gun tacker. Does those clumsy, rough-to-handle tacking jobs easily and rapidly. Perfect for screening, upholstery, shelving, linings and 1001 other jobs around home and shop. Fits hand comfortably. Tacker locks to fit in pocket and prevent accidental firing. Built-in staple extractor at rear of base. Takes 100 JT-1/4" or 1/2" staples at one loading. Shpg. wt. 1 lb. **No. 22B301. JT-21 Gun Tacker. Spec. Ea. \$3.97**
STAPLES FOR MODEL JT-21 GUN
 22B302—JT-1/4". 5000
 CHOICE **59c** For... **\$2.19**
 1000 For... **\$2.19**

T-25 AUTOMATIC CABLE & WIRE STAPLER



Quick, easy installation of wire and cables. Drives staple accurately into desired position. Built-in groove guide base eliminates danger of damaging wires. Staples are rosin coated. For wire up to 1/4" dia. Wt. 1 lb. **No. 22B246. Model T-25. Each.....\$12.49**
No. 22B249. Staples, 1/2". Box of 5000.....\$3.33
No. 22B281. Staples, 3/8". Box of 5000.....\$3.74

GREENLEE CHASSIS PUNCHES



Quickly cuts clean, accurate holes in chassis or panel to accommodate sockets, switches, controls, meters, etc. Cutting is done by 2-point punch driven by 3/8" dia. square head cap screw. Operates simply with an ordinary wrench.

No.	Size	Wt.	Each	No.	Size	Wt.	Each
11B40	1/2"	2 oz.	\$2.60	11A203	1 1/4"	9 oz.	\$3.00
11A206	5/8"	2 oz.	2.80	11A204	1 3/8"	10 oz.	3.60
11A299	3/4"	2 oz.	2.80	11A205	1 1/2"	13 oz.	4.10
11A389	7/8"	2 oz.	2.80	11A352	1 5/8"	1 1/4 lb.	4.90
11A198	1"	2 oz.	2.80	11A353	1 3/4"	1 1/4 lb.	5.60
11A390	1 1/8"	2 oz.	2.80	11A354	1 7/8"	1 1/2 lb.	7.00
11A199	1 1/4"	2 oz.	2.80	11A355	2"	1 3/4 lb.	7.60
11A209	1 1/2"	2 oz.	2.90	11A212	2 1/8"	2 lb.	11.20
11A201	1 3/4"	2 oz.	2.90	11A222	2 1/4"	2 1/2 lb.	8.10
11A300	1 7/8"	7 oz.	3.00	11A213	2 1/2"	2 lb.	13.20
11A200	1 5/8"	8 oz.	3.00	11A214	2 3/4"	5 lb.	18.30
11A215	1 3/4"	7 3/4 oz.	3.00	11A391	2 3/8"	3 1/2 lb.	12.60
11A202	1 1/2"	8 oz.	3.00	11A217	2 3/4"	6 lb.	25.50
11B371	1 3/4"	9 oz.	5.50				

① No. 730 ROUND HOLE
 *For 3-in. Panel Meters
 ② No. 732 "KEYWAY PUNCH"
 Makes 1 1/4" hole with keyway for Amphenol "S" and similar sockets. **No. 16B196. Each.....\$8.00**

③ No. 731 SQUARE HOLE
 For HF and miniature tube sockets such as Amphenol's of a D shape. **No. 16B196. Each.....\$8.00**

④ No. 733 "D" HOLE
 For HF and miniature tube sockets such as Amphenol's of a D shape. **No. 16B196. Each.....\$8.00**

⑤ No. 731R RELAY SOCKET PUNCH. Makes clean, accurate finished holes for Potter & Brumfield Type KHP relay sockets. WT. 10 oz. **No. 11B55. Each.....\$13.75**

⑥ BALL BEARING REPLACEMENT DRIVE SCREWS
 Greenlee punches cut easier and faster than ever regardless of toughness of metal. Specially designed bearing assembly replaces present drive screw. Ball bearing soaks up friction allowing screw to be turned with ease. **No. 11A444. Each.....\$1.05**

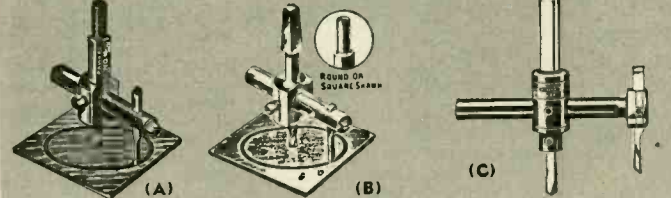
⑦ HAND OPERATED NIBBLING TOOL
 CUTS ANY SHAPE OPENING IN SHEET METAL, COPPER, ALUMINUM, PLASTIC, ETC. **No. 11A441. Net.....\$3.95**

HAND OPERATED NIBBLING TOOL

CUTS ANY SHAPE OPENING IN SHEET METAL, COPPER, ALUMINUM, PLASTIC, ETC.

Cut those odd shape holes without distortion or strain in steel, aluminum, copper or plastic. Handles easily and smoothly, cuts rapidly with only one hand operation. Ideal for cutting transformer holes, socket holes, etc., in chassis. Capacity: steel, 18 gauge; aluminum, copper, plastic 1/8". **No. 11A441. Net.....\$3.95**
No. 11A442. Replacement Punch. Net.....\$1.97

CIRCLE CUTTERS

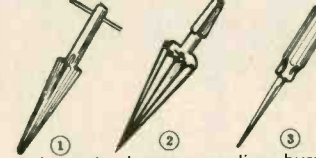


ALL PURPOSE TYPE
 For cutting round holes in metals, wood, plastics, etc. Drill acts as center pilot, keeping cutter in constant alignment. Cross bar and cutting bits are easily adjusted. May be used in slow speed drill press or hand brace. Cutting bits are of high speed steel. Shpg. wt. 1/2 lb.

(A) PAWOOD Type 5. Cuts holes 1" to 5 1/2" diameter. **No. 11A181. Round Shank. Choice Ea. \$2.48**
No. 11A182. Square Shank.....\$2.48 **No. 11A183. Net Each.....\$1.94**
No. 12A1501. Extra Cutter for types 4 or 5 listed above. Each.....\$7c

(C) HEAVY DUTY TYPE—CUTS HOLE 1 3/4" TO 8"
 1/2" round shank for drill press use. Removable 1/4" centering drill bit and adjustable 1/4" high speed steel cutting bar. Easy to adjust Allen set screws for desired cutting depth in steel, plastic, metal, etc. **No. 16A904. Shpg. wt. 3/4 lb. Each.....\$4.88**

BURRING REAMERS



High grade chrome vanadium burring reamers rapidly remove burrs from chassis cutouts, antenna mast cutoffs, etc. Also handy for enlarging holes. **No. 11A188. Each.....\$1.80**

① T-Handle Type. Tapers 1/8" to 1/2". **No. 11A321. Each.....\$2.29**

② Bit Shank Type. Tapers 1/8" to 1 1/2". **No. 11A191. Each.....\$3.79**

③ Fixed Handle Type. Tapers 1/8" to 3/8". **No. 11A250. Each.....\$1.41**

④ Fixed Handle Type. Tapers 1/4" to 1/2". **No. 11A251. Each.....\$1.74**

X-ACTO SWISS NEEDLE FILES

SET OF 12 FILES **\$4⁹⁵**

Extremely handy for hobby and shop work.

Same as used by jewelers, watchmakers, tool and die makers, etc. Includes round, half-round, flat, oval, knife, etc. files—one for every need. In compartmented storage stand. Quality made by Swiss craftsmen. **No. 16C187. Type 60S-ST. Each.....\$4.95**

HANDY 3-IN-ONE TOOL HOLDERS

10 FOR **\$108**

PIN PUNCH SET

Handy kit of 8 high quality forged steel pin punches in most popular sizes 1/8" to 1/2". In convenient wooden case for bench or tool box. **No. 11A388. Ea. \$5.61**

Nickel plated spring steel holder holds as many as 3 tools. Handy for pliers, hammers, wrenches, garden tools, etc. Mounts on wall or bench. Has self tapping gimlet screw. **No. 11B101. 10 For.....\$1.08**

Cabinets and Embossing Tools

AKRO-MILS METAL STORAGE UNIT WITH CLEAR PLASTIC DRAWERS

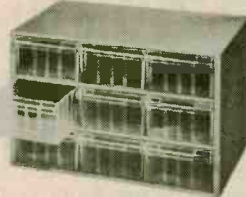
NO MORE FRANTIC SEARCHING FOR MISPLACED ITEMS



New "Modular" design cabinets are all the same width . . . may be stacked in any desired combination of cabinets to meet your individual storage needs. Place on bench or hang on wall. All steel frames are welded into one strong, solid unit to last through a lifetime of daily use. Handsome baked on gray hammertone enamel finish. Choice of 6 drawer sizes . . . each drawer divides into an infinite number of positions, crosswise, lengthwise or criss-cross, for complete flexibility.

DELUXE STORAGE CABINETS

Space conserving metal parts cabinets for work-shop, home, store, etc. Sturdy, clear plastic molded drawers provide instant item selection. Full width pull handles, rear stop tab prevents accidental spillage. Labels and drawer dividers included. *All cabinets are 17 7/8" wide. Weight G-24—11 lbs.; J-36—13 lbs., all others 18 lbs.

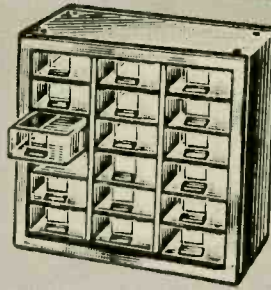


Stk. No.	Model	Quan- tity	Drawers	Size	*Cabinet Size	Each
40D79	J-36	36	1 7/8"	H. x 23 3/4" W. x 57 7/8" L.	6" D. x 11 1/2" H.	\$12.48
36B304	G-24	24	2"	H. x 23 3/4" W. x 53 3/4" L.	6" D. x 10 1/4" H.	12.48
36B305	M3C-20	20	2"	H. x 3" W. x 11" L.	11" D. x 10 1/4" H.	19.98
40B226	M4B-16	16	2"	H. x 4" W. x 11" L.	11" D. x 10 1/4" H.	17.98
36B306	T3C-15	15	3 3/8"	H. x 3 1/2" W. x 11" L.	11" D. x 10 1/2" H.	17.98
36B307	T5A-9	9	3 3/8"	H. x 5 1/4" W. x 11" L.	11" D. x 10 1/2" H.	17.98

NEW "HANDY-BIN" ECONOMY CABINETS AT LOWEST PRICE EVER!

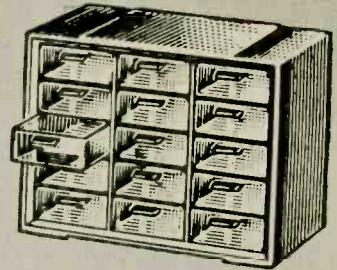
18 DRAWERS

\$3.99



9 DRAWERS

\$1.99



Now a low cost small parts cabinet to fit the needs of everyone! Keeps small items neatly arranged, always ready for instant use. Durably built for shop use, handsomely designed for home or office. Clear plastic see-through drawers.

HANDY-BIN STEEL CABINETS

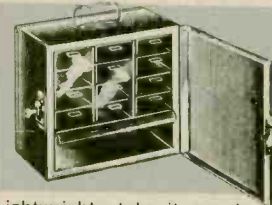
Strong, welded steel cabinets to be used singly, stacked or hung on wall. 2 3/4" W. 1 1/4" D. 5 3/4" L. clear plastic drawers with metal dividers can be divided into two or three compartments. Complete with index labels and one divider per drawer. All cabinets are 6" deep.

12 Drawers. 10" W. x 6 1/2" H. Wt. 3 1/2 lbs. Model 12HB-A.	No. 36B302. Net Each . . .	\$2.99
18 Drawers. 10" W. x 9 1/8" H. Wt. 6 lbs. Model 18HB-A.	No. 36C193. Each . . .	\$3.99
24 Drawers. 13 1/8" W. x 9 1/8" H. Wt. 7 lbs. Model 24HB-A.	No. 36C194. Each . . .	\$5.29

HANDY-BIN ALL PLASTIC CABINETS

Beautiful marbelized breakproof styrene, ideal for jewelry, sewing notions, sundries, workshop items, etc. 2 3/4" W. 1 1/4" D. 5 3/4" L. clear plastic drawers have plastic dividers, can be divided into an infinite number of compartments. All cabinets are 6 1/4" deep.

6 Drawers. 9 3/4" W. x 3 5/8" H. Wt. 2 lbs. Model 6HB-A.	No. 36B303. Net Each . . .	\$1.49
9 Drawers. 10" W. x 5" H. Wt. 2 1/2 lbs. Model 9HB-A.	No. 36C189. Net Each . . .	\$1.99
15 Drawers. 10" W. x 7 1/2" H. Wt. 3 1/2 lbs. Model 15HB-A.	No. 36C190. Net Each . . .	\$2.99
21 Drawers. 10" W. x 10 3/8" H. Wt. 5 1/2 lbs. Model 21HB-A.	No. 36C191. Each . . .	\$3.99



PORTABLE CABINET

\$4.99

CARRY IT . . . LOCK IT
HOLDS TOOLS, PARTS, ETC.

Lightweight—take it anywhere. Stores and protects small items from dust, moisture and theft. An ideal first aid center—keeps harmful drugs out of reach of children. Rigid, welded steel frame has handsome silver-gray finish, convenient carrying handle. Hinged door with lock clasp and key. 12 small plastic drawers 5 3/4" L. x 2 3/4" W. x 1 1/4" D. plus jumbo full width drawer 5 3/4" L. x 8 3/4" W. x 2 1/2" D. Overall size 9" H. x 10" W. x 6" D. With one removable divider per drawer. No. 36B142. Model 18PA. Shpg. wt. 6 lbs. Net Each . . . \$4.99

REVOLUTIONARY TOOLS MAKE PROFESSIONAL EMBOSSED LABELS, NAME PLATES PRINTS ON PLASTIC OR METAL—FOR JUST PENNIES!

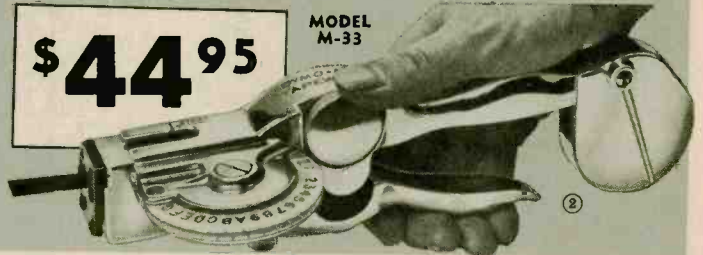
\$14.95

MODEL 14 SPACE SELECTOR FOR REGULAR OR WIDE SPACING



\$44.95

MODEL M-33



Dymo Tapewriters emboss raised white letters or numerals on choice of colored, pressure sensitive vinyl tapes, or plain raised letters on metal tapes for identifying tools, parts bins, switch boxes, controls, lockers—anywhere, indoors or out. As easy as dialing a telephone. . . (1) Load tape roll in handy magazine handle; (2) Emboss by simply rotating lettered dial to spellout desired words; (3) Cut-off label with attached cutter.

① M-20 TAPEWRITER. Prints on both 3/8" and 1/2" wide plastic tapes. Features tab cut tape cutter that automatically cuts off tape and starts stripping action of adhesive backing. Space selector for regular or wide spacing between letters. Supplied with 3/8" and 1/4" letter height "snap-in" embossing wheels. Square corner tape cut-off. Chrome finish.	No. 47A73. Shpg. wt. 2 lbs. Each . . .	\$34.95
① M-24 TAPEWRITER. Same as M-20 above, except has enamel finish and supplied with one 1/4" letter height embossing wheel.	No. 47A74. Shpg. wt. 2 lbs. Each . . .	\$29.95
① M-10 TAPEWRITER. Prints on both 1/4" and 3/8" wide plastic tapes. Has tab cut tape cutter. Supplied with 1/8" and 1/4" letter height embossing wheels, one roll 3/8" tape. Chrome finish.	No. 47B102. Shpg. wt. 1 lb. Each . . .	\$19.95
① M-14 TAPEWRITER. Same as M-10 above, except has enamel finish and with one 1/8" letter height embossing wheel.	No. 47B101. Shpg. wt. 1 lb. Each . . .	\$14.95
② M-33 TAPEWRITER. Prints on 1/2" wide plastic tapes. Supplied with 3/8" letter height embossing wheel, has tab cut tape cutter with rounded corner tape cut-off. Chrome finish.	No. 47A81. Shpg. wt. 2 lbs. Each . . .	\$44.95
② M-11 TAPEWRITER. Prints on 1/2" wide plastic or metal tape. Has square corner tape cut-off, punches hole in tape for brad mounting. Supplied with one plastic and one metal 3/8" letter height embossing wheels. Chrome finish. Shpg. wt. 2 lbs.	No. 47A83. Each . . .	\$49.95

1/2-IN. WIDE PLASTIC AND METAL TAPES

Tapes with adhesive are pressure sensitive, adhere to most clean surfaces. Tapes without adhesive have plain back for brad mounting or gluing. 141 Series have satin finish, 158 glossy finish.

Mfg. No.	Color	Specify	Stk. No. 47A98	and Factory No.	Description	When Ordering.	Size	Per Roll
158-1	Clear	Vinyl Tape with Adhesive					12"x 1/2"	\$1.85
158-9	Black	Vinyl Tape with Adhesive					12"x 1/2"	1.85
158-2	Signal Red	Vinyl Tape with Adhesive					12"x 1/2"	1.85
158-6	Blue	Vinyl Tape with Adhesive					12"x 1/2"	1.85
158-5	Green	Vinyl Tape with Adhesive					12"x 1/2"	1.85
158-7	Yellow	Vinyl Tape with Adhesive					12"x 1/2"	1.85
158-8	Brown	Vinyl Tape with Adhesive					12"x 1/2"	1.85
158-12	Grey	Vinyl Tape with Adhesive					12"x 1/2"	1.85
141-B	Blue	Vinyl Tape with Adhesive					12"x 1/2"	1.85
141-BK	Black	Vinyl Tape with Adhesive					12"x 1/2"	1.85
141-G	Green	Vinyl Tape with Adhesive					12"x 1/2"	1.85
141-R	Red	Vinyl Tape with Adhesive					12"x 1/2"	1.85
310		Aluminum Metal Tape Without Adhesive					16"x 1/2"	.65
358		Aluminum Metal Tape with Adhesive					12"x 1/2"	1.85
348		Copper Tape Without Adhesive					21"x 1/2"	1.25

1/4" & 3/8" WIDE TAPE MAGAZINES Adhesive backed pressure sensitive vinyl tapes in quick change disposable magazines.

1/4" wide x 12 ft. per roll. Specify color: grey, yellow, orange, brown, black, red, blue, green, gold.	No. 47A79. Per Roll . . .	\$1.00
3/8" wide x 12 ft. per roll. Specify color: black, red, blue, green, yellow, clear, brown, grey, orange.	No. 47A94. Per Roll . . .	\$1.25

REVOLUTIONARY DYMO HOME LABEL MAKER

NOW... MAKE PERMANENT SELF-STICKING RAISED LETTER PLASTIC LABELS FOR HOME, SHOP, OFFICE FOR JUST PENNIES!

Identifies—Organizes—Personalizes Anything, Anywhere... Indoors or Out. Choice of 10 Colored Pressure Sensitive Vinyl Tapes in Handy Disposable Magazines.

1000's of uses for home, shop, office, school... so simply operated that everyone can use it. Just dial letters, numerals or symbols—squeeze handle, and your message comes out crisp white against a colored background. A squeeze of the trigger cuts off finished label and it's ready to be applied instantly—anywhere, indoors or out.

Identify: tools, fuse boxes, photos, reports, records, files, shelves, items in storage, etc.

Personalize: luggage, sports equipment, toys, games, lockers, toothbrushes, school books, clothing, brief cases, etc.

Tool built of rugged cycolac plastic, has double cut tape cutter that automatically cuts off tape and starts stripping action of adhesive backing. Size 6 1/2" long, 6" high. Wt. 6 1/2 ozs. Shpg. wt. 1 lb. No. 47A84. Model M-4-Prints on 1/4" wide Tape. Each **\$5.95**

NEW MODEL M-38D LABEL MAKER

Prints on both 3/8" and 1/4" wide plastic tapes. Otherwise identical to M-4 tool above. With one roll 3/8" tape. Shpg. wt. 1 lb. No. 47A72. Each **\$7.95**



OUR LOWEST PRICE EVER
\$5.95



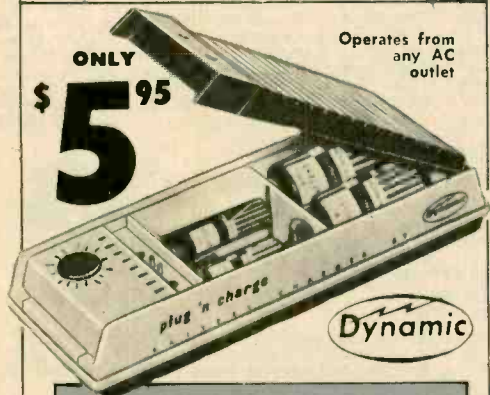
"QUICK CHANGE" TAPE MAGAZINES

Adhesive backed, pressure sensitive vinyl tapes in handy disposable magazines. 12 ft. x 1/4" wide roll. Specify Color: Grey, Yellow, Orange, Brown, Black, Red, Blue, Green, Gold. No. 47A79. Per Roll **\$1.00**

12 ft. x 3/8" wide roll. Specify Color: Black, Red, Blue, Green, Yellow, Clear, Brown, Grey, Orange. No. 47A94. Per Roll **\$1.25**

MONEY-SAVER BATTERY CHARGER

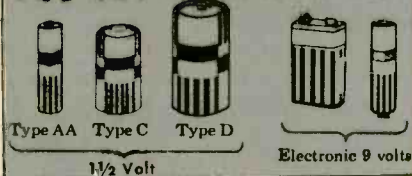
RECHARGES ORDINARY DRY CELL FLASHLIGHT AND TRANSISTOR RADIO BATTERIES, PLUS CARBON-ZINC, ALKALINE, NICKEL-CADMIUM AND MERCURY BATTERIES UP TO 15 TIMES



ONLY \$5.95

Operates from any AC outlet

SAVE ON EVERY BATTERY YOU BUY FROM NOW ON!

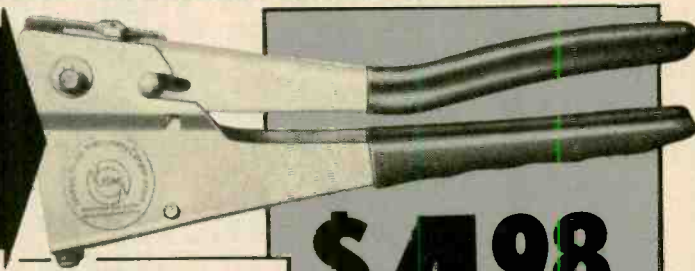


Made by Dynamic Instrument Corp., and designed by a research director for power systems in the missile space program, from basic research reported in technical magazines. Recharges up to 4 size D, C, or AA cells; or 3 flashlight cells and one 9 volt transistor battery at one time. Used for recharging when batteries are "weak" but not "dead," it's like having an endless supply of batteries for toys, radios, cameras and tape recorders. 1 1/2 volt flashlight bulb and bracket (included), serves as reliable battery charge indicator. Completely safe operation on 115 V. AC with interlock lid. Red indicator light for "On." Shpg. wt. 2 lbs. No. 29A445. Each **\$5.95**

Accessory for Recharging all size hearing aid type batteries. Inserts in any chamber of the charger above. No. 29A455. Each **\$3.95**

POP RiveTool! Now more versatile than ever

SETS BOTH 1/8 AND 3/16-IN. DIAMETER RIVETS



\$4.98
Complete with Assortment of Rivets and Back-Up Plates

Performs twice as many jobs as the original model single rivet tool! Sets two rivet sizes... 1/8" for light to medium work, 3/16" for heavier applications where greater holding power is required. Provides the fastest, most convenient means ever for fastening jobs in almost every type of work! Whether its shop projects or home repairs, you'll find Pop Rivets can be used in place of many types of ordinary fastenings in metal, wood, plastic, leather, canvas, etc. Pop rivets are inserted and set from the same side of work piece. As a result they are ideal for "blind" holes where the back side cannot be reached for attaching nuts or bucking ordinary rivets.

Use Pop Rivets in place of sheet metal screws for fastening jobs in heating and air conditioning ducts, metal screen and door frames, metal cabinets, guttering, mail boxes, metal awnings, automobile accessories, lawn mowers, etc.

Use Pop Rivets in place of nuts and bolts. They're faster and easier to install (particularly in hard-to-reach places) and they stay permanently tight. Perfect for mounting terminals, transformers, hardware, etc. to TV and radio chassis.

Use Pop Rivets in place of ordinary rivets. Does the job in a fraction of the time and without special hammer or anvil.

Use Pop Rivets in place of soldering, brazing or adhesives. You'll do a neater, stronger job... and do it many times faster. RiveTool ruggedly constructed with easy grip insulated handles. Complete with assortment of short, medium, long rivets, back-up plates and interchangeable nose pieces.

16B527. Wt. 1 1/2 lbs. Sets both 1/8" and 3/16" dia. rivets. Model K-110. Ea. **\$4.98**

Single Rivet Model K-103. 1/8" dia. rivets only. With assortment of long, medium, short rivets, and back-up plates. Wt. 1 1/2 lbs. 16B520. Ea. **\$2.98**

1/8" DIA. CADMIUM PLATED STEEL RIVETS

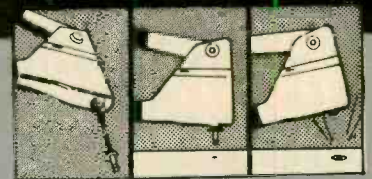
Short for work up to 1/4" thick. 16B521. Box of 25...44c 16C543. Box of 100...\$1.35
Medium for work up to 1/4" thick. 16B522. Box of 20...44c 16C544. Box of 100...\$1.79
Long for work up to 1/2" thick. 16B523. Box of 15...44c 16C545. Box of 100...\$2.24

3/16" DIA. ALUMINUM RIVETS

Short for work up to 1/4" thick. 16B528. Box of 15...44c 16B529. Box of 50...\$1.16
Medium for work up to 1/2" thick. 16B531. Box of 12...44c 16B532. Box of 50...\$1.52
Long for work up to 3/8" thick. 16B535. Box of 10...44c 16B538. Box of 50...\$1.77

Back-up Plates for use where holes are too large for Pop Rivets, and as reinforcements on both sides of hole when riveting soft materials. No. 16B524. For 1/8" Dia. Rivets. Box of 40...44c
No. 16B539. For 3/16" Dia. Rivets. Box of 30...44c

INSTALL STEEL, ALUMINUM RIVETS IN SECONDS IN ANY TYPE WORK... USES VIRTUALLY UNLIMITED



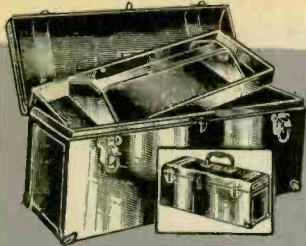
Easy to use as 1-2-3

- 1—Insert rivet.
- 2—Place rivet in hole of material to be fastened.
- 3—Set rivet.

INSURES A STRONG, NEAT FULLY PROFESSIONAL FASTENING JOB EVERYTIME!

REPLACES METAL SCREWS, NUTS AND BOLTS, ADHESIVES, SOLDERING OR BRAZING JOINTS, ORDINARY RIVETS

Tool and Parts Chest, Visers, Etc.



PARTS & TOOL CHEST

"REMOVABLE" TRAY BOX

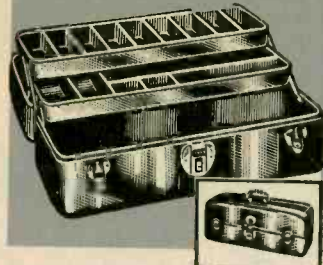
Finest quality steel with two bolt catches; built-in padlock eye; rust-proof handle. Full lock-seamed construction, rounded reinforced corners. Continuous type hinge with lid opening entirely back. Gray ripple finish. Handy Tote Tray, 21 1/2 x 8 1/2 x 1 1/2". Overall size 22 x 9 x 8". 40C101. Wt. 12 lbs. Each. **\$8.89**

GENERAL UTILITY BOX



Handy for carrying tools on the job. Automatic retracting tray. Seamless waterproof construction with rounded corners, embossed reinforcement on both cover and bottom.

Hard baked enamel finish. Size 14 1/2" L, 7 1/4" W, 6" H. Shpg. wt. 4 lbs. No. 37A231. Each. **\$2.94**



Space provided for carrying small parts and tools. Contains main tool compartment and two trays for resistors, condensers, etc. Rigid full-drawn, seamless construction, rounded corners and embossed tapered cover. Hard baked enamel finish. 19" L, 7 1/4" W, 7" H. 37A230. Shpg. wt. 7 lbs. Ea. **\$4.96**

WILTON QUALITY VISES



① WILTON MIDGET POWRARM AND VISE
Finest addition to any engineer's or experimenter's work bench. Unique PowRarm Vise combination securely locks work in most advantageous position. Release lever allows instantaneous changing of vertical and/or horizontal position. Steel vise jaws are 2 1/4" wide, open to a maximum of 2 1/4". PowRarm is made of rugged cadmium plated steel. Bolts to any flat surface. Shpg. wt. 5 lbs. No. 22A58. Model 364. Net Each. **\$15.80**

② WILTON HOBBY VISE
Low priced, high quality precision built vise, specifically designed to handle small intricate work. Ideal for model shops, hobby projects, and miniature electronic work. Features one-piece body, fully protected lead screw, removable steel jaws, and bolt mounting swivel base. Capacity 2 1/4", jaw width 2 1/4". Red baked enamel finish. Shpg. wt. 6 lbs. No. 22B311. Net Each. **\$5.85**

③ WILTON CLAMP-ON VISE
A precision built tool at low cost. Solid clamp base with positive locking screw secures vise to table, bench—anywhere on wood up to 2" thick. Twin guide construction. 2 1/2" wide hardened steel jaws open to maximum of 2 1/2". Red enamel finish. Wt. 3 3/4 lbs. No. 22B197. Model 1112. Net Each. **\$3.45**

GENERAL ELECTRIC SILICONE RUBBER ADHESIVE/SEALANT

GUARANTEED FOR 10 YEARS

Factory refund or exchange if not completely satisfied.

Super strong adhesive and sealant waterproofs... won't crack, harden, shrink.

JUST SQUEEZE FROM TUBE IN 1 HOUR **\$1.79**

- USE IT FOR:**
- Sealing around bathtubs, tile, car & boat windshields, etc.
 - Repairing rubber goods, plumbing, gutters and downspouts, convertible tops, etc.
 - Mounting fixtures to ceramic, plaster, concrete, wood.



Permanently seal around bathtubs, shower stalls, lavatories, tile, countless cracks and openings. Stretches more than 50% without breaking. Patch and repair fabrics, rubber footwear, gutters and downspouts, storm windows and doors, gaskets, convertible tops, plumbing, etc. Securely mounts fixtures to concrete, metal, wood, plaster, or tile without using screws or nails. Ideal for installing soap dishes, towel racks, etc.

Bonds securely to almost any material . . . ceramic, porcelain, fabric, leather, rubber, glass, wood, metal, plastic, masonry, etc. Pure 100% rubber paste dries to rubber consistency, remains permanently pliable, unaffected by cold, heat, water . . . use in any kind of weather.

Choice of 4 practical colors in convenient squeeze tube with application nozzle. Net wt. 3 ozs.

No. 11B435.—Aluminum Colored No. 11B427.—Black Choice **\$1.79**
No. 11B434.—Clear (Translucent) No. 11B426.—White Each

ARGOS TUBE AND TOOL CADDIES ESSENTIAL FOR "OUT-OF-THE-SHOP" WORK

DELUXE FEATURES

- Large Tube & Tool Capacity.
- Lightweight for easy carrying.
- Professional appearance.
- Durably built to take abuse.

POPULAR JUNIOR CADDY

Lightweight, easy to carry, yet with ample capacity for carrying up to 143 tubes with room for meters and tools. Break open design for easy identification and accessibility of both tubes and tools. Attractively covered in long wearing abrasion resistant brown vinyl. Sturdily constructed for lasting service. Has clasp lock. Plastic handle. Size 15 3/4" W. x 12 1/2" H. x 8" D. Shpg. wt. 9 lbs. No. 40B128. Model TC-201. Ea. **\$9.69**

PACEMAKER CADDY

All the popular features of the above model in a larger, roomier case. Carries up to 262 tubes with room for tools, probes, soldering gun, assorted small parts. Has two clasp locks, plastic carrying handle. Durable brown vinyl covering. Measures 21" W. x 15" H. x 8" D. Shpg. wt. 11 1/2 lbs. No. 40A129. Model TC-100. Ea. **\$13.95**



NEW SELF-ADJUSTING SOCKET WRENCH

SIMPLY PRESS AND TURN—ADJUSTS AUTOMATICALLY TO FIT 7 BOLT OR NUT SIZES



Unique self-adjusting action instantly and automatically selects the right socket to fit any of 7 different sizes of hex head bolts or nuts from 1/4" to 3/8". Eliminates the need for individual wrenches for each size. Tempered steel sockets of extra depth insure maximum strength and torque, permit use with bolt extensions up to 1 3/4" long. Internal mechanism corrosion proofed for long-life. Chrome plated steel housing. Shockproof insulated handle. Shpg. wt. 3/4 lb. No. 16A939. Each. **\$4.95**

DELUXE MODEL PRECISION SPLIT IMAGE TRANSIT

- New external sights for faster, more accurate operation.
- New prism-like optical system.
- Simplified calibration system.

B-A LOW PRICE

\$4.69

ACCURATE FOR LEVELING AND INCLINE MEASUREMENT

Easy as a camera to operate! One man alone can do leveling and incline measuring accurate to a fraction of an inch. Ideal for on the job and around the house; for carpentry leveling, patio and terracing, duct installation, foundation work, contour plowing, brick laying, yard grading, irrigation, guttering, drainage, masonry, TV and Ham tower and antenna installations, etc. Shpg. wt. 2 lbs. No. 29B24. **\$4.69**

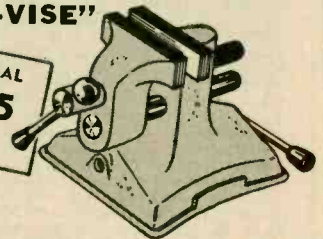
Beautiful Simulated Leather Carrying Case. For transit above. No. 29B25. Net Each. **\$2.69**



PORTABLE "VACU-VISE"

SUPER SUCTION BASE HOLDS VISE IMMOVABLE ON SMOOTH SURFACES . . . EVEN VERTICALLY

B-A SPECIAL
\$4.95



WILL NOT MAR ANY FINISH

Most convenient, versatile vise ever made! It's like having a third hand . . . anywhere . . . on the job . . . right where you need it. Just a finger-tip turn of the Vacu-Lever holds vise firm and fast to workbench, table top—even vertically on the wall. Simply turn lever to release. Ideal for hobby work, shop, home, school, etc. Large 2 1/2" jaws of hardened steel have work holding "V" grooves, open to 2 1/2". Shpg. wt. 3 lbs. No. 37B375. Each. **\$4.95**

Precision Hobby Tools

ELECTRIC GRINDING AND ENGRAVING TOOL SETS



DREMEL HOBBYIST MOTO-TOOL KIT

MAKES SMALL PRECISION JOBS
EASY IN HOME AND SHOP

EASY TERMS **\$19⁹⁵**

A low cost, high quality power tool and accessory kit designed to do small precision jobs. Grinds, polishes, drills, sands, etc. Weighs only 6 ounces. Handles like a pencil, permits you to do fine detail work with pin-point accuracy. Wrenchless collet chuck. Has oilless, self aligning bearings mounted in felt oil retainers. 110-120 V. 60 cycle AC-DC motor. Approximately 25,000 RPM. Fingertip switch. Tool only 1 7/8" dia. x 5 3/8" long overall. Kit includes #211 Moto-Tool with chuck and 3 collets, 1/8", 3/16", 1/4"; 8 steel cutters; 4 emery wheel points; drum sander; dressing stone; 4 mandrels; 3 bristle brushes; 3 cut-off wheels; 2 rubber polishing wheels; 5 polishing and sanding accessories. In fitted steel case. Shpg. wt. 3 1/2 lbs.

No. 37A413. Model 212. Each **\$19.95**

Model 211 Moto-Tool Only with chuck, 1/8" collet and emery wheel point.

No. 37A165. **\$14.95**

Each

DELUXE DREMEL MOTO-TOOL KIT

POWER TOOL AND 25 OF THE MOST POPULAR ACCESSORIES. **\$23⁹⁵**

A high-speed precision pocket-size machine shop... Ideal for hobby work, lab use, schools, repairman and model makers, dentists, opticians, etc. Grinds, polishes, carves, drills, sands and saws. Does in seconds those time consuming jobs that are difficult to do with ordinary hand tools.

Wrenchless collet chuck for easy, convenient means of changing tools. Operates on 110-120 volt 60 cycle AC/DC. 27,000 RPM. Oilless self-aligning bearing mounted in felt retainers. Fingertip switch for rapid start and stop or continuous operation. Wt. only 13 ozs., handles as easily as a pencil.

Kit includes: #221 Moto-tool with chuck and 3 collets, 1/8", 3/16", 1/4"; finger grip attachment; 4 emery wheel points; dressing stone; 8 steel carving cutters; steel saw; 3 bristle brushes, steel brush; shoulder mandrel with sanding discs; screw mandrel with felt wheel; drum sander. In fitted steel case. Shpg. wt. 4 lbs. No. 37A159. Model 222. **\$23.95**

Each

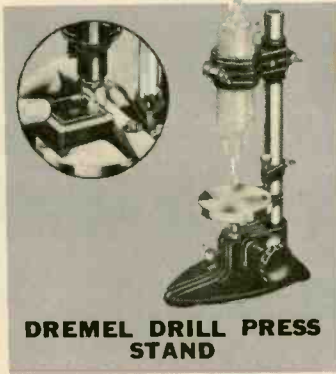
Model 221 Moto-Tool Only with chuck, 1/8" collet and emery wheel point.

No. 37C160. Shpg. wt. 3 lbs. **\$16.45**

Each



20 PIECE ACCESSORY SET



DREMEL DRILL PRESS STAND

Contains accessories for routing, drilling, grinding, engraving, polishing, sawing. Includes: 2 collets, 1/8" and 3/16"; 4 steel cutters; 4 emery points; 1 steel saw; 3 brushes; 1 screw mandrel; 1 shoulder mandrel; 1 drum sander; 3 drills. In handy compartmented stand. Shpg. wt. 2 lbs.

No. 37A164. Model 202. Ea. **\$9.95**

Fits Models 221 and 232 Moto-Tools. Perfect for precision drilling and routing—ideal for Model makers, wood carvers, etc. Drill press height 12", base is 6 3/4" x 4". Table can be raised or lowered, locks in any position for accurate depth adjustment. Shpg. wt. 4 lbs. No. 37A163. Model 225 **\$12.60**

Each

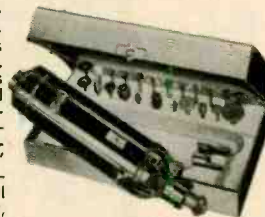
DREMEL HEAVY DUTY MOTO-TOOL KIT

Similar to tool above but designed for heavy continuous duty operation. More powerful—operates at 27,000 RPM with high torque. Just as handy—just as easy to use—weighs only 18 ozs. Covers a wide range of industrial applications including polishing and grinding of dies and molds, pattern making, model building and production deburring. Dynamically balanced—grinds to the closest tolerances. Sturdy shock-proof bakelite housing, size 1 1/2" dia. x 7 1/2" long. Comes complete with 1/8", 3/16", 1/4" collets; finger grip attachment; 5 emery wheel points; dressing stone, 8 steel cutters, steel saw, 2 bristle brushes, steel brush, shoulder mandrel with sanding discs, screw mandrel with felt wheel, drum sander—all in fitted steel storage case. 110-120 V. AC-DC, 3-wire cord with 2-prong adaptor. Shpg. wt. 4 lbs. Mfg.

No. 37C357. Model 233 Kit. Each **\$29.95**

handy finger grip attachment. Shpg. wt. 2 lbs. Mfg. **\$23.48**

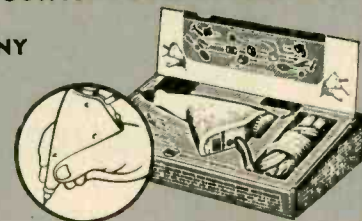
No. 37B415. Model 232. Each



BVI MARKING AND ENGRAVING TOOL HEAVY DUTY FOR CONTINUOUS OPERATION

MARKS AND ENGRAVES ANY MATERIAL, EASIER, BETTER, FASTER

\$9⁴⁹



Permanently identifies all types of tools, marks parts, frosts glass, tools leather... "writes" on the hardest steel, aluminum, wood, plastics, copper, ceramics, stone, and many other materials. Does hundreds of jobs easier and faster—handles like a pencil—anyone can use it. Ideal for the hobbyist and shop, perfect for industrial use. Comfortable new hand-rest design plus small size and light weight permits continuous use without tiring the operator. Reciprocating 110 volt 60 cycle AC motor delivers 7200 strokes per minute for fast, clean work. Control wheel adjusts "impact" for fine, medium or coarse stroke. Unbreakable polypropylene housing. Supplied complete with hard tantalum point. Shpg. wt. 1 lb. Mfg. list \$12.95.

No. 20A194. **\$9.49** 3 Lots, Each **\$8.63**

No. 16A352. Extra Point. Each **\$1.33**

No. 20B216. Diamond Point. For extra heavy duty marking needs. **\$4.98**

DREMEL HOBBY POWER TOOL ACCESSORIES

Emery Wheel Points

Stk. No.	Fig.	1/8" Shank Dia.	3/8" Shank Lgth.	Net Ea.
16A783	1	1/8"	5/8"	\$0.40
16A784	2	1/8"	3/4"	.40
16A785	3	1/8"	7/8"	.40
16A786	4	1/8"	1"	.40
16A797	5	1/8"	1 1/2"	.40

Silicon Grinding Points

Stk. No.	Fig.	1/8" Shank Dia.	3/8" Shank Lgth.	Net Ea.
16A806	1	1/8"	5/8"	.40c
16A807	2	1/8"	3/4"	.40c
16A808	3	1/8"	7/8"	.40c
16A809	4	1/8"	1"	.40c
16A810	5	1/8"	1 1/2"	.40c
16A811	6	1/8"	2"	.40c

Steel Carving Cutters

Stk. No.	Fig.	1/8" Shank Dia.	Net Ea.
16A812	1	1/8"	.99c
16A813	2	1/8"	.99c
16A814	3	1/8"	.99c
16A815	4	1/8"	.99c
16A816	5	1/8"	.99c
16A817	6	1/8"	.99c
16A818	7	1/8"	.99c

Chuck Collets

No. 16A819. Accommodates 1/8" to 1/4" shank. Each	40c
No. 16A820. Accommodates 1/4" to 3/8" shank. Each	40c
No. 16A821. Accommodates 3/8" to 1/2" shank. Each	40c

MINIATURE HIGH INTENSITY LAMP

FITS ON WORKBENCH DESK, ETC. PUTS LIGHT WHERE YOU NEED IT!

\$5⁹⁵

FOR HOBBYISTS, STUDENTS, HOMEMAKERS

Perfect high intensity, glareproof pure white light... flexible 12" gooseneck and reflector puts light exactly where you need it. Fits anywhere... on desk, drawing table, hobby bench, sewing table... dozens of uses in the home, shop, office. Extremely useful when working with miniature components and equipment. Base measures only 4" dia. Off-on switch. Includes 600 hour bulb. Beige enameled.

No. 29A453. Special Each **\$5.95**

No. 16C237. GE 1156 Bulb. EACH **44c**



SWIVELS TO ANY POSITION

MARKS AND ENGRAVES ON WOOD, METAL, PLASTIC, LEATHER—FAST, EASY, AT LOWEST COST EVER

ONLY **\$6⁹⁵**

Special Mercury Switch Turns It On-Off Automatically Performs hundreds of marking and hobbycraft jobs—from simple tool and equipment identification to intricate design engraving on wood, metal, plastic, glass, ceramic, etc. As easy to use as an ordinary lead pencil. Pick it up and it turns on—put it down and it turns off... automatically. Reciprocating 115 V. 60 cycle AC motor. Control wheel adjusts point impact. Durable red plastic housing. With hard steel point. Net wt. 10 ozs. Shpg. wt. 1 lb. No. 20B160. Model V-69. Each **\$6.95**

No. 20B161. Extra Steel Point. Each **\$1.35**

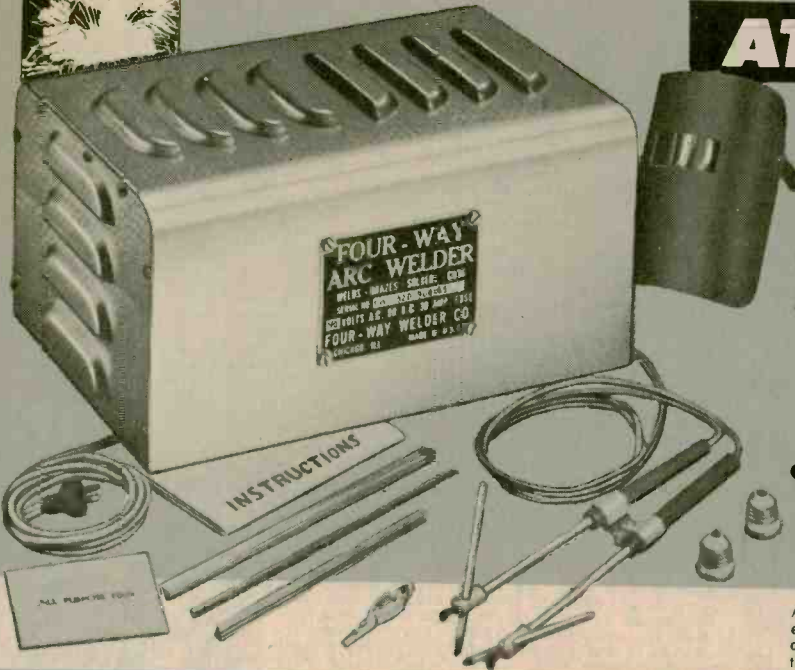
No. 20B162. Carbide Point. For glass, extra hard surfaces. Each **\$2.25**





NOW... PROFESSIONAL WELDING

AT LOWEST COST!



PORTABLE ELECTRIC ARC WELDER

\$14⁹⁵

**COMPLETE
READY-TO-USE
NOTHING ELSE
TO BUY!**

• WELD • BRAZE • SOLDER • CUT
IRON, STEEL, BRASS, BRONZE, COPPER,
CAST IRON AND OTHER METALS!

A really practical, dependable unit that produces professional welding you'd expect only from equipment costing much, much more. Compact, lightweight, completely portable . . . take it anywhere! Simple and easy to use even for the novice. Simplified instructions explain how to do both metallic and carbon arc welding, brazing, soldering, pre-heating and metal cutting. Make on-the-spot repairs in almost any type of metal . . . even aluminum. Fix hard to replace or impossible to get parts on mowers, garden tools, pots and pans, washers, dryers, farm equipment, TV and radio chassis . . . 1001 items around the home, shop or farm. Weld car bodies, cut them down, build them up . . . make your own tables, work benches, lamps, chairs, shelves, ornamental wrought iron fixtures, etc. Complete with input power cable and plug, combination twin carbon arc torch—single metallic arc welding electrode holder and ground cable, welding and brazing rods, full face shield, flux, solder, carbon, grounding clip, and complete welding instructions. Operates from any properly wired 110 V. AC-DC 30 amp line. Uses standard welding rods and carbons. Power unit size 6" H x 10 1/2" W x 6" D. Shpg. wt. 6 lbs. No. 36C248. Special Each.....

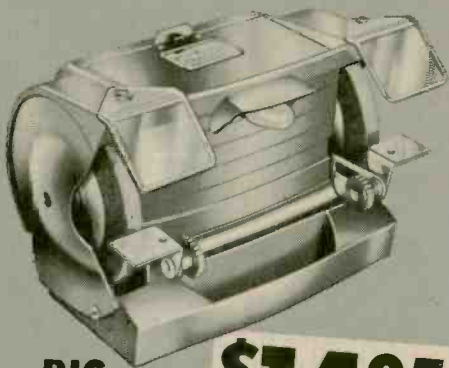
\$14.95

5-YEAR GUARANTEE!

Factory repair or replacement if unit becomes inoperative due to defective materials or workmanship.

**HIGH IN QUALITY AND
PERFORMANCE—YET SO
LOW COST IT CAN PAY
FOR ITSELF IN A
SINGLE JOB!**

MANNING-BOWMAN BENCH GRINDER



**BIG
VALUE**

\$14⁹⁵

- Built-in water cooling tray and work light.
- Safety eye shields.

Low priced, ruggedly constructed grinder packed with features normally found only in higher priced units. Perfect for hobbyists, model makers, home craftsmen, etc. Powerful industrially rated 3.2 amp. 3450 RPA motor, has lifetime, self-lubricating bronze bearings throughout. Has 2-4 1/2" wheels, 1-coarse and 1-fine grit. Adjustable tool rests make angle grinding easy. Pressure die-cast aluminum housing with baked enamel finish. Size 9" wide, 6 1/2" high, 7" deep. Weighs only 9 1/2 lbs. for easy portability. 3-wire cord. 115 V. 60 cycle. AC. Shpg. wt. 11 lbs. No. 37C50.

\$14.95

Each
198

HEAVY-DUTY INDUSTRIAL TRANSFORMER PROFESSIONAL ARC WELDER

ONLY

\$47⁵⁰

COMPLETE
READY-TO-
USE

**WELDS — SOLDERS — CUTS
BRAZES — PREHEATS**

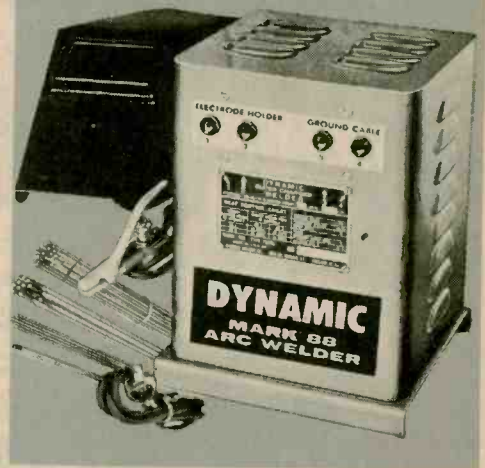
**IDEAL FOR GARAGES —
FARMS — SERVICE STATIONS —
SHOPS — INDUSTRIAL USAGE**

5-YEAR GUARANTEE

Factory repair or replacement if unit becomes inoperative due to defective materials or workmanship.

Rugged, powerful, super-charged, precision built and engineered to handle the really tough welding jobs and provide years and years of dependable, trouble-free service. Features a heavy-duty industrial type transformer with the same design and construction as used in machines selling for several times the price of this amazing new welder. Make or repair auto bodies, farm equipment, fences, metal furniture . . . hundreds of other metal items. Accomplish a wide variety of maintenance jobs in the shop, garage, factory—quickly, economically. Simplicity of operation enables anyone to weld, braze, cut, solder on the first try. Does both carbon arc and metallic arc welding with 4 heat settings . . . 20 amp, 40 amp, 60 amp

80 AMPERES, 4 HEAT SETTINGS
Handles 1/4" to 1/8" electrodes on iron, steel, brass, bronze and other metals to 1/2" thick.



and 80 amp. Properly ventilated and insulated for maximum cooling. Sturdy metal cabinet has baked on blue enamel hammerloid finish. Size 9 3/8" W, 9" D, 12 1/4" H. Convenient to carry from job to job for on-the-spot repairs. Operates from any properly wired 110 V. AC 50/60 cycle line. 28 amps input.

Complete with full head shield, electrode holder, welding cables, ground cables and clamp, power cable, assorted welding and brazing rods, carbons, solder, flux, complete "easy-to-operate" instructions. Uses standard welding rods and carbons. Shpg. wt. 34 lbs. No. 36C247. Each.....

\$47.50

Glue Gun, Vacuum Cleaner, Etc.

electric glue gun

NEW MULTI-PURPOSE VACUUM CLEANER

NOT A 5 GALLON BUT A BIG 12-GAL TANK



\$18⁹⁵

Ideal for 100's of cleaning jobs in the home, basement, workshop, garage. Positive suction action makes easy clean-up of dust, dirt particles, sawdust, wood shavings, etc. . . . specially designed pick-up head reaches into corners, covers large area. Big 12 gallon tank really holds a load, use time after time without emptying. 60" flexible hose, 12" chromed steel extension wand. Powerful 2.7 amp 115 V. 50-60 cycle AC motor. Fibre board tank size 18" H. x 16 1/4" dia., top carry handle. 9 ft. cord. With 1 each paper and cloth filter bag. **37A583. Wt. 16 lbs. Each. \$18.95**
37A584. Cloth Filter Bag.90c
37A585. Paper Filter Bag.60c

HOT MELTED GLUE PERMANENTLY BONDS:
 Wood, Plastic, Fabric, Leather, Metal, Pottery, MANY OTHER MATERIALS

IN JUST 60 SECONDS

Glued items are ready for use immediately! No lengthy set-up or drying time as required with ordinary glues.

Fastest, easiest, best means ever for accomplishing 1000's of bonding jobs in the home and shop. Not only does the melted glue bond permanently and securely in just 60 seconds, but it provides a bond that's flexible . . . perfect for gluing furniture and other objects where a certain amount of "give" is needed . . . Uses unique hot-melt solid glue and sealer sticks—never dries out, no bottles or tubes to leak.

Ideal for making and repairing wooden items, leather goods, metal and plastic articles . . . plus scores of hobbycraft uses. Special white sealer sticks provide instant-set, water-proof caulking around bathtubs, shower stalls, windows, tile, etc. Gun has high impact plastic housing. Complete with 4 glue sticks, and 3 white sealer-sticks.

- No. 11B262 Shpg. wt. 1 1/2 lbs. Each. **\$5.44**
- No. 11B263 Thermogrip Glue Sticks. Pkg. 7. 44c
- No. 11B264 Thermogrip White Sealer Sticks 44c
- Package of 7. 44c

COMPLETE WITH GLUE AND SEALER STICKS
 Was \$7.44

\$5⁴⁴

EASY TO USE
 NO CLAMPING!
 NO MESSY CLEAN-UP!



MAKES ALL OTHER GLUING OBSOLETE!

SUPER-STRENGTH WATER-PROOF BONDS IN ALMOST ANY MATERIAL . . . PLUS INSTANT SET WATERPROOF CAULKING AND SEALING

HAND STAPLER



Small and compact—carry with you anywhere. 1001 uses in workshop, home, school.

- Handsome two-tone brown and nickel finish. Shpg. wt. 10 oz.
- 22C271. Model P66. Each. . . . \$1.39**
- 22C272. Box of 1000 Staples. . . . 29c**

7-IN. SNIPS



High quality drop forged steel shears cut straight as well as right or left curves. 1 3/8" polished blades. Lgth. 7". Shpg. wt. 6 oz.

- Kraeuter 27707. \$2.20**
- No. 16A542. Each. 2**

MOTOR SPEED CONTROL

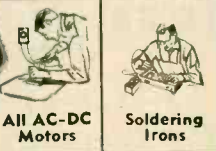
JUST PLUG IT IN AND ADJUST SPEED



CONTINUOUSLY VARIES SPEED OF ANY AC-DC MOTOR FROM ZERO RPM UP TO FULL SPEED WITHOUT LOSS IN POWER

ONLY

\$11⁹⁵

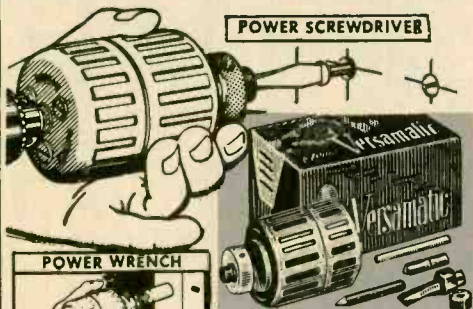


All AC-DC Motors

Soldering Irons

Ideal for Electric Drills, Saws, Sanders—Provides the proper speed for the job! Maintains speed and torque—will not stall.

SUPREME "VERSAMATIC" WONDER TOOL REVERSIBLE SCREWDRIVER & SPEED REDUCER FOR ELECTRIC DRILLS



POWER SCREWDRIVER

\$11²¹

MOST VERSATILE UNIT OF ITS KIND YET PRODUCED.

Fits directly into chuck of any drill—Boosts power 7 times—Converts any light duty drill for heavy work.

Will lighten the work-load of any mechanic . . . professional or amateur. Eliminates usually tough, tiresome hand work. Just look at what it does: Reduces the speed of a power drill by seven times, and through torque increases the power by a like amount. As a sensational added feature—runs in reverse with one easy twist; both drives and removes all screws, big or little . . . fast . . . safe! Drives and removes nuts—1/4" socket drive included; with the addition of 1/2" chuck similar to that listed below handles such heavy duty jobs as large diameter drilling with hole saws, auger bits, etc., in metal or masonry; plus precision tapping. Bits and taps last far longer, cut more efficiently. Complete ready to use with the parts needed for all routine jobs. Includes: Versamatic unit; stand; and screwdriver bit; No. 2 Phillips type bit; 1/4" square drive socket adapter and 16 page instruction manual. Fully guaranteed.

- No. 37B123. Wt. 3 lbs. Complete Set. \$11.21**
- No. 16B852. 1/2" Geared Key Chuck. \$5.49**
- For use with above. Each.



POWER WRENCH



POWER SPEED REDUCER



POWER TAPPER

BVI ELECTRIC PAINT SPRAYER TRIPLE NOZZLE TURRET

SPRAYS:

- PAINT • VARNISH • GARDEN SPRAYS
- MOTHPROOFERS • ETC.

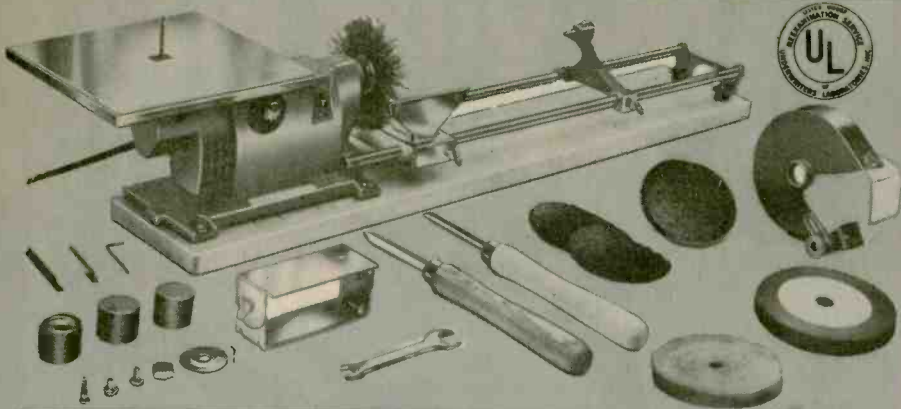
Unique rotating turret enables you to select the correct nozzle for every spraying need. Produces fan-shaped spray for painting large, flat surfaces! round spray for general painting; fog-like spray for garden sprays, mothproofers, etc. Completely self-contained—simply plug-in, pull trigger and spray. Fool-proof, clogproof, trouble free. Graduated 24 oz. container. Convenient hanging hook. Trigger on-off switch. Operating mechanism sealed in shockproof head. Adjusting knob for light or heavy spray. 115 V. 60 cy. Shpg. wt. 3 1/2 lbs.



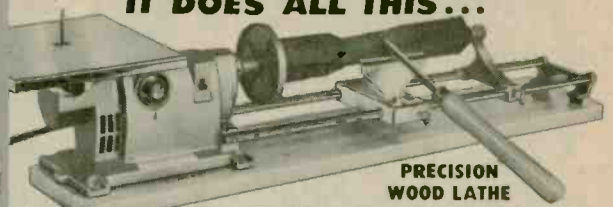
- No. 36B185. Model VS850. Each. . . . \$14.97**

NOW PROFESSIONAL WOODWORKING AT LOWEST COST

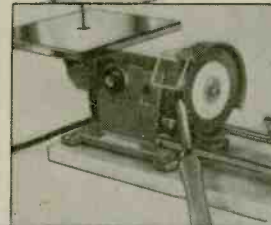
REVOLUTIONARY NEW "SABRE-LATHE" POWER WORKSHOP



IT DOES ALL THIS...



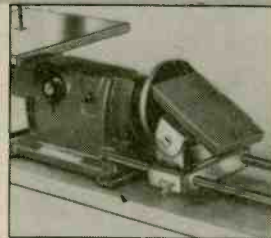
PRECISION WOOD LATHE



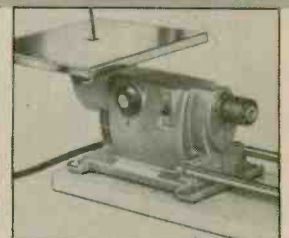
GRINDER



TABLE JIG SAW



DISC SANDER, POLISHER



DRUM SANDER

UNBELIEVABLE LOW PRICE

\$34.95

COMPLETE

AMAZING
VERSATILITY,
QUALITY AND
PERFORMANCE

MANUFACTURED BY
MANNING BOWMAN
DIV. OF MCGRAW EDISON

Greatest power tool value we have ever been able to offer! Just imagine... five individual power tool functions featuring a really practical, fully dependable wood lathe and including a table jig saw, grinder, drum and disc sanders... all for much, much less than you would normally pay for a lathe alone. Turns out professional quality work... fine furniture legs, beautiful decorative placques, cabinets and tables, all sorts of useful furniture pieces for the home. Simple and easy to change from one tool function to another in just seconds. Powerful 2.8 amp motor supplies 3 speed ranges—3700, 3300, 3100 RPM—for handling rough to fine finishing jobs on all tool operations. Separate speed control and on-off switch.

Lathe has sturdy steel tubing bed for stability and accuracy. Adjustable tool rest with positive locking thumb screw. Accommodates wood pieces up to 18" long, 4" dia.

Includes 8x8" jig saw table and 3 assorted blades (length of blade stroke 3", 4 1/2" grinding wheel with guard and eye shield, 4 1/2" wire brush, 4 1/2" buffing pad, 2 disc sanding sheets and adjustable table work rest, 2 drum sanders, allen and open end wrenches, lathe tool, face plate. Heavy-duty 6 ft. 3-wire cord. 115 V. 60 cycle, AC. Comes mounted on 32" L. x 6" W. hardboard. Rugged die-cast power unit housing.

No. 36A359. Shpg. wt. 17 lbs. Complete Workshop... **\$34.95**

HOLE SAW SETS FOR ANY ELECTRIC DRILL



\$5.88

With 7 Blades

Just the ticket for cutting holes fast and clean in wood, plastics, metals, etc. Set consists of 7 high speed shatterproof saws—1", to 2 1/2" by 1/4"s. Cuts 3 times faster than other hole saws selling for twice as much. Rugged alloy tool head with 1/4" pilot drill for holding blades.

No. 16B878. Per Set... **\$5.88**

14-IN-1 SET. Saw sizes—7/8" to 2 1/2" by 1/8"s. Includes two heads and pilot drills. No. 22B273. Per Set... **\$11.19**

SCREW AND NUTDRIVER ATTACHMENT DRIVES SCREWS, NUTS, BOLTS QUICKLY & EASILY

FITS ANY ELECTRIC DRILL



\$4.99

Drives slotted and Phillips screws, hex and square nuts and bolts.



Now, any electric drill becomes a power screwdriver and nutdriver. Eliminates hours of tough, tiresome hand work—non-slip clutch engages by applying pressure—automatically disengages when screw or nut is driven home. Special bit holders prevent bits from slipping off screw. Includes: 2 slotted screwdriver bits, 1 #2 Phillips bit, 6 hex sockets 1/4" to 1/2", 2 square sockets 1/4" and 5/8", socket wrench holder with ball lock. No. 22C73. Shpg. wt. 1 1/2 lbs. Special Each... **\$4.99**

SHOPMATE ELECTRIC SCREWDRIVER

\$29.95

QUICKLY AND EASILY DRIVES OR REMOVES #4 THROUGH #12 SLOTTED OR PHILLIPS HEAD SCREWS



POWERFUL REVERSIBLE 3 AMP MOTOR

One of the handiest tools you can own! Ideal for assembly work, building and repairing cabinets, furniture, boats... countless jobs around the home and shop. Compact and lightweight for fatigue-free operation. Unique screw bit finders make it easy to line up and engage the bit head with the screw head slot. 100 to 1 gear reduction assures high torque. Positive clutch action. Ball thrust and self-lubricating bronze bearings. No load speed 325 RPM. Instant release on-off switch, and reverse switch. Complete with 2 slotted screwdriver bits, one Phillips bit. Combination aluminum mirror finish and Lexan housing. Overall length 8 1/2". 6 ft. 3-wire cord. 115 V. 25-60 cycle AC. Net wt. 2 3/4 lbs. Shpg. wt. 3 1/2 lbs.

No. 37B5. Model 1895. Each... **\$29.95**

IMPROVED MODEL THOR "SPEED SNIPS" ELECTRIC SCISSORS

\$5.95

BUILT IN SPEED LIGHT

GREATER POWER FASTER, SAFER, EASIER FOR EVERY CUTTING JOB

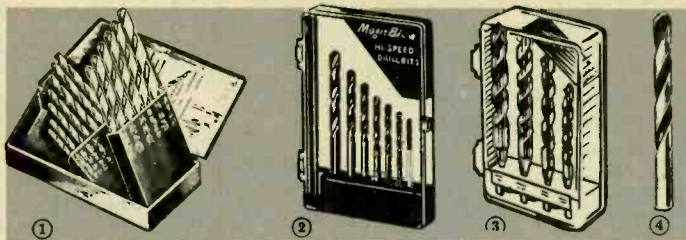
- Cuts Grill Cloth
- Drapery Materials • Suiting, Etc.



More convenient than ever! This improved version of the popular Speed-Snips electric scissors eliminates tiresome hand cutting. Perfect for hi-fi installers, service shops, tailors, housewives—anyone requiring professional quality scissors. Safe even for children, fully approved by UL and CSA. Lightweight and easy to handle, non-tiring even after hours of use. Precision ground chrome plated blades stay sharp longer. Durable Dupont Zytel case. Overall size 6 1/4" L. x 1 1/2" W. x 2 1/8" H. With 6 foot cord. Wt. 9 ozs. No. 37A314. Each... **\$5.95**

Drill Bits, Taps & Dies, Etc.

CENTURY "MAGIC BLACK" HIGH SPEED DRILL BITS AND SETS



① MB3 DRILL SETS

13 high speed mechanics length drills. Sizes $\frac{1}{8}$ " to $\frac{1}{4}$ " by 64ths. Use with power or hand drill on metal, wood, plastic, etc. Handy Huot index container. Every drill is instantly accessible. Shpg. wt. 1 lb. No. 16A382. Per Set. **\$6.07**

② MF-7 DRILL SETS

7 high speed drills. Sizes $\frac{1}{8}$ " to $\frac{1}{4}$ " by 32nds. Use with any power or hand drill on metal or wood, plastic, etc. In plastic case. No. 16A667. Per Set. **\$3.25**

③ MB525 DRILL SET

5 high speed drills. Sizes $\frac{1}{4}$ " to $\frac{1}{2}$ ". All have $\frac{1}{4}$ " shanks—makes possible their use in $\frac{1}{4}$ " electric drills. Sizes $\frac{1}{4}$ " $\frac{3}{8}$ " $\frac{1}{2}$ " and $\frac{3}{4}$ " in plastic case. Shpg. wt. 1 lb. No. 16B840. Per Set. **\$8.65**

④ INDIVIDUAL BITS

Type 999PT. Mechanics lengths. $\frac{1}{4}$ " dia. shanks.

STANDARD SIZES			
Size	No.	Each	Size
$\frac{1}{8}$ "	16A474	\$.26	$\frac{1}{4}$ "
$\frac{3}{16}$ "	16A475	.26	$\frac{3}{8}$ "
$\frac{1}{4}$ "	16A476	.27	$\frac{1}{2}$ "
$\frac{5}{16}$ "	16A477	.30	$\frac{3}{4}$ "
$\frac{3}{8}$ "	16A478	.36	$\frac{1}{2}$ "
$\frac{1}{2}$ "	16A479	.36	$\frac{1}{2}$ "
			$\frac{1}{2}$ "

WIRE GAUGE SIZES			
Ga.	No.	Fits Screw	Each
43	16B779	2-56	\$0.27
33	16B780	4-36, 4-40	.31
28	16B781	6-32	.39
18	16B782	8-32	.48

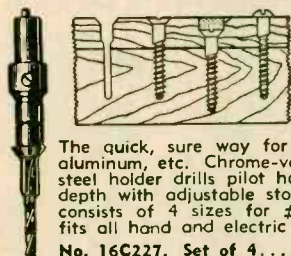
MASONRY DRILLS

For drilling in concrete, plaster or brick. All have $\frac{1}{4}$ " shanks.

Stk. No.	Size	Length	Net Ea.
16A669	$\frac{1}{4}$ "	4"	\$1.08
16A670	$\frac{3}{8}$ "	4"	1.28
16A671	$\frac{1}{2}$ "	6"	1.61

"SCREW-DRILL" SET DRILLS! COUNTERSINKS! AND COUNTERBORES!

ALL IN ONE EASY OPERATION
4 SIZES—#6, #8, #10, #12



The quick, sure way for screw driving in wood, plastic, fiber, sheet aluminum, etc. Chrome-vanadium drill bit with nickel plated hardened steel holder drills pilot hole, countersinks and counterbores to desired depth with adjustable stop indicator, all in one simple operation. Set consists of 4 sizes for #6, #8, #10 and #12 screws. $\frac{1}{4}$ " shank fits all hand and electric drills.

\$2.76

No. 16C227. Set of 4.

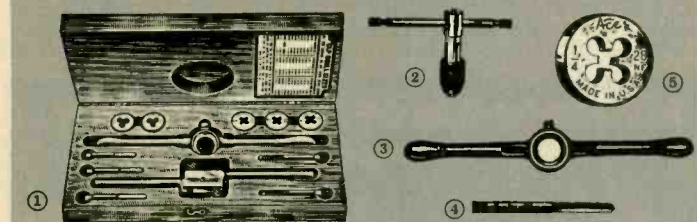
2-SPEED ANGLE DRIVE

Reduces speed to one-half, or doubles speed of any electric drill. Reduces speed for buffing, drilling in masonry, steel—doubles speed for sanding, etc. Swivel angle drive for working in close quarters at any angle. Handle fits either side for easiest handling. Shpg. wt. $1\frac{1}{2}$ lbs. No. 16C937. Each. **\$3.39**



\$3.39

HANSON QUALITY TAP & DIE TOOLS



① NO. 21 TAP & DIE SET

Popular set for the radioman or hobbyist. Consists of excellent quality high carbon alloy steel taps and solid dies, sizes 6-32, 8-32, 10-24, 12-24 and $\frac{1}{4}$ "-20 plus Tap and Reamer Wrench with hardened jaws, and ruggedly constructed die stock. Comes in handy mahogany box. Wt. 3 lbs. No. 22B187. PER SET. **\$8.38**

② TAP WRENCH

Sliding handle type. Knurled chuck holds No. 0 to No. 12 taps. No. 16B346. Each. **57c**

③ TAPS

No.	Size	O.D.	Each
12A1630	2-56	.086	\$0.57
12A1503	4-36	.112	.36
12A1504	6-32	.138	.36
12A1505	8-32	.164	.36
12A1506	10-24	.190	.39
12A1507	10-32	.190	.39
12A1508	$\frac{1}{4}$ "-20	.250	.44

④ DIE STOCK

Holds 1" O.D. dies for accurate cutting. Rugged construction for long Service life. No. 16A593. Each. **79c**

⑤ DIES

1" O.D. solid dies. Made of high carbon, alloy steel.	Size	O.D. Thd.	Each
Stk. No.	Size	O.D. Thd.	Each
12A1669	4-36	.112	\$0.54
12A1670	6-32	.138	.54
12A1671	8-32	.164	.54
12A1672	10-24	.190	.54
12A1673	10-32	.190	.54
12A1674	$\frac{1}{4}$ "-20	.250	.54

THOR-SPEEDWAY DRILL PRESS STAND

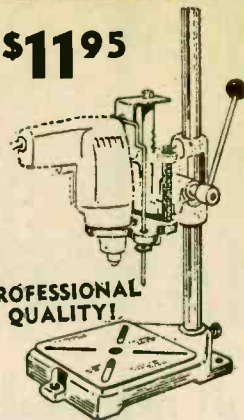
\$11.95

CONVERTS ALL $\frac{1}{4}$ " & $\frac{3}{8}$ " DRILLS—SPADE OR PISTOL GRIP—TO DRILL PRESS

Do those tough and accuracy requiring jobs with ease. Ideal when using attachments for routing, mortising, shaping, sanding, etc. Indispensable for tapping and precision drilling. Drill securely locks into cradle mounting—moves up, down or rotates on supporting column. Has professional rods and pinion gear feed with heavy duty clock spring return mechanism. Easy to read depth scale with threaded lock nut stop for repeated drilling to predetermined depth. Depth of throat 4". Sturdy 1" dia. column and heavy cast base with slots for bench mounting.

No. 37B347. Shpg. wt. 8 lbs. Each. **\$11.95**

PROFESSIONAL QUALITY!



ROTARY FILE SET

WITH $\frac{1}{4}$ " SHANK TO FIT ANY ELECTRIC DRILL, DRILL PRESS, FLEXIBLE SHAFT

Ideal for shaping, finishing, routing, deburring, in metal, wood, plastic, leather, rubber, etc. Milled from solid tool steel, hardened and tempered. Shpg. wt. $\frac{1}{2}$ lb. No. 16C694. Special, Set. **\$3.99**

\$3.99
Set of 5



TWIST DRILL AND TOOL SHARPENER

Fits any electric drill. Simple and easy to use. Accurately sharpens any drill bit up to $\frac{1}{2}$ " dia. Also sharpens chisels, carving tools, knives, scissors, etc. Includes 3" grinding wheel with $\frac{1}{4}$ " shank and guard, drill holder, adjustable tool rest. Shpg. wt. $1\frac{1}{2}$ lbs. No. 16C695. Net Each. **\$1.49**

\$1.49



HI-SPEED COPE-SAW DRILL-BIT

NOW HIGHEST QUALITY AT SENSATIONAL LOW PRICE

Works With Any Electric Drill

DRILL, SAW, REAM metal, wood, plastic, etc. Drills own starting hole—upper part of bit is used to cut, saw or ream circles, ovals, squares or scrolls. Easy to operate, ideal for carpenters, mechanics, electricians, radiomen, hobbyists, etc. Abrasive resistant, high speed steel. Withstands severe continuous use without breaking. $\frac{1}{4}$ " dia. Overall length $3\frac{1}{2}$ ".

ALL PURPOSE BIT for metal, wood, plastic, etc. No. 16A673. Net Each. **\$1.95**

WOOD BIT specifically designed for plywood, Beaver board, etc.—any type wood. No. 16A940. Net Each. **\$1.95**



HEAVY METAL BIT. For cutting heavy iron, steel, brass, aluminum, etc. No. 16A698. Net Each. **\$1.95**

MILLERS-FALLS HI-SPEED COUNTERSINK



① AUTOMATIC CENTER PUNCH For simple and accurate punch marking before drilling. Just push and automatic internal spring loaded mechanism does the rest. No. 16A666. Each. **\$3.45**

③ CAN'T-ROL CENTER PUNCH No. 16A366. Each. **45c**

Countersinks in metal, wood, plastic, etc., to admit heads of screws. Fine grade high-speed steel. $\frac{1}{4}$ " shank for use in electric drills. Lgth. $2\frac{1}{2}$ ". No. 16A909. Net Each. **\$1.43**

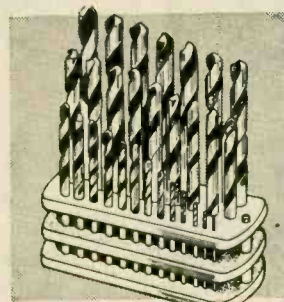
29-PIECE DRILL SET

FOR USE WITH ALL HIGH-SPEED ELECTRIC DRILLS

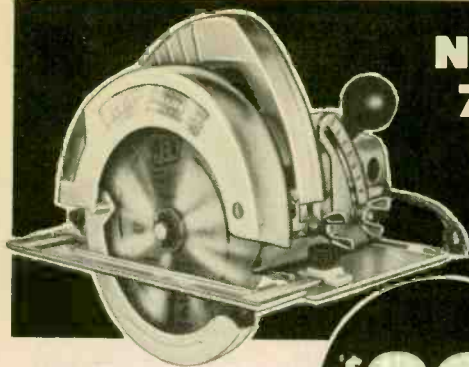
BIG IMPORT VALUE TO SAVE YOU \$\$\$

SIZES $\frac{1}{16}$ " TO $\frac{1}{2}$ " BY 64THS **\$6.95**

Complete set of the most often needed drill bits at an unbelievable low price! Precision ground of quality chrome vanadium steel for fast, accurate drilling in wood, plastic, metal, etc. Standard jobber lengths, straight shank type. In handy indexed metal stand. Quality import. No. 16A580. Shpg. wt. 2 lbs. Special Each. **\$6.95**



Portable Electric Drill, Saws, Sander, Grinder



NEW! WEN 7 1/4-INCH POWER SAW

**POWERFUL
2 1/2 HP
MOTOR**

\$39⁹⁵

Stallion
Model 1000

**SAFE,
POSITIVE
CONTROL
AT ANY
CUTTING
ANGLE**

**ALL FRICTION-LESS
BALL AND NEEDLE
BEARINGS**

Designed for heavy duty construction work . . . perfect for craftsmen or professional builders. Packed with built-in safety features that compare with saws costing \$100 or more. Cuts from 0 to 2 1/2" at 90°, 0 to 1 7/8" at 45°. Sawdust chute ejects chips, blower keeps cutting line clear. Safety clutch prevents kick-back. 12 amp motor develops 5300 RPM. Heavy duty precision gears. Ball-brite finish cast aluminum housing. With combination blade, rip guide, outboard shoe extension, blade wrench, 3-wire cord. 120 V. 60 cycle AC. Shpg. wt. 15 1/2 lbs.

\$39.95

3 Lots
Each

\$36.63

No. 37B30. Each
No. 16A760. Combination Blade. Each

\$1.99

WEN 4-SPEED 1/2-INCH "ALL-DRILL"

**REVERSIBLE
AT ALL
SPEEDS**

**DRILLS
THRU
1/2-IN.
STEEL**

\$32⁹⁷

NOTHING
DOWN

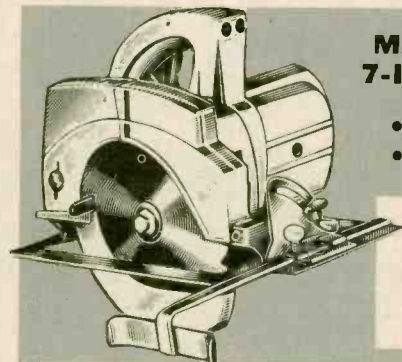
**BOTH GEAR SHIFT
AND ELECTRONIC
SPEED CONTROLS**

Provide the
proper
power
and
speed
for every
type material
you drill!

**SUPER HEAVY-DUTY
FULL 1/2-HP - 6 AMP
MOTOR - DOUBLE
REDUCTION GEARS,
BALL THRUST AND
NEEDLE BEARINGS**

Quick, easy two-level control of electronic and gear reduction speed ranges provides 630, 730, 2200, 2400 rpm no-load speeds. Just select the right combination of speed and torque to fit your particular job whether its routine drilling in soft wood or really tough drilling in steel or masonry where great power is required. All speeds are reversible at the flick of a switch, eases bit out under its own power. Perfectly balanced, built to industrial standards for continuous heavy-duty operation. Welded burnout-proof motor armature. Auxiliary top handle. Locking, instant-release trigger switch. Bright finish die-cast aluminum housing. 1/2" geared chuck with key. 11" H. x 8 1/2" W. x 3 1/2" D. Net wt. 6 1/2 lbs.

No. 36C249. Shpg. wt. 9 lbs. Model 950. Each. **\$32.97**



MANNING-BOWMAN 7-INCH POWER SAW

- RETRACTABLE BLADE GUARD.
- WITH COMBINATION BLADE.

CUTS 2x4 AT 45° ANGLE

\$19⁹⁵

Rugged, dependable 7" saw with powerful 1 1/4 H.P. motor glides through any material from wallboard to rough 2" lumber. Races through 2x4's even at 45° angle. Tailor fit handle and perfect balance combine to provide easiest handling. Built-in externally adjustable safety clutch ends common cause of motor burnout and blade kick back. Precision built 8 amp motor delivers 4900 RPM through helical drive gears. Heavy duty sole plate insures accurate cuts. Simple, positive fingertip adjustments for depth of cut and bevels 0° to 45°. Maximum depth of cut 2 1/8", maximum cut at 45°, 2 1/4".

Equipped with calibrated rip guide and 3-wire cord. Bright finish die cast aluminum housing. 115 V. 60 cycle AC. Shpg. wt. 13 lbs.

No. 37B270. Each **\$19.95**
No. 16A581. 7" Combination Blade. Each **\$2.29**

AMAZING WEN ZIP SAW

- Cuts all metals up to 1/2" steel.
- Cuts wood up to 6x6"
- Cuts at any angle-up, down or sideways.
- Makes its own starting hole for cut-outs.

B-A's LOW PRICE!

\$32⁹⁷

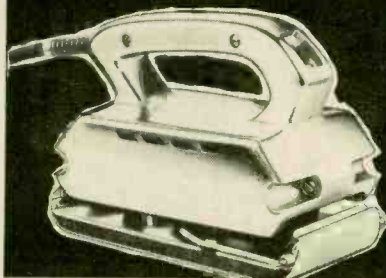


• Cuts Flush
to wall or
Floor

Performs hundreds of cutting jobs in "close" hard-to-reach areas quickly and effortlessly that no other type power saw can accomplish. Big 1/3 HP motor supplies tremendous power for the toughest jobs . . . breezes through 4x4's at 45° angle. Flush cuts to corners for wall, floor or ceiling cutouts—horizontally or vertically. Cuts complex scroll-work and fine patterns in masonite, wood, plastic, etc. Cuts all metals—aluminum, brass, steel—to 1/2" thick. Beautifully balanced and lightweight, has heavy duty roller and oilite bearings, heavy duty hardened gears. Cool running 115 V. AC motor delivers 3200 1" cutting strokes per minute. 4 1/4 amp. With 7 assorted blades, 3 wire cord. Size 9 x 7 1/4 x 7". Net wt. 6 1/2 lbs. Shpg. wt. 8 1/4 lbs. Model 920.

No. 37C18. **\$32.97** 3 Lots
Net Each **\$29.97** Each
Model 900. Set of 7 replacement blades. Wt. 1/2 lb.
No. 16A530. Net **\$2.50**

NEW! WEN SANDER POWERED WITH REVOLUTIONARY NEW TYPE ELECTROMAGNETIC MOTOR



**POWERFUL—QUIET
HIGHLY EFFICIENT
Straight Line Action
Quickly Sands to a
Smooth, Scratch-Free
Surface**

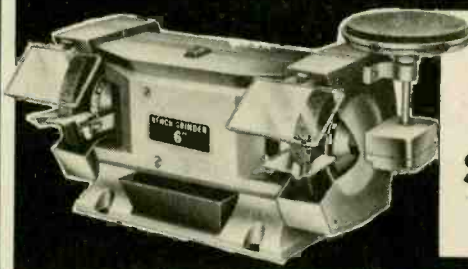
\$11²¹

Superior to any sander we've seen at this amazing low price! Revolutionary new motor design produces a positive straight line action with no whip or bounce . . . extremely powerful, cannot be overloaded. Supplies 7200 3/8" strokes per minute for rough or fine finish sanding. Runs smooth and stays cool even under continuous operation. No slip lever action sandpaper clamps. Uses 1/2 sheet standard 9x11" sandpaper. Ball brite finish die-cast aluminum housing. 110 V. 60 cycle AC. 6 foot 3-wire cord. Shpg. wt. 5 lbs.

No. 37B29. Model 310 **\$11.21** 3 Lots
Each **\$9.97** Each

202

MANNING BOWMAN HEAVY-DUTY GRINDER



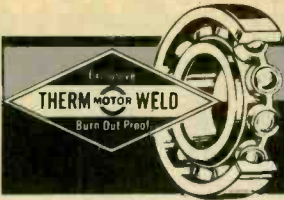
- Honer for sharpening knives, scissors, etc.
- 2 6-inch grinding wheels.
- Removable water tray.
- Powerful 8 amp motor.

\$29⁹⁵

Rugged, dependable . . . a real power house grinder designed to handle the toughest grinding jobs with ease. Ideal for home, farm, shop, service stations, etc. Special honing attachment revolves at 78 RPM, puts a razor-sharp edge on knives, tools, scissors, etc. Powerful 115 V. AC motor operates at 3450 RPM, has lifetime, self-lubricating bronze bearings. Adjustable tool rests with built-in drill sharpening guides. Shatter-proof, adjustable eye shields. Honer has 4 1/2" wheel. Die-cast aluminum housing with baked enamel finish. Drilled base for bench mounting. Size 15 1/4" W. x 8 1/4" H. x 8" D.

No. 37C88. Shpg. wt. 25 lbs. Each. **\$29.95**

Portable Electric Drills, Sander, Saw



THOR EXCEPTIONAL VALUE PORTABLE ELECTRIC DRILLS

**"THERMO-WELD" BURN-OUT PROTECTED MOTORS
ALL ARE INDUSTRIALLY RATED, CSA APPROVED
BALL-BEARING CONSTRUCTION**

NEW VARIABLE SPEED ELECTRIC DRILLS

Variable speed at your finger-tip for controlled drilling in steel, wood, plastic, etc. The harder you squeeze the trigger, the faster the drill will run . . . from 0 RPM to full speed.

1/4-INCH VARIABLE-SPEED

**GEARED CHUCK
WITH KEY**



Speed Continuously Variable From 0 to 2200 RPM

\$19⁹⁵

3/8-INCH VARIABLE SPEED

**3/8" Geared
Chuck With
Key**



Speed Continuously Variable From 0 to 900 RPM

\$27⁹⁵

1/2-INCH ELECTRIC DRILL HAS REMOVABLE TOP HANDLE



1/2-Inch Geared Chuck With Key

**POWERFUL
4 AMP BURN-OUT
PROTECTED
MOTOR**

**BALL
BEARING
CONSTRUCTION**

B-A's LOW PRICE **\$28⁹⁵**

Reversible Model **\$30⁹⁵**

Variable speed plus high quality throughout . . . tops in performance and handling ease. Powerful 2.5 amp burn-out protected motor and ball bearing construction lets you tackle many jobs that most 1/4-inch drills can't handle. Maximum speed 2200 RPM. Momentary contact switch with locking pin. Rugged die-cast housing with beige-tone finish. 6 ft. 3-wire cord. Overall length 8 1/4". 115 V. 60 cy. AC. Shpg. wt. 5 lbs.
No. 37C391. Each. **\$19.95**
STANDARD MODEL. As above, less variable speed feature.
No. 37A568. Each. **\$10.95**

An extremely reliable, extra powerful 3/8" drill featuring variable speed control for precise drilling in masonry, stone, steel, etc. Rugged 3 amp burn-out protected motor delivers up to 900 RPM through double reduction precision hobbled gears. Momentary contact switch—locking pin for continuous operation. Durable die-cast housing with beige-tone finish. 6 ft. 3-wire cord. Overall length 8 1/2". 115 V. 60 cy. AC. No. 37C392. Shp. wt. 5 1/2 lbs. **\$27.95**
Each. **\$18.79**
STANDARD MODEL. As above, less variable speed feature.
No. 37A567. Each. **\$18.79**

Outstanding professional features and performance make this super powerful 1/2-inch drill the perfect choice for any job in the home, around the shop or on the farm. All steel precision hobbled gears. No load speed 650 RPM. Trigger switch with locking pin for continuous operation. Die-cast housing with metallic beige-tone finish. 6 ft. 3-wire cord. Overall length 14 1/2". 115 V. AC-DC. Shpg. wt. 9 lbs. No. 37A565. Each. **\$28.95**
REVERSIBLE 1/2-IN. DRILL. As above with reversing action—eases bit out under its own power.
No. 37A566. Each. **\$30.95**

THOR ORBITAL SANDER

POSITIVE ORBITAL ACTION SANDS TO A SMOOTH FINISH WITH JUST A FEW "PASSES" OVER WORK

- Quiet running 1.8 amp. burn-out protected motor.
- Ball bearing construction.
- Lightweight, easy to handle.

\$12⁹⁵

Quickly sands to a smooth finish—allows sanding with or across the grain. Ideal for rough or fine sanding, polishing, removing old paint or varnish. Ball bearing on sander drive plate assures long life, trouble-free service even under continuous heavy duty operation. Burn-out protected motor delivers 3450 O.P.M. with 1/8" orbital stroke. Large 4 1/2 x 5 1/8" sanding area. Push-button switch. Die-cast housing with metallic beige-tone finish. 6 ft. 3-wire cord. 115 V. 60 cy. AC. Shpg. wt. 5 lbs. **\$12.95**
No. 37A563. Each.



THOR JIG SAW

BALL BEARING CONSTRUCTION

Powerful burn-out protected 3 amp motor—cuts through 2x4's at 90° angle.

Fast, easy cutting in wood, metal, plastic . . . even 2" lumber! Rips, scrolls, cross-cuts, makes intricate patterns a cinch. Makes its own starting hole. Bevels 45° either side by adjusting tilting base. Produces 3000 5/8-inch cutting strokes per minute. Metallic beige-tone finished die-cast housing. With easy-grip top handle, rip guide, 3 assorted blades. 6 ft. 3-wire cord. 115 V 60 cy. AC. Shpg. wt. 4 lbs. **\$17.95**
No. 37A564. EACH.

16B103—Fine Wood Cutting Blade..39c
16B703—Coarse Wood Cut. Bld.....39c
16B104—Metal Cutting Blade.....42c



FABULOUS NEW VARIABLE SPEED ELECTRIC DRILLS!

BY MANNING-BOWMAN DIV. OF McGRAW EDISON

THE EXACT SPEED FOR EVERY DRILLING JOB . . . WOOD, PLASTIC, METAL, MASONRY! NO BOUNCE OR DANCE EVEN ON CURVED OR IRREGULAR SURFACES

Exact speed needed for every conceivable drilling job from delicate, precision work to drilling in plastic, masonry, wood and metal simply by varying finger pressure on trigger! The more pressure applied the faster the speed. Center punching in hard materials no longer necessary . . . just start drilling at slow speed until hole is started, then breeze on through at speed desired. Incredible control with no bounce or dancing. Ideal for use as an electric screwdriver (driver bits available at most hardware stores).

1/4-IN. VARIABLE SPEED DRILL. Speed continuously variable from 0 to 2000 RPM. Full 3 amp motor, precision ground ball-thrust and self-lubricating bronze bearings. Switch has push-button lock for continuous full speed operation. Bright finish die-cast aluminum housing as pictured at right except without side handle. Geared chuck with key. 3-wire cord. Overall length 8". 115 V. 60 cy. AC. Shpg. wt. 4 lbs. **\$14.95**
No. 37A561. Each.

3/8-IN. VARIABLE SPEED DRILL. Has the extra power and capacity for heavy duty drilling in masonry, stone, etc. Speed continuously variable from 0 to 1000 RPM. Full 3 amp motor, precision ground ball thrust bearing, oiled-for-life bronze bearings. Double gear reduction. Locking pin on switch for continuous full speed operation. Bright finish die-cast aluminum housing with removable side handle. Geared chuck with key. 3-wire cord. Overall length 8". 115 V. 60 cy. AC. Shpg. wt. 4 1/2 lbs. **\$16.95**
No. 37A562. Each.

1/4-IN. MODEL

\$14⁹⁵

3/8-IN. MODEL

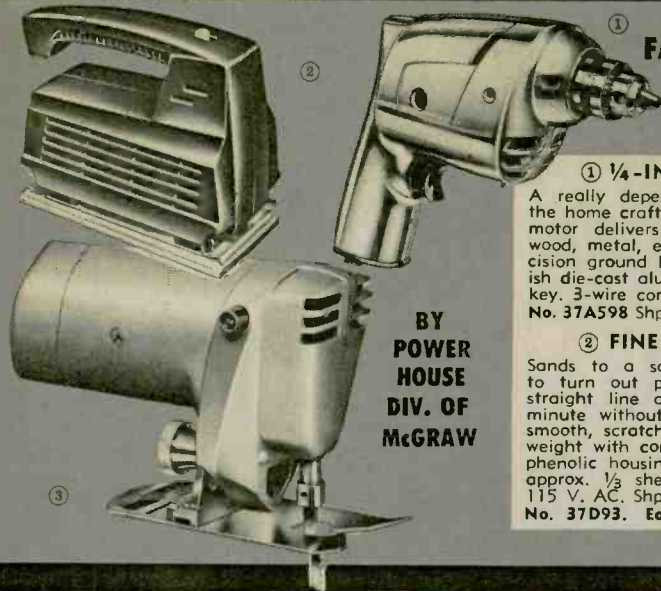
\$16⁹⁵

REGULATE SPEED FROM 0 RPM TO FULL SPEED WITH YOUR TRIGGER FINGER



FULL TORQUE AT ALL SPEEDS—NO LOSS IN POWER

WE HAVE SHOPPED AMERICA TO BRING YOU THESE OUTSTANDING POWER TOOL VALUES!



FABULOUS BUYS ON THESE MOST OFTEN NEEDED POWER TOOLS FOR HOME AND SHOP

YOUR CHOICE ONLY...

\$888 EACH

BY POWER HOUSE DIV. OF McGRAW

① 1/4-INCH ELECTRIC DRILL

A really dependable all-around utility drill for the home craftsman and hobbyist. Husky 2.6 amp motor delivers plenty of power for drilling in wood, metal, etc. 2000 RPM no load speed. Precision ground ball-thrust bearings. Bright finish die-cast aluminum housing. Geared chuck with key. 3-wire cord. 115 V. AC. No. 37A598 Shpg. wt. 4 lbs. Each... **\$8.88**

② FINE FINISHING SANDER

Sands to a satin-smooth finish—allows anyone to turn out professional quality work. Positive straight line action delivers 14,400 strokes per minute without whip or bounce... assures a smooth, scratch-free surface on every job. Lightweight with comfortable easy grip handle. Sturdy phenolic housing. 3x6" sponge sanding pad uses approx. 1/3 sheet standard 9x11" paper. 2 amp. 115 V. AC. Shpg. wt. 5 1/2 lbs. No. 37D93. Each... **\$8.88**

③ SABRE SAW

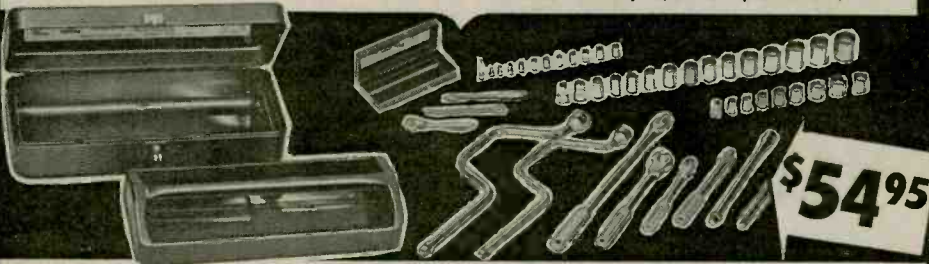
Powerful, fast cutting in any material from wood to steel. Accurately scrolls, cross-cuts, rips, notches—makes its own starting hole for inside cuts. An indispensable tool for numerous shop projects and home maintenance. Lightweight, well balanced for easiest handling. Adjustable base tilts to 45° either side. Air stream keeps line of cut free of sawdust. Full 3 amp motor delivers 3000 cutting strokes per minute. Oiled-for-life bronze bearings. Convenient push-button switch. Enameled finish die-cast aluminum housing. 3-wire cord. With 3 assorted blades. 115 V. AC. No. 37C87. Shpg. wt. 5 lbs. Each... **\$8.88**

EXTRA BLADES FOR SABRE SAW

No. 16C586—Fine Wood Cutting Blade. Ea... **38c**
No. 16C587—Coarse Wood Cutting Blade. Ea... **38c**
No. 16C592—Metal Cutting Blade. Each... **45c**

INDESTRO PROFESSIONAL QUALITY SOCKET WRENCH SETS!

- Heat-treated, tempered select steel.
- American made by a leading manufacturer of quality mechanics tools.
- All pieces chrome plated and polished.
- Guaranteed against defects in material, workmanship (factory repair or replacement).



\$54.95

DELUXE 54-PIECE COMBINATION 1/2", 3/8", 1/4" DRIVE SOCKET SET

Contains a complete range of sockets and fittings for the home mechanic or professional. Every piece is precision made of selected steel... extra strong sockets are hot broached to provide smooth, thin walls of uniform thickness and accurate centered teeth. A really professional quality socket set not to be confused with promotionally priced kits offering lots of pieces of inferior quality tools.

Set contains: 16 pc. 1/4" drive set with eight 6-pt. sockets (3/8" to 1 1/8"), three 8-pt. sockets (1/4" to 3/8"), 2" extension, 6" extension, 6" swing head

handle, reversible ratchet, metal storage box; 16-pc. 3/8" drive set with one 6-pt. socket (3/8"), eight 12-pt. sockets (1 1/8" to 1 7/8"), 2 5/8" extension, 5" extension, 10" extension, 8 1/4" swing head handle, 16" speeder, universal joint, reversible ratchet; 21-pc. 1/2" drive set with fifteen 12-pt. sockets (1 1/8" to 1 1/4"), 15" swing head handle, 5" extension, 10" extension, 17 1/2" speeder, universal joint, reversible ratchet. Supplied in heavy gauge metal tool chest with handy tote tray. Size 19" x 7 1/2" x 6 1/2". No. 37A597. Shpg. wt. 21 lbs. Each... **\$54.95**



MANNING BOWMAN 7 1/4-IN. POWER SAW

\$24.95

Retractable Blade Guard

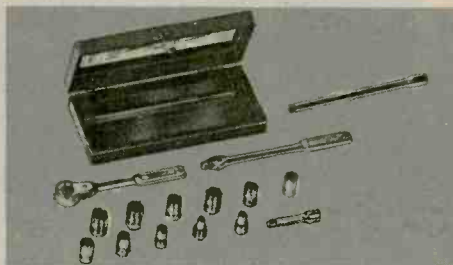
COMPLETE WITH \$8.95 VALUE TABLE SAW

Attach in just seconds. 244 sq. in. work area, adjustable rip guide and mitre gauge.

Power packed, fully dependable... glides through any material from wallboard to 2" rough lumber, even 2 x 4's at 45° angle. Built-in safety clutch. Precision built 8 amp motor delivers 4,900 RPM through oversize helical reduction gears. Lifetime lubricating bronze bearings. Positive fingertip adjustments for depth of cut and bevels 0° to 45°. Maximum depth of cut 2 3/8", maximum cut at 45°, 2 3/8". With calibrated rip fence, crosscut blade, 3-wire cord. Bright finish die-cast aluminum housing. 115 V. 60 cycle AC. Shpg. wt., saw and table 21 lbs.

No. 37A586. Special, Saw & Table... **\$24.95**
No. 16B585. 7 1/4" Combination Blade. Each... **\$1.99**

FOR RUGGED JOBS SELECT YOUR DRIVE SOCKET SET FROM B-A!



16 PIECE 1/4-INCH DRIVE SOCKET SET

Versatile set ideal for repair and adjustment of ignition systems, carburetors, etc. Extremely handy for repairing radios, TV's, home appliances. Includes: eight 6-pt. sockets (3/8" to 1 1/8"), three 8-pt. sockets (1/4" to 3/8"), 2" extension, 6" extension, 6" swing head handle, reversible ratchet. In compartmented metal box. Size 6 7/8 x 3 x 1 1/4". No. 37A596. Shpg. wt. 2 lbs. Each... **\$9.95**



15 PIECE 1/2-INCH DRIVE SOCKET SET

The most popular size sockets for automotive, aircraft, industrials... accomplishes 100's of jobs in the shop and on the farm. Consists of: twelve 12-pt. sockets (1 1/8" to 1 1/4"), 15" swing-head handle, reversible ratchet, all in sturdy compartmented metal chest. Shpg. wt. 8 lbs. No. 37A594. Each... **\$21.95**

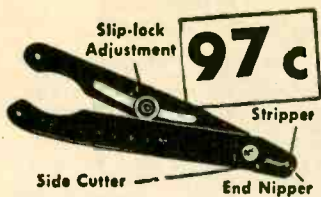


16 PIECE 3/8-INCH DRIVE SOCKET SET

Perfect for mechanical and electrical work in the home, shop, garage. Includes: one 3/8" 6-pt. socket, eight 12-pt. sockets (1 1/8" to 1 7/8"), 5" extension, 10" extension, 8 1/4" swing head handle, 16" speeder, universal joint, reversible ratchet. Supplied in handy compartmented metal box. Size 17 x 5 1/2 x 1 1/4". Shpg. wt. 6 lbs. No. 37A595. Each... **\$19.95**

Unusual Tool Values!

HANDY POCKET ADJUSTABLE WIRE STRIPPER



97c

THREE-TOOLS-IN-ONE
Handiest little wire stripper we've seen. Small enough to fit in the shirt pocket, yet will accomplish those usually nasty wire stripping and cutting jobs with shearing ease. Fully adjustable for stripping solid or stranded wire from No. 6 to smallest. Calibration on handle assures proper adjustment. Hardened and ground steel blades.
No. 16B526. Net Each..... **97c**

6 1/2 INCH LONG NOSE PLIERS



99c

With side cutters. Quality, German Craftsman made. Polished head, milled jaws.
No. 16A994. Net Each..... **99c**

WIRE BENDING JIG



99c

Bends and shapes wire for making racks, novelties, tools, monograms—dozens of useful, decorative articles. Forms wire sizes up to 1/4" diameter steel. Complete with jig, steel bending pins, instructions and project diagrams. Shpg. wt. 1/2 lb.
No. 11C291. Special Each..... **99c**

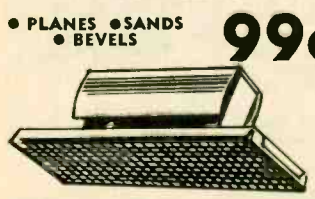
ROUTER DRILL



99c

SAWS, DRILLS, ROUTS, FILES
Fits every electric drill. Makes its own starting hole—cuts any shape or direction in wood, metal, plastic, etc. High speed steel, top quality.
No. 16B963. Special Each..... **99c**

PLANE-RASP



99c

Cuts wood, plastic, wallboard, rubber and soft metal. 5" long flat bottom surface has tough special purpose steel cutting teeth. Never clogs, never needs sharpening.
No. 11B481. EACH..... **99c**

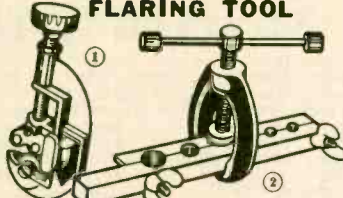
5-INCH DIAGONAL PLIERS



99c

Quality German made side-cutters. Drop forged, tempered and hardened. Polished heads.
No. 16A995. Net Each..... **99c**

TUBING CUTTER & FLARING TOOL



① Tubing Cutter
Always needed tool for cutting copper, brass, aluminum and other rigid tubing up to 1" dia. Ideal for refrigeration work, light plumbing, heating, etc. Equipped with hardened steel rollers and handy slide-lock reamer. Quality import. Shpg. wt. 1 lb.
No. 11A287. Net Each..... **99c**

② Flaring Tool
Quickly and easily flares copper, brass, and aluminum tubing for attaching fittings. Has six flaring discs from 1/8" to 5/8". Yoke has swivel cone and slide bar handle. Quality import. Shpg. wt. 1 1/2 lbs.
No. 11A288. Net Each..... **\$1.89**

COMPLETE SET, Tubing Cutter and Flaring Tool
No. 11A289. Special, Set..... **\$2.25**

5.0 POWER EYE LOUPES

JEWELERS TYPE WONDERFUL FOR ANY MINIATURE WORK
Provides necessary magnification to aid in inspecting and repairing miniature parts and equipment. Carefully ground and polished optical glass lens of fine quality.
No. 16B242. Net Each..... **75c**

ADJUSTABLE HANDLE FOR FILES, REAMERS ETC.

Self-equalizing parallel jaws provide positive vise-like grip on long handle tools such as hack saw blades, files, reamers, etc. Hardwood handle. All other parts steel. Size 4 1/2"
No. 11B80. EACH..... **91c**

ELECTRONIC DRAFTING TEMPLATES



Extremely useful, exceptionally accurate transparent templates contain the latest revisions in electronic symbols for precise schematic drawings.

① COMPLETE ELECTRONICS TEMPLATE
Contains symbols for chassis connection, capacitors, resistors, switches, crystals, relays, connectors, fuses, ground, batteries, rectifiers, tubes, antennas, transformers, transistors, lamps, meters, plugs, receptacles etc. Size 9 1/2 x 5 1/2". No. 29B119. **\$2.95**

② UNIVERSAL TEMPLATE
Contains circles, rectangles, hexagons, and various electronic symbols. Shows degrees 0 to 90, has 5" side rule. Size 7 3/8 x 5 1/8". No. 29B120. Each..... **\$2.95**

③ POCKET-SIZE ELECTRONICS TEMPLATE
Contains symbols for tubes, capacitors, batteries, relays, headphones, rectifiers, transistors, etc. Size 8 x 3". No. 29B121. Each..... **\$1.75**

AUTOMATIC SIPHON PUMP

Permits transferring of liquids from one container to another. Ideal for pumping gasoline from auto to lawn mower, can, or another auto. 2 double acting check valves give smooth pumping action. Made of tough, durable non-sparking polyethylene plastic. 6 ft. overall length. Quality import. Shpg. wt. 1/2 lb.
No. 11A963. Special Each..... **99c**



X-ACTO SOLDER AID KIT

All the tools needed for fast, efficient soldering! Just select the proper aid for the job and insert in chuck on either end of wooden handle—knurled nuts hold tools securely. Supplied in handy compartmented plastic carrying case. Includes five blades: knife and scraper, forked blade, angled tip, straight probe tip and steel brush. Made of high quality aluminum and steel. Shpg. wt. 1/2 lb.
No. 16A853. Each..... **\$1.98**



SIX PIECE SET \$1.98

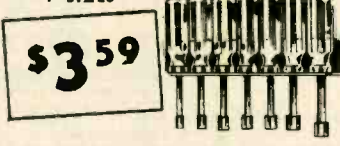
Miniature Screwdriver Kit



LOWEST PRICE EVER \$1.29

6 most needed sizes from 1/8" blade to 3/16". Finest import quality, all solid brass chrome plated handles, swivel tops. Plastic separator type case. Shpg. wt. 8 ozs.
No. 17A430. Each..... **\$1.29**

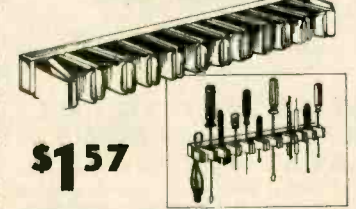
NUT DRIVER SET



7 SIZES \$3.59

Top quality sockets, sizes 1/8", 1/4", 3/8", 1/2", 5/8", 3/4" and 1" with easy-grip shockproof amber plastic handles. In enameled steel wall bracket. Shpg. wt. 1 lb.
No. 16B897. Per Set..... **\$3.59**

TOOL KADDY



Holds tools of any shape and size, Ideal for the TV service shop, garage, home workshop, etc. All metal, easily mounts on wall or workbench. Shpg. wt. 1/2 lb.
No. 16A951. Each..... **\$1.57**

STUD FINDER



FINDS CENTER OF ANY STUD OR BEAM \$99c

Ideal for hanging pictures, mirrors, cabinets, etc. Simple and easy to use. Eliminates after-installation patch work so often necessary when studs are missed when nailing or drilling. Shpg. wt. 1/2 lb.
No. 16A899. Each..... **99c**

SAFETY EYE GUARD



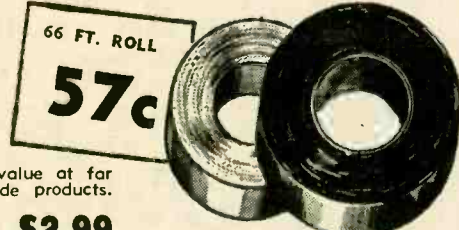
Protects eyes from flying particles, dust, sprays
Provides protection to eyes when sanding, sawing, grinding, spraying, etc. Lightweight, non-fogging clear plastic guard has ventilated sides. Fits over regular eye glasses. Shpg. wt. 1/2 lb.
No. 16A895. Each..... **99c**

AUTOMATIC RATCHET SCREWDRIVER



Has three ratchet positions: left, right, and rigid. Red plastic shockproof handle. Nickel plated body. Complete with regular 1/4" slotted and #2 Phillips bits. Overall length 10". Shpg. wt. 1 lb. Quality import.
No. 16A894. Each..... **\$1.99**

SAVE! 3/4-IN. WIDE PLASTIC ELECTRICAL TAPE



66 FT. ROLL \$57c

Highest quality import value at far less than American made products. Specify Red or Black.
No. 17B495. 66 Ft. Roll... **\$2.99**

Automotive Testers & Accessories

POWER CONVERTER

**NEVER BEFORE
AT THIS
LOW PRICE**

\$29⁹⁵

Complete,
Ready-to-Use

**HEAVY-DUTY
TRANSISTORIZED
12 VOLTS DC TO
117 VOLTS AC**

**117 VOLT
CONVERTER FOR
OPERATING . . .**

- Recorders
- Record Players
- Radios and TV
- Electric Shavers
- Many Others

**IN CAR OR BOAT
WITH POWER TO SPARE**



**PLUGS
INTO
CIGAR
LIGHTER**

Highly efficient, fully transistorized. Plugs into cigarette lighter receptacle, supplies 117 volts AC power at 125 watts continuous duty (up to 150 watts intermittent), from 12 volt battery. Will operate any equipment requiring 10 to 125 watts including dictating machines, transceivers, small motors, test instruments, soldering irons and lights. Small size, mounts instantly under dash or in glove compartment. Wt. 5 lbs.

No. 29B53. Each **\$29.95**

**TRANSISTORIZED
6-AMP
BATTERY CHARGER**
FOR 6, 8
OR 12 VOLT
BATTERIES

\$19⁹⁵

5-YEAR GUARANTEE

Just return to factory for repair
(Include only \$1.00 for handling)

- Charges at full 6 ampere rate.
- Ammeter shows charging rate and condition of battery.
- Completely safe — has built-in automatic reset circuit breaker.
- Taper type charge, automatically reduces charging rate as battery reaches full charge.



Highly efficient, economical two transistor design which insures long life and dependable service. Has ammeter to show charging rate and battery condition (low, medium and full charge). Selector switch for 6, 8 or 12 volts. 6 ft. AC cord and 6 ft. leads with battery clamps. Has automatic reset circuit breaker. Aluminum case size 3 1/2 x 4 1/2 x 5 inches. Wt. 6 lbs. Operates on 115-120 volt AC.

No. 35B267. Model BC2. Ready to Use. **\$19.95**



**SURE-FIRE COLD ENGINE
STARTS WITH FAMOUS
SCHAUER KAR-START**

Model A8478. Applies 5 times the normal amount of spark to the plugs at the instant of starting. Automatically disconnects when engine is running, will not damage plugs or distributor.

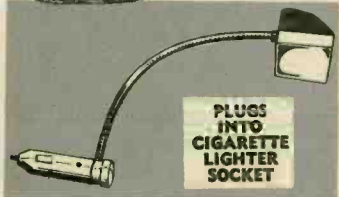
Only three connections to make. For either 6 or 12 volt ignition systems. Size 3 1/2 x 2 1/2 x 2". Wt. 6 ozs.

No. 29B368. Net Each **\$5.95**

AUTO-FLEX MAP LITE

Produces a soft white light for map reading, finding lost articles, etc. Opaque white lens softens light, won't hamper driver's vision. Seven inch chrome gooseneck allows firm placement in almost any position. Convenient off-on switch. Operates on 12 volt auto systems. Supplied with 15 watt lamp. Shpg. wt. 1/2 lb. Quality import.

No. 29A464. Each **\$2.95**



**PLUGS
INTO
CIGARETTE
LIGHTER
SOCKET**

EMERGENCY WARNING LIGHT

Bright flashing red signal is visible for several hundred yards. Fastens any place on car by large 3" rubber suction cup, works in any position. 2 1/2" dia. x 2 1/4" high red dome. On-off switch. Operates on 2 "D" flashlight cells (not included).

No. 29A465. Shpg. wt. 1 lb. Quality import. Each **\$2.49**
No. 21A1. "D" Flashlight Cell. Each **14c**



INDIVIDUAL AUTOMOTIVE TESTERS

**MODEL 9
POWER TIMING LIGHT**



ONLY

\$15⁹⁵

Delivers brilliant white light, powered from 110 AC outlet. Permits perfect alignment of timing mark and pointer. No vibrator or moving parts to wear out. Works on all 6-12 or 24 volt system.

Handsome plastic case, pistol grip design with trigger switch.

No. 29A438. **\$15.95**
Net Each

① COMPRESSION TESTER

Testing for compression is considered the first step in engine tune-up. Model 5 pin-points trouble in valves, pistons, rings, gaskets and cylinders. Reads up to 300 lbs. pressure on dial marked to show correct operating range for engine.

The instructions serve as a guide to proper testing procedure. 2 1/2" meter dial is easy to read. Has off-set stem to reach hard to service rear cylinders. Universal rubber cone fits into spark plug hole. 6 1/2" overall. Wt. 1 lb.

No. 29A413. Model 5. **\$2.95**
Complete.

**② MOTOR GUIDE-VACUUM
FUEL PUMP TESTER**

Tests the engine fuel pump and vacuum system. A must for proper carburetor idle adjustment. The vacuum test determines condition of valves, valve springs, shows a choked muffler or leaky manifold. Also tests pressure and suction of fuel pump and all other vacuum operated devices on the car. 2 1/2" dial has four color zones for easy reading. Reads 0-30 vacuum and 0-7 lb. pressure. Furnished with bracket for dash mounting if desired.

Complete with illustrated instructions. Wt. 1 lb. No. 29A415. Model 47. **\$2.95**
Each

③ IGNITION TIMING LIGHT

A quick accurate method for testing and adjusting 6, 12, or 24 volt ignition systems. Uses stroboscopic principle of light which "stops" timing, determine condition of ignition system, timing mark while engine runs. Use to adjust synchronize double points, test action of automatic spark advance, discover worn distributor shaft and many other troubles. Consists of special prefocused neon light, mounted in rugged plastic case with 3 ft. leads and insulated connectors. Complete with instructions.

No. 29A414. Wt. 1 lb. **\$2.95**
Model 3. Each

④ REMOTE STARTER SWITCH

ELIMINATES NEED OF SECOND MAN WHEN TURNING ENGINE

Consists of a heavy duty starter type push button switch, and extra long leads with insulated connecting clips. Wt. 1/2 lb. Complete with instructions.

No. 29A412. Model 4. **\$1.98**
Each



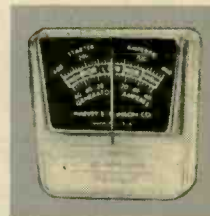
\$2⁹⁵



**CLAMP-ON STARTER-GENERATOR
CURRENT INDICATOR**
NEWLY STYLED TESTER WITH
BUILT-ON CLAMP CONNECTOR

Simple to use, no need to disconnect wires. You get accurate ampere readings by simply clamping meter over the cable. Color coded scale reads 400-0-400 amps for starters, 60-0-60 amperes for generators. Rugged plastic case. Complete with instructions for its use.

No. 29A449. Wt. 1/2 lb. **\$2.95**
Model 61. Net Each



4-WAY EMERGENCY BLINKER SWITCH

Flashes both front parking lights and both tail lights simultaneously. No need for flares or flashlight when car is stalled or parked at roadside. Warns on-coming motorists of your position. Off-on slide switch, red indicator light mounted on 1 3/4 x 2 1/4" aluminum panel. With wire and instructions. Quality import. **\$1.99**

No. 29A463. Each



DAYLIGHT AUTO SAFETY RUNNING LIGHTS

Required in Some States as an Outstanding Safety Addition for Any Automobile

Mounts at front of car. Automatically turns on and off with the ignition switch, alerting motorists and pedestrians. Provides proven safety advantages for daylight, dusk and night driving. Smartly designed with high impact shatterproof lens and 21CP 12 V. lamp. With 8 ft. connecting lead and mtg. hardware. 2 3/4" diameter. Wt. 4 oz.

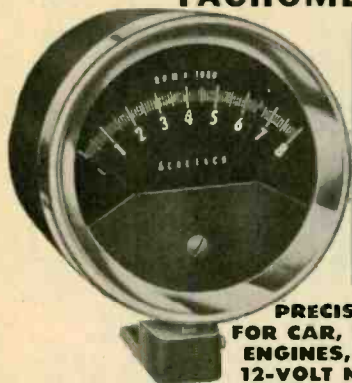
No. 29A446. Each **\$1.95**



\$1⁹⁵

Automotive Testers And Ignition Systems

Acrotach TRANSISTORIZED TACHOMETER



EASY TO
READ 3 1/2"
DIA. DIAL

\$19⁹⁵

**PRECISION TACHOMETER
FOR CAR, TRUCK OR MARINE
ENGINES, 6 OR 8 CYLINDER
12-VOLT NEGATIVE GROUND**

- Works with conventional and transistor ignition systems. Does not affect their performance.
- Handsome styling—precision built.
- Illuminated dial. • Universal mounting.
- Adjustable set-pointer. • Zener stabilized.
- Completely self-contained.

Accurately indicates engine speed, reads 0 to 8,000 RPM. Reference pointer can be set for correct shifting speed, safe RPM or best gas mileage point.

Simple to install, complete with all necessary mounting hardware. Mounts above or below dash, on steering column, in panel or control console. Swivel base permits adjusting to correct viewing angle. 3 1/2" dia. x 2 3/4" deep. Wt. 2 1/2 lbs. Complete with simple installation instructions and connecting cable

No. 35B311. Each

\$19.95

Keep your car tuned to peak performance
and maximum gasoline mileage
SAVE MONEY!

DWELL TACHOMETER

**THE MOST
COMPLETE UNIT
EVER OFFERED
AT THIS
LOW PRICE**

\$29⁹⁵

**TUNE UP ELECTRONICALLY ANY MAKE CAR
4, 6 OR 8 CYLINDER—6 OR 12 VOLT**

- Accurate Instrument Co. Model BT162 complete with everything, ready-to-use.



- Giant 6 1/2" meter for accurate readings. Easily seen from any position while making engine adjustments.
- Three Dwell angle ranges 0-45, 0-60 and 0-90°. Covers all requirements of any 4-6 or 8 cylinder cars of foreign or domestic make.
- Dual Tachometer ranges, 0 to 1000 and 0-5000 RPM. Provides engine speed indication needed for carburetor, automatic transmission and other adjustments requiring accurate engine speed indications.

Latest design, incorporating modern circuitry with huge meter. Completely self contained. Requires no outside battery connection. Simple to operate, has only three switches, plainly marked for selecting type of test, with insulated clip type connecting leads.

High impact molded case with unbreakable plastic meter face. Size 7x7 1/2x5". Wt. 3 lbs.

35A463. Model BT162. Net Ea. . . . **\$29.95**

ACROFIRE DUAL TRANSISTOR IGNITION SYSTEM

FOR: • TRUCKS • BOATS • CARS
• FARM AND INDUSTRIAL ENGINES



ONLY
\$29⁹⁵

COMPLETE
SYSTEM



Heavy duty two transistor model for peak performance. Use on all 12 volt engines with negative ground.

Improves engine performance—reduces down time—easy cold weather starts—smoother performance at all engine speeds.

Acrofire 900. Has heavy duty primary relay which connects Acrofire to car battery, no need to rewire or alter original ignition switch circuit. This eliminates the most difficult part of installing many transistor ignition systems. Has plug and receptacle connections for quick change-over to conventional system. Tune-up can be done on conventional system with available test equipment and then switched over. Also provides the safety of two ignition systems. Acrofire system includes the ignition coil, all wiring, relay, brackets, etc. Instructions and diagrams outline simple installation procedure anyone can follow. Shpg. wt. 5 lbs.

No. 35B99. Net Each

\$29.95

NEW DELTA MARK TEN TRANSISTORIZED IGNITION SYSTEM

\$39⁹⁵

- INCREASES ACCELERATION AND GENERAL PERFORMANCE.
- UP TO 20% INCREASE IN GASOLINE MILEAGE.
- SPARK PLUGS LAST 3 TO 10 TIMES LONGER.
- ELIMINATES IGNITION TUNE-UPS.
- INSTANT STARTS IN ALL WEATHER.
- INSTALLS IN ONLY 10 MINUTES IN CAR, BOAT OR TRUCK.



**OPERATE
CAR,
BOAT,
TRUCK
MORE
EFFICIENTLY**

FOR ALL 12 VOLT NEGATIVE GROUND ENGINES

Incorporates the acknowledged advantages of capacitive discharge with those of solid state electronics. More complete combustion process gives you greater mileage while actually keeping your engine cleaner. Even though the Mark Ten generates 3 to 4 times more energy, your spark plugs last 3 to 10 times longer. Not affected by extremes of temperature, altitude, or humidity. Extremely adaptable to competition cars and boats. Input current—1-5 amps depending on engine RPM. Output voltage—400 volt discharge pulse. Installs in less than 10 minutes directly to a standard ignition system with no rewiring, removing, or addition of parts. Shpg. wt. 4 lbs.

No. 29A462. Each

\$39.95

RADATRON AUTO GAUGES



Replace Indicator lights with precision gauges for amps, oil pressure and water temperature. Beautiful chrome under dash die cast mountings. Each kit complete with all necessary fittings and connectors.

(1) **Trio Set Model 5043.** Illuminated. Consists of 0-80 lb. oil pressure gauge, 60-0-60 ammeter and water temperature gauge 100 to 250° F., die cast chrome panel plus all connectors and fittings for installation. **\$14.95**
No. 29B370. Complete Trio Kit Model 5043

(2) **Dual Model 4053.** Illuminated. Popular dual set consisting of 0-80 lb. oil pressure gauge, 60-0-60 ammeter, die cast chrome panel and all connectors and fittings required for installation. **\$6.95**
No. 29B372. Complete Dual Kit Model 4053

(3) **Single Units — Illuminated**

Water Temperature Gauge. Electric 150 to 250° F. With Mounting. **\$8.95**
No. 29B373. Model 2353 Complete Kit

Oil Pressure Gauge. 0-80 lb. With mounting. **\$4.90**
No. 29B376. Model 2153 Complete Kit

Ammeter Gauge. 60-0-60. With Mounting. **\$4.56**
No. 29B382. Model 2253 Complete Kit

SUPER ACTROTACH TACHOMETER

One-Piece
Transistorized

\$27⁹⁵

For 6 or 12 Volt,
Positive or
Negative Ground



• BEAUTIFUL
• ACCURATE • STABLE

250° wide sweep scale. Beautiful all chrome case, 3 color dial and Da-Gio orange needle and pointer. Indirect illumination. One-piece universal mounting. Adjustable set pointer.

Transistorized circuit. Works on any 6 or 12 volt system, 6 or 8 cylinder, positive or negative ground. Zener stabilized. Magnetic shielded. Calibrated accuracy to 99% unaffected by metal dash or steering column. Size 3 3/8" diameter, 3" deep. Wt. 3 lbs.

No. 35C98. Net Each

\$27.95

Panel Meters

SIMPSON PANEL METERS



① **3 INCH RECTANGULAR MODELS 27, 57, 37, 47.** Bright finished black bakelite case, 3" wide, 3 1/8" high. Mounts flush to panel in round 2 3/4" hole. Accuracy within 2%. Scale length 2 1/8". DC meters use modified D'Arsonval movement. AC are ironvane type.

② **MODERN "WIDE-VUE" 3 1/2" METER MODELS 1327, 1357** with 3.14" scale length. Has one piece molded wrap around cover of highest quality clear plastic, case color durable black. Will add beauty and modern styling wherever used. All DC movements are self shielded core magnet movement eliminating calibration problems in metal panels or in magnetic fields. *0-25 and 50 microammeters excepted. AC meters are moving vane type. Mounts in 2 3/4" hole.

③ **4 1/2" RECTANGULAR MODEL 29 and 59.** Large, accurate, open face instruments with long easy-to-read scales. Black bakelite base, 4 1/2" W, 4 1/2" H. Mounts in round hole. Body diameter 2 3/4". Scale length 3 3/8". Calibrated ±2%. Average shpg. wt. 1 lb.

QUANTITY PRICES: 10 to 24 deduct 10% from "Each" price; 25 up deduct 15% from "Each" price.

DC MILLIAMMETER

Range MA	Model No.	Stock No.	Net Each	Model No.	Stock No.	Net Each	Model No.	Stock No.	Net Each
0-1	27	29A1288	\$14.10	1327	29A1025	\$14.85	29	29A1333	\$15.45
0-5	27	29A1289	14.10	1327	29A1026	14.85			
0-10	27	29A1326	14.10	1327	29A1027	14.85	29	29A1334	15.45
0-15	27	29A1327	14.10	1327	29A1041	14.85			
0-50	27	29A1328	14.70	1327	29A1029	15.30	29	29A1102	16.35
0-100	27	29A1291	14.70	1327	29A1030	15.30			
0-150	27	29A1329	14.70	1327	29A1031	15.30			
0-300	27	29A1293	14.70	1327	29A1034	15.30			
0-500	27	29A1294	14.70	1327	29A1035	15.30	29	29A1337	16.35

DC MICROAMMETERS (*Not Shielded Core)

UA	Model Stk. No.	Each	Model Stk. No.	Each	Model Stk. No.	Each
0-25	27 29A1274	\$22.65	1327* 29A1036	\$22.20	29 29A1338	\$25.00
0-50	27 29A1275	19.35	1327* 29A1037	18.90	29 29A1339	20.85
0-100	27 29A1276	17.10	1327 29A1038	17.25	29 29A1358	19.05
0-200	27 29A1277	15.45	1327 29A1039	15.75	29 29A1359	17.10
0-500	27 29A1322	15.45	1327 29A1040	15.45	29 29A1340	16.35
500-0-500	27 29A1103	14.25	1327 29A1111	15.15	29 29A1104	15.60

DC AMMETERS

Amps	Model Stk. No.	Each	Model Stk. No.	Each	Model Stk. No.	Each
0-1	27 29A1278	\$14.70	1327 29A1001	\$15.15	29 29A1341	\$16.20
0-3	27 29A1323	14.70	1327 29A1002	15.15		
0-5	27 29A1324	14.70	1327 29A1003	15.15	29 29A1342	16.20
0-10	27 29A1279	14.70	1327 29A1004	15.15		
0-25	27 29A1280	14.70	1327 29A1005	15.15	29 29A1343	16.20
0-50	27 29A1281	14.70	1327 29A1006	15.15	29 29A1365	16.20
50-0-50	27 29A1325	15.15				

DC VOLTMETERS (1000 OPV; 500 volts and up 2000 OPV)

Range V.	Model Stk. No.	Each	Model Stk. No.	Each	Model Stk. No.	Each
0-3	27 29A1310	\$14.85				
0-5	27 29A1311	14.85	1327 29A1095	\$15.75		
0-10	27 29A1298	14.85	1327 29A1007	15.75	29 29A1020	\$16.35
0-25	27 29A1312	14.85	1327 29A1008	15.75	29 29A1021	16.35
0-50	27 29A1299	14.85	1327 29A1009	15.75	29 29A1022	16.35
0-100	27 29A1313	14.85	1327 29A1010	15.75	29 29A1023	16.35
0-150	27 29A1300	14.85	1327 29A1011	15.75	29 29A1345	16.35
0-300	27 29A1301	14.85	1327 29A1012	15.75	29 29A1346	16.35
0-500	27 29A1314	15.60	1327 29A1096	16.50	29 29A1347	16.95
0-2000	27 29A1303	20.10			29 29A1364	21.90
0-5000	27 29A1024	21.30			29 29A1350	23.10

AC VOLTMETERS

Range	Model Stk. No.	Each	Model Stk. No.	Each	Model Stk. No.	Each
0-1.5	57 29A1315	\$13.80				
0-5	57 29A1316	13.80	1357 29B1067	\$13.95		
0-10	57 29A1317	13.80	1357 29A1013	13.95		
0-15	57 29A1271	13.80	1357 29B1068	13.95	59 29A1351	\$15.60
0-25	57 29A1318	14.10				
0-100	57 29A1320	15.30	1357 29B1071	15.15		
0-150	57 29A1272	15.15	1357 29A1014	15.45	59 29A1352	16.35
0-300	57 29A1273	15.15	1357 29A1015	15.45	59 29A1353	16.35

AC AMMETER

Range	Model Stk. No.	Each	Model Stk. No.	Each	Model Stk. No.	Each
0-1 A.	57 29A1282	\$13.50	1357 29A1016	\$13.80	59 29A1354	\$15.90
0-3 A.	57 29A1283	13.50	1357 29A1098	13.80		
0-5 A.	57 29A1284	13.50	1357 29A1017	13.80	59 29A1355	15.90
0-10 A.	57 29A1285	13.50	1357 29A1099	13.80	59 29A1356	15.90
0-25 A.	57 29A1286	13.80	1357 29A1018	14.25	59 29A1360	16.50
0-50 A.	57 29A1287	13.80	1357 29A1019	14.25	59 29A1357	16.50

① MODEL 57 AC MILLIAMMETERS				① MODEL 37 R.F. AMMETERS			
No.	Range	Ohms	Each	No.	Range	Thermo.	Each
29A1295	0-15	875	\$13.50	29A1305	0-1.5	Internal	\$18.50
29A1296	0-100	20	13.50	29A1306	0-3	Internal	16.50

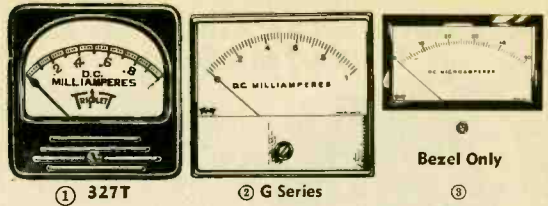
② NEW SIMPSON TAUT BAND METERS

Taut band movement offers increased reliability, higher sensitivity, lower resistance and greater ruggedness.

No. 29B1265, Model 1327T	3 1/2" Inch	0-10 Microamp DC.	Net Ea.	\$29.70
No. 29B1267, Model 1327T	3 1/2" Inch	0-50 Microamp DC.	Net Ea.	\$20.55
No. 29B1269, Model 1327T	3 1/2" Inch	0-100 Microamp DC.	Net Ea.	\$18.90

TRIPLETT PANEL METERS

All DC Meters have D'Arsonval movement, AC have iron core type with jewel bearings. Accuracy all types 2%.



① Type 327T and 337S conventional black bakelite square flush mounting. Mounts in round 2 3/4" hole. Case front 3 x 3".

Triplett New "G" Series Meters. A modern design that offers greater flexibility and interchangeability.

The Model "G" may be mounted two different ways. Conventional flush mounting illustrated in fig. ② or mounted behind the panel using the bezel fig. ③ for a modern picture window appearance. Also features Triplett's self-shielded bar ring magnet and one-piece die-cast frame. 2 1/2" meters have 2.48" scale length; 3 1/2"—3.16" scale length.

QUANTITY DISCOUNTS

10 to 24 deduct 10%; 25 and over deduct 20% from 1-9 price.

① Bakelite 3 1/2" DC Milliammeter

Range MA	Stock No.	Mfg. No.	1-9 Each
0-1	29A1239	327T	\$12.80
0-5	29A1197	327T	12.80
0-25	29A1199	327T	13.20
0-50	29A1240	327T	13.20
0-100	29A1241	327T	13.20
0-200	29A1242	327T	13.20
0-500	29A1244	327T	13.20

② G—3 1/2" DC Milliammeter

Range	Stock No.	Mfg. No.	1-9 Each
0-1	29B1375	320-G	\$12.80
0-5	29B1376	320-G	13.20
0-50	29B1377	320-G	13.20
0-100	29B1378	320-G	13.20
0-500	29B1379	320-G	13.20

③ G—2 1/2" DC Milliammeter

Range	Stock No.	Mfg. No.	1-9 Each
0-1	29B1380	220-G	12.00
0-100	29B1381	220-G	12.40
0-500	29B1382	220-G	12.40

① Bakelite 3 1/2" DC Microammeter

Range Micro A	Stock No.	Mfg. No.	1-9 Each
0-50	29A1268	327T	\$18.80
0-100	29A1248	327T	16.50
0-200	29A1251	327T	14.20
0-500	29A1270	327T	13.60
50-0-50	29A1235	327T	16.50

③ G—3 1/2" DC Microammeter

Range	Stock No.	Mfg. No.	1-9 Each
0-50	29B1383	320-G	18.80
0-100	29B1384	320-G	16.50
0-200	29B1385	320-G	14.20
0-500	29B1386	320-G	13.60
50-0-50	29C1387	320-G	16.50

③ Bezels for "G" Series Meters

Illus. ③ shows the appearance when the bezel is used. Meter mounts back of panel. Overall size for 2 1/2" meter, 3.09" W. x 1.69" H. For 3 1/2" meter, 3.83" W. x 2.27" H.

29C1373. For 2 1/2" Meters. 13A-233.
29B1374. For 3 1/2" Meters. 13A-234.
Choice Each \$1.50

③ G—2 1/2" DC Microammeter			
Micro A	Stock No.	Mfg. No.	1-9 Ea.
0-50	29C1388	220-G	\$18.00
0-200	29C1389	220-G	13.40

① Bakelite 3 1/2" DC Ammeter

Amps	Stock No.	Mfg. No.	1-9 Ea.
0-10	29A1246	327T	\$13.50
0-50	29A1137	327T	13.50

② G—3 1/2" DC Ammeter

Range	Stock No.	Mfg. No.	1-9 Ea.
0-5	29C1390	320-G	13.50
0-10	29C1391	320-G	13.50
0-25	29C1392	320-G	13.50

① Bakelite 3 1/2" DC Voltmeter

Range Volts	Stock No.	Mfg. No.	1-9 Each
0-10	29A1152	327T	\$13.50
0-25	29A1148	327T	13.50
0-150	29A1153	327T	13.50
0-300	29A1154	327T	13.50

② G—3 1/2" DC Voltmeter

Range	Stock No.	Mfg. No.	1-9 Ea.
0-10	29C1393	320-G	13.50
0-50	29C1394	320-G	13.50
0-150	29C1395	320-G	13.50
0-300	29C1396	320-G	13.50

① Bakelite 3 1/2" AC Ammeter

Range Amps	Stock No.	Mfg. No.	1-9 Each
0-1	29A1110	337S	\$13.30
0-3	29A1259	337S	13.30
0-10	29A1260	337S	13.30
0-50	29A1204	337S	13.30

② G—3 1/2" AC Ammeter

Range	Stock No.	Mfg. No.	1-9 Ea.
0-5	29C1397	330-G	13.30
0-25	29C1398	330-G	13.30
0-50	29C1399	330-G	13.30

① Bakelite 3 1/2" RF Ammeter

Range	Stock No.	Mfg. No.	1-9 Ea.
0-1	29A1252	347T	\$14.10
0-2.5	29A1253	347T	14.10

① Bakelite 3 1/2" AC Voltmeter

Range Volts	Stock No.	Mfg. No.	1-9 Ea.
0-15	29A1129	337	

Shurite & JBT Panel Meters, Amprobe Testers

LOW COST SHURITE PANEL METERS



MODEL 850

- Attractive new design.
- For sturdy dependable service.
- Wide selection of ranges.

Calibrated for non-magnetic panels. Accurate within 5%. White, metal scale, black calibrations. DC meters polarized-vane solenoid type; AC meters double vane repulsion type, jeweled bearings. All mount in 2 3/8" round hole. Extend 1 1/8" behind panel.



MODEL 950

Model 850—Clear Plastic Case. Case front 2 3/8" W, 2 1/8" H.

Model 950—Black Metal Case, 2 5/8" sq., flange mounting.

Range	Stk. No.	Mfg. No.	Each
0-500	19B240	8902	\$4.30
DC MILLIAMMETER—Clear Plastic			
0-1*	19B300	8300Z	\$4.15
0-3*	19A274	8332Z	4.15
0-5	19B301	8302	3.00
0-10	19B302	8303	2.75
0-15	19B304	8304	2.55
0-25	19B305	8305	2.55
0-50	19B306	8306	2.55
0-100	19B307	8307	2.55
0-150	19B308	8308	2.55
0-200	19B309	8309	2.55
0-300	19B310	8310	2.55
0-500	19B311	8312	2.55

*Has zero adjust.

Range	Stk. No.	Mfg. No.	Each
0-500	19B241	9902	\$4.10
DC MILLIAMMETER—Black Metal			
0-1*	19A357	9300Z	\$4.00
0-3*	19A561	9332Z	4.00
0-5	19A571	9302	2.85
0-10	19A216	9303	2.60
0-15	19A217	9304	2.40
0-25	19A218	9305	2.40
0-50	19A219	9306	2.40
0-100	19A220	9307	2.40
0-150	19A563	9308	2.40
0-200	19A221	9309	2.40
0-300	19A222	9310	2.40
0-400	19A359	9311	2.40
0-500	19A573	9312	2.40

*Have zero adjust.

Range	Stk. No.	Mfg. No.	Each
0-3	19A326	8102	\$2.55
0-5	19A327	8104	2.55
0-10	19B290	8107	2.55
0-15	19B291	8108	2.55
0-25	19B292	8109	2.85
0-50	19B293	8122	2.80
0-150	19B294	8115	3.00

Range	Stk. No.	Mfg. No.	Each
0-3	19A235	9102	\$2.40
0-10	19A236	9107	2.40
0-25	19A237	9109	2.70
0-50	19A583	9122	2.65
0-100	19A585	9113	2.70
0-150	19A238	9115	2.85
0-300	19A557	9117	3.60
0-750	19A363	9119	4.35

Range	Stk. No.	Mfg. No.	Each
0-3	19A319	8202	\$2.55
0-5	19B295	8203	2.55
0-10	19B296	8205	2.55
0-15	19A320	8206	2.55
0-25	19B297	8207	3.00
0-50	19A321	8208	3.00
10-0-10	19A322	8213	3.00
20-0-20	19B299	8214	3.00

Range	Stk. No.	Mfg. No.	Each
0-1	19A575	9201	\$2.40
0-3	19A565	9202	2.40
0-5	19A227	9203	2.40
0-10	19A555	9205	2.40
0-15	19A228	9206	2.40
0-25	19A577	9207	2.85
0-50	19A579	9208	2.85
10-0-10	19A229	9213	2.85
30-0-30	19A230	9215	2.85
50-0-50	19A581	9216	3.00

Range	Stk. No.	Mfg. No.	Each
0-10	19A329	8403	\$3.80
0-25	19A330	8412	3.80
0-50	19B312	8405	4.00
0-150	19B313	8406	4.20
0-300	19B314	8407	4.75

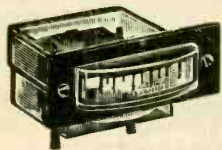
Range	Stk. No.	Mfg. No.	Each
0-10	19A559	9403	\$3.65
0-15	19A248	9404	3.65
0-50	19A567	9405	3.85
0-150	19A249	9406	4.05
0-300	19A250	9407	4.60
0-750	19A365	9409	5.75

Range	Stk. No.	Mfg. No.	Each
0-3	19A323	8502	\$3.65
0-5	19B287	8503	3.65
0-10	19B288	8504	3.65
0-15	19B289	8508	3.65
0-30	19A324	8505	3.75

Range	Stk. No.	Mfg. No.	Each
0-1	19A587	9501	\$3.50
0-3	19A242	9502	3.50
0-5	19A569	9503	3.50
0-10	19A243	9504	3.50
0-30	19A244	9505	3.60
0-50	19A589	9506	4.00

Stk. No.	Model	Net Ea.
19A252	9701 Sq. Metal	\$3.00
19B315	8701 Sq. Plastic	3.15

NEW SHURITE EDGEWISE METERS



Model 350 presents the "New Look" in low cost panel meters. Has clear polystyrene meter front with contrasting black escutcheon. Makes possible many new designs and panel layouts. Escutcheon size 2 3/8" long, 7/8" high. Meter extends 1 3/4" behind panel. Rear depth 1 1/8", width 1 5/8". Mounts in 1 1/2" x 1 1/2" cutout with two screws from the front. Movement specifications same as Model 850 above.

Range	Stk. No.	Mfg. No.	Each
0-5	19B223	3104	\$3.35
0-10	19A442	3107	3.35
0-15	19A443	3108	3.35
AC VOLTS			
0-15	19B480	3404	\$3.45
0-150	19A476	3406	4.10
DC AMPS			
0-3	19B224	3202	\$3.35
0-5	19A445	3203	3.35
0-10	19B481	3205	3.45
10-0-10	19B482	3213	3.55

Range	Stk. No.	Mfg. No.	Each
0-1	19B225	3300	\$3.70
0-5	19B226	3302	3.45
0-10	19A446	3303	3.45
0-25	19B231	3305	3.35
0-50	19A450	3306	3.35
0-100	19A475	3307	3.35
0-200	19B232	3309	3.35
0-300	19B233	3310	3.35
0-500	19B234	3312	3.35
AC AMPS			
0-5	19B483	3503	3.45

EDGEWISE S METER NO. 3333. Measures relative signal strength. Ranges 0-40 db. accuracy $\pm 5\%$. Same as Model 350. Has suggested circuit.

EDGEWISE VU METER. To measure volume in audio transmission circuits. Range -20 to +3 VU. Rectifier type. Pointer at -20. Type No. 3801.

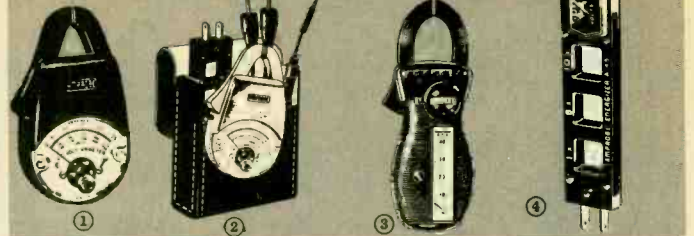
No. 19B394. Net Each \$3.45

No. 19B239. Net Each \$5.50



SHURITE AC LINE TESTER. Consists of 0-150 volt AC Meter with combination plug and receptacle connected to meter permanently by a cord. Reading may be taken with and without appliance plugged in. Wt. 1/2 lb. No. 19A399. Net Each \$4.25

AMPROBE INSTRUMENTS



Snap around type Volt-Ammeter. Close the probe jaws around conductor of the circuit under test and read current directly on meter scale. Voltage checks are made by the use of safety type leads. It is possible to safely and accurately determine load condition of equipment without shut down.

① **POPULAR PRICED AMPROBE JUNIOR**
Measures current and voltage, is small in size, convenient to carry and use. Measures 2 1/2 x 4 3/4 x 1". Wt. 11 oz. Choice of two models, both complete with test leads.

35A307. Model Y525. For 0-25 Amps. AC, 0-150-600 Volts AC.
35A308. Model Y500. For 0-100 Amps AC, 0-150-600 Volts AC. **\$22.50**
YOUR CHOICE EACH

② **AMPROBE JR. TESTMASTER KIT IN LEATHER CASE**
Complete ohmmeter, voltmeter, ammeter. The only precision instrument that measures voltage, amperage and resistance instantly within 3% accuracy. Ohmmeter measures resistance with plug-in battery attachment for test leads. Complete Kit includes Amprobe Jr., Energizer, Ohmmeter Probe, safety test leads and leather case. **\$37.85**
No. 35A346. TM-YO-500. 0-100 Amps. Net Each

③ **AMPROBES MOST POPULAR MODEL RS-3**
Does 3 jobs, measures amperes, volts and ohms resistance. AC amp. ranges 0-5/15/40/100/300. AC volts 0-150/300/600. Ohms scale for measuring resistances, tracing circuits and checking for opens. Reads 25 ohms center scale, 2000 ohms full scale. Most complete tester available. With leather carrying case and connecting leads for voltage and resistance measurements. **\$57.50**
No. 35A581. Wt. 12 oz. Net Each

④ **Model A45L Energizer** divides Amprobe Meter reading by 5X and 10X for checking low current equipment. Also divides line cord so Amprobe may be used for current or voltage checks without having to split line cord. With weatherproof pouch. Wt. 3 oz. **\$6.75**
35A310. Model A45L. Each

JBT ELAPSED TIME METER

Indicates accumulated operating time of AC electrical and electronic equipment. Registers 1/10 hour steps to 9,999.9 hours total, then resets to zero automatically. In round 3 1/2" bakelite case; mounts in 2 3/4" hole. For 110-130 V. 60 cy. AC. Shpg. wt. 1 1/4 lbs.

No. 29A1309 Model 31-EX. NET EACH \$16.75

NEW WIDE-NUMERAL ELAPSED TIME METER

Model 31-EKW. Easy to read wide numerals register to 99,999.9 hours, white on black with tenths in black on white. Resets to zero automatically. Black molded case 3 1/2", mounts in 2 3/4" hole. For 110-125 volts 60 cycle AC.

No. 29B1332. Net Each \$16.95

JBT FREQUENCY METERS

Model 34FX. 9 Reeds 60 cycles. Covers range of frequency from 56 to 64 cycles. Accuracy $\pm .2\%$. 100 to 130 volts, 110 ohms per volt. 1 watt power consumption. 3 1/2" molded case, mounts in 2 3/4" hole.

No. 29A1297. Model 34FX. Each \$27.25

Model 31FX 5 Reeds 58-62 cycles 130 volts accuracy $\pm .3\%$ for measuring frequency of power source. Molded bakelite case 3 1/2". Mounts in 2 3/4" hole.

No. 29A1307. Model 31FX. Each \$23.65

SHURITE POCKET METERS

No. 4128 BATTERY TESTER. Has two scales, 0-50 volts and 0-2 volts. 2 1/4" diameter, 5/8" thick, bright nickel finished.

No. 16A734. Net Each \$4.00

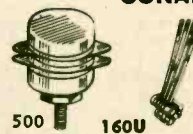
No. 4123 FOR ALL RADIO AND HEARING AID BATTERIES from 1.5 to 45 volts. Scale has green zones to indicate satisfactory condition of batteries in the voltages 1.5, 15, 22.5, 30, 33, 45. Tests are made under normal operating load for each battery assuring a true indication of battery condition.

No. 16A735. Net Each \$4.00

No. 4152 TRANSISTOR BATTERY TESTER. 0-2-10 voltage scale. For the new Mercury cells and transistor batteries. Indicates battery strength with a minimum consumption of power.

No. 16B718. Net Each \$4.00

CONANT INSTRUMENT RECTIFIERS



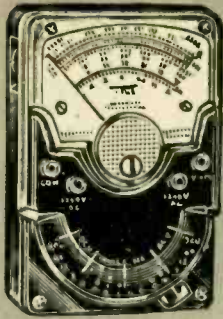
Series 500 is recommended up to 50,000 cps. in circuits requiring over 1 ma. Disc dia. .160". Continuous duty rating.

Stock No.	Mfr's Series	Volts	MA	Price Each
14A629	M 500	5	100	\$2.06
16A732	HS 500	5	50	1.50
14A631	H 500	5	50	1.18
14A630	BU 160U	10	10	1.84
16A733	BHS 160	5	10	1.50

Use B-A's Easy Payment Plan—No Down Payment

Triplett, Hickok & Weston Instruments

TRIPLETT MULTIMETERS-TESTERS



WORLD'S MOST POPULAR MINIATURE MULTIMETER

- 20,000 ohm per volt.
- 18 ranges.
- One selector switch.
- Unbreakable plastic.
- Provision for clamp-on ammeter.



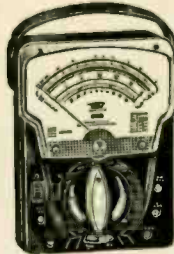
10 Clamp-on Adaptor



101



630



630PL-630APL



631



666-R

MODEL 310 POCKET SIZE V.O.M.A.

Only 2 3/4" x 4 1/4" x 1 1/8". Plastic face meter fits in shirt pocket or in leather case with belt clip (listed below). Complete miniature 20,000 ohm per volt meter, 5 DC volt ranges 0-1200. AC—5 ranges 0-1200 volts at 5 K ohms/volt. Microamperes 0-600, DC mills 3 ranges 0-600, ohms 0 to 20 K-200 K. Megohms 0-2 and 0-20. Accuracy 3% DC, 4% AC. Has 24" test leads and removable negative or common test prod at meter end. Complete with test leads and battery. Wt. 14 oz.

No. 35A352. Net Each. **\$40.00**
No. 35A353. Model 369 Carrying Case for 310 Meter. Each. **\$3.50**

TRIPLETT CLAMP-ON ADAPTER

Model 10 adapts Model 310 above for checking AC line loads up to 300 amps without breaking circuit or interrupting work.

No. 35A100. Complete ready to use. Each **\$17.00**
Model 101 provides line separation and increase sensitivity X10 and X20.
No. 35A101. Complete with Instructions. Each **\$7.00**

MODEL 100 COMPLETE CLAMP-ON SET

Consists of 310 Multimeter, No. 10 Clamp-On Adaptor, No. 101 Line Separator, No. 379 Leather Carrying Case and No. 311 Leads. Checks AC current without breaking circuit. Measures AC volts, DC current, DC volts and ohms. Save \$3.50 over parts bought individually.

No. 35B64. Complete Model 100 Set **\$70.00**

630 ALL-TIME FAVORITE MULTIMETER

Proven dependability over a long period of time has made this instrument the all-time favorite. 20,000 ohm per volt sensitivity DC and 5000 ohms AC. accuracy 2% DC and 3% AC voltage ranges 0-3-12-60-300-1200-6000. Ohms 1-1000-10,000. Megs 0-1-100. DC microamps 0-60, DC milliamps 0-1.2-12-120 at 250 millivolts. DC amperes 0-12. DB -20 to +77. Output volts 0-3-12-60-300-1200. Size 3 3/4 x 5 1/2 x 7 1/2". Wt. 4 lbs.

No. 35A170. Model 630. Complete with leads. Net Each **\$55.00**

FULL-VIEW MODEL 630PL V.O.M.A.

20,000 O.P.V. DC—5,000 O.P.V. AC. Features DC polarity reversing switch; instant vision, wider spread scales, with new streamlined plastic front meter; AC freq. response 5 to 500,000 cps. Single selector switch has 2 1/2" recessed knob flush with panel. Precision resistors. DC Volts Ranges: 0-2.5-10-50-250-1000-5000. Ohms Ranges: 0-1000, 10,000 ohms; 0-1-100 megohms. AC Volts Ranges: 0-3-10-50-250-1000-5000. DC Current Ranges: Microamp: 0-100. Milliamp: 0-10-100-1000 MA. Output: Condenser in series with AC volt ranges. Decibels: -20 to +75 in 6 ranges. With 50" test leads, batteries, Instructions. 3 3/4 x 5 1/2 x 7 1/2". Wt. 4 lbs.

No. 35B67. Model 630PL V.O.M.A. Net **\$55.00**

SUPER-PRECISION MODEL 630APL TYPE 3

Model 630APL is identical to 630PL above except has 1/2% resistors and mirrored scale. Has suspension type meter, overload protected.

35A149. Model 630APL. Net **\$65.00**

OVERLOAD PROTECTED 630PLK

No expensive repair and down-time because of accidental miss-use or overload. Transistorized electronic switching circuit is on constant guard. See 630 for other specs. Great for schools, labs and maintenance shops.

No. 35B46. Model 630PLK. Net Each **\$85.00**

NEW SUPER-SENSITIVE MODEL 630-NS

NEW. 200,000 ohms per volt DC and 20,000 ohms per volt AC. This tremendous increase in sensitivity made possible by suspension meter movement with no pivots, bearings or hair springs. It is extremely rugged with good repeatability. 62 temperature and frequency compensated ranges. AC and DC to 1200 volts in 14 ranges, -20 to +77 DB in 12 ranges. DC microamp DC milliamps and DC amps up to 12 amps in 10 ranges. Ohms ranges to 100 megohm in 6 ranges. Case size 3 3/4 x 5 1/2 x 7 1/2" with strap handle. Weight 4 lbs.

No. 35A465. Model 630-NS. Complete. Ready to Use. Each **\$100.00**

BLACK LEATHER CARRYING CASES

No. 639-05 for all 630 and 631 series Triplett testers. Permits use of instrument in case. Protects and cushions. Has built in stand.

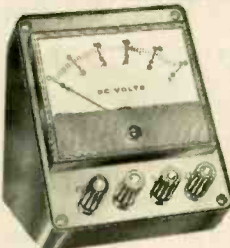
No. 35B68. Net Each **\$13.00**

TRIPLETT G/P SERIES INSTRUMENTS

IDEAL FOR SCHOOLS, LABS, SHOPS

- Overload protected.
 - Unbreakable cases.
 - Uses 3 1/2 inch 320 series meter.
 - 5-way binding posts.
 - Knife edge pointers.
 - Highest Triplett quality.
- A practical design for shop, production line, school instruction and professional lab use. Size 4 1/4" H. x 4" W. x 4 1/2" D. Wt. 1 1/2 lbs.

Stk. No.	Range	Description	Each
35B523	0-1-5-25	DC Volts	\$29.30
35B527	0-1-10-100	DC Milliamp	28.90
35B528	0-1-5-25	DC Amps	29.30
35B529	0-30-120	AC Volts & 60	
		AC Milliamps	30.80
35C530	0-25	AC Amperes	22.30



TRIPLETT MODEL 631 COMBINATION VOM & VTVM

34 ranges. VOM sensitivity 20,000 ohms per volt DC, 5000 for AC and VTVM 11 meg ohms. 5 1/2" clear plastic faced meter with expanded scales. VOM Ranges both DC and AC volts 0-3-12-60-300-1200; DC Microamperes: 0-60; DC Mills 0-1.2-12-120-1200. DC Amps 0-12; DB -20 to +63; Ohms 0-1500-15K and 0-1.5-150 Megs. VTVM Ranges: DC volts 0-1.2-6-30-120. Zero-center, battery operated. Size 3 3/4 x 5 1/2 x 7 1/2". Wt. 4 lbs.

35A313. Model 631. Complete, Ready to Use **\$75.00**

TRIPLETT MODEL 666-R VOMA POCKET-LAB

Handy, rugged "Pocket Lab" with 3-inch 200 Micro-amp. Meter. Single recessed, molded selector switch. Ranges: AC-DC Volts: 0-10-50-250-1000-5000 (1000 opv). DC Current: 0-10-100 ma, 0-1 amp (250 mv) Resistance: 0-3000-300,000 ohms; 0-3 Meg. Compensated Ohmmeter circuit. Black molded case, handy pocket size 3 3/4 x 5 7/8 x 2 1/8".

No. 35A103. Wt. 2 lbs. Complete with test leads. Net **\$40.00**

HICKOK FAMOUS TESTERS

800A TUBE, TRANSISTOR & DIODE TESTER

TECHNICIANS BEST CHOICE



Featuring Dynamic Mutual Conductance test of ALL types of receiving and television tubes—gas tests, future life tests, with readings directly in micro-ohms, combined with English reading, "Good-Bad" scale. Also tests transistors and diodes. Has same circuit features as other Hickok testers but is a smaller, lighter weight portable instrument—at a saving in cost! In sturdy removable hinged lid case, red leatherette covered. Size 16 3/4 x 11 3/4 x 7 1/2". Wt. 16 lbs. For 110-130 V. AC.

No. 35B179. Model 800A Tube Tester. Net Each **\$219.95**

MODEL 470A ELECTRONIC VOLT-OHMMETER

It is quick, accurate and simple to use. Advanced Hickok designing provides all VTVM ranges on a large 7 inch meter with only two basic scales. It simplifies readability, reduces errors due to crowding. Features a single unit probe avoiding the clutter of multiple leads.



Has 8 AC and DC voltage ranges: .5 to 1500 volts. 8 peak-to-peak AC ranges: 1.4 to 4000 volts. 8 resistance range: X1 to X10 meg. Frequency range 15 cps to 2.5 MC. Input impedance: DC volts 17.7 megohm; AC volts 17.7 megohm paralleled with 150 uufd. For 115 volts 60 cy. Case size 6 3/8 x 7 1/2 x 4 1/2". Wt. 6 lbs. Complete with leads.

No. 35B180. Net Each **\$89.50**

Order Test Instruments Now—Pay as you use them. It is easy with B-A's Revolving Charge Plan. See back of order blank for details.

WESTON TEST INSTRUMENTS

WESTON MODEL 749 AC CLAMP VOLT-AMMETER



Pocket size, easy to handle highly dependable volt-ammeter. Ideal for the electrician and serviceman. Black bakelite case with shatterproof meter window. Safely insulated for 750 volts. 6 ampere ranges 0-6-15-30-60-150-300 and 3 voltage ranges 0-150-300-600. All scales are easy to read from any angle. Accuracy ± 3% on 50-60 cycle and ± 5% on 400 cycle for full scale value. Size 7 1/2" long, 3" x 1 1/4". Wt. 14 oz.

No. 35A128. Complete with Carrying Case and Leads **\$51.50**
Net Each

Model 9886 Plug-In 10 to 1 Divider for low current. No. 35A129. Net Each **\$5.25**

WESTON 980 MARK II MULTIMETER



A highly sensitive instrument which maintains extreme accuracy. Ideal for all types of electronic service. Specifications: 7 DC volt ranges to 4000 volts at 20,000 ohms per volt 2% accuracy; 6 AC volt ranges to 1600 volts at 1000 ohms per volt 3% accuracy; 4 DC milliamp ranges to 800 mls; 0 to 80 DC microamps; 0-8 DC amps; 5 fused resistance ranges to 10 megohms. Simplified, single dial switching for all ranges. Black molded crack-proof case, engraved panel with white markings, 7 1/4" H, 6 1/4" W, 3" D. Including knobs. Wt. 3 lbs.

No. 35A561. Net Each **\$53.50**

RCA-B & K-Simpson Testers



PIONEER IN COLOR TV OFFERS THE FINEST INSTRUMENTS FOR COLOR TV SERVICING



WR64B COLOR-BAR/DOT/CROSSHATCH/GENERATOR

Provides all essential color TV test patterns. Simple operation with only 3 controls. Crystal controlled, rock-steady patterns; no jitter or crawl. Has ten bar color pattern for checking all color signals and matrixing. Permits accurate alignment of X and Z demodulators. Also provides the crosshatch pattern and the dot pattern for convergence adjustments. Has shorting switches for Red, Blue and Green. Size 13½x10x8". Wt. 13¼ lbs. Complete with cables and instruction book. Shpg. wt. 16 lbs.

No. 35B388. WR64B. Net Each. **\$189.50**

WO91B 5-INCH SCOPE

Heavy duty precision scope especially suited for servicing both color and black and white TV receivers, monitors, broadcast equipment, TV distribution systems, Hi-Fi and communications systems. Essential for trouble-shooting in chrominance circuits, observe color burst signals and in tracing and aligning. Response (±1 db) from 10 cps to 4.5 MC. 0.018 RMS volts per inch sensitivity, voltage calibrated. Has Z-axis input, continuously adjustable sweep, provision for direct vertical plate connections. A 2-stage sync. separator for easily checking TV horizontal and vertical sweep sync. Complete with low capacity probe and cable, ground cable, Green-Graph screen with instruction book.

No. 35C378. Shpg. wt. 30 lbs. Net Each. **\$249.50**

WR69A SWEEP GENERATOR

Especially suited for color TV alignment. Tops for visual alignment of both TV and FM receivers. Has preset switch positions for all VHF TV channels, FM broadcast and TV video, chrominance and IF frequencies. Output on fundamental frequencies, no beat notes or harmonics are used. Continuously adjustable sweep. Dual position attenuator for smooth control over 60 db range for TV and FM channels, 70 db range for IF and video. Has voltage terminals for use with marker odder. IF/Video frequency continuously tunable from 50 KC to 50 MC in 6 ranges. Sweep frequency band width continuously adjustable from 50 KC to 20 MC on IF/Video and FM; 12 MC max. on TV channels. Has return trace blanking and adjustable 0 to -12 bias volts. Cabinet size 13½x10x7". Shpg. wt. 16 lbs.

No. 35C377. Each. **\$295.00**

B & K TEST INSTRUMENTS



High Speed Multiple Socket Tube Testers For Fast, Reliable Testing.

MODEL 707 DYNA-QUICK TUBE TESTER

Dynamic mutual conductance tube tester. Obsolescence-proof. Tests all TV and radio tubes, nuvistors, new 10-pin tubes, 12-pin compactrons, European Hi-Fi tubes, voltage regulators and many industrial tube types. It's fast, with professional accuracy. Tests each section for shorts, grid emission, leakage and gas. Makes life test. 7, 9 and 10 pin straighteners. Complete tube reference chart in lid. Black leatherette covered case 16½ x 15¾ x 5½". Wt. 15½ lbs. Operates on 117 volts 50-60 cycles.

No. 35B349. Net Each. **\$189.95**

MODEL 606 TUBE TESTER

Compact, portable, low cost tester. Easy to carry and easy to use. Tests the newest tube types as well as all of the old commonly used types in TV and radio sets. Test Nuvistors, 10 and 12 pin Compactrons, Novars, voltage regulators, Thyratrons, European hi-fi and many industrial types. Checks for all shorts, grid emission, leakage and gas. Highly dependable results obtained by testing tubes under actual operating conditions. For 117 volts 50-60 cycle AC. Leatherette case 8½x11x4½". Wt. 5¾ lbs.

No. 35B513. Net Each. **\$79.95**

B & K MODEL 1076 TELEVISION ANALYST

Now With Keyed Rainbow Color Display Model 1076. Eliminates guesswork—no oscilloscope needed. Supplies test signal for each separate stage, you watch results on TV set itself! By point-to-point signal injection you can signal trace any stage. By use of generated test pattern you actually see the condition directly on the picture tube. Provides a switch-type tuner for channel selection. Negative bias supply, AGC Keying pulse and a high-level test signal to operate a picture tube direct.

Cabinet size, 17x10¼x10". Shpg. wt. 34 lbs. Supplied with standard test pattern, white dot, and white line crosshatch and color bar pattern slide transparencies, one clear acetate and slide holder, all necessary cables and leads. Operates on 110-120 volts 60 cycle AC.

No. 35A302. Complete Each. **\$329.95**

SIMPSON QUALITY INSTRUMENTS

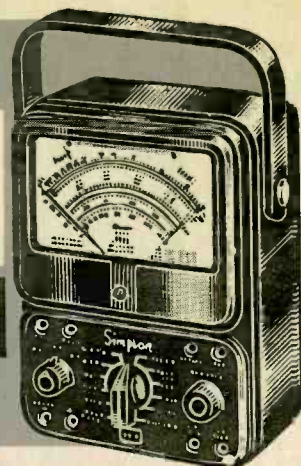
WORLD FAMOUS 260, 261, 270 AC/DC MULTIMETERS

IMPROVED with THESE FEATURES

- Self-shielded movement.
- Higher accuracy 2% DC, 3% AC.
- New Ruggedness from spring-backed jewels.
- Greater reliability.
- Increased linearity and stability.
- Mirror scale (Model 5M).

CHOOSE NOW FROM THIS LATEST LISTING . . .

New 260-5, 260-5M (mirrored scale), 260-5RT (roll top case), 260-5P (protected), 261 (high accuracy), 270-3 (extra quality, high accuracy).



MODEL 260-5 MULTIMETER

Better than ever. High sensitivity (20,000 o.p.v. DC volts; 5000 o.p.v. AC volts). Provides DC volts ranges of 0-250 MV, 2.5, 10, 50, 250, 1000, 5000 volts; AC volts ranges of 0-2.5, 10, 50, 250 1000, 5000; AC volts with internal series capacitor 0-2.5, 10, 50, 250; Current Ranges (DC) of 0-50 microamps, 0-1, 10, 100, 500 M.A.; 0-10 Amps; 4 DB ranges from -20 to +50 db; Resistance readings 1/5 Ohm to 20-Meg! 5" Meter. Frequency response 5 to 5000—full-wave bridge rectifier—expanded scales for easier reading. With test leads, manual and built in stand, 5¼x3½. Wt. 5 lbs.

No. 35A60. Simpson Model 260-5. Net Each. **\$52.95**

NEW MODEL 260-5M—Combines all the features of the 260-5 described above, plus a mirrored scale and knife edge pointer. It offers clearer reading at any angle and good repeatability.

No. 35B61. 260-5M Mirrored Scale Model. Net. **\$54.95**

Model 260-5RT in Roll Top Case. Heavy molded bakelite case with test lead space—bakelite roll cover protects instrument, rolls up out-of-way at a touch! Complete with test leads. Wt. 9 lbs.

No. 35B51. Net. **\$58.95**

New Protected Model 260-5P. Built-in meter protection makes this VCM "goof-proof". Ideal for students, apprentices, for exploring unfamiliar equipment. Combined protection includes: reset button pops out to indicate overload, cannot reset circuits while overload is present. Protective circuit does not require massive overloads, all ranges protected except 1000 and 5000 volts DC and AC, 10 amps DC. Same ranges etc. as 260-5.

No. 35C24. Model 260-5P. Net Each. **\$79.95**

Model 261. High accuracy version of 260-5. Has mirrored scale, special calibration scale for increased accuracy, burn-out protected, input protected by fuse.

No. 35B50. Model 261. Net Each. **\$62.95**

No. 35A264. 25,000 Volt DC Probe for 26Q Models. Each. **\$11.50**

MODEL 270-3 MULTIMETER

The Extra Quality Laboratory Instrument featuring: • Greater accuracy. • Now uses self-shield hi-lux meter movement, spring backed jewels, special calibration circuit for greater accuracy, overload protected. • DC accuracy 1¼% full scale 20,000 ohms per volt. • AC accuracy 2% full scale 5,000 ohms per volt. • Mirrored scale. • Knife-edge pointer. • Ranges: 7 DC volts from 250 MV to 5000 volts. • 6 AC volts from 2.5 to 5000 volts. • AC volts (output) 4 ranges 2.5 to 250 volts. • Decibals -20 to +50 in 4 ranges. • DC current 50 ua to 10 amps in 6 ranges. • DC resistance from 0-2000 (12 ohms center) to 20 megohm in 3 ranges.

Black molded case 5¼x7x3½". Wt. 5½ lbs.

No. 35A41. Model 270-3. Net Each. **\$67.95**

No. 35A165. Carrying Case, for Model 260-270. Wt. 1 lb. Net. **\$9.95**

NEW SIMPSON 312 VTVM

40% less circuit loading than most VTVM's. Input resistance is 16 meg, not the usual 11. Large easy to read 7" scale. ½ volt range for solid state circuitry. Ranges: DC volts 0-0.5, 1.5, 5, 15, 50, 150, 500, 1500. AC volts (RMS 1 meg input) 0-1.5, 5, 15, 50, 150, 500, 1500. AC volts (peak-to-peak) 0-4, 14, 40, 140, 400, 1400, 4000. Resistance ranges RX1, RX10, RX100, RX1K, RX10K, RX100K, RX1M. Freq. resp. ± 3% 15 cps. to 3 MC cps. on all AC ranges through 150 volts. Accuracy: DC and AC ± 3% full scale, resistance ± 3% of avc. 105/125 V. 50/60 cps. With 3 wire cord and plug. Size 7¾x6¾x3¾". Wt. 4¾ lbs.

No. 35C27. Model 312 VTVM. Each. **\$79.95**

No. 35D34. RF Probe #0152. **\$8.75**

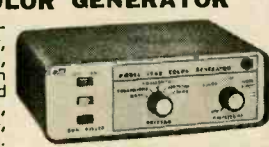
No. 35B37. High Voltage Probe #0155. **\$11.75**



NEW B & K MODEL 1245 COLOR GENERATOR

Transistorized—small size. For quick, easy adjustment of convergence, demodulator alignment, color sync, color fit, horizontal and vertical size, linearity and overscan. Provides actual TV station type signal. Highly stable crystal controlled keyed rainbow color display, dot pattern, crosshatch, horizontal and vertical lines. Instant warm-up, built-in color gun killer and chroma level control. Size 2¼" high, 8¾" wide, 8¼" deep. Wt. 4 lbs.

No. 35B230. Complete ready to use. **\$134.95**





SAVE \$\$\$! BUILD YOUR OWN EICO TEST INSTRUMENTS



EICO MODEL 232 PEAK-TO-PEAK VTVM

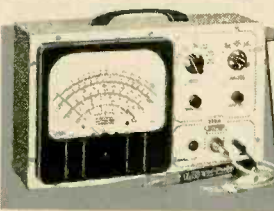
COMPLETE KIT
\$29⁹⁵
FACTORY WIRED \$49.95

WITH 4 1/2 INCH METER AND SWITCHING TYPE UNIPROBE

Combines precision performance and advanced engineering found only in a VTVM selling for at least double this price.

With dual purpose Uni-Probe, a half turn of Probe tip selects AC or DC function. Laboratory precision, professional quality, new engineering design, exceptional stability, 4 1/2 inch meter, can't burn-out circuit, adjusts to zero center, 1% multipliers. Measures directly p-p voltages of complex and sine wave. 0-4, 14, 42, 140, 420, 1400, 4200 volts p-p. DC/RMS up to 1500 volts, (30,000 with high voltage Probe). Resistance 0.2 to 1000 Megs. in 7 ranges with no skip. Calibration without removal from cabinet. One zero center for all ranges. Frequency range to 3 MC (up to 250 MC with PRF Probe). Smartly styled gray cabinet, etched panel, contrasting knobs. Size 8 1/2 x 5 x 5" Wt. 7 lbs. For use on 117 V. 60 cycle AC.

No. 35A281. Model 232K-Build it Yourself Kit **\$29.95**
No. 35A282. Model 232. Factory Wired and Tested **\$49.95**



MODEL 249
COMPLETE KIT
\$39⁹⁵
FACTORY WIRED \$59.95

MODEL 221
COMPLETE KIT
\$25⁹⁵
FACTORY WIRED \$39.95



MODEL 249 DELUXE PEAK-TO-PEAK VTVM WITH EASY TO READ 7 1/2 INCH METER

All functions are the same as Model 232 described above except Model 249 is equipped with a 7 1/2 INCH METER with the added convenience of easy-to-read large scales to permit fast accurate readings. Ideal for bench or laboratory use. Size 13x8 1/2 x 5" Wt. 9 lbs.

No. 35A283. Model 249K-Build it Yourself Kit **\$39.95**
No. 35A284. Model 249. Factory Wired and Tested **\$59.95**

HVP-2 High Voltage Probe with 1090 meg. resistor. Use with Models 232, 249. Extends range to 30,000 volts. Wt. 1 lb. **\$6.95**

No. 35A329. Factory Wired, ready to use. Net Each **\$6.95**

HVP-2 High Voltage Probe with 740 meg. resistor. Use with Models 221, 214. Extends range to 30,000 volts. Wt. 1 lb. **\$6.95**

No. 35A286. Factory Wired, ready to use. Net Each **\$6.95**

MODEL 221 VTVM WITH 4 1/2 INCH METER

The most popular and reliable VTVM with a great record of dependable performance. Uses a stable double triode balanced bridge circuit with 1% multiplier resistors. Meter adjusts to center zero for discriminator alignment and operates in a can't-burn-out circuit. Ranges are: AC and DC volts, 0-5, 10, 100, 500, 1000 (extended to 30,000 with high voltage probe listed above). Ohms 0 to 1000 Meas db -20 to +55 in five ranges. Input resistance 25 Megs on DC, 3 Megs on AC, frequency response 20 to 200,000 cps. 9 1/2" high x 6" wide x 5" deep. Wt. 10 lbs.

No. 35B17. Model 221K Build-it-Yourself Kit **\$25.95**
No. 35A157. Model 221. Factory Wired and Tested **\$39.95**

ACCESSORY PROBES FOR EICO VTVM'S

PTP11K Peak-to-Peak Probe for Models 232 and 249 VTVM. 11 meg input. No. 35A285. Kit Form. Wt. 1/2 lb. **\$4.95**

Net Each **\$3.95**
PRF11K RF Probe for Models 232 and 249 VTVM. 11 meg. input. No. 35B111. Kit Form. Accurate to 200 MC. Net Each **\$3.95**

UP UNI-PROBE. Selector type replacement probe for AC or DC function. Some as used on all Eico 232, 249, etc. VTVM testers. No. 35C49. Kit Form. Net Each **\$6.95**

1030 VARIABLE, REGULATED POWER SUPPLY



Featuring: Regulated continuously variable DC volts 0-400, continuous current at 0-200 volts, 100 MA. at 200-400 volts, 150 MA. Intermittent current at 0-200 volts, 125 MA. Bias voltage from 0-150 volts at 2 MA. Regulation .3%. Variation 4% or .5 volt for ± 10 volt line variation. Ripple, less than 3 MV RMS. Also supplies 6.3 volts 3 amps. 6.3 volts center tapped 3 amps. 12.3 volts at 3 amps, and 6.3 volts at 6 amps. Input 117 volts ± 10%, 50-60 cycle, 160 watts. Has dual range 0-200, 0-400 voltmeter and 0-200 DC milliammeter. 8 1/2" H. 2 1/2" W. 7 1/2" D. Wt. 25 lbs. **\$59.95**
No. 35B589. Model 1030. Kit. Ea. **\$59.95**
No. 35B588. 1030 Factory Wired **\$99.95**

COMPLETE KIT
\$89⁹⁵
Nothing Down
FACTORY WIRED \$129.50

EICO 460 5-INCH SCOPE

For color or black & white TV Service

- Ideal for industrial research, and maintenance work
- 5 MC bandwidth and DC amplifiers
- Surpasses in features and performance 'Scopes selling for many times the kit price.



Outstanding Features: Will provide distinct 3.58 MC sync. burst and 3.58 MC oscillator signals in color TV receivers. • Band width DC to 4.5 MC useable to above 5 MC. • 4 step compensated attenuator, both AC and DC position. • 25 millivolts per inch vertical sensitivity. • Built-in voltage calibrator. • 6X horizontal expansion. • Push-pull vertical amplifier throughout. • Cathode follower input both in V and H. • Voltage regulated vertical amplifier. • Automatic sync. limiter and amplifier. • 10 cycles to 100 KC sweep frequency. • Intensity modulation, sawtooth output, 60 cycle test signal. • 60 cycle variable phase hor. sweep. Uses 5UP1 CRT. Bezel will accommodate standard photographic equipment. Weight, 26 lbs. Size 13x8 1/2 x 16"

No. 35A335. Model 460K. **\$89.95**
Build-it-Yourself Kit. **\$89.95**
No. 35A336. Model 460. Factory Wired and Tested. Net Each **\$129.50**

COLOR TV LAB

3 ESSENTIAL INSTRUMENTS FOR SERVICING COLOR IN THE SHOP OR HOME



380 Color Generator



369 Sweep and Marker Generator



435 3-Inch Oscilloscope

EICO MODEL 380 100% TRUE NTSC COLOR GENERATOR

A precision crystal controlled, rock stable generator enabling the operator to do an exact color checkout to NTSC standards for color television. Generates I, R-Y, Q and B-Y signals, for hue and demodulator adjustment, plus 7 standard color signals. Has adjustable bar width and dot size down to just visible. A solid state saturated Color and White Dot-Bar Generator. Provides precisely shaped, completely standard signals for setting up and servicing color TV sets. All technical and service data refer to a 100% fully saturated NTSC color signal which Model 380 supplies. Generates 11 color signals, dots, crosshatch, horizontal and vertical lines. Every signal is precisely correct. 3 crystals control each basic frequency. High stability is further assured by use of solid-state design. Cabinet-size 8 1/2 x 5 3/4 x 6 3/8". Wt. 8 lbs. For 117 V. AC operation. No. 35B14. Factory Wired **\$159.95**

Now Improved 369. Featuring post injection marker principle. For faster more accurate TV and FM alignment work. Circuit response is not affected by markers and markers will not be reduced or eliminated by traps in set, the output will reproduce a clear workable scope pattern.

Has purely electronic sweep circuit, independent of marker section. Five ranges 3.5 to 9 MC; 7.5 to 19 MC; 16 to 40 MC; 32 to 85 MC; 75 to 216 MC. All fundamental, tuning with 6:1 ratio vernier dial. Output 50 ohms. Marker generator has four ranges covering 2 to 225 MC. A 4.5 MC crystal (supplied with instrument) is used for a rapid marker check and for TV sound alignment. 8 1/2 x 12 1/2 x 7". Operates on 105-125 V. AC, 60 cy. 50 watts.

No. 35B396. Model 369. Wt. 16 lbs. Complete Kit **\$99.95**
No. 35B394. Model 369 Factory Wired **\$149.95**

Now Model 435 Scope exceptional performance, compact size. Complete TV service calls on location, clarity and detail equal to 5-inch scopes, but with for sharper and brighter trace. Flat faced CRT with mu metal shield. Distortionless vertical and horizontal trace expansion to several times the screen dia. permits drift-free positioning and more detail vertical amp response from DC to 4.5 MC (useful to 10 MC) 1 meg. input. Horizontal amp response 1 cps to 500K 4 meg. input. Zener regulated 200 MV peak-to-peak calibrating voltage is provided. 4 sweep ranges plus TV-Vertical and TV-Horizontal position. Size 8 1/2 x 5 3/4 x 12 5/8". Shpg. wt. 15 lbs. **\$99.95**

No. 35B591. Model 435. Easy-to-build Kit. Each **\$99.95**
No. 35B590 Model 435 Factory Wired and Tested. Each **\$149.95**

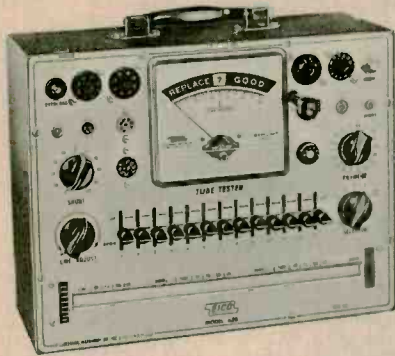
SCOPE PROBE KITS

35A119. PSDK Demodulator probe, signal tracing. Range to 250 MC **\$3.95**
35A287. PDK Direct tracing in low Z circuits eliminates stray pickup **\$2.95**
35A288. PLCK Low capacity for waveform tracing wide-band circuits **\$3.95**

NATIONALLY FAMOUS EICO KITS ARE YOUR BEST BUY

MODEL 628 **EICO** TUBE TESTER

JUST IT FOR RADIO & TV SERVICEMEN, HOBBYISTS, EXPERIMENTERS



Highly Reliable
Completely Up-To-Date
\$44⁹⁵
FACTORY WIRED
\$59.95

NO MONEY DOWN

Simple, fast operation—has 13 lever type switches, roll tube chart and 3-color 4 1/2 inch meter with replace, weak, good scale and 0 to 100 matching scale. Tests 7-9-10 pin miniatures, octal, loctal, 5 and 7 pin nuvistors, novars and compactrons. Checks for emission, shorted elements, open elements and continuity. Test all picture tubes with CRU adapter shown at right. Has line adjust control and protective overload lamp. Roll chart will be reissued as needed to keep up to date. Gray cabinet with carrying handle. Size 9 1/2 x 12 1/2 x 4 1/4". Wt. 11 lbs.
No. 35B391. Model 628 Complete Kit.....**\$44.95**
No. 35B390. Model 628 Factory Wired. Ready to use.....**\$59.95**

EICO MODEL 667 TUBE & TRANSISTOR TESTER

THE
SERVICEMAN
AND
TECHNICIANS
BEST BUY!

COMPLETE KIT
\$79⁹⁵
FACTORY WIRED
\$129.95

NO MONEY DOWN



Features Dynamic Conductance Tube Test, a composite test showing mutual conductance, plate conductance, and peak emission capabilities. Short test is direct reading for shorts as high as 20 megohms.

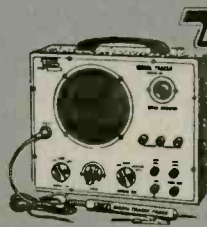
Speedy testing with unexcelled accuracy—tests most every domestic or foreign receiving tube made. All the nuvistors, novars, compactrons, miniatures and sub-miniatures, octals and loctals. Also many low power transmitting and special purpose tubes, regulators, ballast tubes and pilot lamps. All tests are made under actual operating conditions, combining mutual conductance with peak emission test. Test transistors by gain and leakage method shown direct on meter. All color and black and white CRT tubes can be tested using CRU adapter listed below. Convenient roll chart is brought up to date periodically. Has fast acting push buttons and lever switches, 4 1/2" full view meter and line voltage adjuster. Gray steel cabinet 12x15x4 1/2". For 105-125 V. AC, 60 cycle. Wt. 20 lbs.
\$79.95
No. 35B381. Model 667 Complete Kit.....
No. 35B380. Model 667 Factory Wired Ready to Use.....**\$129.95**
CRU ADAPTER for testing color and B & W picture tubes with either Model 628 or 667 tube tester.
No. 35B389 CRU Adapter.....**\$9.95**



MODEL
315
\$59⁹⁵
FACTORY
WIRED
\$79.95

MODEL 315 DELUXE SIGNAL GENERATOR

Features: Extreme stability of oscillator circuit, band-spread vernier tuning (0-100 scale), illuminated pointer. Frequency range 75 KC to 150 MC. 7-separately calibrated scales—at accuracy of 1% or better on all ranges. 4-step, RF-shielded output multiplier very low leakage. VR tube maintains accuracy regardless of line-voltage fluctuations. 400 cy. pure sine-wave audio modulates RF, is AF attenuated for external use. Connections for external modulation. 3-color rubproof panel, heavy steel case is 13x12x7". Wt. 21 lbs.
35A117. Model 315K.....**\$59.95**
No. 35B48. Model 315 Factory wired and Tested, ready to use.....**\$79.95**



MODEL
147A
\$29⁹⁵
FACTORY
WIRED
\$49.95

MODEL 147A DELUXE SIGNAL TRACER

• Has both visual and aural signal monitors.
• RF channel gain permits tracing up to receiver input.
For RF-IF and audio signal tracing in TV, RF and AM receivers. Visual (with electron-ray tube), and aural (through loudspeaker), indication of the signal. High RF sensitivity permits signal tracing in tuner and IF. Noise localizer detects noisy resistors, condensers, solder joints. One probe and ground lead serves for all functions. Size 9x10x5". Wt. 10 lbs.
35A275. Model 147AK.....**\$29.95**
Complete Kit.....
No. 35A276. Model 147A Factory Wired.....**\$49.95**

UNBEATABLE \$\$\$ SAVING TESTERS



MODEL
377
\$39⁹⁵
FACTORY
WIRED
\$54.95

MODEL 377 AUDIO GENERATOR

For servicing, testing and designing amplifiers, speakers, etc., used in Hi-Fi and public address systems. Uses Wien Bridge oscillator circuit. Ranges; sine wave 20-200,000 cps, square wave 60-50,000 cps. Accuracy 3% or 1 cps, output 10 volts across 1000 ohms, constant output over wide frequency range. For use on 105-125 V. AC 50-60 cps. Gray wrinkle steel case 7 1/8 x 11 1/8 x 7 5/8". Wt. 14 lbs.
35A586. Model 377K Kit.....**\$39.95**
Net Each.....
No. 35A587. Model 377, Factory Wired and Tested.....**\$54.95**



MODEL
324
\$32⁹⁵
FACTORY
WIRED
\$44.95

MODEL 324 RF SIGNAL GENERATOR

A low priced, high quality generator with frequency range for servicing color and mono-chrome TV, FM and AM radio. Covers 150 KC to 435 MC, up to 145 MC on fundamentals. Quality and performance compare to the most expensive instruments. Specifications: RF output 100,000 microvolts; 400 cy. AF output 10 volts; 6 to 1 vernier dial; coarse and fine RF attenuators; Colpitts oscillator; external modulator amplifier; 50 ohm output. Gray wrinkle finished cabinet, 8x10x4 3/4". For 115-125 V. 50-60 cycle AC. Wt. 10 lbs.
35A331. Model 324K Kit.....**\$32.95**
Model 324. Factory wired ready to use.
35A330. Net Each.....**\$44.95**

950B R-C Bridge & R-C-L Comparator

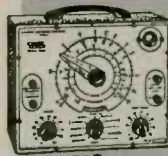
A professional quality instrument for testing all resistance 0.5 ohms to 500 meg. and all types of condensers from 10 mmfd. to 5,000 mfd.! Built-in variable DC voltage source of 0-500 volts tests condensers for leaks, power factor, polarity.
All resistance-capacity ranges calibrated on panel! Precision comparator range—Bridge type circuit! Magic eye indicator tube. Size 10x8x4 3/4". Wt. 10 lbs.
35A142. Eico Model 950BK. Parts Kit. Net.....**\$25.95**
35A144. Model 950B. Factory Wired. Net.....**\$34.95**

IN-CIRCUIT CAPACITOR TESTER

Model 955. Accurate bridge type in-circuit or out-circuit capacitor tester. Function: tests capacitors for shorts or opens and measures capacity from 1 to 50 mfd. ± 10%. Has a two range RC balance dial range from 6 to 10.5, 7 to infinity. High frequency provides maximum 6.3 V. AC. Bar pattern 6F6G provides sharp accurate indicator readings. Operation 105-125 volt AC. Has line adjustment. Complete with leads, instructions. 8 1/2 x 5 3/4 x 6". Wt. 6 lbs.
No. 35B324. Model 955 Kit. Net.....**\$19.95**
No. 35B323. Model 955 Wired. Net.....**\$39.95**

680 TRANSISTOR & CIRCUIT TESTER

For accurate transistor and diode testing plus a special VOM for testing transistor circuits. DC current 5 ranges 50 and 500 micro-amp, 5-50-500 MA. DC Volts 5 and 50 volts. Resistance 3 ranges 0 to 20 megohm. Transistor measurements ICBO, ICEO for both signal and power types. DC Beta 2 ranges 2 to 30, 20 to 300 direct. AC Beta indirect. Accuracy 3% overall. Comes complete with batteries. Black bakelite case 6 3/4 x 5 1/4 x 3". Wt. 3 lbs. Full instructions.
No. 35A318. Model 680 Kit. Net.....**\$25.95**
No. 35A317. Model 680 Wired. Net.....**\$39.95**



950B



955



680

EICO 565 MOST POPULAR 20,000 OHM PER VOLT MULTIMETER

HAS 31 RANGES. 4 1/2-inch, 50-micro-amp meter, hand calibrated and tested rectifier; easy-to-read, full scale ranges; DC/AC/output volts: 0-2.5, 10, 250, 1000, 5000. DC Current: 0-100-Micro-Amp., 0-10-100-500 MA, 0-10 Amp. Ohms: 0-2000, 200 K, 20 Meg. 5 D.B. Ranges, -12 to +55. Extra rugged construction. Case is 6 3/4 x 5 1/4 x 3", leather handle. Wt. 3 lbs.
No. 35A203. Model 565K Parts Kit. Net.....**\$24.95**
35A204. Model 565 Fact. Wired, Complete. Ea.....**\$29.95**

MODEL 556 MULTIMETER 1000 O.P.V.

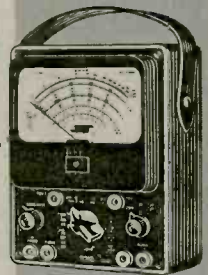
Features a large 4 1/2 inch Meter for more accurate readings. 1% precision resistors, 38 full scale ranges. AC or DC volts 0-1.5, 10, 50, 100, 500, 5000. AC-DC Current 0-1, 10 MA; 0-1, 1 A. Ohms: 0-5000, 100 K, 1 Meg. 6 db ranges, -20 to +69. 400 Microamp Meter. Bakelite case 6 3/4 x 5 1/4 x 3". Wt. 3 lbs.
No. 35A279. Model 556K Complete Kit.....**\$18.95**

EICO 540 UTILITY TESTER

Designed for the handy man and the do-it-yourselfer.

Low cost multi-range meter for locating defects in irons, fans, TV, radio, automobile batteries, etc. Measures AC or DC volts up to 300 volts, current up to 15 amps, resistance up to 1,000 ohms. Neon lamp checks leakage, continuity, Kilowatt scale shows power consumption. Has good-bad reading for 6 or 12 volt storage batteries. Black bakelite case 3 1/4 x 6 1/2 x 3 1/2" with clear lucite meter. Weight 3 lbs. Instruction book.
No. 35A386. Model 540K. Complete Kit.....**\$12.95**
No. 35A387. Model 540 Factory Wired. Net.....**\$15.95**

COMPLETE KIT
\$24⁹⁵
WIRED \$29.95





BIG SAVINGS! BUILD RCA PRECISION INSTRUMENT KITS



\$29⁹⁵
KIT

FACTORY
WIRED
\$47.95

- Special transistor voltage ranges .25 and 1 volt.
- Fuse protection.



\$29⁹⁵
KIT

FACTORY
WIRED
\$46.95

- World famous RCA VoltOhmyst circuit.
- Simply and quickly assembled.



\$57⁹⁵
KIT

SAVE
\$21.55
Wired
\$79.50

- 6 1/2" wide vision meter.
- 200 microamp movement.
- Single switch-type AC-DC ohms probe.
- ± 1% multiplier resistors.

RCA WV38A VOLT-OHM MILLIAMMETER

WV38A Multimeter. All new volt-ohm meter with exclusive .25 and 1 volt ranges required for transistor servicing. 20,000 ohms per volt DC and 5000 ohm per volt AC. Accuracy 3% DC, 5% AC. Full scale. • Eight DC and six AC ranges to 5000 volts. • 6 DC current ranges 0-50 up to 10 amps. Frequency response 10 cycles to 50 KC, useable to 500 KC. • 3 resistance ranges to 20 meg. • Polarity reversing switch. • Fuse protection. • Large 5 1/4" meter for easy reading. Bakelite case size 5 1/4 x 6 7/8 x 3 1/8". Shpg. wt. 4 lbs. No. 35A90. Model WV38AK Complete Easy to Wire Kit. Net Each **\$29.95** No. 35A89. Model WV38A. Factory Wired Complete. Net Each **\$47.95**

RCA WV77E VOLT-OHMYST

Now you may own the most popular VTVM at a fabulous saving! Features: • Burn-out protection. • 11 meg input imp. • Ultra slim probes. • Lead storage in the handle. • Wide view 400 microamp meter. • 1% tolerance resistors. • Seven overlapping voltage ranges 0-1500 volts. • Peak-to-peak 7 ranges to 4000 volts. • Frequency response ± 5% to 5 MC. • 7 overlapping ohmmeter ranges .2 to 1000 meg. • Zero center indication for discriminator alignment. Metal case shields against magnetic fields. Gray-blue finish. 7 3/4 x 5 3/8 x 4 3/4". Wt. 4 lbs. 115 volt operation. No. 35A289. Model WV77EK Complete Kit. Net Each **\$29.95** No. 35A71. WV77E. Factory Wired **\$46.95**

RCA WV98C SENIOR VOLT-OHMYST

Features accuracy of ± 3% full scale, both AC and DC. Has eight DC voltage ranges 0 to 1500 volts. Fourteen AC ranges: seven peak-to-peak from 0 to 4200 volts, seven RMS (sine wave) 0 to 1500 volts, frequency to 3 MC. Seven ohm ranges 0 to 1000 megohms. For 115-125 volts, 50-60 cycle AC. Sturdy blue-grey cast aluminum cabinet 6 1/2 x 7 x 3 3/4". Wt. 6 lbs. No. 35A355. Complete Kit, Net Each **\$57.95** 35A367. Fact. Wired & Tested, Net Ea. **\$79.50** WG301A Crystal Probe. 30 cps to 250 MC. No. 35A395. For WV98C & WV87B. Each **\$7.75** WG289 Hi-Voltage (50K) Probe. No. 35A263. For WV98C & WV87B. Each **\$15.45**

EICO MODEL 250 AC VTVM & AMPLIFIER



\$49⁹⁵
KIT

MEETS THE NEEDS OF CRITICAL AUDIO SPECIALISTS

EICO 965 FARADOHM BRIDGE/ANALYZER



FACTORY
WIRED

\$129⁹⁵

NOTHING
DOWN ON
EASY
TERMS

Model 250 is a high sensitivity, wide band AC VTVM and amplifier of lab quality and accuracy. Measures AC volts from 100 microvolts to 300 volts in 12 ranges. Function switch converts to wide band amplifier with 60 db gain on 1 mv range. Maximum output 5 volts RMS. Amplifier frequency response +0, -3 db 8 C to 800 KC. Input impedance 10 megohm. Output impedance 5 K ohms. Gray cabinet 8 1/2 x 5 3/4 x 7". Wt. 7 lbs. Operates on 105-125 V. AC. 50-60 cycles. No. 35B413. Complete Kit **\$49.95** No. 35B409. Factory Wired **\$79.95**

Model 965 is an RC Bridge Capacitance Analyzer, useable for diode reverse and transistor quiescent current measurements. Incorporates 6 range DCVTVM and 11 ranges DC VT micro-ammeter and millimeter. Capacitance range 5pf-10,000, 500 pf-1 uf, 0.5 uf-100 uf, 50 uf-5000 uf. Power factor 80% at 60 cps. Resistance ohms: 0.5-1K, 50-100K, 5K-10 meg, 5 meg-500 meg; up to 200,000 meg can be measured with metered DC supply. RCL comparator range .025-50. Variable DC supply 6 ranges, 4 to 500 V; 6 DC VTVM ranges, 1.5 to 500. (10 meg input Z). DCVTAM ranges 6 u-amp 1.5 to 50; 5 MA ranges .15 to 15. 8 1/2 x 12 1/2 x 9". Wt. 15 lbs. 115 volts 60 cy. No. 35B22. Model 965 Factory Wired **\$129.95**

EMC BURN-OUT-PROOF MULTIMETERS

NEW BURN-OUT PROOF MODEL 102A 20,000 OHM PER VOLT METER

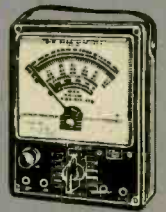


\$14⁴⁰
COMPLETE KIT

- A big money and time saving feature for every Multi-meter user. The first time available in a low priced instrument.

\$21¹⁵
COMPLETE KIT

- FEATURES FULL VIEW CLEAR PLASTIC METER
- 4 1/2" Square Meter
- 24 Ranges—Burn-Out-Proof



NEW 102A BURN-OUT PROOF MULTIMETER

Has a built-in semiconductor circuit to prevent burn-outs caused by accidental overloads. No more expensive repairs and loss of time when accidentally mis-used. Has 3 1/2 inch 2% 800 microamp D'Arsonval type plastic front meter. 5 AC voltage ranges: 0 to 12, 120, 600, 1200, 3000 volts. 5 DC voltage ranges: 0 to 6, 60, 300, 600, 3000 volts. 3 AC current ranges: 0 to 30, 150, 600 MA. DC current ranges: 0 to 6, 30, 130 MA and 0 to 1.2 amps. Resistance ranges: 0 to 1000 ohms, 0 to 1 megohms. No. 35B40. Model 102A Kit **\$14.40** No. 35B43. Model 102A Wired **\$16.95**

MODEL 109A EMC 20,000 OHM PER VOLT METER NOW INCORPORATES BURN-OUT PROTECTION

DC voltage ranges (at 20,000 o.p.v.)—0/6/60/300/600/3,000; AC voltage ranges (at 10,000 o.p.v.)—0/12/120/600/1200/3000. Resistance ranges, 0/20K/200K/0-20 Megohms. AC current ranges 0-30-300 MA, 0-3 amps. DC current ranges, 0-6-60-600 MA. DB ranges, minus 4 to plus 67 db. All ranges above ore on self-contained batteries. Round cornered, molded bakelite case, with strap, is 5 1/4 x 6 3/4 x 2 7/8". Wt. 3 lbs. No. 35A202. Model 109A Complete Kit. Net Each **\$21.15** No. 35C10. Model 109A Factory Wired. Net Each **\$28.95**

EICO 1140 RC NETWORK BOX



A series/parallel combination capacitor and resistance substitution box. Permits selection individually or any combination of the two, either in series or parallel. A valuable aid for TV, radio and audio servicing as well as laboratory and experimental work. Capacitors from .0001 to .22 mfd. and 1 watt resistors from 15 ohms to 10 megohm in standard RETMA values. 10% accuracy—600 volt rating. 6 3/4 x 5 1/4 x 3". Wt. 6 lbs. 35A582. Model 1140K. Cmpte. Kit, Net Ea. **\$14.95** 35A583. Model 1140. Factory Wired & Tested. **\$19.95**

RESISTANCE SUBSTITUTION BOX



Model 1100 provides a rapid selection of resistance values in decade multiples of 15, 22, 33, 47, 68 and 100 ohms with standard 1 watt 10% resistors. Has many uses in radio and TV servicing and in experimental design work. Size 3 3/4 x 6 1/2 x 3 1/2". Wt. 2 lbs. 35A277. Model 1100K. Complete Kit **\$7.95** 35A278. Model 1100. Factory Wired & Tested **\$12.95**

CAPACITANCE SUBSTITUTION BOX



Model 1120 contains range of 600 volt capacitors from .0001 to .22 mfd. with switch selector and 5 way binding posts. A highly satisfactory method for determining correct circuit capacity by substitution. Wt. 2 lbs. 3 3/4 x 6 1/2 x 3 1/2". 35A87. Model 1120K. Complete Kit **\$6.95** 35A122. Model 1120. Factory Wired & Tested **\$10.95**

EMC COMPARATOR BRIDGE

AND IN-CIRCUIT CAPACITY CHECKER

MODEL 801

WIRED
READY-TO-
USE
\$38.95

\$24⁹⁵
COMPLETE KIT

- Measures condensers in or out of circuit.
- Measures capacity in 4 ranges 10 mfmfd.-5000 mfd.
- Complete, ready to use... nothing extra to buy.



It measures condensers in or out of circuit for opens, shorts or intermittents. A resistance and capacity checker which measures actual capacity, leakage and power factor. Measures capacity in four ranges 10 mfmfd to 5000 mfd. Resistance in four ranges .5 ohm to 500 megs, power factor from 0 to 60% on condensers between .1 and 5000 mfd. Will check open or shorted condensers above 50 mfmfd in circuits not shunted by excessively low resistance. Size 10 x 7 x 5". Wt. 7 lbs. No. 35A159. Model 801 Complete Kit. Net Each **\$24.95** No. 35A158. Model 801 Factory Wired. Net Each **\$38.95**

TEST INSTRUMENT FOR EVERYONE AT LOW PRICES!

DELUXE TUBE TESTER KIT

COMPLETELY MODERN! COMPLETELY FLEXIBLE!

EMC MODEL 213

**PRICED WITHIN
THE REACH OF
EVERYONE**

- Hobbyists
- Experimenters
- Students
- Servicemen

Up to date in every way. Checks all the new 12 prong (Compactron), Nu-visor, Novar and 10 prong tubes in addition to octal, loctal, miniature and 9 prong tubes. Tests each tube for shorts, leakages, intermittents, as well as for quality. Tube quality is indicated directly on a three color meter dial. Each section of a multi-purpose tube is checked separately. Magic eye, voltage regulator and Hi-Fi tubes are also tested. Unique switching arrangement makes the checker obsolescence proof. Panel is etched for long wear. Complete with instructions and tube charts in ring bound manual.

Factory supplies supplementary tube listings periodically at no cost to keep instrument up to date. Complete kit in wood carrying case. Shpg. wt. 5 lbs.
No. 35B417. Model 213P Kit. \$21.90
Net Each
No. 35B418. Model 213P Factory Wired. Net Each \$32.25
Kit as above but with high impact bakelite case instead of wood case. \$18.90
No. 35B419. Net Each

**WITH PROFESSIONAL
LOOK!**

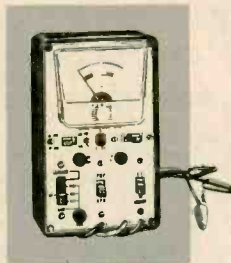
**FACTORY
WIRED \$21.90**
\$32.25

- Checks all new tubes—12 prong (Compactron), Nuvisor, Novar & 10 prong tubes.
- Also octal, loctal, miniature and 9 prong tubes.
- Obsolescence proof.
- Easy to build—easy to use.



EMC 212 TRANSISTOR ANALYZER TESTS ALL TRANSISTORS IN OR OUT OF CIRCUIT

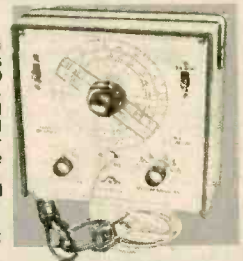
For the technician, hobbyist or student. Checks DC current gain (Beta) in three ranges to 200. Checks leakage on three color scale; good, weak, poor. Tests all transistors as AC current amplifiers (oscillator check) without removing them from circuit. Can be used as a signal tracer. Measures battery voltage 0-12 volts, and current 0-80 MA, also tests diodes. Has set of three external leads as well as socket for transistor testing. Comes complete with instruction manual and transistor listing. Size 3 3/4 x 6 1/4 x 2 1/2". Wt. 1 1/2 lbs.
No. 35B521. Model 212 Complete Kit. \$13.50
No. 35B522. Model 212 Wired, Ready To Use. \$18.50



EMC RF SIGNAL GENERATOR 502

THE FIRST TIME AT A PRICE THIS LOW

Covers frequency range for all tuning and aligning requirements of AM and FM radios, in 6 bands from 115 KC to 110MC, second harmonic to 220 MC. RF accuracy 1 1/2%. Includes 400 cycle internal modulation controlled with off-on switch and provision for external modulation. Uses individual slug tuned coils for each band. Colpitts oscillator and a cathode follower output. Planetary drive permits fine frequency adjustment. Size 6 5/8 x 6 5/8 x 4". Wt. 4 lbs. Complete with output lead and instructions.
No. 35B424. Model 502 Kit. \$17.95
No. 35B425. Model 502 Factory Wired. \$24.95



SENCORE PROFESSIONAL TIME SAVING, MONEY MAKING TEST INSTRUMENTS



TR139



LO-BOY CG10
COLOR BAR
GENERATOR



MU140



TC136



SS137



RC121

TR139 IN-OR-OUT OF CIRCUIT TRANSISTOR TESTER

Ideal for radio, TV, Hi-Fi, recorder, etc., trouble shooting as well as production testing, sorting and identifying. Being able to check all transistors and diodes, in or out of circuit is a real time saver because much present day equipment has transistors and diodes soldered in.

TR139 identifies NPN or PNP type at flick of switch, transistor is protected even if leads are reversed.

Beta is accurately read on meter, simply turn the knob and push test button.

ICBO values (amount of leakage) shown in microamps, some transistors show correct Beta but are inoperative because this leakage is too high.

Beta in circuit tests are accurate even with shunt impedance as low as 100 ohm. No set-up booklet needed, you follow simple directions furnished with the instrument.

No. 35B455. Net Each \$89.50

CG10 COLOR GENERATOR POSITIVELY YOUR BEST BUY!

Provides ten standard RCA type color bar patterns; NTSC phased colors, the standard of the industry. Also crosshatch individual vertical and horizontal lines and adjustable white dots. Has full compliment of 14 horizontal and 10 vertical lines. Requires no warm-up time, provides all patterns instantly at a flick of the switch. Has interlace control for dot bounce that varies from set-to-set, a Sencore first. The three interrupters are isolated, will not smear the picture. Rugged all steel cabinet, 10 1/4" long, 3 3/4" high, 8" deep.

No. 35B102. Wt. 4 lbs. Net Each \$89.95

MU140 DYNAMIC MUTUAL CONDUCTANCE TUBE TESTER

A must for color TV and industrial equipment servicing. True mutual conductance testing, completely checks over 3000 tubes; novars, compactrons, new magnovals, including most foreign types. Simple to set up tests, in fact set-ups can be made from tube manual data. Has expandable socket area to assure obsolescence protection.

MU140 tube tests can be completely relied on because Mutual Conductance Test measures the ratio of signal in to signal out in microhms, Emission Test is made at tube's full rated cathode current, Grid Leakage is measured as small as 1/2 microamp or 100 megohm and short test checks each element against all others for shorts of 180K ohms or less. Housed in vinyl covered steel attache type case. Shpg. wt. 20 lbs.

No. 35B454. Net Each \$169.50

MODEL TC136 MIGHTY MITE IV TUBE CHECKER

It is the leader among tube testers, reliable and versatile yet simple and quick to use. A tester that finds tube troubles other testers miss, saves call backs. Tests over 2500 types for cathode emission, grid emission, leakage, shorts, gas. Also tests picture tubes. Controls easily set up from indexed set-up charts in the lid. Steel case 10 1/4 x 9 1/4 x 3 1/2".
No. 35A185. Model TC136. Shpg. wt. 9 lbs. Net Each \$74.50

SWEEP CIRCUIT ANALYZER MODEL SS137

Improved for all TV including color. Quickly and positively locates horizontal and vertical sweep circuit troubles in seconds, no guesswork, without removing chassis from cabinet.

- Push-button testing for most circuits by use of adaptor plug-in socket.
- Circuits are tested completely with TV set turned on.
- Horizontal and vertical test made by substituting signal from the tester.
- 2nd anode voltage to 30 KV read direct on test meter.

All steel case, has mirror in detachable cover, two AC outlets are provided. Size 10 1/4 x 9 1/4 x 3 1/2". Wt. 10 lbs.
No. 35B153. Complete with Instructions \$79.50

RC121 COMPONENT SUBSTITUTER

Easy to use, time saving tester which provides, at the touch of a switch, on the spot substitution of 12 1 watt resistors from 10 ohms to 5600, 12 1/2 watt from 10K to 5.6 megohm, 20 wire wound 20 watt resistors from 2.5 to 15,000 ohms. 10 capacitors from 100 mfmf to 5 mfd at 600 volts. 10 dual electrolytics may be used singly or combined to provide 2 mfd to 250 mfd at 450 volts. Rectifiers, selenium .5 amp. 800 PIV and 5 amp at 800 PIV. Has surge protector and all capacitors are automatically discharged when out of use. A total of 81 values are combined to provide quick substitution in any circuit. Comes complete with four test leads and instructions. Wt. 6 lbs.

No. 35B132. Model RC121 \$39.95

TR115 TRANSISTOR TESTER

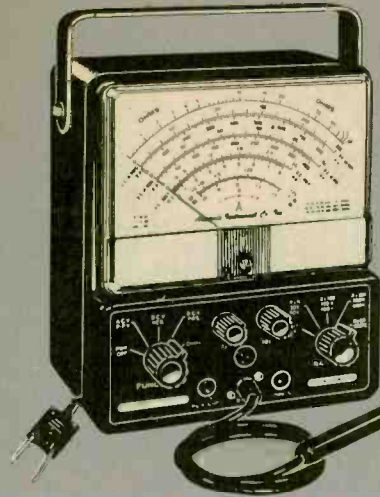
Accurate test on all transistors, diodes and rectifiers. Has simple set up chart, reads transistor gain, leakage and indicates good or bad directly in Beta on the meter scale.

Cannot become obsolete. Measures forward and reverse current on diodes. Wt. 2 lbs.
No. 35A557. Model TR115. \$24.95



SPECTACULAR TEST INSTRUMENT VALUES

SENIOR VTVM ALL AMERICAN MADE TUBE TESTER



**COMPLETELY WIRED
AND CALIBRATED
... READY-TO-USE**

**GIANT 6 1/2 INCH
FULL VIEW METER**

**COMPARE
AT UP TO \$70.00**

\$29⁹⁵

TOP VALUE

**MODERN, STREAMLINED AND COMPACT . . . A
PRECISION QUALITY INSTRUMENT . . . RELIABLE
AND ACCURATE FOR ALL ELECTRONICS WORK**

A truly professional precision quality instrument, all American made . . . specially priced to save you money! Provides golden opportunity for serviceman, ham, experimenter, engineer, hi-fi enthusiast, etc. to enjoy the desired advantages of a dependable, versatile, highly sensitive VTVM at lower cost than many ordinary multimeters.

HERE ARE THE SPECIFICATIONS:

DC Voltmeter Ranges: 0-3, 30, 150, 300 and 1500 volts.
Zero Center Voltmeter (for discriminator alignment etc.) Ranges: 0-1.5, 15, 75, 150, 750 volts.

AC Voltmeter. RMS Ranges: 0-3, 30, 150, 300, 1500 volts.
Accuracy all voltage ranges $\pm 3\%$ full scale—Input resistance 11 megohm.
Peak-to-Peak Ranges: 0 to 8, 80, 400, 800 volts.

Ohmmeter Ranges: 0-1000 megohm in 5 overlapping ranges.
DB Meter for all audio measurements. Ranges: -10 to +5, +6 to +25, +26 to +45 decibels. Based zero DB at 1.73 on 500 ohm line.

Housed in beautiful gray case with color matched aluminum panel and carrying handle. Size 7x7 1/2 x 5". Complete with instructions, service hints, probe and cable and test leads. Operates on 110-120 AC volts. Wt. 4 lbs. No. 35A239. Model 152 Senior VTVM Ready to use.

Net \$29.95

**BRAND NEW
IMPROVED
MODEL—
NOW TEST
ALL TUBES**



**COMPARE
AT UP TO \$50.00**

\$27⁹⁵

TOP VALUE

**TESTS OVER 1000
TUBE TYPES
INCLUDING NOVARS
NUVISTORS, 10 PINS
MAGNOVALS Compactrons**

**COMPLETELY WIRED AND TESTED . . . READY
TO USE—NO EXTRAS TO BUY
CONVENIENT CARRYING CASE FOR ON THE JOB**

- Compares with tube testers selling for as much as \$50. Made for B-A by one of America's leading tester manufacturers.
- Fully guaranteed by both the maker and B-A for one full year. Just return to B-A for repair or replacement at our option.
- Just fit for Servicemen, Hams, Hobbyists, Hi-Fi Enthusiasts, etc.

For Servicemen! Low cost, dependable, fits in a tube caddy, makes all tests for shorts, filament continuity and indicates quality of all 7 and 9 pin miniatures, octals, lock-ins, 9 pin novel miniatures and new T-9 types. Novars, nuvistors, compactrons, 10 pins and magnovals.

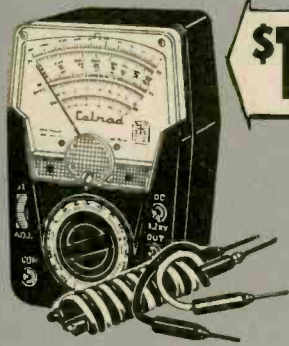
For the Ham, Hobbyist or Hi-Fi enthusiast. With just "out of the pocket money" you can have a dependable tester to make "on the spot" tests.

New engineering ideas have conceived a rotary switching arrangement to speed up testing. The new meter is rugged, highly accurate full view type with clean easy to read scale indicating good or bad tubes. Housed in durable leatherette case, size 9x10 3/8 x 4". Operates on 115-125 volt AC. Shpg. wt. 6 lbs. Complete with instructions and tube chart.

No. 35B342. Each \$27.95

MULTI-RANGE VOLT-OHM-MA CIRCUIT TESTERS

AT LOW, LOW PRICES EVERY EXPERIMENTER, STUDENT, HOBBYIST, SERVICEMAN CAN AFFORD

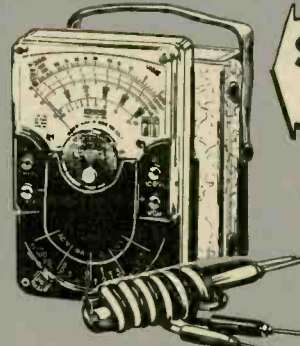


\$19⁹⁵ ①

\$16⁹⁵ ②

① SUPER SENSITIVE MULTIMETER
New eye-appealing design, compact size, full view type meter, clear uncomplicated scales, easy to read for greater accuracy. Compares with meters selling for more than double our low price.
30,000 ohm per volt model. 22 Ranges: DC volts 0 to 3, 12, 60, 300, 600, 1200; AC volts 0 to 6, 30, 120, 1200. DC current 0-30 ua, 3 MA and 300 MA. Ohms up to 16 meg. in 4 ranges with expanded low end scale, 100 ohms at center. Decibels -20 db to +63 db in 5 ranges. Has knife-edge pointer, clear uncluttered scales, recessed flush type range selector, ohms adjust and four meter jacks. Overall size 5" H. x 3 3/8" maximum width and 1 1/2" D. Wt. 3 1/2 lbs. Complete with test leads and batteries.
No. 35B568. Big Import Value, Each \$19.95

② HIGH SENSITIVITY MULTI-TESTER
20,000 ohms per volt DC, 10,000 ohms per volt AC. High sensitivity and wide choice of ranges. DC volts ranges: 0-6, 0-30, 0-120, 0-600 and 0-1200 volts; AC volts ranges: 0-6, 0-30, 0-120, 0-600 and 0-1200 volts. DC current ranges 0-60 microamps, 0-1.2 MA, 0-12 MA, 0-300 MA; Resistance ranges of 0-10,000 ohms, 0-100,000 ohms, 0-1 meg. and 0-10 meg; Decibels -20 to +17 db. Has ohmmeter zero adjust, rotary range switch, all bakelite case, large 3" meter face. Size 6 1/4 x 4 1/8 x 2". With test leads, self-contained battery and instructions. Shpg. wt. 3 lbs.
No. 35A575. Top Quality Import, Each \$16.95



\$17⁹⁵ ③

\$6⁹⁵ ④

③ POCKET-SIZE MULTIMETER
Built-in overload protection circuit—Burnout Proof!
20,000 ohms per volt DC. Pocket multimeter designed for accuracy in the field or on the technician's bench. Easy-to-read heavy black numbers carefully scaled for quick, exact reading. Crystal clear high impact plastic front takes rough treatment and gives full scale view. Popular swinging-lever range-selector allows easy selection of ranges. DC volts ranges: 0-5-25-100-500-1000. AC volts ranges: 0-5-25-100-500-1000. DC current ranges: 0-50 ua, 5 MA, 50 MA, 500 MA. Ohms: 0-6,000, 600,000; 6 Meg, 60 Meg. Expanded low end scale. Decibels: -20 db to +62 db (5 ranges). Size, 4 3/4" H. x 3" W. x 1 1/4" D. Heavy duty bakelite case, precision 250 ua D'Arsonval movement, pin jacks. With batteries, test leads, leather case, instruction manual.
No. 35B569. Shpg. wt. 2 lbs. Giant Import Savings. Each \$17.95

④ MIDGET POCKET TESTER
1,000 ohms per volt. A complete multi-tester at less than the usual price of just the meter alone. Clearly readable and accurate. Reads AC or DC volts in 3 ranges of 0-15, 0-150 and 0-1,000 volts; DC current 0-150 MA; Resistance 0-100,000 ohms. Has convenient thumb-operated ohms zero adjust and pin jacks for all 5 ranges. 1% precision resistors assure accuracy. Bakelite case 4x2 1/4 x 1 3/8". Test leads, self-contained battery and instructions included. Shpg. wt. 1 lb.
No. 35A573. Quality Import, Each \$6.95

NEW COMBINATION SIGNAL GENERATOR & SIGNAL TRACER

\$\$\$ IN SAVINGS FACTORY-FRESH FIRST QUALITY RECEIVING TUBES



TWO TESTERS FOR
THE PRICE OF ONE

ALL
AMERICAN MADE
\$28⁴⁰

READY-TO-USE
complete with
all probes

Guaranteed One Year
Return to B-A for re-
pair or replacement at
our option.

SIGNAL GENERATOR

- Covers from 250 KC to 120 MC in 5 bands.
- All popular and most used frequencies marked on panel in color.
- Attenuator used on both R.F. and Audio circuits.
- High stability electron coupled R.F. oscillator.

SIGNAL TRACER

- Hi-gain cascode pre-amplifier.
- Pre-amplifier output available at front panel jacks for use with VTVM, oscilloscope or phones.
- Low distortion triode output stage.
- Audio Attenuator provided to prevent hi signal overloading.
- 4 1/2 inch permanent magnet-speaker.
- Separate R.F. and Audio signal tracing probes.

EACH SECTION MAY BE USED SEPARATELY OR TOGETHER

Generator section serves as a full service instrument with range from 250 KC to 120 MC. Signal Tracer section will follow any signal from a test station or injected by signal generator section. Locates trouble in AM and FM radio or TV circuits by signal tracing methods. A compact unit. Size 7 1/2 x 9 1/2 x 5 3/4". Wt. 9 1/2 lbs. No. 35B183. Complete Ready to Use. **\$28.40**

7 SIGNAL GENERATORS IN ONE

SAVES THE PRICE OF
SEVERAL INSTRUMENTS



VERSATILE
ALL-INCLUSIVE
INSTRUMENT

\$38⁵⁰

COMPLETE
READY-TO-USE

PROVIDES ALL
OUTPUTS NEEDED
FOR SERVICING

- AM and FM Radio
- Amplifiers
- Black and White TV
- Color TV

AMERICAN MADE

R. F. AND F. M. SIGNAL GENERATOR: Complete coverage for AM and FM alignment. Frequency 250 KC to 45 MC on fundamentals and up to 120 MC on powerful harmonics.

CROSS HATCH GENERATOR: Stable vertical and horizontal interlaced cross-hatch pattern for TV adjustment.

BAR GENERATOR: Produces bar pattern on TV screen, consisting of 4 to 16 horizontal and 7 to 20 vertical bars.

DOT PATTERN: (For color TV) This feature is a must for adjusting proper color convergence of color TV receivers.

MARKER GENERATOR: Provides all the most needed marker points, 262 KC, 456 KC, 600 KC, 1000 KC, 1600 KC, 2500 KC, 3579 KC (color burst frequency), 4.5 MC and 10.7 MC.

VARIABLE AUDIO FREQUENCY: In addition to 400 cycle fixed output there is a variable audio frequency range from 300 to 20,000 cycles. Cabinet size 10x8 1/2x4 3/4". Wt. 10 lbs.

Accurate Model 156 Genometer
No. 35B401. Complete Ready to use. **\$38.50**

ALLIGATOR CLIP LEADS

Bundle of ten always needed flexible plastic insulated 15" jumper cords with spring alligator clip and insulator on each end. Made up, ready for use in 5 assorted colors.

No. 17B566. Per Bundle. **\$1.39**



EVERY TUBE
IS AMERICAN
MADE AND
BRANDED ON
BOTH TUBE
AND CARTON



FULL YEAR
WARRANTY

MINIMUM ORDER 10 TUBES ... One Type or Assorted

Stock No.	Tube Type	Optional List	Net Each	Stock No.	Tube Type	Optional List	Net Each
27A82	OZ4	\$2.40	\$0.99	27A97	6D06B	\$4.20	\$1.73
27A1	1B3GT/1G3GT	2.75	1.13	27A189	6DT6A	2.05	.84
27B3	1V2	2.20	.90	27B17	6DW4B	3.50	1.44
27A5	1X2B	2.90	1.20	27A166	6EA8	3.00	1.24
27B4	2AV2	2.20	.90	27A190	6EB8	4.40	1.72
27A116	2CY5	3.30	1.35	27A191	6EM7	4.80	1.97
27A173	3A3	3.20	1.31	27A192	6EW6	2.35	.97
27A159	3BZ6	2.15	.88	27B21	6GF7	4.85	2.00
27A106	3CB6	2.15	.88	27B135	6GH8A	3.20	1.31
27B7	3DG4	4.10	1.69	27B22	6GK5	3.85	1.59
27A9	5U4GB	2.10	.86	27B27	6GM6	3.75	1.13
27A107	5U8	3.10	1.28	27B30	6GU7	2.20	1.31
27A11	5Y3GT	1.75	.72	27B36	6GV6	2.60	1.02
27A14	6AF4A	3.75	1.54	27B41	6HZ6	2.75	1.13
27A19	6AL5	1.75	.72	27A37	6J6A	2.65	1.09
27A102	6AN8A	3.75	1.54	27B42	6J6C	3.75	1.54
27A20	6AQ5A	2.25	.92	27B43	6JE6A	8.50	3.50
27A108	6AU4GTA	3.40	1.40	27B44	6KA8	4.25	1.75
27B12	6AU5GT	4.65	1.91	27B47	6KZ8	3.40	1.40
27A23	6AU6A	1.95	.80	27A39	6L6GC	4.55	1.87
27A24	6AV6	1.60	.66	27A40	6S4A	2.35	.97
27A109	6AW8A	3.60	1.48	27A46	6SN7GTB	2.70	1.11
27A25	6AX4GT	2.50	1.03	27A48	6T8A	3.35	1.38
27B13	6AY3	2.90	1.20	27A49	6U8A	3.10	1.28
27A28	6BE6	2.40	.99	27A51	6V6GTA	2.40	.99
27A31	6BH6	2.75	1.13	27A86	6X8	3.00	1.24
27B15	6BK4B	7.55	3.11	27B56	8F07	2.35	.97
27A94	6BK7B	3.55	1.46	27A193	10DE7	3.50	1.44
27A177	6BQ5	2.65	1.09	27A57	12AT7	2.85	1.18
27A32	6BQ6GTB	4.10	1.69	27A58	12AU7A	2.35	.97
27A83	6BQ7A	3.75	1.54	27A59	12AV6	1.60	.66
27A183	6B8	3.40	1.40	27A60	12AX4GTB	2.55	1.05
27A110	6BZ6	2.10	.86	27A61	12AX7A	2.40	.99
27A98	6BZ7	3.75	1.54	27A62	12BA6	1.60	.66
27A34	6CB6A	2.10	.86	27A64	12BE6	1.95	.80
27A35	6CD6GA	5.50	2.27	27A65	12BH7A	2.90	1.20
27A111	6CG7	2.35	.97	27A66	12BY7A	3.05	1.26
27A141	6CG8A	3.10	1.28	27A169	12D06B	4.25	1.75
27A143	6CM7	2.75	1.13	27A194	17D06B	3.95	1.63
27A165	6DE6	2.40	.99	27A75	35C5	2.10	.86
27B16	6DG6GT	3.55	1.46	27A77	35W4	1.25	.51
27A187	6DQ5	7.85	3.24	27A80	50C5	2.20	.90

SEE PAGE 67 FOR MORE RCA TUBES

PRECISION MULTIMETERS

CHECK THESE FEATURES

- Small size—Only 3 1/4" wide.
- 3 1/2" Easy Reading Scales.
- Sensitive Meters.
- Expanded low ohm scales.
- Recessed Zero adjust and selector switches.

TOP PERFORMANCE IMPORT



4000 Ohms Per Volt DC Sensitivity. DC volts ranges 0-5-25-125-500-2500. AC volts ranges 0-10-50-250-1000 (2000 ohms per volt AC). DC current 0-250 uA, 0-250 MA. Resistance 0-10,000 and 0-1 meg. Decibel range —20 to +20. Uses 250 uA D'Arsonval meter movement. Molded black plastic case 4 1/2" H. x 3 1/4" W. x 1" deep. With test leads, instructions and battery. **\$9.95**

20,000 Ohms Per Volt DC Sensitivity. DC volts ranges 0-5-25-125-500-2500. AC volts ranges 0-10-50-250-1000. DC current 0-50 uA, 0-250 MA. Resistance 0-10,000 and 0-1 meg. Decibel —20 to +22. Features 50 microamp D'Arsonval meter movement and precision resistors throughout. Readability is superior on all scales making this an excellent instrument for servicing transistor equipment. Molded black case 4 1/2" H. x 3 1/4" W. x 1" deep. With test leads, instructions and battery. Shpg. wt. 2 lbs. **\$12.95**

Precision Laboratory Accuracy. 30,000 Ohms Per Volt DC Sensitivity. 15,000 ohms per volt AC sensitivity. DC volts ranges 0-5-25-50-250-500-2500. AC volts ranges 0-10-50-100-500-1000. DC current 0-50 uA, 0-2.5 MA, 0-250 MA. Resistance 0-60K and 0-6 meg. Decibel range —20 to +22. Features 30 microamp D'Arsonval meter movement and 1% precision resistors throughout. Maximum readability makes this instrument ideal for servicing transistor equipment. Molded black case 5 1/2" H. x 3 1/2" W. x 1 3/4" D. With test leads, instructions and battery. Shpg. wt. 2 lbs. **\$15.95**

No. 35A617. Special Each. **\$15.95**



Guaranteed for Life

NEW B-A ANTIMAGNETIC 17 JEWELLED WRISTWATCH

B-A Guarantees to repair the watch for life of original purchaser as long as simple preventative maintenance as prescribed on instruction sheet enclosed with watch is adhered to. Simply return watch to B-A for repair. This, however, excludes damage due to accidents or negligence.

***100% WATER PROOF**

\$19⁹⁵

DESIGNED AND ENGINEERED ESPECIALLY FOR THOSE WORKING AROUND ELECTRONICS EQUIPMENT

This 17 Ruby jeweled watch is protected by a solid stainless steel case. Extra strong expansion band is also made of solid stainless steel. Both the case and band carry a life-time guarantee against pitting or corrosion. Expansion band carries a three year unconditional warranty against breakage. Especially engineered for the electronics technician. Anti-magnetic movement enables it to be worn even when working on high voltage TV repair jobs. Precision balance unit is protected against physical shock. Easy to read dial is luminous . . . can be read in total darkness. Big sweep second hand is always visible. 17 Ruby jeweled movement assures accuracy, provides excellent service for many, many years. Is especially designed and sealed against dust and moisture to minimize cleaning and service maintenance requirements. Extreme dependability is engineered into the genuine Incabloc movement.

No. 60B108. Net Each. **\$19.95**

*Watch guaranteed waterproof as long as case, crown and crystal intact.

4-TRANSISTOR HEARING AIDS

COMPARE WITH OTHER FIRST QUALITY INSTRUMENTS SELLING FOR UP TO \$195.00



B-A'S AMAZING LOW, LOW PRICE

\$29⁹⁵

COMPLETE WITH PENLITE BATTERY, EARPHONE CARRYING CASE

Fine quality imported instrument puts good hearing economically within reach of everyone. Operates on just one tiny penlight battery. Requires no special fittings—3 earphone insert sizes included. Skin-toned earpiece, tiny and lightweight, provides wide range, clearest sound. Tiny, only 3x2x3/4", though powerful transistor power unit instantly and easily adjustable to users special needs with 2 position tone and 10 position loudness control. Has pocket clip. Uses extra dependable magnetic microphone. Telephone switch for phone conversations without external sound annoyances. In Sheepskin carrying case. Satisfaction guaranteed or money back if returned within 15 days of purchase. No. 60A47. Each. **\$29.95**

HANDSOME WEATHER INSTRUMENT TRIO

• Thermometer • Barometer • Humidity Meter

UNBELIEVABLY LOW-PRICED . . . FINE QUALITY AMERICAN MADE INSTRUMENTS ON BEAUTIFUL WOOD GRAINED PANEL FOR WALL **\$8⁹⁵**



Precision made with accurately etched aluminum dials. Equipped with individual adjustments. Constructed like ship's instruments, right down to the warm glow of polished brass, simulated by a heavily metalized finish which retains its beautiful lustre indefinitely. Instruments are 2 7/8" dia. Panel 15 1/2 x 5 3/4". Shpg. wt. 2 lbs. No. 11A939. Net Each. **\$8.95**

METERS ROTATE FOR VERTICAL MOUNTING

SENSATIONAL TAPE TOOL

MAKES PERMANENT 1/4, 3/8 OR 1/2 INCH WIDE SELF-STICKING EMBOSSED PLASTIC LABELS



\$4⁹⁷

COMPLETE WITH ROLL OF TAPE

IDENTIFIES, ORGANIZES, PERSONALIZES . . . ANYTHING, ANYWHERE . . . INDOORS OR OUT!

Prints large easy to read raised letters instantly . . . so simply operated anyone can use it. Just dial letters, numerals or symbols—squeeze handle and your message comes out crisp white against a colored background. Full-view feature allows you to see each letter as it is printed. A squeeze of the trigger cuts off finished label leaving double-cut tab for easy removal of protective adhesive backing. Tool built of tough, durable plastic. Complete with one roll of tape. Shpg. wt. 1 lb. No. 47B99. Each. **\$4.97**

3/8-INCH WIDE PLASTIC TAPE FOR ABOVE TOOL

Adhesive backed pressure sensitive tape, 12 ft. x 3/8" wide per roll. Specify color: Black, Red, Green, Brown or Blue. No. 47B100. Per Roll. **89c**

TRANSISTOR INTERCOM

NEW LOW COST!



\$9⁹⁵

Amazing high quality at a fantastic low price! Three transistor intercom outperforms others in this price class. High gain push-pull audio circuit assures excellent sensitivity and clarity of voice. Master monitors remote location at all times making it ideal for baby's room, to hear children at play, etc. Use remote's press-to-talk switch to buzz Master when units are turned off. Ivory finished cabinets only 3x4x2". 50-feet of 2-conductor cable supplied with plugs for instant installation. Requires one 9-volt battery (Eveready 216). Shpg. wt. 2 lbs. No. 36A196. Special Each. **\$9.95**
No. 21B141. Eveready 216 Battery. Each. **48c**



SAVE EXTRA \$\$\$ BY THE FISTFULL WITH THESE... BARGAINS THAT YOU'LL FIND ONLY AT B-A!

Every item on the following pages is an unmatched \$\$\$ Saving Buy—all are Top Quality, Brand New, Fully Guaranteed! B-A's 40 year famous reputation for value, for honest, dependable and friendly dealings protects your every purchase. If you are not completely satisfied return for exchange or your money-back.

DON'T WAIT! CHECK EVERY ITEM! ORDER TODAY!

EXCITING NEW TRANSISTOR MODULES



AS LOW AS
\$1.99

COMPLETELY ENCAPSULATED AS SMALL AS AN ICE CUBE!

FULL INSTRUCTIONS & DIAGRAMS INCLUDED FOR SIMPLE USE!

Each module is a small ready to use molded capsule containing a completely wired circuit of transistors, resistors, capacitors, and other parts. Most modules require only 2 or 3 items (battery, mike, speaker, etc.) to complete each device. All electronic hobbyists will enjoy building many useful projects with these fascinating new inexpensive solid state modules.

DUAL FLASHER (FLIP-FLOP) MODULE

Build auto road warning lights, window display attention getters, model train grade crossing flasher, bicycle rear wheel safety flasher, etc.
No. 41A47. Special Each... **\$1.99**

METRONOME MODULE

Makes a dependable metronome on fraction of usual price. Adjusts 40 to 208 beats. Requires 2 Meg. Pot., 6 V. battery and speaker.
No. 41A88. Special Each... **\$1.99**

PHONO AMPLIFIER MODULE

By connecting only four leads to an 8 ohm PM speaker, 6 volt battery and phono pickup you have an excellent phono amplifier. Provides far above average volume.
No. 41B44. Special Each... **\$3.49**

INTERCOM MODULE

Ready for instant use... just connect to two speakers, battery and switch. Provides a complete system.
No. 41A133. Special Each... **\$3.49**

PUBLIC ADDRESS AMPLIFIER MODULE

High gain for use with high or low impedance, crystal or dynamic mike. Drives any size PM speaker or trumpet. Operates on 6 volt battery.
No. 41A134. Special Each... **\$3.49**

BABY NURSE MODULE

Ultra sensitive for listening in on baby's every move and sound. Connect two speakers and 6 volt battery for operation.
No. 41A135. Special Each... **\$3.49**

TELEPHONE AMPLIFIER MODULE

Simply connect to any PM speaker, 6 volt battery and telephone pick-up coil (see No. 17B257 on page 49). Amplifies telephone conversation for group listening.
No. 41A136. Special Each... **\$3.49**

GUITAR AMPLIFIER MODULE

Combine with contact microphone (see No. 22C239 on page 49, any PM speaker and 6 volt battery for concert quality, auditorium volume guitar amplification.
No. 41A137. Special Each... **\$3.49**

POLICE SIREN MODULE

Produces high level upward scream and downward wail. Drive any 8 ohm speaker. For use with 6 volt battery. Complete instructions.
No. 41A3. Special Each... **\$3.49**

CB MICROPHONE PREAMP MODULE

Ready to use preamp. Increases modulation to optimum for dependable transmissions. Use any 1 1/2 volt battery.
No. 41A152. Special Each... **\$3.50**

BURGLAR ALARM MODULE

For use in home, place of business or automobile. Automatically sounds a siren alarm when window or door is opened. For use with 6 volt battery and 8 ohm speaker. Complete instructions.
No. 41A5. Special Each... **\$3.49**

MODEL RAILROAD, RACING CAR OR TOY SIREN
Adds siren wail at will to toy train, etc. For use with a small 8 ohm speaker and 6 volt battery. Will not antagonize neighbors.
No. 41A6. Complete instructions. Special Each... **\$3.49**

B-A's WIRELESS BROADCASTER KIT

BROADCASTS OVER ANY RADIO WITHIN 75 FT.

Wireless transmitter is a complete radio station. Broadcasts from any place in the house into any AM broadcast band radio. A terrific kit, fun to build, provides hours of excitement when completed. New module makes construction easy and compact. Module, lapel mike all necessary parts and instructions supplied.

No. 18B260. Special Each... **\$5.95**
No. 21B141. Battery. Each... **48c**

COMPLETE
\$5.95

BUILDS A COMPLETE RADIO STATION



"ELECTRONIC EAR" LISTENING KIT

Super sensitive snoopie mike uses 4" speaker as microphone for sound pickup hundreds of feet away using ordinary 2 conductor twisted pair wire. Big advantage over ordinary microphones. Gives unusually high sensitivity and excellent clarity needed for all sorts of listening jobs. Speaker mike may be mounted in your own enclosure or suspended in a home made parabolic sound reflector. Special transformer matches speaker to amplifier module. Speaker mike, transformer, module, volume control, earphone and instructions supplied.

No. 18C261. Special Per Kit... **\$6.95**
No. 21B89. 6 Volt Battery for above... **85c**
No. 2C192. Twisted Pair Wire. 100 Ft. For... **99c**

NEW WIRELESS MODULES

ACTUALLY MINIATURE TRANSMITTERS, PLAY THRU FM-AM RADIOS WIRELESS CODE OSCILLATOR MODULE

Will transmit code signals up to several hundred feet to your radio... connects to a telegraph key and a 9 volt transistor battery.
No. 41A147. For AM Radios. Each... **\$3.50**

WIRELESS MICROPHONE TRANSMITTER MODULE

Connects to any high impedance microphone and 9 volt transistor battery. Will transmit your voice up to several hundred feet into your radio.
No. 41A150. For AM Radios. YOUR CHOICE... **\$3.50**
No. 41A155. For FM Radios. EACH... **\$3.50**
41A156. As above except for low impedance mike. For FM Radios... **\$3.50**

WIRELESS TELEPHONE AMPLIFIER MODULE

Will transmit both sides of a telephone conversation (without wires) into nearby radio. Connect to telephone pickup coil and 9 volt transistor battery.
No. 41A151. For AM Radios. YOUR CHOICE... **\$3.50**
No. 41A159. For FM Radios. EACH... **\$3.50**

WIRELESS PHONOGRAPH OSCILLATOR MODULE

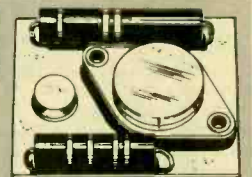
Connects to crystal or ceramic cartridge in phonograph tone arm and 9 volt transistor battery, will transmit across a large room into your radio.
No. 41A148. For AM Radios. YOUR CHOICE... **\$3.50**
No. 41A153. For FM Radios. EACH... **\$3.50**
41A154. As above except for magnetic cartridge. For FM Radios... **\$3.50**

WIRELESS GUITAR AMPLIFIER MODULE

Will transmit guitar into nearby radio with no cables. Connect to crystal guitar pickup and 9 volt transistor battery.
No. 41A149. For AM Radios. YOUR CHOICE... **\$3.50**
No. 41A157. For FM Radios. EACH... **\$3.50**

CODE PRACTICE OSCILLATOR MODULE

98c



Operates from any 1 1/2 to 6 volt battery and any PM speaker. Only three connections to make. Requires no adjustment. Anyone can assemble this highly satisfactory oscillator from the instructions supplied with each module.
No. 41B43. Each... **98c**

COMPLETE CODE PRACTICE KIT

Easy to build. Includes code module, fine quality import key, speaker, battery holder, batteries and instructions. Easily mounted on wood base (not supplied). Wt. 1 lb.
No. 29B118. Special Each... **\$2.95**

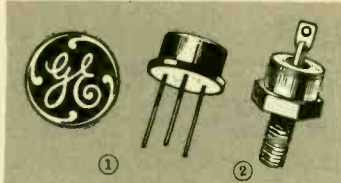
YOU SAVE \$\$\$ ON THESE SPECIAL BARGAINS

MINIATURE COMPONENTS

ALL ARE
BRAND NEW!
FULLY GUARANTEED!

GE SEMICONDUCTORS

Circuit diagrams for building many electronic devices are included.



① General Purpose Transistor 2N107. Diffused junction hermetically sealed general purpose type. For low frequency applications such as radio amplifier, pre-amps, mike circuits etc. Freq. range to 1 MC. Base amp. factor of 20. No. 20B51. Each..... **59c**

② GE-X4 20 Amp 200 Volt Rectifier. Equivalent to GE-A40B. Conventional silicon rectifier used in DC power supplies, battery chargers and in conjunction with controlled rectifiers for motor speed controls, light dimmers, etc. No. 41A45. Net Each..... **\$1.60**

GE Hobby Manual. Engineers, amateurs, hobbyists and students can learn latest transistor, semiconductor and tube theory. Many new circuits are illustrated and easily built. 199 pages. No. 25B97. Each..... **\$1.50**

GE Transistor Book. Larger than previous editions featuring a greatly expanded application section. Full of interesting transistor circuits—radios, amplifiers, oscillators, etc. Valuable info throughout. No. 25A233. 7th Edition..... **\$2.00**

INVALUABLE RCA TRANSISTOR MANUAL



\$1.50

Including Silicon Rectifiers and Diodes. Technical data on over 300 transistors. 70 pages devoted entirely to transistor applications. More than 40 transistor circuits including stereo amplifiers, complete hi-fi system, AM/FM tuner and short wave receiver showing parts list for assembly. 480 pages. No. 16B429. Each..... **\$1.50**

Hoffman ELECTRONICS HOBBYISTS SEMI-CONDUCTOR ASSORTMENT

Contains 11 selected Hoffman semi-conductors and solar cell to build...
● Voltage Regulators. ● Clippers
● Rectifier circuits. ● Modulators.
● Oscillator circuits. ● Amplifiers.
● Battery testers. ● Tachometers.
● Cathode biasing circuits. ● Threshold detectors.
● Photoelectric Relays.

Project booklet containing the above circuits included. No. 17A73. Complete Assortment..... **\$2.98**

PACKAGE SEMICONDUCTORS AT TERRIFIC SAVINGS

PACKAGE OF 10

GENERAL PURPOSE GERMANIUM DIODES
Equivalent to 1N34, 1N34A, 1N60, 1N64, 1N87A used for transistor radio, crystal sets, frequency measuring, etc. No. 18B81.



PACKAGE OF 4

PNP GENERAL PURPOSE AUDIO TRANSISTORS
Similar to N107-CK722 for preamps, mike and phono circuits. No. 41A29.



PACKAGE OF 2

PNP RF TRANSISTORS

For high frequency applications. Designed for citizens band, model radio control and other applications in 27 MC frequency range.



No. 41B37.

PNP AUDIO TRANSISTOR



39c
Each, 10 Lots

Diagram Included for Building A Code Practice Oscillator

For building code practice oscillators and various other small signal devices. No. 20A14. Net Each... **49c** 10 Lots, **39c** Each...



49c

BIG SAVING!

Interchangeable with GE. No. 18C83. Special Ea... **49c** Each... **44c**

POPULAR 3-CONTACT TRANSISTOR SOCKET



12c
Each, 10 Lots

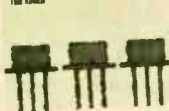
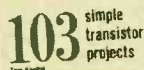
SPECIAL IMPORT VALUE

Popular bakelite 4-prong type for triangular base or in-line style transistor. Special import value.

No. 17D487. Special Ea... **14c** Each... **12c**

As above less flange. No. 17B170. Special Each... **10c** 10 Lots, **8c** Each...

103 SIMPLE TRANSISTOR PROJECTS

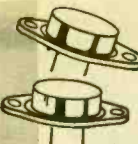


By Rider. Scores of fascinating circuit devices using transistors and semiconductors. Easy and fun for hobbyists, hams and students. 128 pages, illus. 16B27. **\$2.89** Each...

YOUR CHOICE

88c

10 ASSORTMENTS 79c EACH



PACKAGE OF 2

10 WATT POWER TRANSISTOR PNP
Similar to 2N155, 2N176 and 2N235. No. 41A31.

PACKAGE OF 2

500 MILLIAMP GOLD PLATED MINIATURE SILICON RECTIFIER 400 PIV
Replaces most rectifiers in TV and radios. No. 41A36.

PACKAGE OF 2

SILICON NPN TRANSISTORS FOR VERY HIGH FREQUENCY
Use for VHF applications up to several hundred megacycles. No. 41B28.

40 WATT POWER TRANSISTOR



Stud mounted, equivalent to type 2N173. Just it for power supplies regulators. Audio output and auto replacement. No. 41A32. Terrific Value!

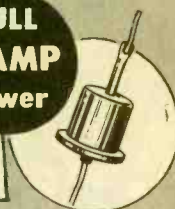
RAYTHEON 2 AMP 800 PIV SILICON POWER RECTIFIER



Extra high voltage... just right for that high voltage power supply. Compares with units at 5 times our price.

No. 18B111.

HIGH CURRENT TOP HAT FULL SILICON RECTIFIERS 1 AMP Power AT A FRACTION OF USUAL COST! AS LOW AS 69c

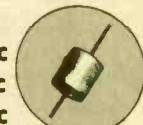


Guaranteed first quality, made by General Instrument. Just the ticket for high voltage power supplies in ham gear, TV sets, etc. 1 1/2" axial wire leads. Buy plenty while they last at B-A's special purchase prices.

1 Amp 400 PIV	No. 18B131. Special Each.....	69c	10 Lots	59c
1 Amp 700 PIV	No. 18B133. Special Each.....	89c	10 Lots	75c
1 Amp 1000 PIV	No. 18B134. Special Each.....	\$1.19	10 Lots	99c

EPOXY TYPES

1 Amp 400 PIV	No. 18C136. Special Each.....	59c	10 Lots	50c
1 Amp 700 PIV	No. 18C137. Special Each.....	79c	10 Lots	69c
1 Amp 1000 PIV	No. 18C138. Special Each.....	99c	10 Lots	85c



HIGH POWER 25 AMP 100 PIV SILICON RECTIFIER



69c

Needed for DC power supplies, chargers, etc. Standard 1/4"-20 stud mounting. Hex case 1 1/4" diameter. Choice Each **69c**
No. 41B34—Negative Ground
No. 41B35—Positive Ground

SUB-MINIATURE IN34A DIODE

Latest sub-miniature glass type. Shown actual size. Has 1 3/8" axial leads.

18A15. 25-99, **24c** 100 **21c** Each... **19c**

SYLVANIA IN34A GERMANIUM CRYSTAL DIODE

Most popular general application type diode. 1/4" dia. x 3/8" long. Glass enclosed with 1 1/8" and 1/4" axial leads. Wire-in or use diode clip.

No. 18A71. Special Each..... **19c** 10 Lots, **15c** Each...

SENSITIVE LIGHT ACTUATED SWITCH

\$1.98

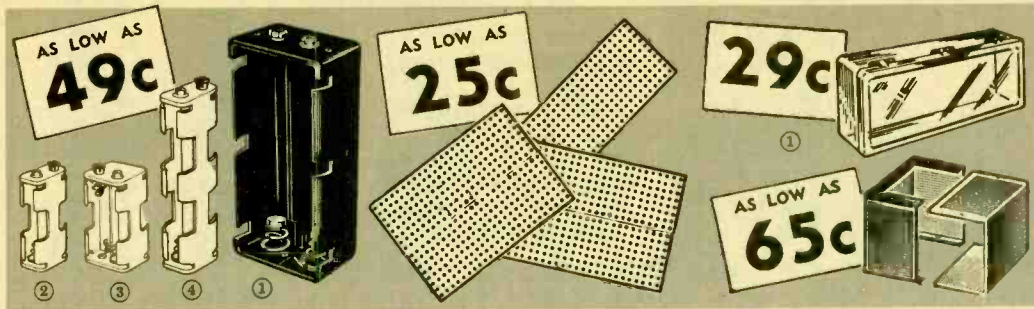


INCLUDES 10 DIAGRAMS FOR BUILDING

- Voice Photophone Transmitter.
- Voice Photophone Receiver.
- Talking Light Beam Transceiver.
- Photo Electronic Relay.
- Garage Door Opener.
- Model Car Control.

A highly interesting Germanium Photo Power Transistor, which requires only a 6 V. battery to operate relays, motors, etc. Regular two cell flashlight will "trigger" this device. Mounts 1/4" centers over all dia. 1".
41A25 **\$1.98** Each...

MOUNTING DEVICES FOR TRANSISTOR CIRCUITRY



YOU SAVE \$\$\$ ON THESE SPECIAL BARGAINS

MINIATURE COMPONENTS

ALL ARE BRAND NEW! FULLY GUARANTEED!

BATTERY HOLDERS

Same as used in most transistor portables. Has standard snap-on battery connectors. Sturdy plastic construction.

- ① Holds 4 "D" Cells. **\$1.49**
No. 14A60. Each
 - ② Holds 2 "AA" Cells. **49c**
No. 14A61. Each
 - ③ Holds 4 "AA" Cells. **59c**
No. 14C64. Each
 - ④ Holds 4 "AA" Cells. **59c**
No. 14C65. Each
- Set of Male and Female Snap-On Fasteners.
No. 12A1341. Per Set. **9c**

PERFORATED BOARDS

Quick, convenient way for assembling transistor circuits. Top quality pre-punched boards. Unclad bakelite for wired circuits; copper-clad for printed circuitry. $\frac{7}{8}$ " thick. $\frac{1}{8}$ " dia. holes $\frac{1}{8}$ " between centers.

- UNCLAD BOARDS**
- No. 29B307. $2\frac{7}{8} \times 3\frac{3}{8}$ ". **25c**
Each
 - No. 29B308. $3\frac{1}{4} \times 6\frac{3}{4}$ ". Each **45c**
 - No. 29B309. $7\frac{1}{8} \times 6\frac{3}{4}$ ". Each **.75c**
 - No. 29B310. $10\frac{1}{2} \times 7\frac{1}{8}$ ". Each **\$1.20**
- COPPER CLAD BOARDS**
- No. 29B311. $3\frac{1}{4} \times 6\frac{3}{4}$ ". Each **.70c**
 - No. 29B312. $7\frac{1}{8} \times 6\frac{3}{4}$ ". Each **\$1.60**
 - 29B100. $\frac{1}{8}$ " dia. clips. 100 For **\$1.75**

CLEAR PLASTIC CASES

- ① All with hinged lids.
- No. 17B482. $4\frac{3}{4} \times 2\frac{5}{8} \times 1"$ D. **29c**
Net Each
- 18A1268. $6\frac{7}{8} \times 3\frac{3}{8} \times 1\frac{1}{8}"$ D. **39c**
Net Each
- No. 11A965. $8\frac{3}{4} \times 4\frac{1}{8} \times 1\frac{1}{4}"$ D. **49c**
Net Each

ALUMINUM MINIBOXES

- ② Natural aluminum finish.
- 20C558. $2\frac{3}{4} \times 2\frac{1}{4} \times 1\frac{1}{8}"$ W. Ea. **.65c**
- 20C565. $4 \times 2\frac{1}{4} \times 2\frac{1}{4}"$ W. Ea. **.80c**
- 20C567. $5 \times 4 \times 3"$ W. Ea. **\$1.05**
- 5A271. $6 \times 5 \times 4"$ W. Ea. **\$1.30**

DYNAMIC EARSET

\$1.19

MIN. PLUG AND JACK

Lightweight, high quality imported headsets. 3 ft. cord, plug, jack.

- 17A349. 2000 Ohm.
- 17A337. 15 Ohm. **\$1.19**

CHOICE, EACH

CRYSTAL EARPHONE

Extra sensitive high - power high impedance. 3 ft. cord. Import

59c

No. 17A247 **59c**

MINIATURE TRANSISTOR AUDIO TRANSFORMERS

89c

Tiny Size. Measures $\frac{3}{4} \times \frac{3}{8} \times \frac{3}{8}"$. For amplifier and radio circuits using the standard types of transistors such as listed on opposite page. Highest quality import.

- No. 17C659. Input. Pri. 20,000 ohms; sec. 1000 ohms.
 - No. 17C660. Driver. Pri. 10,000 ohms; sec. 2000 ohms C.T.
 - No. 17C661. Output. Pri. 500 ohms C.T.; sec. 3.2 ohms.
 - No. 17A634. Crystal Mike Input. Pri. 200,000 ohms; sec. 1000 ohms.
- Your Choice **89c**
Each

MINIATURE 9 VOLT BATTERY

9-VOLT Replacement Battery for Most Transistor Radios

25c
Each, 10 Lots

Top quality import replaces Burgess 2U6, RCA VS-312, Eveready 216, etc.

- No. 21A185. **29c** 10 @ **25c**

Net Each

SUB-MINIATURE PLUG

TOP VALUE IMPORT

39c

2-way. Mates jack at right. Solder terminals. Barrel size $1" \text{ L.} \times \frac{3}{8}" \text{ dia.}$

- No. 17C454—Red **Your Choice**
- No. 17B399—Black
- No. 17B475—All-Metal. Each **.39c**

10 Lots Ea. **.35c** 100 Lots Ea. **.33c**

SUB-MINIATURE JACK

REG. 24c EACH

15c

Closed circuit type. Mates with plug at left. Mounts in $\frac{1}{4}"$ hole in panels up to $\frac{1}{8}"$. Jack hole $\frac{1}{8}"$.

- No. 17B248. **15c** 10 Lots, **13c**

Special Each **15c** Each **13c**
100 Lots, Each **12c**

69c

Condenser 1-in. Square

① Miniature 365 Mmf. Variable With Dial

Only $1" \text{ square} \times \frac{1}{2}" \text{ deep}$. Close fitting clear plastic $\frac{1}{4}" \text{ dia.}$ dial with gold trim and numerals. Knurled edge for easy tuning.

- No. 17C407 **69c**

Special Net Each

49c

IMPORT SPECIAL

② Subminiature 455KC IF and Oscillator Coils

Only $\frac{3}{8}" \text{ sq.} \times \frac{1}{2}" \text{ H.}$ Slug tuned, printed circuit, mtg. fully shielded.

- No. 17A27. 1st IF **Import Spec.**
- No. 17A28. 2nd IF **Choice**
- No. 17A29. Oscillator **Each 49c**

59c

Quality Import

③ Super-Sensitive "Vari-Laapstick" Miniature Antenna

Powerful high-Q type tapped for transistor circuits. Tunes with 365 mmf. condenser. Size only $\frac{1}{8}" \text{ dia.} \times 2" \text{ long}$. Mounts in $\frac{1}{8}" \text{ hole}$.

- No. 17B335. **59c**

Net Each

NEEDED TRANSISTOR MOUNTING KITS

- ① "Diamond Shape" TO-3 Type. **30c**
No. 41A1. Special Each
- ② "Door Knob" TO-36 Type. **30c**
No. 41A2. Special Each

RECTIFIER MOUNTING KITS

Each set contains 6 pieces: insulating washers, solder lug lock washer and nut.

- For $\frac{1}{8}$ Hex Rectifier type DO-4, TO-64, R2 and R6. No. 41A161. **20c**
- Per Set for One Rectifier
- For $\frac{1}{16}$ Hex Rectifier type DO-5, TO-48 and R3. No. 41A162. **30c**
- Per Set for One Rectifier

Less Switch **49c** Each, 10 Lots

79c with Switch

SUB-MINIATURE VOLUME CONTROLS

- Only $\frac{3}{8}$ -inch diameter
- Precision American made

Just right for transistor and other sub-miniature circuits. $\frac{1}{8} \times 1"$ long shaft. Linear taper for volume and tone.

Ohms Resistance	LESS SWITCH		WITH SPST SWITCH	
	Stk. No.	Each	Stk. No.	Each 10 Lots Ea.
5000	14C300	59c	14C334	89c 79c
10,000	14C301	59c	14C335	89c 79c
50,000	14C302	59c		

No. 12B1205. KNOB for all above controls. Each **10c**

MINIATURE SPEAKERS FOR TRANSISTOR POCKET PORTABLES PERFECT FOR REPLACEMENT BUILDERS AND EXPERIMENTERS TOO!

99c

① Exact replacement for most pocket size portables. Also fine for all sorts of other miniature devices. Only 1 inch deep overall—frame and cone takes less than $\frac{1}{4}"$ behind panel. Mount by space saving clips. 8 ohm V.C. Top quality imports.

- No. 22A44—2" Round. No. 22A351—2 $\frac{1}{2}"$ Round
- No. 22A350—2 $\frac{1}{4}"$ Round. No. 22A45—2 $\frac{3}{4}"$ Round

Choice **99c** 10 Lots **89c**
Each

② REALLY TINY PM SPEAKER

Measures only $1\frac{1}{2}" \text{ dia.} \times 1" \text{ deep}$. Features amazing quality for its extreme small size. 3-8 ohm V.C. Precision import

- No. 17B543. Special Each **\$1.49**

\$1.29

TERRIFIC VALUE!

MINIATURE CRYSTAL MIKES

Only $1" \text{ dia.} \times \frac{3}{8}" \text{ deep}$ —perfect for concealed location uses. Also fine as replacement cartridge for regular crystal mikes. Extremely sensitive with good output. High impedance. Import made.

- No. 17D423. **\$1.29**

Special Each

- As above 2" diameter. **\$1.99**
- No. 17A24. Special Each

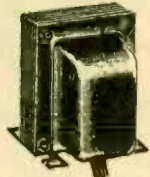
YOU SAVE \$\$\$ ON THESE SPECIAL BARGAINS

TRANSFORMERS AND CHOKES



ALL ARE
BRAND NEW!
FULLY GUARANTEED!

WHOPPING VALUES ON POWER TRANSFORMERS



AS LOW AS
\$5.99

POPULAR
UPRIGHT
MOUNTING

600 V. CT @ 90 MA. 6.3 V. @ 3 A.
5 V. @ 2 A. Size 2 7/8 x 3 1/4 x 3 1/4" H.
Wt. 3 3/4 lbs. Reg. net at least \$8.00.
No. 13A416. **\$5.99**
Special Each

800 V. CT @ 200 MA. 6.3 V. @ 5
A, 5 V. @ 3 A. Size 3 7/8 x 4 x 4 5/8" H.
Wt. 10 lbs. Reg. net value over
\$14.00
No. 13A162. Spec. Each **\$9.99**

EXTRA HEAVY DUTY 1310 V. CT 250 MA TRANSFORMER



\$9.95

REG. NET VALUE
OVER \$14.25

6.3 V. @ 4 A.; 5 V. @ 3 A. 115 V.
AC pri. Windings electrostatically
shielded. Size 4 3/8 x 3 7/8 x 4 3/8" H.
8 1/2 lbs.
No. 3D138. Special Each **\$9.95**

1500 V. CT 300 MA
6.3 V. @ 6 A.; 5 V. @ 3 A. 115 V.
AC pri. Windings electrostatically
shielded. Size 4 3/8 x 3 7/8 x 4 1/4" H.
9 1/2 lbs.
No. 3D140. Special Each **\$10.95**

COMPACT POWER TRANSFORMERS



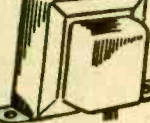
\$2.99

UNUSUAL B-A
SAVINGS

3 Secondaries—135 V. @ 110 MA,
125 V. @ 40 MA, 6.3 V. @ 2 A.
Popular upright mounting, fully shielded.
Primary 117 V. AC. Made for
GE to power a high quality tuner and
amplifier; finest ever for all sorts of
devices, receivers, bias supplies, etc.
2 1/2 x 2 7/8 x 3" H.
No. 13B114. Special Each **\$2.99**

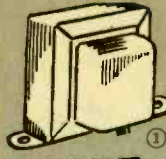
Secondaries—130 V. @ 120 MA, 6.3
V. CT @ 3.5 A. An exceptional trans-
former for modern silicon diode cir-
cuits. High power in small size, 2 1/8 x
3 x 2 5/8" H. Shpg. wt. 4 lbs. Size 2 1/4
x 2 3/4 x 3" H. Shpg. wt. 2 1/2 lbs.
No. 13A426. Special Each **\$3.59**

UNUSUAL FINE QUALITY MIDGET POWER TRANS. FULLY ENCASED HUM-FREE MAGNETIC SHIELDING



\$3.99

MIDGET POWERS FOR TRANSISTORS AND TUBES



AS LOW AS
\$1.49



AS LOW AS
\$1.39

① 130 V. @ 20 MA Sec. Separate
filament. 6.3 V. CT @ .6 A. Beautiful
chrome finished import. 1 3/8 x 1 3/8
x 2" H. Mtg. centers 2 1/4". Shpg. wt.
1/2 lb.
No. 17C568. **\$1.49** 10 @ **\$1.39**
Spec. Each

① 150 V. @ 50 MA Sec. Tapped for
filament 6.3 V. @ 1 amp. Size 1 3/8
x 1 3/4 x 2" H. Mtg. ctrs. 2". Shpg.
wt. 1/2 lb.
13A284. **\$1.75** 10 Lots, **\$1.59**
Special Ea. Each

① 300 V. CT @ 50 MA Sec. Separate
filament 6.3 V. @ 2 amp. Size 2 1/8
x 2" x 2" H. Mtg. ctrs. 2 1/8". Shpg.
wt. 1 1/2 lbs.
13A548. **\$2.19** 10 Lots, **\$1.99**
Special Ea. Each

① 115 V. @ 55 MA sec. Tapped for
filament 6.3 V. @ .25 A. 1 1/8 x 1 1/2 x
1 5/8" H. Shpg. wt. 1 lb.
No. 18D516. **\$1.39** 10 @ **\$1.29**
Spec. Each

① 120 V. @ 70 MA Sec. Isolated
center tapped filament 6.3 V. @ 2
amp. Size 2 1/8 x 2 1/2 x 2 1/4" H. Mtg.
ctrs. 3 1/8". Shpg. wt. 2 lbs.
13B476. **\$2.99** 10 Lots, **\$2.75**
Special Ea. Each

① 115V. @ 100 MA. Separate fila-
ment 6.3 V. CT @ 3.5 A. 2 3/8 x 3 1/8 x
2 5/8" H. Mtg. centers 3 5/8". Shpg. wt.
2 1/2 lbs.
No. 13A264. **\$2.99** 10 @ **\$2.80**
Spec. Each

MINIATURE VARIABLE POWER SUPPLY KIT

Power supply provides 0-12 V. DC @ 6 MA, 0-9 V. DC @ 10 MA. Contains
transformer, bridge rectifier, 2 condensers, potentiometer and diagram.
No. 3C128. **\$3.95**
Special Each

MATCHING MIDGET FILTER CHOKE



39c

A rare find, bargain priced. Perfect
match for use with transformers as
above rated to 30 MA. DC resistance
100 ohms. Only 1 x 3/4 x 3/4" with
1 1/8" mtg. ctrs.

No. 18A959 **39c** 10 Lots **33c**
Spec. Each

POWER TRANSFORMERS



AS LOW AS
\$5.99
TERRIFIC SAVINGS

740 V. CT @ 110 MA, 12.6 V. CT @
7 A, 6.3 V. CT @ 3.7 A, 5 V. @ 3 A.
Half shell mounting type. 4 1/2 x 3 3/4 x
2 3/4" above chassis. Wt. 8 1/2 lbs.
No. 13D159. **\$5.99**
Special Each

670 V. CT @ 180 MA, 12.6 V. CT @
7 A, 6.3 V. CT @ 3 A, 5 V. @ 3 A.
Half shell mounting type. 4 1/2 x 3 3/4 x
3" above chassis. Wt. 10 lbs.
No. 13A396. **\$7.99**
Special Each

FULLY ENCASED POWER TRANSFORMER



\$1.99

BIGGEST SAVING
EVER!

550 V. CT @ 30 MA. Drawn steel
case, wax impregnated extra well
shielded. For pre-amps, etc. requiring
low hum design. Two 6.3 V. Fil. @
0.5 A; One 6.3 V. @ 1.7 A. Size 2 1/4
x 2 3/4 x 3" H. Shpg. wt. 2 1/2 lbs.
No. 13A428. **\$1.99**
Special Each

① 5.5 HY., 50 MA. DC resistance 300 ohms. Strap mtg. base. Size 1 1/8 x
1 3/8" H. with 2 1/8" mtg. ctrs. Wt. 1 lb. Reg. net value \$1.50
No. 13A460. Special Each **\$1.09**



GIVE
AWAY
VALUE!

\$2.49

FILTER CHOKES AT TREMENDOUS SAVINGS



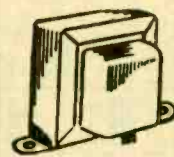
① 8 HY, 75 MA. DC resistance 290 ohms. Strap mtg. type. Size 2 1/8 x 1 3/4
x 2 1/8" H. with 3 1/8" mtg. ctrs. Wt. 1 lb. Reg. \$2.60
No. 13A254. Special Each **\$1.99**

① 7 HY., 150 MA. DC resistance 200 ohms. Strap mtg. type. Size 4 x 2 1/4 x
2 5/8" H. with 3 1/8" mtg. ctrs. Wt. 2 lbs. Reg. net value over \$4.00.
No. 13A239. Special Each **\$2.39**

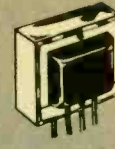
② SUPER VALUE! HEAVY DUTY 8 HY. 200 MA
DC resistance 120 ohms. Half-shell mtg. Size only 3 x 2 1/2 x 2 3/4" H. Reg.
net at least \$6.00. Wt. 3 lbs.
No. 3B104. Special Each **\$2.95**

③ HIGH POWER 8 HY @ 300 MA CHOKE
DC resistance 70 ohms. Strap mtg. 3 7/8 x 4 x 4 5/8" H. Wt. 8 lbs. Reg. net
over \$14.00.
No. 13A240. Special Each **\$9.95**

HIGH VOLTAGE TRANSFORMER FOR CATHODE RAY TUBES



Primary 115 V. Maximum. Secondary 1150 V. @ 2.5
MA. Has 10-1 ratio. Output voltage can be changed
by changing primary voltage. Use for high voltage
supplies, anode supplies for scope etc. Great for experi-
menters. Shpg. wt. 1 1/2 lbs.
No. 18B154. Special Each **\$1.69**



59c
Each 10 Lots



89c
Each, 10 Lots

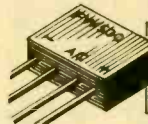
For Transistor Devices

① 12 V. @ 10 MA Sec. Size 1 3/8 x 7/8 x
1 1/8" H. Shpg. wt. 3 oz.
No. 13B193. **69c** 10 Lots, **59c**
Special Ea. Each

① 21.5 V. @ 100 MA Sec. Size 1 1/8 x
1 1/2 x 1 3/8" H. Shpg. wt. 1/2 lb.
No. 18C45. **99c** 10 Lots, **89c**
Special Ea. Each

① 40 V. CT @ 110 MA Sec. Size 2 x
1 5/8 x 1 5/8" H. Shpg. wt. 1 lb.
No. 13A285. **\$1.39** 10 Lots, **\$1.25**
Special Ea. Each

MALLORY FULL WAVE SILICON BRIDGE RECTIFIER



\$1.39 Reg.
Net
\$2.04

200 Volts PIV @ 1.5A.
Molded case .688 L. x .469 H. x .25 T.
with 1 1/2" leads. Recommended for
transistor power supplies, bias and relay
supplies, dozens of other applications.
Limited quantity at this special price.
No. 17B163. **\$1.39**
Special Each

POWER TRANSFORMERS

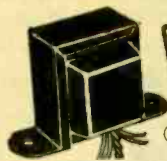
470 V. CT @ 60 MA. Separate 6.3 V.
@ 2 A. filament. Extra flat construc-
tion. 3 3/8 x 2 1/8 x 1 3/8" above chassis.
Limited quantity—buy plenty while they
last. Regular net at least \$5.00. Wt.
2 lbs.
No. 13A265. Extra Special. **\$2.49**

FILAMENT TRANSFORMERS AT BIG SAVINGS!



AS LOW AS
\$1.29

① 6.3 V. @ 1 A.



\$1.99

② 24 V. @ 1 A.

ALL HAVE 117 V. 60 CY. AC PRIMARIES

① 5 V. @ 6 AMP
2500 volt test insulation. Size 2 1/4 x 3 1/4 x 1 1/8" with 3/8" mtg. ctrs. Wt. 2 lbs.
No. 13A242. Special Each. **\$1.99**

① 6.3 V. @ 1 AMP
Size 1 5/8 x 2 3/8 x 1 1/2" with 2 3/8" mtg. ctrs. Wt. 1 1/4 lb.
No. 13A498. Special Each. **\$1.29**

① 6.3 V. @ 1.5 AMPS
Size 2 x 2 3/8" with 3" mtg. ctrs. Wt. 1 1/4 lbs.
No. 18C644. Special Each. **\$1.39**

① 6.3 V. @ 3 AMPS
Size 1 7/8 x 1 3/4" with 2 7/8" mtg. ctrs. solder lugs. Wt. 1 lb.
No. 18B140. Special Each. **\$1.99**

① 12.6 V. @ 1 AMP
Tapped @ 6.3 V. Size 1 1/8 x 1 1/2 x 1 5/8" H. with 2 1/2" mtg. ctrs.
No. 17B392. Wt. 1 1/2 lbs. **\$1.99**

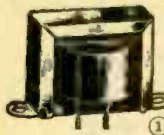
① 12.6 V. @ 2 AMP
Size 2 x 3/4 x 1 3/4" with 2 1/8" mtg. ctrs. Wt. 2 lbs.
No. 13A243. Special Each. **\$2.49**

① 24 V. @ .6 AMP
Size 1 1/2 x 1 3/8 x 1 7/8" H. with 2" mtg. ctrs. Wt. 1 lb.
No. 13B640. Special Each. **99c**

① 24 V. @ 1 AMP
Size 2 1/8 x 2 1/8 x 2" H. with 2 7/8" mtg. ctrs. Wt. 2 lbs.
No. 17B159. Special Each. **\$1.99**

② 24 V. @ 2 AMP. Size 2 5/8 x 2 1/4 x 2 1/4" H. with 3/8" mtg. ctrs.
No. 13C501. Wt. 2 1/2 lbs. **\$2.99**
Special Each. **\$2.75**

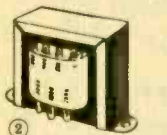
POPULAR OUTPUT TRANSFORMERS



AS LOW AS
59c

For 50L6, 50B5, etc., to 3-4 ohm V.C. 2" mtg. ctrs. x 1 1/4" H. Wt. 1/2 lb.
18A888. **59c** 10 Lots, **49c**
Special Each. **49c**

For 6V6, 6AQ5, etc., to 3-4 ohm V.C. 2 3/8 x 1 3/8 x 1 3/8" H. Shpg. wt. 1 lb. Import Special.
17B393. Ea. **99c** 10 Lots, Ea. **85c**



Over 3.25 Vol.
\$1.99

② UNIVERSAL
Primary 4000-14,000 ohms. 8 watts. Matches 3.2, 8 or 16 ohm V.C. Size 1 9/8 x 2 1/8 x 1 1/2". Wt. 1 lb. Reg. value over \$3.25.

No. 13A237. **\$1.99** 10 Lots, **\$1.79**
Special Ea. **1.79** Each. **1.79**

② 70.7 VOLT LINE-TO-VOICE COIL

5-Watt. Tapped for 5, 2.5, 1.25, .62 and .31 watts. Secondaries 3.2-4, 6-8 ohm. Size 1 1/8 x 2 3/8 x 1 1/2". Wt. 3/4 lb. Reg. net value \$3.24.

No. 13A238. **\$1.89** 10 Lots, **\$1.69**
Special Each. **1.69** Each. **1.69**

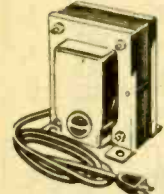


MULTIPLE VOLTAGE TRANSFORMER 12 V. CT & 48 V. CT SECONDARIES

Primary 115 V. Separate 12 V. CT @ .5 amp and 48 V. CT @ 150 MA secondaries. Experimenters delight. Many different voltages can be obtained from one transformer. Size 2 1/8 x 2 1/2" H. Shpg. wt. 1 lb.

No. 13A180. **\$1.99** 10 Lots, **\$1.79**
Special Each. **1.79** Each. **1.79**

ISOLATION TRANSFORMERS FOR TESTING



Reduces shock hazard particularly when used with AC-DC equipment. Needed by serviceman and highly recommended for TV sets, hi-fi amplifiers, etc. can be paralleled for higher power. Convenient AC cord with plug and AC output receptacle makes installation simple. For 115 volt 50-60 cycle. 250 Watts. Size, 4 5/8 x 3 1/8 x 4 7/8". Weight 12 1/2 lbs.

No. 13A165. Each. **\$14.95**

SAVE! MIDGET POWER SUPPLY KIT

300 VOLT OR 150 VOLT DC
50 MA DUAL POWER SUPPLY
FULLY ISOLATED FROM
110 VOLT AC LINE

UNUSUAL
B-A
SAVING

\$3.99

FINE FOR POWERING SMALL
RECEIVERS, PREAMPS, TEST
GEAR, BIAS SUPPLIES... ALL
SORTS EXPERIMENTAL DEVICES

Modern silicon diode rectifier, for cool operation and instant output. Filament winding fully isolated, 6.3 V. @ 2 amp. Size 2 1/8 x 2 x 2" H. Choke 1 1/8 x 1 3/8" H. 50-300 mfd. tubular electrolytic 1 1/2 x 2"; 2-500 MA silicon rectifiers. Includes diagram.

No. 3A125. Complete Kit. **\$3.99**



99c
Each, 10 Lots

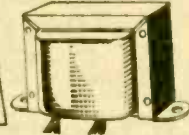
6.3 V. @ .75 A

MIDGET FILAMENT

6.3 V. @ .75 Amp. 117 V. 60 cy. AC primary. Fine for equipment using 1 or 2 tubes. Only 1 5/8 x 1 1/8 x 1 3/8" with 2" mtg. ctrs. Wt. 6 ozs.
18B135. **\$1.19** 10 Lots, **99c**
Spec. Ea. **1.19** Each. **99c**

MIDGET 24-VOLT

99c
10 Lots, Ea.



Fully enclosed, continuous duty type. Use for powering signal devices such as bells and buzzers, supplying filament voltage for miniature bulbs, etc. Rated .3 amps with fully isolated 115 V. 60 cy. AC primary. Size 1 3/8" H. x 1 1/2" W. 2" mtg. ctrs. Wt. 6 ozs.
18B506. **\$1.19** 10 Lots, **99c**
Spec. Ea. **1.19** Each. **99c**

PUSH-PULL 30-WATT CLASS AB1 HIGH FIDELITY OUTPUT TRANSFORMER

Frequency response 20-20,000 cps at full power rating. Made to very high quality specifications. Primary impedance 6600 ohm with screen grid taps for PP Class AB1, KT66, 5881, 6L6, etc. Secondary taps at 4, 8, and 16 ohms. Conservatively rated, especially well constructed in potted, fully shielded drawn case. Size 3 1/2 x 3 1/4 x 4 1/4" H. with 3/8 x 2 3/4" mtg. ctrs. Shpg. wt. 7 lbs.
No. 13D171. Special Each. **\$9.95**

AC ADAPTORS FOR 6, 9 OR 12 VOLTS

Operates transistor radios, walkie-talkies and other devices from 115 V. AC. Regulated exact output voltages. Reliable noise-free operation. Simple to use—just plug adaptor into wall outlet and equipment. Requires no change in your equipment—unplug adaptor for portable use. Complete with adaptor clips for use on a variety of equipment. Shpg. wt. 3/4 lb.
No. 35B320—6 V. Output **\$4.95**
No. 35B363—9 V. Output **\$4.95**
No. 35B361—12 V. Output. Each **\$4.95**



BIG
VALUE
\$9.95



CHOICE EACH
\$4.95

SAVE ON
BATTERY COST

B-A's SENSATIONAL NEW... BATTERY-POWERED TRANSISTOR PA SYSTEM KIT

UNBELIEVABLE LOW PRICE

\$14.95

- Very small and compact.
- Very easy to build.
- Outperforms transistor megaphones.
- Operates anywhere from 4 "D" batteries.



A real performer. Packs a lot of punch for its small size and lightweight. Plenty of power for classrooms, lectures, sales meetings, auctions, etc. May also be used for many portable applications such as out on the sports field in giving group instructions, for paging, etc.—operates while carrying and out performs most transistor megaphones.

Operates anywhere from self-contained batteries. Attractive grey vinyl covered case holds entire system. Lid contains heavy duty 6" speaker and can be separated up to 18 feet from amplifier with cord supplied. Module amplifier, batteries, and all other parts mount on chassis which fits bottom of case. Complete kit is quickly and easily constructed. Versatile miniature mike with 40-inch cable can be hand held, used on lapel or easily concealed. Case size 13 x 6 1/2 x 9 1/2" H. Complete system weighs only 8 lbs. Order now—Limited Quantity.

No. 37A479. Special Each. **\$14.95**
No. 37A480. Battery Kit. **58c**

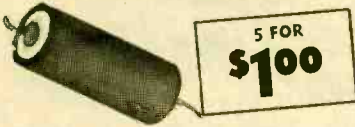
YOU SAVE \$\$\$
ON THESE SPECIAL
BARGAINS
TRANSFORMERS
ALL ARE
BRAND NEW!
FULLY GUARANTEED!

AUDIO INPUT
TRANSFORMER
FOR INTER-COM OR
SPEAKER-MIKE USE
\$1.69
Fully shielded intercom type. Converts any PM speaker with 3-4 ohm voice coil for use as a sensitive mike. 25M ohm sec. matches hi-imp. amp. input or grid input. 1 3/8 x 2 3/8 x 1 1/2".
No. 13A269. Wt. 1 lb. **\$1.69**
Special Each. **1.69**

YOU SAVE \$\$\$ ON THESE SPECIAL BARGAINS CONDENSERS

ALL ARE
BRAND NEW!
FULLY GUARANTEED!

EXTRA BIG SAVINGS
Tubular Electrolytics



Now while they last, spectacular savings on high quality hermetically sealed electrolytics. Stock up at these low, low prices. Compact sizes.

- 50 Mfd. @ 25 V. $\frac{5}{8} \times 1\frac{1}{8}$ " No. 17B229. 5 For... **\$1.00**
20 For... **\$3.49**
- 4 Mfd. @ 50 V. $\frac{3}{8} \times 1\frac{1}{8}$ " No. 17A242. 5 For... **\$1.00**
20 For... **\$3.49**
- 16 Mfd. @ 150 V. $\frac{5}{8} \times 1\frac{3}{8}$ " No. 18B791. 5 For... **\$1.00**
20 For... **\$3.49**
- 40 Mfd. @ 150 V. $\frac{3}{4} \times 2\frac{1}{8}$ " No. 18C800. 5 For... **\$1.25**
20 For... **\$3.95**
- 80-20 Mfd. @ 150 V. 1×3 " No. 18B804. 5 For... **\$1.50**
20 For... **\$4.49**

TV HIGH-VOLTAGE CERAMIC CAPACITORS 20K V. DC



Standard Hi-Vo Kap type for TV replacement, or as coupling condenser in shunt fed plate circuits. Has 8-32 male and 6-32 female terminals.

No. 18B815. 10 Lots, 25 For... **49c**
Special Ea. 2... **44c**

MITE SIZE CERAMIC DISCS



Reg. Value
10c Each

600 WORKING VOLTS DC

Finest quality general purpose ceramic capacitors featuring excellent high frequency characteristics, extreme small size, and rugged construction. All are fresh stock—Fully Guaranteed.

Stock No.	Cap. Mfd.	*10 For	*100 For
15A1210	.00001	59c	\$4.95
15A1219	.00002	59c	4.95
15A1211	.000047	59c	4.95
15A1212	.0001	59c	4.95
15A1213	.00047	59c	4.95
15A1214	.001	59c	4.95
15A1215	.002	59c	4.95
15A1216	.005	59c	4.95
15A1217	.01	59c	4.95
15A1218	.02	79c	6.95

*Minimum 10 per Capacity.

KIT OF 50 OF ABOVE: 4 each .00001, .00002, .000047, .0001, .002 and .005; 8 each .00047 and .001; 6 each .01; 4 each .02 all 600 V. or higher.

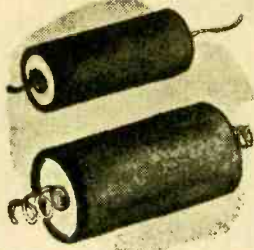
No. 18A18. Special Per Ass't... **\$2.79**

STOCK UP AT B-A's LOW PRICES!

B-A SPECIAL PURCHASE OF BRAND NEW CAPACITORS DIRECT FROM ORIGINAL PRODUCERS MAKES POSSIBLE THESE FANTASTIC SAVINGS!

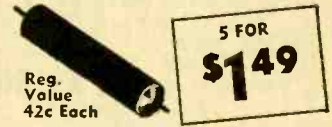
TUBULAR ELECTROLYTICS

AS LOW AS **30c**
EACH, 10 LOTS



Finest quality compact tubular capacitors hermetically sealed in aluminum container with plastic sleeve and tinned copper leads. Dual types shown are metal-cased, have cardboard sleeves, vinyl insulated leads and common negatives.

MOST NEEDED SUB-MINIATURE ELECTROLYTICS



Reg. Value
42c Each

FOR TRANSISTOR AND OTHER
MINIATURE CIRCUITRY

Best quality American made by top producer. Fully insulated tubular plastic case. Axial leads. All 25 working volts DC.

Stk. No.	Mfd.	5 For	25 For
18C285	5	\$1.49	\$6.75
18C286	10	1.49	6.75
18C287	25	1.59	6.95
18C288	50	1.59	6.95
18C291	100	1.99	8.95

Kit of 15 of above: 3 each 5, 10, 25, 50 and 100 Mfd. All 25 V. DC. No. 18C296.

Special Per Ass't... **\$4.79**

REVOLUTIONARY NEW MALLORY PVC MYLAR CAPACITORS



AS LOW AS
15c

Extremely
Small Size

Highly Reliable

NEW SPACE-SAVING SHAPE

Moisture proof flexible blue polyvinyl, will not crack, is unaffected by soldering iron heat.

No. 15B420 200 V. 10% 105° C

Mfd.	Size	Ea.	10 Lots	50 Lots
.01	$\frac{1}{8} \times \frac{3}{8}$	.16	.12	.09
.05	$\frac{1}{4} \times \frac{1}{2}$	.15	.12	.10
.1	$\frac{1}{2} \times \frac{3}{4}$	.21	.16	.12

No. 15B421 400 V. 10% 105° C

.0047	$\frac{1}{8} \times \frac{3}{8}$	.15	.11	.08
.01	$\frac{1}{8} \times \frac{3}{8}$	.15	.11	.08
.02	$\frac{1}{8} \times \frac{3}{8}$	.15	.11	.08
.05	$\frac{1}{4} \times \frac{1}{2}$	.18	.15	.11
.1	$\frac{1}{2} \times \frac{3}{4}$	.21	.17	.13
.5	$1 \times 1\frac{1}{2}$	.46	.37	.28

No. 15B422 600 V. 10% 105° C

.001	$\frac{1}{8} \times \frac{3}{8}$	.15	.11	.08
.0022	$\frac{1}{8} \times \frac{3}{8}$	.15	.11	.08
.005	$\frac{1}{8} \times \frac{3}{8}$	.15	.11	.08
.01	$\frac{1}{8} \times \frac{3}{8}$	.18	.12	.09
.02	$\frac{1}{8} \times \frac{3}{8}$	.18	.14	.10
.05	$\frac{1}{4} \times \frac{1}{2}$	.24	.16	.12
.1	$\frac{1}{2} \times \frac{3}{4}$	.27	.21	.15

50 MINIATURE MYLAR CONDENSERS FOR TRANSISTOR RADIOS



50 FOR
\$3.95

LATEST UPRIGHT MOUNTING

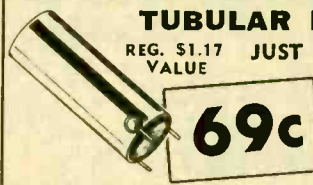
Fine import quality miniature Mylar by-pass upright mounting condensers as used in thousands of small transistor radios and other tiny devices. All 100 volts working.

Contains: 5 each .1, .02, .04, .001; 10 each .01, .05, .005.

No. 17C525. Kit of 50... **\$3.95**

TUBULAR ELECTROLYTICS FOR PRINTED CIRCUITS

REG. \$1.17 JUST THE TICKET FOR PRINTED-CIRCUITS IN TV ETC.



69c

50-30 Mfd. @ 150 V.
Size $1 \times 2\frac{1}{4}$ "
18C708. Ea. ... **69c**

5 For... **\$2.99**

KIT OF 36

3 each .001, .002, .003, .0047; 4 each .01, .022, .033, .05, .1, .25. All 600 volts.

18C769. Per Assortment... **\$3.88**

FINEST AMERICAN MADE

50-50 Mfd. @ 150 V.
Size $1 \times 2\frac{1}{4}$ "
18C709. Ea. ... **75c**

5 For... **\$3.29**

75-30 Mfd. @ 150 V.
Size 1×3 "
18C710. Ea. ... **79c**

5 For... **\$3.49**

TWIST PRONG ELECTROLYTICS

EXTRA BIG SAVINGS!



AS LOW AS **39c**

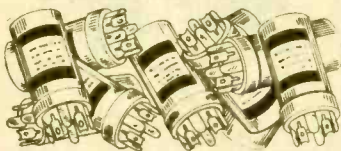
FAMOUS BRANDS!
Hermetically sealed in aluminum cans.

450 W. V. DC					
Mfd.	Size In.	Stock No.	Each	10 Each	
20-20	1 x3	18B778	\$1.09	\$ 0.99	
30-30	1 1/2 x2	18A920	1.39	1.25	
40-40	1 3/8 x3	18B779	1.59	1.39	
20-20-20	1 1/2 x2 1/2	18A931	1.49	1.33	
40-40-40	1 3/8 x3 1/2	18A932	1.99	1.75	
80-40-20	1 3/8 x4	18A933	2.19	1.89	

2000 Mfd. @ 15 V. Size 1 3/8 x2"
 18A950. Ea. **99c** 10 Lots Ea. **89c**
 400-100 Mfd. @ 16 V. Size 1x1 1/2"
 18C858. Ea. **39c** 10 Lots Ea. **35c**
 500-500 Mfd. @ 16 V. Size 1x1 1/2"
 18C864. Ea. **49c** 10 Lots Ea. **44c**
 850-400 Mfd. @ 16 V. Size 1 3/8 x1 3/4"
 18C857. Ea. **49c** 10 Lots Ea. **44c**
 1500-500 Mfd. @ 50 V. Size 1 3/8 x3 3/4"
 18C866. Ea. **59c** 10 Lots Ea. **49c**
 120 Mfd. @ 150 V. Size 1x2 3/4"
 18B690. Ea. **49c** 10 Lots Ea. **44c**
 100-100 Mfd. @ 150 V. Size 1x2 7/8"
 18C785. Ea. **59c** 10 Lots Ea. **49c**
 40 Mfd. @ 450 V. Size 1x3"
 18B775. Ea. **49c** 10 Lots Ea. **44c**
 40-40/10 Mfd. @ 450 V./25 V. Size 1 3/8 x3"
 18A369. Ea. **69c** 10 Lots Ea. **59c**
 80-4-4-200 Mfd. @ 475-450-450-25 V. Size 1 3/8 x3 3/4"
 18B689. Ea. **69c** 10 Lots Ea. **59c**

HIGH CAPACITY LOW VOLTAGE KIT

For Solid State Equipment



Ten assorted high capacity—low voltage single and multiple sections. Latest types for building new transistor circuits or replacement use. Includes some of above plus other real good useable sizes. All brand new—worth several times our low price.

No. 18B404. Special Per Assortment... **\$2.95**

5000 VOLT FILTER CONDENSERS

HIGH CAPACITY—SMALL SIZE

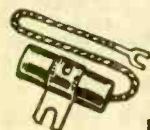
\$4.95

SIMILAR RATED UNITS COST OVER \$35.00

New production surplus from modern space age projects. Very small size for voltage and capacity rating. Ideal high capacity filter for HV supply on linear RF power amplifiers. Exact capacity stamped on each. Shpg. wt. 2 lbs.

3.6 Mfd. @ 5000 V. Case only 2 1/4 x 2 7/8 x 4 1/8" H., with handy mtg. brackets attached to sides.
 No. 18C889. Special Each... **\$4.95**

GENERATOR FILTER



29c

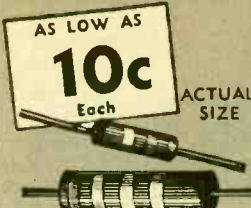
REC. 39c VALUE

.5 Mfd. @ 250 Volts for auto radios. Metal encased with insulated lead.

No. 17A246. **29c** 10 Lots, **23c** Spec., Each

HUGE SAVINGS ON RESISTORS!

1/2-WATT AND 1-WATT
10% TOLERANCE



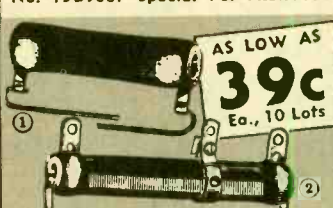
Finest quality molded insulated resistors. Sorry we can't mention the famous makers, but be assured these are brands you will readily recognize as the leaders in the field. All resistors are color coded, conform 100% to RETMA code, Jan, and MIL-R-11 specifications. Perfect for service work, construction, or industrial needs at substantial savings.

Please specify resistance values when ordering.

Ohms	Ohms	Ohms	Ohms	Ohms	Meg-ohms	Meg-ohms	Meg-ohms
10	68	470	3300	22,000	0.15	1.00	6.8
12	82	560	3900	27,000	0.18	1.2	8.2
15	100	680	4700	33,000	0.22	1.5	10.0
18	120	820	5600	39,000	0.27	1.8	12.0
22	150	1000	6800	47,000	0.33	2.2	15.0
27	180	1200	8200	56,000	0.39	2.7	18.0
33	220	1500	10,000	68,000	0.47	3.3	22.0
39	270	1800	12,000	82,000	0.56	3.9	
47	330	2200	15,000	0.1 Meg	0.68	4.7	
56	390	2700	18,000	0.12 Meg	0.82	5.6	

1/2-WATT 10 For **59c** 12A998 Net Each. **10c** (one-value) *100 For... **\$4.95**
 1-WATT 10 For **79c** 12A999. Net Each. **15c** (one value) *100 For... **\$6.95**
 *Minimum of 10 per value.

Kit of 100 of above: Consists of 75—1/2 watt and 25—1 watt in most popular resistance values.
 No. 15B908. Special Per Assmt... **\$4.95**



MALLORY VITREOUS ENAMELED WIRE-WOUND RESISTORS

In most needed resistance values.
 Finest quality resistors wound on mil grade steatite forms. Silver soldered connections between wire and lug. Please specify Stk. No. and resistance.

① 10 WATT FIXED—1 3/4 x5/16"				② 25 WATT ADJ.—2x9/16"			
5	100	500	3000	5	100	1000	5000
10	150	1000	5000	25	300	2500	10,000
20	200	2000	10,000	50	500		
50	300						

No. 26A121 Net Ea. 10 Ea.
 5 to 5000 Ohm **\$.44** **\$.39**
 10,000 Ohm **.54** **.45**
 20,000 Ohm **.59** **.49**
 25,000 Ohm **.64** **.53**
 50,000 Ohm **.71** **.59**

③ 20 WATT FIXED—2x7/16"
 5 100 500 5000 20,000
 25 200 1000 10,000 40,000
 50 300 3000 15,000

No. 26A122 Net Ea. 10 Ea.
 5 to 5000 Ohm **\$.58** **\$.48**
 10,000 to 40,000 Ohm **.69** **.59**

④ 10 WATT ADJ.—1 3/4 x5/16"
 10 50 500 1500 5000
 25 100 1000 3000 10,000

No. 26A123 Net Ea. 10 Ea.
 10 to 1000 Ohm **\$.94** **\$.78**
 1500 to 10,000 Ohm **.89** **.83**

IRC AXIAL-LEAD POWER WIRE-WOUND RESISTORS

Please specify Stk. No. and resistance value.

1	25	250	2000	10,000*
5	50	500	3000	15,000*
10	100	1000	5000	25,000*

*Available 10 watt only.

5 WATT 26A135. Ea. **25c** 10 Each. **19c**
 100, Each. **15c**
 10 WATT 26A136. Ea. **36c** 10 Each. **27c**
 100, Each. **22c**



44c
Each, 10 Lots

VELVET-SMOOTH VOLUME CONTROLS

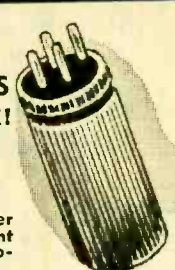
Smoothest action volume controls we have seen. Highest quality American made. Popular compact size only 1 1/8" dia. Universal flattened 3" shaft, easily cut to desired length. Fine for replacement or construction. Linear taper. Switch rating 3 amp @ 125 V.

Ohms Resistance	Stk. No.	Less Switch Each	10 Lots Ea.	Stk. No.	With SPST Switch Each	10 Lots Ea.
50,000	18C432	\$.49	\$.44	.....	.....	.....
100,000	18C433	.49	.44	.....	.....	.....
1/2 Meg	18C434	.49	.44	18C442	\$.79	\$.69
1 Meg	18C435	.49	.44	18C443	.79	.69

YOU SAVE \$\$\$ ON THESE SPECIAL BARGAINS

MOST NEEDED PARTS
ALL ARE BRAND NEW!
FULLY GUARANTEED!

SAVE ON MALLORY VIBRATORS FRESH STOCK!
\$1.29



3 types to cover most replacement needs at a substantial saving.
 6 VOLT Standard 4 Prong—Replaces Mallory 294, 859, 901M; Radiart 5300, 5301, etc. **\$1.29** 10 Lots, **\$1.19** No. 19B93. Each...

12 VOLT 3 Prong—Replaces Mallory G874/G883; ATR 1343; Delco 8550; Radiart 6330, etc. **\$1.29** 10 Lots, **\$1.19** No. 19B206. Each...

4 Prong—Replaces Mallory G859; ATR 1340, 1344; Radiart 6326, etc. No. 19B204. **\$1.29** 10 Lots, **\$1.19** Each...

500 MA SELENIUM RECTIFIER
 High density. 130 V. RMS rating, 380 V. maximum peak inverse rating.
 17B1101. Ea. **99c**

BATTERY CHARGER KIT

FOR 6 OR 12 VOLTS
\$2.00

Amazing low price! Top quality parts to build a compact, dependable charger for 6 or 12 volt batteries. For full wave rectification using filament or similar transformers of your choice. Kit Contains 4-2 amp stud mtg. rectifiers, hdwe. kits for rectifiers, 3x 3 1/2" heat sink and instruction sheet.
 No. 41B48. Special Each... **\$2.00**

MINIATURE VARIABLE VOLTAGE POWER SUPPLY KIT

\$3.95

0-12 V. DC @ 6 MA

Operates Transistor devices such as pocket radios from 110 V. AC—saves battery cost.

A truly miniature power supply perfect for operating transistor devices such as radios, code oscillators, pre-amps, and experimental devices from 110 V. AC. Continuously variable 0-12 V. DC. Excellent for hand wired or printed circuits. Provides 0-12 V. DC @ 6 MA, 0-9 V. DC @ 10 MA. Hum level -70 db. Kit Contains transformer—size only 1 3/8 x 1 1/8 x 1 1/8" H., miniature full wave bridge rectifier, 2 miniature condensers, miniature pot and diagram.
 No. 3C128. Special Each... **\$3.95**

**YOU SAVE \$\$\$
ON THESE SPECIAL
BARGAINS**

**EXPERIMENTERS
AND BUILDERS**



**ALL ARE
BRAND NEW!
FULLY GUARANTEED!**

**CHASSIS MOUNTING
AC SOCKETS**

10c
Each, 10 Lots

REG. NET 15c;

Fits standard AC plugs. Fine for repairs or new construction. Mounts in $\frac{7}{8}$ " x $\frac{3}{4}$ " hole. Mtg. ctrs. $1\frac{1}{8}$ ".
No. 18B26. 10 Lots, 10c
Spec. Each. 12c Each. 10c

**TWO-WIRE
JIFY CONNECTOR**

23c

Handiest ever for quickly attaching and removing speaker leads, 115 V. AC leads to turntable motor, for electrical and electronic devices around the auto, shop, etc. Consists of top quality black bakelite 2 conductor male and female polarized plugs each with 15" stranded size 18 leads.
No. 18A109. 10 Pr. 19c
Spec. Per Pr. 23c Each. 19c

**2-WIRE Midget AC LINE
CONNECTOR SET**

99c
5 SETS

Perfect and handy for extending AC cords, speaker leads, etc. Small brown bakelite. Makes sturdy, positive connection. Import savings.
No. 17A75. 5 Sets. 99c
Per Set. 24c

**SAVE ON GE NE2A
NEON LAMPS**

79c
10 FOR

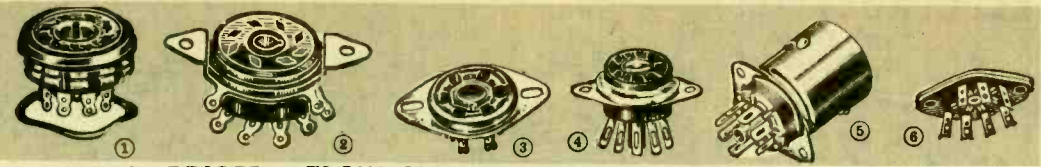
REG. NET 10c EACH

Extremely popular 1/25 watt bulb as used for pilot light assemblies, volume level indicators. Unbased, with 2 wire leads $\frac{1}{4}$ " dia., $1\frac{1}{8}$ " long. Requires 200,000 ohm series resistor for 105-125 V. Operation.
No. 18A841. 50 For. \$3.59
10 For. 79c For. 99c

**GE NE2E NEON LAMPS
WITH RESISTORS ATTACHED**

Ready for 110 V. operation. Resistor attached to each lead, bulb $\frac{3}{4}$ " long, $\frac{1}{4}$ " dia. otherwise identical to lamp above.
No. 18B14. 10 For. 99c

**SAVE ON THESE ALWAYS NEEDED TUBE SOCKETS
ALL ARE TOP BRAND, FINEST QUALITY, AT LOWEST PRICES ANYWHERE**



MANY PRICED BELOW MANUFACTURER'S REGULAR OEM COST

Stock No.	Fig.	Pin	Insul.	Mtg. Hole	Mtg. Ctr.	Each	10 Each	100 Each	Stock No.	Fig.	Pin	Insul.	Mtg. Hole	Mtg. Ctr.	Each	10 Each	100 Each
18B868	1	Octal	Bakelite	$1\frac{1}{4}$ "	$1\frac{1}{2}$ "	.12	.11	.09	18B70	5	7 Min.	Ceramic	$\frac{3}{8}$ "	$\frac{3}{8}$ "	.28	.24	.20
18C210	2	Octal	Bakelite	$1\frac{3}{8}$ "	$1\frac{1}{2}$ "	.08	.07	.06	18C894	4	9 Min.	Bakelite	$\frac{3}{4}$ "	$1\frac{1}{8}$ "	.11	.10	.08
18B159	2	Octal	Mica	$1\frac{3}{8}$ "	$1\frac{1}{2}$ "	.11	.10	.07	18B456	4	9 Min.	Mica	$\frac{3}{8}$ "	$1\frac{1}{8}$ "	.12	.11	.09
18B677	3	Octal	Bakelite	$1\frac{1}{4}$ "	$1\frac{1}{2}$ "	.15	.14	.12	18B652	5	9 Min.	Mica	$\frac{3}{8}$ "	$1\frac{1}{8}$ "	.19	.17	.15
18A832	3	Octal	Ceramic	$1\frac{1}{4}$ "	$1\frac{1}{2}$ "	.29	.24	.15	18B487	5	9 Min.	Ceramic	$\frac{3}{4}$ "	$1\frac{1}{4}$ "	.28	.24	.20
18C893	4	7 Min.	Bakelite	$\frac{3}{8}$ "	$\frac{3}{8}$ "	.08	.07	.05	18A1083	6	7 Min.	Wafer	$1\frac{1}{8}$ "	$1\frac{1}{8}$ "	.07	.05	.04
18C639	4	7 Min.	Ceramic	$\frac{3}{8}$ "	$\frac{3}{8}$ "	.12	.10	.08	18B455	6	9 Min.	Wafer	$1\frac{1}{8}$ "	$1\frac{1}{8}$ "	.08	.06	.05
18B653	5	7 Min.	Mica	$\frac{3}{8}$ "	$\frac{3}{8}$ "	.14	.12	.08									

**MINIATURE SOCKETS
With SNAP-ON SHIELDS**

29c
Each, 10 Lots

Low loss isolantite ceramic with shield base and snap-on plated metal shield with hold-down spring. 7-pin shield $1\frac{3}{4}$ " long; 9-pin $1\frac{1}{8}$ ".
7-Pin Socket & Shield. Reg. Net 44c
No. 17B273. 10 Lots 29c
Net Each. 36c Each. 29c
9-pin Socket & Shield. Reg. Net 52c
No. 18C206. Ea. 39c 10, Ea. 33c

**LOOK AT THIS SAVING!
RF CHOKE**

39c
Each, 10 Lots

SAVE MONEY NOW

RATED 2 1/2 MH 125 MA
Popular four pie type for use in high frequency circuits of receivers and transmitters. Replaces National types R50 and R100. Small size, only $1\frac{1}{2}$ " x $\frac{1}{2}$ " dia. with axial leads. Humidity proof varnish impregnated.
No. 18B42. 10 Lots, 39c
Net Each. 44c Each. 39c

**DIALCO PILOT LITE
ASSEMBLY FOR GE
NE51 NEON LAMPS**

49c

Latest styling with $\frac{1}{2}$ " plastic dome lens. Built-in resistor for use with NE51 and NE51H bulbs on 105-125 V. Mounts in $\frac{1}{8}$ " hole. Requires $1\frac{1}{8}$ " depth. Solder lugs. Less bulb. Rated 75 W. UL listed. Type 132 - 2708 - 991. Specify - Red, Amber, or Clear.
No. 18C219. 100 Lots, 44c
Special Each 49c Each. 44c

GE TYPE NE51 BULBS
16B170. NE51. Ea. 20c 10 Ea. 16c
16A150. NE51H. Ea. 22c 10 Ea. 18c

**BAKELITE CLEAT
RECEPTACLE**
For standard screw base lamps.
No. 20A341. Ea. 25c

**OCTAL PLUG AND
SOCKET SET**

39c Set
10 Set Lots

Most popular combination for power cables, speakers, remote control, etc. Highest quality standard octal 8-prong, black bakelite plug with snap-on metal cap and clip-tite black bakelite socket with removable mounting plate. Reg. net 56c.
No. 18C207. 10 Sets 39c
Per Set. 44c Each. 39c

**BARE COPPERWELD
ANTENNA WIRE**

\$2.88
500 FT. COIL

Has many times the strength of ordinary copper wire—does not stretch or sag. Ideal where long lines are needed. Electrical properties same as copper at high frequency. Wt. 3 lbs.
No. 2B24. Size 18
500 Ft. Coil. \$2.88

**INSULATED SURFACE
MOUNTED SOCKETS**

54c
Each, 10 Lots

AS LOW AS

Handy for modern minibox construction. Mounts inside or directly on any surface. Ideal for breadboard and experimental work. Especially recommended for schools, lab, hobbyist, etc.

Socket	Stk. No.	Each	10-Each
7-Pin Min.	17B262	59c	54c
Octal	17B263	75c	68c
9-Pin Min.	17B264	69c	63c

**SEMI-CONDUCTOR
HEAT SINKS**

79c
AS LOW AS

Aluminum unpunched. All $4\frac{1}{2}$ " W. x $1\frac{1}{2}$ " H.
No. 18B740. 3" Plain. Each. 79c
No. 18B743. 3" Anodized. Ea. \$1.09
No. 18B744. 6" Plain. Each. \$1.19
No. 18B745. 6" Anodized. Ea. \$1.79

**BIG SAVINGS
TYPE 47 PANEL LAMPS**

59c
10 FOR

REG. NET 12c EACH
Standard min. bayonet base type.

Fine quality import.
No. 17A362. 10 Bxs. 45c
Box of 10. 59c Each. 45c

COAX CABLE CONNECTORS FOR RG-11U AND 8U

69c
SET OF 2

REGULAR NET PRICE \$2.181

**PILOT LITE
ASSEMBLIES**

99c
5 ASSTD.

Worth At Least \$4.00 Regularly

PERMANENT NEON SNAP-IN PANEL LIGHTS

79c
CHOICE

Three popular new styles give hi-fi, ham, commercial, etc. equipment a brand new modern look. Just snaps in—much simpler, much faster than older type assemblies. Beautiful chrome trim. 10" flexible leads. 110-120 V. AC. Specify Red, Amber, or Clear.
① No. 17C312. 1-INCH ROUND. Fits panel $\frac{1}{8}$ " to $\frac{1}{8}$ " thick. Requires $\frac{3}{8}$ " depth.
② No. 17C314. SLIM LINE RECTANGULAR. Snaps-in 1.28 x .4 inch hole in $\frac{1}{8}$ " to $\frac{1}{8}$ " panels. Requires $\frac{1}{2}$ " depth.
③ No. 17C313. $\frac{1}{2}$ -INCH ROUND with attractive inside fluted lens. Fits $\frac{1}{8}$ " to $\frac{1}{8}$ " panels. Requires $1\frac{1}{8}$ " depth.
CHOICE NET EACH. 79c 10 LOTS EACH. 69c 100 LOTS EACH. 59c

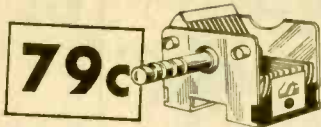
PL259A cable end for RG8U or RG11U plus the handy angle connector... at less by far than the usual cost of one alone. Made to Gov't specs. and silver plated. New and perfect except for slight silver tarnish which in no way harms the usability.
18C642. 69c 10 Pair, 59c
Per Pair. 69c 10 Pair. 59c

Top quality, miniature bayonet base type assemblies in assorted jewel colors. Some have variable light intensity feature.
Kit worth at least \$4.00 regularly.
No. 18A322. 5 Assorted. 99c

COMpletely ASSEMBLED WITH LONG-LIFE NEON BULBS

● Amazingly low priced
● at far less than older types.
● Simple snap-in mounting.

**SEMI-MIDGET
365 MMF VARIABLE
CONDENSER**



Top quality, all brass and aluminum construction with smooth action ball bearings. $1\frac{1}{4}$ " x $1\frac{1}{8}$ " long shaft. Convenient panel or base mount. Size $1\frac{3}{8}$ " W. x $1\frac{1}{8}$ " H. x $1\frac{1}{8}$ " D. Shpg. wt. $\frac{1}{4}$ lb. Imported to save you money.

No. 17C280. 79c 10 Lots, 71c
Special, Ea. 79c Each 71c

**DUAL 365 MMF
VARIABLE CONDENSER**



Beautifully made with ball-bearing rotor and built-in trimmers. Size only $1\frac{1}{8}$ " x $1\frac{1}{8}$ " x $2\frac{1}{8}$ " L. $\frac{1}{4}$ " brass shaft extends $\frac{7}{8}$ ". For tuned radio frequency, crystal, transistor and experimental circuits. Shpg. wt. $\frac{1}{2}$ lb.

No. 18B483. \$119 10 Lots, 99c
Each \$119 Each 99c

PROFESSIONAL STYLE

Beautifully made, will really dress up equipment. Skirted, $1\frac{1}{8}$ " D. with white filled 0 to 10 marking, and brass insert. Specify Black or Grey. No. 17A672. 39c 10 Lots, 35c
Each 39c Each 35c
Un-numbered, white pointer on skirt. No. 17B674. Black or Gray 39c
10 Lots, Each 35c

**SAVE! LAST YEAR'S PRICES SLASHED
NATIONAL EQUIPMENT KNOBS**

Molded of glossy durable silver-gray plastic with knurled finger grips. All have brass shaft inserts and two Allen hex screws to fit $\frac{1}{4}$ " shafts. Buy plenty while they last at a fraction of regular cost.

Stk. No.	Description
18B549	1 $\frac{3}{4}$ " Dia. Round
18B547	2 $\frac{1}{4}$ " Dia. Round
18B551	2 $\frac{1}{2}$ " Dia. Skirted
18B552	1 $\frac{1}{2}$ " x 1 $\frac{3}{4}$ " Spinner
18B550	1 $\frac{3}{4}$ " x 2 $\frac{1}{2}$ " Spinner
18B548	2 $\frac{1}{4}$ " x 3" Spinner

CHOICE EACH 39c

WITH POLISHED CHROME INLAYED IN CENTER OF TOPS

Stk. No.	Size	Color	Each	Set of 4
18C67	1"	Silver-Gray	29c	99c
18C68	1"	Silver-Gray*	29c	99c
18C66	1"	Black	29c	99c
18C90	1 $\frac{3}{8}$ "	Silver-Gray	29c	99c

* With Red Pointer Line

**GENUINE "K-TRAN"
IF TRANSFORMERS**

Universal input or output, permeability tuned from top and bottom. Silver mica capacitors, low loss base, aluminum cans, 4 lugs. Only 2 $\frac{1}{8}$ " x $\frac{3}{4}$ " Sq.



No. 18A87—455 KC. 18A88—262 KC.
Choice \$1.59 5 Pr. \$1.39
Per Pr. Each \$1.19
25 Pair, Each \$1.19

**PAIR OF SLUG-TUNED
456 KC MIDGET IF'S**



OVER \$2.00 VALUE
Universal input or output. Always needed for radio repairs or building. Compact size $\frac{3}{4}$ " sq. x 2" H. Permeability tuned from top and bottom. Alum. shield, low loss insulation, 4 lugs. With mtg. clips.
Imported at Great Savings. 99c
No. 17B515. Pair 99c

POWERFUL RADIO LOOPSTICK ANTENNA

Improves performance of small radios by taking place of inefficient ad loops and antenna hanks. Easy to install, instructions included. Also fine for building small radio receivers. $\frac{1}{2}$ " x 2 $\frac{1}{2}$ ". Very well made.

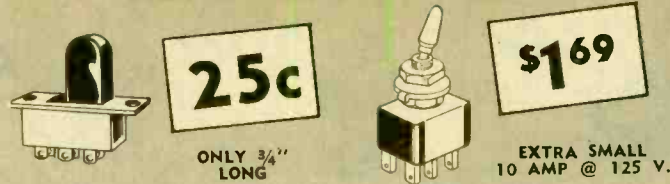
No. 17B512. 39c 10 Lots, 36c
Net Each Each 36c

ADJUSTABLE
SLUG
TUNED
TYPE



SPECIAL VALUE IMPORT

SUB-MINIATURE COMPONENTS



ONLY $\frac{3}{4}$ "
LONG

EXTRA SMALL
10 AMP @ 125 V.

SLIDE SWITCHES

Durable little switches for audio or low current circuits. Positive snap action. Rated $\frac{1}{2}$ amp @ 125 V. Size $\frac{3}{4}$ " x $\frac{3}{8}$ " x $\frac{1}{2}$ " H. Quality import.
17A373. SPDT. 25c 10 @ 21c
Each Each 21c
17A374. DPDT. 29c 10 @ 25c
Each Each 25c

**TOGGLE SWITCHES
SPDT—CENTER OFF**

Really small size — only $\frac{1}{2}$ " square. With 10 amp current rating. Special import saving.

17A372. \$1.69 10 @ \$1.55
Special Each Each

Sub-Miniature Electrolytic Capacitors. Extra high quality. Latest design metal encased with plastic sleeve.

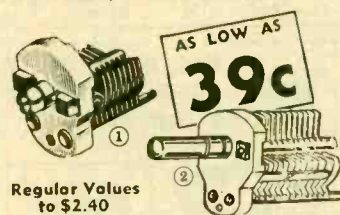
Stk. No.	Description	Size	Each	10 @ Ea.
18B811	250 Mfd. @ 3 V.	$1\frac{1}{2}$ " x $\frac{7}{8}$ "	\$0.39	\$0.35
18B812	50 Mfd. @ 15 V.	$\frac{3}{4}$ " x $\frac{3}{8}$ "	.35	.29
18B813	2 Mfd. @ 30 V.	$\frac{7}{8}$ " x $\frac{3}{8}$ "	.35	.29
18A814	400 Mfd. @ 25 V.	2 $\frac{1}{8}$ " x $\frac{3}{4}$ "	.64	.59

**MINIATURE 365 MMF
TUNING CONDENSER**

For radios and crystal sets. Regular $\frac{1}{4}$ " shaft extends $\frac{3}{4}$ " to take any knob. Only $1\frac{1}{2}$ " square x $\frac{1}{2}$ " deep.
No. 17B96. Special Net Each 39c



**POPULAR MIDGET
"APC" VARIABLE**



Regular Values
to \$2.40

Stk. No.	Fig.	Max. Mmf.	Min. Mmf.	Each	10 Lots Each
18A82	①	17	2	\$0.39	\$0.35
18B101	①	30	5	.49	.44
18B680	②	75	8	.99	.90
17B267	①	100	8	.69	.62
18B681	②	140	7	1.39	1.19

① is screwdriver adjustment type.
② has standard $\frac{1}{4}$ " shaft.

**VELVET SMOOTH
VERNIER DIALS**



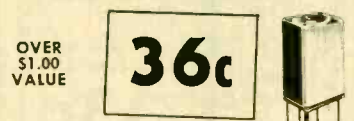
ALL ARE
BRAND NEW!
FULLY GUARANTEED!



COMPARE WITH
DIALS SELLING
FOR OVER \$4.00

Planetary drive ratio 8 to 1 in 180° counter clockwise. Brushed silver dial with deep-etched black-filled markings reads 0 to 100. Knob and housing molded black phenolic. Surface mounting for $\frac{1}{4}$ " shaft. Fine quality import.
No. 17C269. 1 $\frac{1}{2}$ " (36 MM) diameter. Special \$1.45 4 Lots \$1.29
Each Each
No. 17C274. 2" (50MM) diameter. Special Each \$1.59
4 Lots, Each \$1.39
No. 17C272. 3" (70 MM) diameter with vernier to read 1/10 scale division. Each \$2.39 4 Lots, Each \$2.19

**SLUG TUNED CERAMIC
COIL FORM WITH SHIELD**

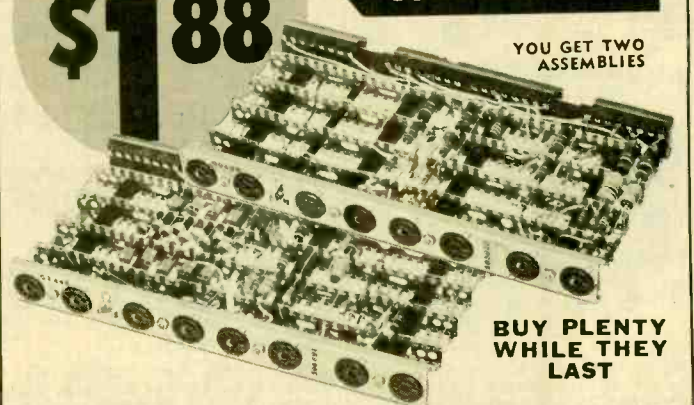


OVER
\$1.00
VALUE

Ceramic form $\frac{1}{2}$ " dia., $\frac{1}{8}$ " lg. Comes already wound with 2 close-coupled coils of 24 and 51 turns. Easily dismantled for rewinding to suit. Shield 1 $\frac{1}{8}$ " x 1 $\frac{1}{8}$ " H.
No. 18B120 10 @ 29c
Spec. Ea. 36c Each 29c

BIG GRAB-BAG OF PARTS

OVER
200 PARTS
FOR ONLY
\$1.88
OVER \$25.00
WORTH OF BRAND
NEW TOP QUALITY
COMPONENTS



YOU GET TWO
ASSEMBLIES

BUY PLENTY
WHILE THEY
LAST

Brand new top quality components easily removed. Perfect for experimenters, builders, etc. Over 200 of the most frequently used resistors, condensers, diodes, RF chokes, tube sockets assembled on slotted terminal strips . . . takes just a touch of the soldering iron to remove and use. Better buy plenty of this terrific parts value! Use of only a few components will more than pay the purchase price.
No. 18B262. Grab-Bag of Parts \$1.88

YOU SAVE \$\$\$ ON THESE SPECIAL BARGAINS SWITCHES



ALL ARE
BRAND NEW!
FULLY GUARANTEED!

H&H LOCK SWITCH

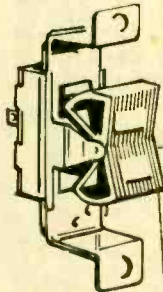
URNS ON WITH
REMOVABLE KEY



99c

Handy for preventing unauthorized operation of any electrical equipment. Fine for alarm systems, door openers, fixed and mobile transmitting equipment, etc. SPST. Rated 3 amp @ 250 V., 6 amps @ 125 V. $\frac{1}{8}$ " dia. x $\frac{1}{2}$ " long mtg. shank. Solder lugs. U.L. approved. With one key. **99c**
No. 18A943. Special Each...
No. 18A944. Extra Key. Each... 15c

ROCKER SWITCHES



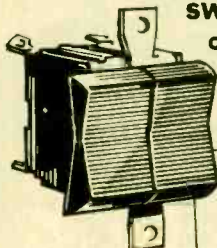
MODERN
DESIGN
LOW
COST

AS LOW AS
33c
Each, 10 Lots

Right up-to-date... same as used on latest hi-fi equipment, intercoms, test instruments, appliances, etc. Compact and rugged, exceptionally reliable. Off-set bracket permits direct mounting to panels with actuated portion of molded black knob recessed. Mounts on $\frac{1}{8}$ " centers, extends $\frac{1}{4}$ " behind panel with solder lugs. All American made by Stackpole. #3 position.

Stk. No.	Action	Each	10 @ Ea.
18D510	SPST	\$0.39	\$0.33
18D511	SPDT	.41	.35
18D512	DPDT	.49	.45
18D513	DPDT*	.59	.54

DOUBLE ROCKER SWITCH



COMBINES SPST
& SPDT IN
ONE SWITCH

ONLY
39c

Lots of uses for this versatile switch. One side SPST, other SPDT. Center terminals can be cut apart for individual switching of voltages, audio circuits, etc. Mounts on $\frac{1}{4}$ " centers. Switch knobs and body $1\frac{1}{4}$ x $1\frac{1}{4}$ x $1\frac{1}{2}$ " D. Rated 6 amp @ 125, 3 amp @ 250 V. Rugged Cutler Hammer construction.

No. 18A581. 10 @ **39c**
Special Each... Each... **35c**

228

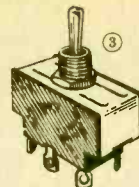
BAT HANDLE TOGGLE SWITCHES BARGAIN PRICED!



40c
Each 10 Lots



70c
Each, 10 Lots



48c
Each 10 Lots



36c
Each, 10 Lots

BIG
IMPORT
SAVING!

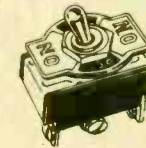
MOST POPULAR CARLING AT BIG SAVINGS!
U.L. Approved. Bakelite enclosed with $\frac{1}{8}$ " L. bat handle, $\frac{1}{2}$ " dia. x $\frac{1}{2}$ " L. shank, solder lugs. **Center off.

Stk. No.	Action	Fig.	125 V.	250 V.	Net Each	10, Ea.	100, Ea.
18B290	SPST	1	6	3	\$0.48	\$0.40	\$0.33
18B673	SPDT	1	3	1	.58	.50	.40
18A21	DPST	1	3	1	.75	.68	.57
18A25	DPDT	1	3	1	.88	.77	.64
18D175	SPST	2	20	10	.79	.70	.57
18B22	SPDT	3	15	10	.66	.48	.39
18D170	DPST	3	15	10	.77	.65	.53
18D176	DPDT**	3	15	10	.89	.77	.63

POPULAR BAT HANDLE DPDT TOGGLE SWITCH

Bakelite enclosed. Chrome on-off plate. Rated 3 amp @ 125 V. $\frac{1}{8}$ " dia. x $\frac{3}{8}$ " L. shank.
No. 17B439. **45c** 10 Lots, **36c**
Each... Each...

DPDT TOGGLE SWITCH CENTER OFF



55c
Each 10 Lots

CARLING SPST TOGGLE SWITCH WITH WIRE LEADS

Compact, bakelite enclosed with two 2" wire leads. UL approved. 6 amp @ 125 volts. $\frac{1}{8}$ " dia. x $\frac{1}{4}$ " long mtg. shank.
No. 18A574. **45c** 10 Lots, **39c**
Net Each... Each...
100 Lots, Each... **35c**



SALE PRICE
39c

SUB-MINIATURE 10-AMP TOGGLE SWITCHES

Perfect for miniature equipment. 10 amps @ 125 V. AC. Mtg. shank $\frac{3}{32}$ " x $\frac{3}{8}$ " long. Hardware included.

17A25. SPDT. **\$1.19** 10 Lots, **\$1.08** Each...
Spec. Each...
17A26. DPDT. **\$1.49** 10 Lots, **\$1.35** Each...
Spec. Each...

ONLY
 $\frac{1}{2}$ x $\frac{1}{2}$ x $\frac{1}{2}$ "
WITH
3/8" LONG
HANDLE

\$1.19



FINE QUALITY IMPORT

Bat handle, bakelite case, red and black on-off plate. Screw terminals. Rated 3 amp @ 250 V., 6 amp @ 125 V. Quality import.

No. 17C249. **68c** 10 Lots, **55c**
Each... Each...

TOGGLE SWITCH PLATES

Nickel plated steel with on-off markings. Use with standard $\frac{1}{8}$ " dia. mounting shafts.

12A785.. **5c** 10 For. **30c**



BIG SAVINGS! MICRO AND ACRO SNAP-ACTION SWITCHES

MICRO SNAP-ACTION MINIATURE SWITCH

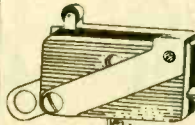


49c

Ultra small V-3 type. Handles large electrical loads and resists vibration. SPDT 10 amps @ 125 or 250 V. $1\frac{1}{8}$ x $\frac{7}{8}$ x $\frac{1}{8}$ ". Insulated plunger travels .047", O.T. .031".

No. 18C256 **49c** 10 Lots, **39c**
Special Ea... Each...

MINIATURE MICRO ROLLER LEAF SWITCH



99c

Versatile SPDT contacts. Bakelite case $\frac{3}{8}$ x $\frac{5}{8}$ x $1\frac{1}{8}$ " long. Screw terminals. Removable mounting bracket. Rated 10 amps @ 125 volts. Micro V3-67.

No. 18A523. **99c** 10 Lots, **94c**
Special Each... Each...

EXTRA TINY PUSH-BUTTON SWITCH

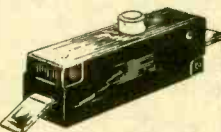


36c

LESS
THAN
HALF
USUAL
COST

SPST normally open, momentary contact. For all sorts of miniature AC or battery powered DC devices. Molded insulated housing and red button. Solder terminals. Really small, only $\frac{3}{8}$ " dia. x $1\frac{1}{2}$ " long overall. Mounts in $\frac{1}{4}$ " hole. Top quality import at less than $\frac{1}{2}$ usual cost.

No. 17C333 **36c** 10 Lots, **29c**
Net Each... Each...



36c

PLUNGER TYPE DOOR SWITCH

Normally closed, SPST like used on appliances, cabinet doors, burglar alarms, etc. Installs on any door or window frame with just two screws. Insulated case $1\frac{1}{8}$ x $\frac{5}{8}$ x $\frac{5}{8}$ ". UL approved. Rated 15 amps @ 125 V.

No. 18B770 **36c** 10 Lots, **29c**
Special Ea... Each...
100 Lots, Each... **25c**

PLUNGER TYPE SPDT

Type 1PL1. UL 15A @ 125 V. Lug terminals.

No. 18C193 **49c** 10 Lots, **44c**
Special Ea... Each...

SPST LEAF TYPE SNAP-ACTION SWITCH



99c

Popular hard-to-find leaf actuator type. Bakelite enclosed with quick connect terminals. Leaf 2" long provides maximum overtravel for greater versatility. Rated 15 amps @ 125 V. Unimax WLL76-Y. Normally open.

No. 18B569. **99c** 10 Lots, **90c**
Spec. Each... Each...

SLIDE SWITCHES



8c SPST
Each, 10 Lots

Small with black bakelite slide handle. Solder lugs. 1 amp @ 125 V. AC.

Stock No.	Action	Each	10 @ 100 @	Each	Each
18A534	SPST	10c	8c	6c	6c
17B390	SPDT	12c	9c	8c	8c
17B403	DPST	14c	10c	9c	9c
18B802	DPDT	15c	12c	10c	10c

LEVER TYPE



99c

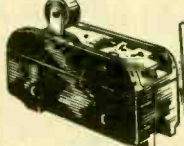
Curved arm actuator functions same as popular roller type. SPDT, 15 amp @ 125 V. Screw terminals with lugs.

Micro BZ-2RM37. **99c** 10 Lots, **90c**
Spec. Each... Each...

SPST—Normally Closed. Has short lever type actuator 15 amps @ 125 V. Screw terminals with lugs. WZ-RW13.

No. 18D179. **49c** 10 Lots, **44c**
Spec. Each... Each...

POPULAR MICRO SPDT ROLLER LEAF SWITCH



\$1.39

Bargain Price

A real "rare find"... first time in ages this popular switch is available at a bargain price.

Long life roller actuator with extended overtravel. Bakelite enclosed with screw terminals, size $1\frac{1}{8}$ x $1\frac{1}{2}$ x $1\frac{1}{2}$ " H. Rated 15 A. @ 125 V. AC. Type BZ-2RW822.

No. 18C539. **\$1.39** 10 Lots, **\$1.19**
Special Each... Each...
100 Lots Each... **\$1.10**

MOMENTARY SPRING RETURN SWITCH

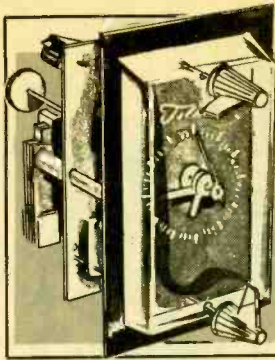
FINE
AS A
DOOR
SWITCH

39c

U/L approved. 3A @ 125 V. SPST normally closed circuit. Turns on light or other signal when door is opened. Fully insulated. Convenient snap-in mtg. in $\frac{3}{4}$ " hole. $1\frac{3}{8}$ " D.

No. 18C402 **39c** 10 Lots, **35c**
Special Ea... Each...

Every Item NEW, TOP QUALITY AND GUARANTEED



\$3.49

WITH HIGH CURRENT APPLIANCE SWITCH BUZZER ALARM AND 60 MINUTE SLEEP SWITCH

TELECHRON CLOCK-TIMER

"Full feature" switch mechanism as used on many clock radios. Powered by high quality genuine Telechron movement. Fine for building in or adding to existing equipment. Heavy duty clock controlled switch handles up to 15 amperes 115 V. AC, turning "on" at any preset time up to 11 hours later. Circuit remains "on" until turned "off" manually. Also has separate "sleep" switch timer for "on" operation of switch controlled circuit up to 60 minutes, then automatic "off". Manual control also operates switch independently of either timer allowing "on" or "off" when desired. Has two front timer control knobs plus rear knob for time and alarm set. Rear shaft extends 4 1/2" from front mounting surface. Clock face has black background, white hands and hour markings, no numerals. Size 3 5/8 x 2 1/8" behind panel. 115 V. 60 cy. AC powered. **\$3.49** No. 18B110. Special Each

YOU SAVE \$\$\$ ON THESE SPECIAL **BARGAINS**

TIMERS AND SWITCHES



ALL ARE BRAND NEW! FULLY GUARANTEED!

BIG SAVINGS ON MERCURY SWITCHES

MINIATURE MERCURY SWITCH



Over a \$200 Value **69c**

SPST normally "on" or "off". Slight tip sends mercury to other end for silent operation. 1 amp 115 V. AC. Only 5/8" dia. x 1 1/2" L. Wire leads with lugs. No. 18C224 **69c** 10 Lots **59c** Special Each

MAGNETIC REED MERCURY SWITCH



59c SPST

GREAT EXPERIMENTERS ITEM!

Mercury pool contact handles .9 amps. Internal magnetic reed controlled by permanent or electric magnet (not supplied) moving close to glass envelope causes reed to make or break contact. Excellent for all sorts of moving systems or for experimenters; Removed from new equipment. 1/2" dia. x 2 1/2" long with flexible leads. SPST, Normally Closed No. 18A20 **59c** 10 @ **49c** Each

HI-CURRENT HONEYWELL MERCURY SWITCHES

Rated conservatively 10 amps 115 V. AC. 5/8" dia. x 2 1/2" long. 8" wire leads. SPST for timers, relays, flashers, etc. No. 18B52 **1 19** 10 Lots **99c** Special Each

NEW MAGNETIC PROXIMITY SWITCH

CIRCUIT CLOSING WHEN MAGNET APPROACHES SWITCH

ACTUATES FROM MAGNETIC FIELD NO MECHANICAL CONTACT REQUIRED



\$1.95

HIGHLY DEPENDABLE! FAST OPERATING!

SMALL SIZE

An exciting new concept of proximity switching at a tremendous saving.

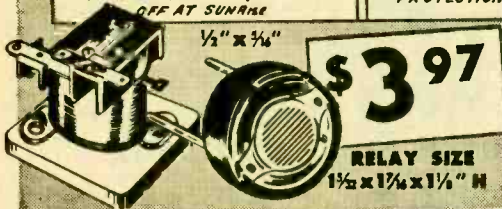
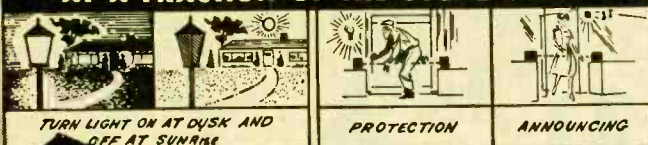
USED FOR

- Alarm Systems.
 - Limit switch.
 - Rotational counting.
 - Liquid level.
 - High speed communicator.
 - Door or window switch and many other industrial and hobby applications.
- Nine suggested applications with diagrams supplied.

Hermetically sealed glass tube contains precious metal contacts rated 15 watts. Max. 1 amp or 250 volts AC. Measures 2" long, 3/8" diameter with 3/8" leads. Magnet 1 1/8 x 1/8" square. Both easy to mount because of small size and light weight. No. 17C361. Net Each **\$1.95**

MINIATURE PROXIMITY SWITCH. Only 3/4" long, 3/8" dia. with 3/4" wire leads. Glass tube with 10 watt contacts. Maximum of 1/2 A. or 50 V. Miniature magnet included. **\$1.95** No. 17B389. Special Each

BUILD YOUR OWN LIGHT CONTROLLED RELAY AT A FRACTION OF THE USUAL COST!



\$3.97

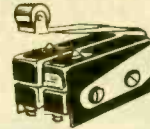
RELAY SIZE 1 1/2" x 1 1/4" x 1 1/8" H

LIGHT SENSITIVE PHOTO CELL AND RELAY

The two basic components, a high quality extra sensitive relay and a light sensitive cell... plus circuit diagrams for building useful and interesting devices... day-night control of lights or other electrical equipment, light actuated burglar alarm and remote control TV "Commercial Killer." Many other uses will suggest themselves to the experimenter and engineer. Fine for production or traffic counters, door openers, etc. Tiny glass enclosed light cell is only 1/2" x 3/8" with 2 wire leads. Relay, size 1 1/2 x 1 1/4 x 1 1/8" H, has SPDT 1 ampere contacts. Completed control Operates an 115 V. AC. No. 17A609. **\$3.97** Special Light Cell and Relay

DPDT SUB-MINIATURE MICRO-SWITCH

REG. \$3.34 VALUE **\$1.39**



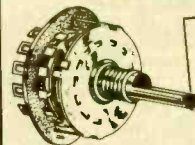
Tiniest we have ever seen. Has roller type leaf actuator, 5 A. contacts, turret solder terms. Size 1 1/8 x 1/2 x 1/8". Reg. \$3.34 value. No. 18C102 **1 39** 10 Lots **1 19** Special Each

MOMENTARY SPRING RETURN SWITCH



SPST normally closed. Rated 3/4 amp. at 125 volts. Popular panel mount bakelite push type. Well insulated. Mounts in 1/8" hole in panels up to 5/8" thick. No. 17B391. Spec. Ea. **29c** 10 Lots **26c** Each

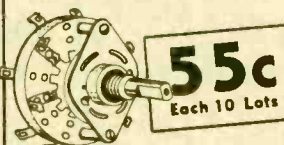
ROTARY SWITCHES



49c REG. NET VALUE \$1.01

1 POL. 8 POS. SHORTING

Use for switching audio circuits without noise. Also hundreds of other applications. 1 3/8 x 1 1/8" wafer, 1/8" depth. Mounts in 3/8" hole. 1/4" shaft is 1/2" long. No. 18D105. **49c** 10 Lots, **42c** Special Each



55c REG. NET AT LEAST \$1.90

3 POL. 3 POS. CERAMIC

Wide 60° indexing and ceramic insulation minimizes RF losses. Non-shorting. 2" dia. x 1" depth. Standard 1/4" shaft extends 1/8". No. 18A531. **69c** 10 Lots, **55c** Special Each



DAVEN SP 17 POINT ROTARY SWITCH

59c Each 10 Lots

Noise-free, continuous rotating; no stops, detents or pitgails. Adjacent points shorted as switch is rotated. Dia. 2 1/8, 1/4" shaft, std. 3/8" mtg. bushing. No. 18C503. **69c** 10 Lots, **59c** Special Each

TOP QUALITY FOOT CONTROL SWITCH



AT LEAST AN \$8.50 VALUE. **\$2.95**

Snap Action Contacts Rated 10 A. @ 125 V. AC.

FINEST QUALITY—MADE FOR COMPTONETER

Fine for remote control of tape recorders, ham gear, photo devices, etc. Two SPDT 10 A. @ 125 V. AC micro switches operate in a 2-step sequence as pedal is depressed. Grey wrinkle finished steel case, rubber tread, 6 ft. Belden cable. Originally made for comptometer. No. 18A976. Special Each **\$2.95**

HAND-OPERATED REMOTE CONTROL SWITCH

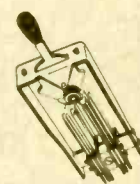


69c

With 20-Ft. Cable

Excellent for remote control applications. 1 1/8" dia. x 2 1/4" sturdy bakelite enclosed switch is specially designed for hand-held operation, or may be panel mounted if desired. Unique switching arrangement permits SPST operation of two circuits with switch arm common to both circuits. Contacts are normally open. Complete with 20 ft. 2-conductor plastic covered cable. Has cable clamp and screw terminals. Terrific value! No. 18B410. **69c** 10 @ **55c** Complete

4 PDT LEVER SWITCH



99c

BIG IMPORT SAVING!

Positive acting for audio switching, speakers, telephones, model railroads, etc. Rated 3 amp @ 120 V. 2 screws on front for mounting. 2 1/8 x 1 1/4 x 5/8" behind panel space. No. 17C120. Import Special... **99c**

**YOU SAVE \$\$\$
ON THESE SPECIAL
BARGAINS**

**HOBBYIST
FINDS**

**ALL ARE
BRAND NEW!
FULLY GUARANTEED!**



**LIGHT SENSITIVE
PHOTO CELL**



ONLY **99c**
Tiny glass enclosed cell, 1 1/2" x 1 1/2" dia. Cell resistance changes with light. Operates sensitive AC relay without amplifier. Interesting and practical circuits included. No. 20A22. Spec. Ea. **99c**

**BIG BARGAINS FOR MODEL
RACING CAR HOBBYISTS**



99c

**MADE
IN
U.S.A.**

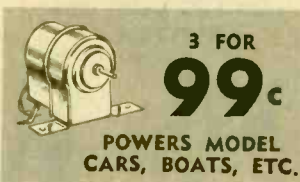
**TINY HIGH POWERED MODEL MOTOR
MADE FOR HOT TRACK RACING CARS**

Very small, 1x1 1/2" long. Develops high torque, revs up fast on any DC power source up to 14 V. Permanent magnet field. Runs either direction. Brass sleeve bearings .080" dia. x 1/8" shaft. Limited quantity at this bargain price. No. 18C768. Special Each **99c**

DC POWER PACK FOR MODEL MOTORS

Output 14 V. DC up to 1.4 A. Has screw terminals, 6 ft. AC cord and plug. Top quality priced way low because of a lucky buy. Operates on 115 V. AC. No. 18C767. Special Each **\$2.88**

**LOOK AT THIS FANTASTIC BUY!
MIDGET REVERSIBLE DC MOTOR**



**3 FOR
99c**

**POWERS MODEL
CARS, BOATS, ETC.**

B-A's lucky find of 25,000 at a fraction of regular manufacturer's cost makes possible this fantastic offer! We have sold thousands of similar types previously at prices ranging from 50c to \$1.00 each. Operates from 1 1/2 to 6 V. dry cell batteries. High torque, PM type for model cars, boats, toys, etc. 1 1/2 x 1 1/2 x 1 3/8" H. Shaft 3/32" dia. x 1/8". No. 18B379. **99c** 12 For. **\$3.49**
Special 3 For.

CONSTANT SPEED DC MOTOR



\$1.49

Centrifugal governor for constant speed. Made originally for battery operated recorder. Runs either direction on 6-14 volt DC. 1 1/2" L. x 1 3/8" dia. Hurry—Limited Quantity. No. 18C895. Special Each **\$1.49**

ELECTRICALLY OPERATED MIDGET CLUTCH

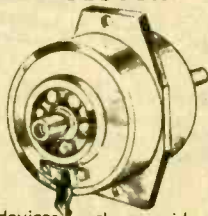
AMAZING VALUE!

- 100's OF USES FOR
- EXPERIMENTER
- MODEL BUILDER
- HOBBYIST

12-14 VOLT DC

ORIGINAL COST
AT LEAST \$85.00

\$4.95



Ideal for remote control of small motor operated devices, such as midget autos, boats, toys, tools . . . or electric drive for tape machines, turntables, revolving displays, etc. Two free-running shafts in ball-bearing race become mechanically coupled by magnetic clutch, with 10 oz.-inch holding power at 12 V. DC or 60 oz.-inch at 24 V. DC. Becomes electric brake if one shaft is held stationary. Can be battery operated (125 MA @ 12 V. DC or 250 MA @ 24 V. DC) for clutch in model devices. Small shaft (1/16") is ideal for friction drive against rubber wheels, large shaft (3/32") fits 3/8" couplers. Extra powerful, only 15 oz. weight; high quality and precision machined. Gadgeteers and experimenters buy several at this low, low price, a mere fraction of its original cost. Flange mount with two 3/32" holes. Body dia. 1 7/8 x 1 1/8" deep. No. 18A987. Special Each **\$4.95**

**115 V. AC VARIABLE POWER SUPPLY FOR OPERATING
MAGNETIC CLUTCH—DELIVERS 5 TO 28 V. DC @ 500 MA**

Consists of 24 V AC transformer, silicon rectifier, Ohmite power rheostat to adjust output voltage, filter condenser, and bleeder resistor. No. 18A956. With wiring instructions. Special Net **\$4.95**

SOLAR CELLS

**SPECIAL PURCHASE—Made to Government
Specifications . . . same as used in every
satellite to furnish electrical power**

**ENERGIZED FROM SUN OR
ARTIFICIAL LIGHT**

WERE REGULAR UP TO
\$3.50 EACH

\$2.49
KIT OF 15

4 KITS FOR \$8.88

**KIT OF
15 AT LESS
THAN ORIGINAL
COST OF A
SINGLE
CELL**



Changes light to electrical voltage. Ideal for powering all types of transistorized equipment and experimental projects . . . i.e. lightmeters, radios, amplifiers, counters, etc. May be used in series or paralleled or series paralleled for higher output.

Perfect for science classes, laboratories, science projects, experimenters, hobbyist. Produces up to 3/4 volt and up to 5 MA. Assorted sizes from 3/4" square to 3/4" x 1 1/2", some with leads attached. No. 18B144. **\$2.49** 4 Kits For **\$8.88**

Experimenters Solar Cell Handbook. 26 pages of useful information, experiments and circuits for use of Solar Cells and how to use them. No. 25B232. Each **50c** FREE if purchased with 18B144 Kit Above.

EXPERIMENTERS MOTOR

SPECIAL ANTI-FRICTION BEARING TYPE

Designed to operate directly from the power supplied by Solar Cells. Offers many fascinating experiments and science projects. Runs on 1.5 to 6 volts at 30 to 40 MA. Connecting a number of the cells listed above in series parallel will operate the motor. No. 41A126. EP50. Each **\$3.95**

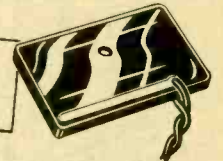


SELENIUM SOLAR CELL

Extra high output—generates 2 MA at 5 volts in sunlight. Highest quality, long life, practically indestructible. Will operate sun powered radios (circuit enclosed), light meters, sensitive relays for turning on and off lights, opening doors, counting, etc.—any application where light variations can be utilized. Size only 1 1/8 x 7/8" with wire leads. Includes suggested circuits. No. 20A39 **79c** 3 For. **\$2.00**
Spec. Ea. **12 For. \$6.99**

**EXCITINGLY NEW! AS USED IN
SPACE SATELLITES.**

79c



**PERFECT FOR SCIENCE CLASS
PROJECTS.**

HOFFMAN SOLAR BATTERY

**POWERS ANY
9 VOLT TRANSISTOR
RADIO FROM
SUNLIGHT**



Works just like solar panels that power most U.S. satellites. Only 3/32 x 2 1/2 x 1/4" thick, yet converts required amount of sunlight into electric current for operating 9 volt transistor radios. Simple to connect with 8 1/2" leads and battery snap-on connector included. . . no wiring changes necessary. Comes complete with mounting adaptor for attaching to back or top of radio. Shpg. wt. 4 oz. No. 17C72. Special Each **\$7.99**

\$7.99



24 VOLT AC GUARDIAN PLUG-IN RELAY

**IN DUST-PROOF CLEAR
PLASTIC CASE
WITH OCTAL PLUG-IN**



REG. NET AT
LEAST \$7.00

\$2.69

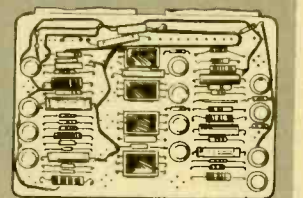
SPDT AND DPST—NO. 8A CONTACTS. Fits standard octal style tube socket. Continuous duty, silent operation. Recommended for control circuits, signal lights, etc. Fully enclosed in clear plastic case. Size 2 3/8 x 1 3/8" sq. No. 18C257. Special Each **\$2.69**

COMPUTER CIRCUIT BOARDS

PARTS WORTH
AT LEAST \$2.00

69c

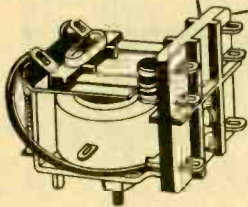
Biggest parts bargain ever for experimenters, hobbyists, etc. Over 80 American made parts on each board. At least 10 transistors included plus diodes, capacitors, resistors, etc. Buy plenty while they last. No. 18A906. Extra Special **69c**



RELAYS AT SMASHING BARGAIN PRICES!

**115 VOLT AC
8 AMP. DPDT
POWER
RELAYS**

\$3.25



TOP AMERICAN MAKE You will be more than pleased!

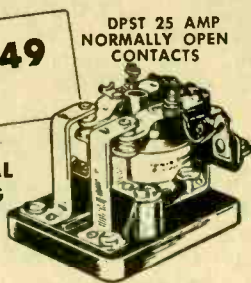
Compact size, molded bakelite barrier, nylon bobbin, quiet continuous duty operation plus absolutely beautiful construction. Size 1x1 1/8x1 1/4" H. Single 6-32 stud mounting.

No. 19A550. DPDT 8 Ampere. Special Each... **\$3.25** 10 Lots Each... **\$3.05** 100 Lots, Each... **\$2.85**

**115 VOLT AC P & B
HIGH POWER RELAY**

\$3.49

UNUSUAL SAVING



DPST 25 AMP NORMALLY OPEN CONTACTS

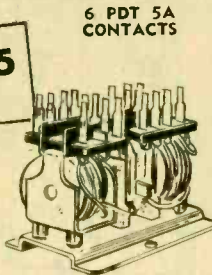
Seldom found at bargain prices. Heavy duty, quiet operating—made for continuous service. Molded phenolic base 2 1/2 x 2 1/8 x 2 7/8" H. Screw terminals. None better for controlling motors, big transformers, etc. Potter & Brumfield PR7 series.

No. 18C411. Special Each... **\$3.49**

**115 VOLT AC P&B
LATCHING RELAY**

\$3.95

Reg. Net \$12.60



6 PDT 5A CONTACTS

Operates by momentary pulse at 115 V. AC power to either coil. Armature latches mechanically; is released by pulsing other coil. Has almost unlimited applications for remote control. Contacts easily paralleled. 2-hole channel mounting, 2x2 3/4 x 2 3/8" high. Wt. 6 oz. P&B series PKB23AY.

No. 18C951. Special Each... **\$3.95**

YOU SAVE \$\$\$ ON THESE SPECIAL **BARGAINS**

RELAYS

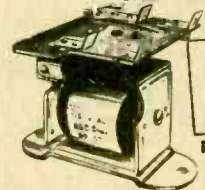
ALL ARE BRAND NEW! FULLY GUARANTEED!



**SPST 115 VOLT AC
LATCHING IMPULSE
RELAY**

\$2.95

REG. COST UP TO \$8.00



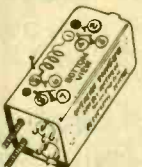
Contacts are alternately opened or closed on momentary application of coil voltage and remain in last position until next impulse. Contact arrangement, SPST, 10 amps. Excellent for push button on-off remote control. 1 1/2 x 2 1/4 x 2 1/4" H. Made by Automatic Electric, Div. of Telex No. 18A947.

Special Each... **\$2.95**

SIGMA HERMETICALLY SEALED SENSITIVE DPDT 9000 OHM RELAY

\$2.95

AT LEAST A \$15.00 VALUE



Highly sensitive, precise operating relay perfect for circuit control in light cells, alarms, model controls, counting and sorting devices, etc. Highly shock resistant. Size only 1 3/4" high x 1" square. DPDT contacts rated 2 amps. 50 MW operating sensitivity. Simple 2 stud mounting. Hook type solder terminals. Diagram on each relay.

No. 18C924. Special Each... **\$2.95**

**C. P. CLARE
MERCURY WETTED
CONTACT RELAY**

A rare buy at a fraction of reg. cost.



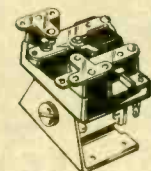
HG1077 SPDT 5 amp contacts with 4000 ohm coil operates on 7.2 milliamp pull-in, 6.2 milliamp release. Octal plug in base, diagram shows pin connections. Hermetically sealed in high pressure hydrogen. Features billions of operations at speeds up to 60 per second with no contact wear or bounce. Guaranteed brand new. 2 5/8" high, 1 1/8" dia. above octal base. Wt. 4 oz.

No. 18C912. Net Each... **\$4.95**

**ADVANCE HI-CURRENT
24 VOLT DC RELAY**

Reg. Net \$6.90

\$1.88



• SMALL SIZE
• STURDY CONSTRUCTION

Features small size, sturdy construction. A natural for control circuits up to 15 amps. DPST. Size 1 7/8" high, 1 1/2" wide, 1 3/8" long. 6-32 tapped holes in base. Wt. 4 1/2 ozs.

No. 18B793. Special Each... **\$1.88**

SAVE 50% AND MORE ON AC POWER RELAYS!

ALL HAVE 110 VOLT 60 CY. AC COILS



\$2.19

You Would Normally Pay Over \$6.00

① Comar 4PDT 2 Amp. Unusually fine construction. Especially well suited for control circuits. 2 1/2 x 1 1/4 x 1 3/4" H. No. 18C200. **\$2.19** 10 Lots, **\$1.99** Spec. Each... Each...



\$1.19

REGULAR NET VALUE \$3.50

② Philtrol SPDT 5 A. Contacts Coil has solder lugs. Size 1 1/8 x 1 1/2" H. Reg. net at least \$3.50. No. 18C357. **\$1.19** 10 Lots, **99c** Spec. Each... Each...



\$1.59

REGULAR NET VALUE \$3.65

③ Philtrol 3PDT 5 A. Contacts Coil has solder lugs. Size 1 3/4 x 1 1/4" H. Reg. net at least \$3.75. No. 18C359. **\$1.99** 10 Lots, **\$1.75** Spec. Each... Each...

④ Guardian DPST 4 A. Contacts. One normally open, one normally closed. Size 2 3/4 x 1 1/4" H. No. 18B107. **\$1.39** 10 Lots, **\$1.25** Spec. Each... Each...

⑤ Philtrol DPDT 5 A. Contacts Coil has solder lugs. Size 1 1/8" x 1 1/2" H. Reg. net at least \$3.60. No. 18C358. **\$1.79** 10 Lots, **\$1.59** Spec. Each... Each...

⑥ RBM DPST 10 A. Contacts. Size 1 3/4 x 1 1/2 x 1 1/8" H. Mtg. bracket removable. Reduces height 1/4". Reg. \$3.65. No. 18C106. **\$1.59** 10 Lots, **\$1.39** Spec. Each... Each...

SENSITIVE RELAYS AT UNMATCHED BIG SAVINGS!

\$1.69

Would Cost at Least \$2.15 Regularly



**MINIATURE SPST
5500 OHM DC RELAY**

Popular tiny style being used for model control, electronic automatic keys, etc.

Size only 3/4 x 1 x 7/8" H. 5500 ohm coil. SPDT contacts rated 1 amp. 2.9 MA operating sensitivity. Simple 2 hole mtg. Wt. 1 oz.

No. 18B199. **\$1.69** 10 Lots, **\$1.39** Spec. Each... Each...

99c

Insulated Nylon Construction



69c

A RED HOT BUY



**MINIATURE 115 V. AC
SPST N.O. RELAY**

Rated 3 amps @ 115 V. AC. May be used as sensitive 10,000 ohm DC relay. Popular miniature size for remote control applications. Single 2-hole mounting. Size 1 1/8 x 1 1/8". Big special purchase makes possible this low, low bargain price.

No. 18B270. **69c** 5 For **\$2.95** Special Each... For

**MINIATURE SPST
5000 OHM DC RELAY**

A real fine quality tiny size sensitive relay. Nylon bobbin provides complete insulation. Has adjustment for varying contact spacing to change operating sensitivity. Simple 2-hole mounting. Coil has wire leads. Size only 1 1/2" L. x 1" W. x 1 1/8" H. Wt. 1 oz.

No. 18C426 **\$1.19** 10 Lots, **99c** Spec. Each... Each...

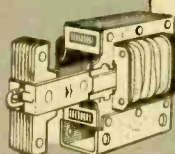
**EXTRA POWERFUL
110 V. AC SOLENOID**

BIG SAVING

\$1.79

Ea. 10 Lots

REGULAR NET VALUE OVER \$6.00



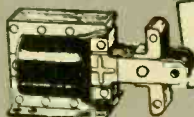
Most powerful, most useful we've ever offered. Exerts 20 to 30 lb. pull with 1" stroke. Armature positively positioned in core. Intermittent duty. Size 2 3/4" L. x 2 3/8" W. x 2 1/2" H. Wt. 1 1/4 lbs.

No. 18C739 **\$1.95** 10 Lots, **\$1.79** Spec. Each... Each...

**115 V. 60 CY.
AC SOLENOID**

99c

AT LEAST A \$3.50 VALUE



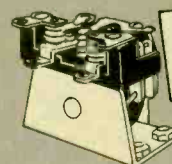
Popular size solenoid at a bargain price! Max. 55 oz. lift, 5/8" stroke. Intermittent operation. Frame size 2 x 1 1/4 x 1 1/2" high. Laminated armature positively positioned in frame. Mounting flange removable.

No. 18B308. Special Each... **99c**

**HEAVY DUTY 10 AMP
12 V. DC POWER RELAY**

\$1.69

Reg. Net At Least Double Our Price



Single pole, double-break, 10 amp. contacts. Heavy duty construction, very compact size. Excellent for ignition by-pass relay, DC mobile power supplies, automotive accessories. Coil resistance 85 ohms. Allied control style BO11. 1 5/8 x 1 1/2 x 1 1/8" H. Wt. 6 oz.

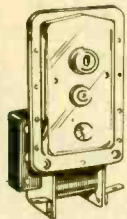
No. 18B807. Special Each... **\$1.69**

YOU SAVE \$\$\$ ON THESE SPECIAL BARGAINS

BLOWERS & MOTORS

ALL ARE BRAND NEW! FULLY GUARANTEED!

B-A Special Purchase GEAR DRIVE MOTOR



FOR 115 V. 60 CY.

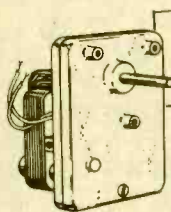
\$1.95

LIMITED QUANTITY

Fine quality shaded pole motor with enclosed gear train. Surprising amount of torque. 13 RPM clockwise rotation. Requires 1/4" flat shaft. Has clutch for free wheeling shaft when not running.

Originally made for RCA remote TV controls. Fine for building tuning devices, displays, barbecue pits, etc. Size 5 1/8" x 3 3/4" x 2 1/4". Shpg. wt. 1 1/2 lbs. No. 18B522. Special Each **\$1.95**

SLOW SPEED GEAR DRIVE MOTOR



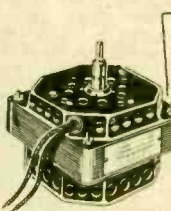
\$5.98

EXTRA WELL BUILT Has Many Experimental Uses

Continuous duty shaded pole induction motor. Fully enclosed gear train with 1/8" output shaft at 18 RPM develops high torque for all sorts of devices. Turns in counter clockwise rotation, but easily changed to turn clockwise.

Perfect for barbecue spits, displays, small machines, etc. Size 3x2 1/2 x 3 3/8" H. Wt. 2 lbs. No. 18B355. Special Each **\$5.98**

G.I. 4-POLE CHANGER & RECORDER MOTOR



\$3.59

SMOOTH, QUIET, HEAVY-DUTY

Shaded pole induction type, for 115 V. 60 cy. AC. 1/70 HP cont. duty 1740 RPM. Has plenty power for all sorts of devices... quiet fans, tape recorder-player mechanisms, record turntables, displays, etc. 1/8" shaft extends 1 1/8" one side, 1 5/8" other. Oilite bearings. 3 3/8" square, 3" below mtg. Wt. 3 1/2 lbs. No. 18B299. Special **\$3.59**

Smaller G.I. Motor similar to above. Single 1/8" x 7/8" shaft with 2 step pulley attached suitable for round or small V belts. Size 3" below shaft x 2 7/8" square. No. 18B307. Special **\$2.49**

WHOPPING SCOOP VALUES! 115 V. AC BLOWERS



\$21.20 Value **\$17.95**

\$11.45 Value **\$9.95**

\$12.90 Value **\$10.69** Pancake Style

\$24.95 Value **\$20.95**

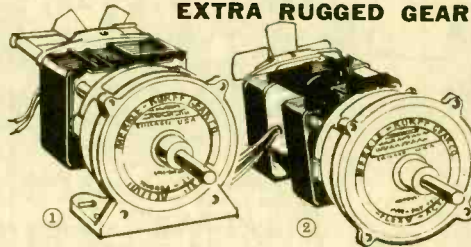
FOR COOLING, DRYING, VENTILATING, EXHAUSTING, ETC.

High quality, dependable, efficient, quiet-operating blowers. Have shaded pole induction type motors; smooth-running Torrington wheels; well designed glossy black enamel housings. Fine for photo dark-rooms, forced ventilation of appar-

atus, forced draft to furnaces, exhausting bad odors or harmful vapors in kitchen, lab, etc., cooling of tubes and equipment plus hundreds of other useful home, shop, or industrial applications. All are 115 V. 60 cy. AC. *Pancake style with internal motor for mounting inside chassis, etc.

Stock No.	Illus.	Air Cap. CFM	Free Air RPM	Full Load Amps.	Wheel Diam.	Intake Diam.	Outlet	Flange	Overall Size (Less Flange)			Lead Length	Wt. Lbs.	Mfg. List	Spec. Each
									H.	x	W.	x	D.		
4A82	(1)	320	1410	1.27	5 1/4"	4 3/8"	3 3/8" x 2 3/8"	4 3/8" x 4 3/8"	8 3/8"	11 1/8"	8 1/2"	12"	10	\$21.20	\$17.95
4A83	(2)	15	3160	0.21	2"	1 1/8"	1 1/8" Rnd.	2 1/4" Rnd.	3 3/8"	4 3/8"	3 3/8"	12"	10	8.75	7.75
4A201	(2)	100	2870	0.74	3 3/8"	3 1/8"	2 1/8" Rnd.	4 1/8" Rnd.	5 3/8"	6 3/8"	6 3/8"	12"	4 3/4"	11.45	9.95
4A84	(2)	140	3020	1.02	3 3/8"	3 1/8"	2 1/8" Sq.	5 1/8" x 4"	7 1/8"	8 3/8"	6 3/8"	12"	5	12.15	10.15
4A85*	(3)	108	1530	0.58	5 1/4"	4 3/8"	3 3/8" x 2 3/8"	4 3/8" x 4 3/8"	8 3/8"	4 3/8"	8 3/8"	12"	5	12.90	10.69
4A86	(4)	525	1570	3.25	6 3/8"	5 1/8"	5 3/8" x 4 1/8"	6 3/8" x 5 5/8"	11 1/8"	9"	10 3/8"	12"	14	24.95	20.95

EXTRA RUGGED GEAR MOTORS AT BARGAIN PRICES

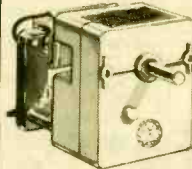


Unusually good construction and craftsmanship not found on ordinary motors. Provide high torque for tough motor applications. Shaded pole motor runs in any position. Fully enclosed die-cast oil tight gear case. Continuous duty operation. 4 holes spaced 2 3/8" apart on gear case for easy mounting. For 115 V. 60 cy. operation. Shpg. wt. 3 lbs.

① 9 RPM Counterclockwise Rotation. 1/4 x 7/8" shaft. Overall size 3 1/4 x 5 1/2". Also has mtg. feet on gear case. No. 18B408. Special Each **\$3.69**

② Electrically Reversible Motor. 11 RPM rotation. 1/8 x 7/8" Shaft. Overall size 3 1/4 x 3 1/4 x 5 3/4". No. 18B409. Special Each **\$6.95**

NEW COMPACT SIZE SLOW SPEED GEAR MOTORS FOR DISPLAYS, ROTISSERIES, MACHINES, EXPERIMENTERS



\$3.95

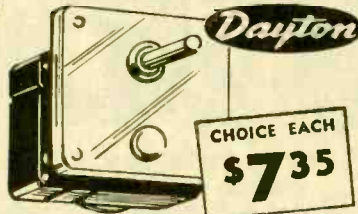
CONTINUOUS DUTY 115 VOLT, 60 CY. YOUR CHOICE EACH

Shaded pole motor with enclosed gear head, 1/4" dia. x 3/4" lg. output shaft, bronze bearings. Full load current 0.2 A. Mounts with 2 machine screws through gear housing. Size 2 1/8 x 1 1/8 x 2 1/2" max. behind mounting.

Stk. No.	Speed RPM	Torque In.-Oz.	Stk. No.	Speed RPM	Torque In.-Oz.
18B272	1	100	18B274	12	28
18B273	4 1/2	45	18B275	30	11

\$3.95

DAYTON EXTRA HEAVY DUTY SLOW SPEED GEAR MOTORS



CHOICE EACH **\$7.35**

FOR VENDING MACHINES, APPLIANCES, VALVE OPERATIONS, ETC. Long life dependable shaded pole gear motor. Bronze bearings. Continuous duty operation. Pre-lubricated gear train fully enclosed in die-cast housing with aluminum cover. Low noise level. All angle operation. Four 10-32 mtg holes in gear housing. 1/8" x 3/8" shaft. Size 2 1/8 x 2 3/4 x 3" behind mounting. For 115 V. AC 60 cy. Shpg. wt. 2 1/2 lbs.

Stk. No.	Speed RPM	Torque In.-Lb.	Stk. No.	Speed RPM	Torque In.-Lb.
18B276	1	50	18A281	25	9.25
18B277	7	35	18A282	35	7
18A278	18	13	18B283	50	4

YOUR CHOICE EACH

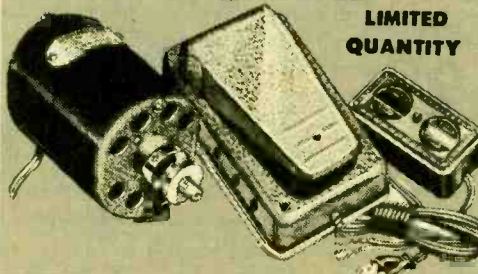
\$7.35

B-A EXCLUSIVE! 115 VOLT AC-DC MOTOR WITH FOOT CONTROL

- POWERFUL 1/15 HP AC-DC MOTOR.
- VARIABLE-SPEED FOOT CONTROL.
- CONNECTING CORDS, Plug and Receptacle.

AT LEAST A \$12.95 VALUE! ALL FOR ONLY **\$6.97** WHILE THEY LAST

LIMITED QUANTITY

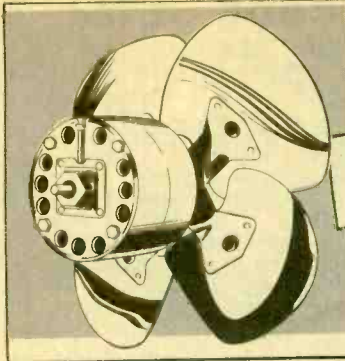


THE MOTOR. Powerful, series-wound brush type. Designed for sewing machine service, therefore ideal for other rugged duty jobs. Rotates counter clockwise. With full 115 V. AC 25 to 60 cycles, or 115 V. DC applied direct to motor, no-load speed is approximately 10,000 RPM. With foot control rheostat, speed can be varied smoothly from slow to fast. Exact degree of variation depends on motor load. Motor shaft is .250 dia., extends 1 1/8" from housing. Pulley supplied is for round or small V-type belts; attaches with set screw. Overall size: 2 1/4" high, 2 3/8" wide, 4 3/8" long exclusive of shaft. Mounts with two screws threaded into bottom of motor case, glossy black enamel finish, with attached 23" lead. Name plate rating 1.5 ampere.

FOOT CONTROL. A top quality, wire-wound resistance unit built for proper speed control of the above motor. Non-wearing slider arm gives control from full resistance to zero. Heavy steel housing has streamlined, modern shape, glossy black enamel finish, non-marring rubber feet. Terminals and other electrical parts fully enclosed for safety. Size 3 3/8" W, 5 5/8" L, 2 1/2" H. Supplied with 10' AC cord and plug and special plug-in junction block to accommodate motor and light or other device. Light outlet is independent of foot control.

No. 33C76. COMBINATION DEAL — Motor, Pulley, 6" round belt, Foot Control and Cord Assembly. Shpg. wt. 4 lbs. While They Last. **\$6.97**

Wonderful for powering motor driven models, toys, hobby tools, etc., to convert foot treadle sewing machines or just to gadget around with.



B-A EXCLUSIVE BUY! QUIET, HEAVY DUTY 10" FAN

\$6.95

CONTINUOUS
DUTY OPERATION

- Industrial quality for continuous use.
- Whisper quiet 4-pole Redmond motor.
- Dynamically balanced 10" blade.
- Moves 900 CFM.

Fantastic buy on a 10" fan of such extra high quality! Much better than used in home cooling fans. Has balanced armature motor like used in expensive tape recording drives and a 4 blade aluminum fan designed for high air delivery with minimum noise. Blade hub is machined steel with Allen hex screw. Use for air circulators, exhaust fans, heat boosters and all sorts of other uses. Bolts extend from motor housing for easy mtg. Motor 3 1/2" dia. Overall length 7". For 115 V. AC. Shpg. wt. 5 1/2 lbs. No. 18B28. Extra Special..... **\$6.95**

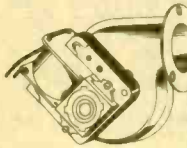
YOU SAVE \$\$\$ ON THESE SPECIAL BARGAINS

FAN, METERS TESTERS, TUBES



ALL ARE
BRAND NEW!
FULLY GUARANTEED!

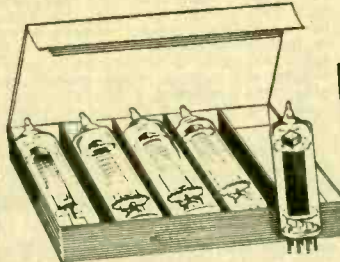
NEW DAYTON QUIET MIDGET BLOWER



\$5.95

Perfect for forced ventilation to cool equipment. Midget size makes it easy to install this blower inside cabinet or enclosure. Long life shaded pole motor. Very quiet torrington wheel blower delivers 15 CFM. 1 1/4" dia. output with 2 1/2" dia. flange. Mtg. holes in flange. Overall size 3x4x4 3/4". Shpg. wt. 2 lbs. No. 18A27. Special Each... **\$5.95**

PACK-OF-FIVE MINIATURE TUBES



\$2.49

OVER
80%
DISCOUNT

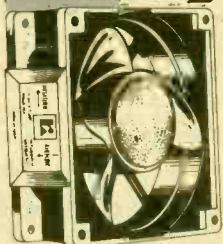
Fine
Quality
Import

MOST COMMON TYPES
IN AC-DC RECEIVERS
1-12AV6 1-50C5
1-12BA6 1-35W4
1-12BE6

Brand new and perfect, fully warranted by B-A at a tremendous savings. Just think, a whole set of 5 tubes for less than the retail price of one. Stock up now—buy several packs while they last. Quantities limited. No. 70A38. Pack of Five Tubes..... **\$2.49** 3 Packs For..... **\$7.00**

4-IN. "MUFFIN" FAN REPEAT OF A SELLOUT

\$9.88



RATED
100 CFM

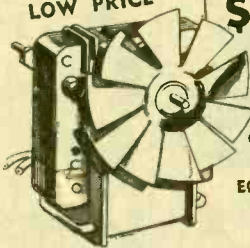
115 V.
60 CY.

Highly efficient, quiet operating, continuous duty. Made especially for circulating cooling air through electronic equipment, music systems, transmitters, etc. Very highest quality. Noiseless induction motor. Removed from new equipment—guaranteed perfect. Made by Rotron. 4 1/4" sq. x 1 1/2" deep. Wt. 3 lbs. No. 5B58. Special Each..... **\$9.88**

MIDGET COOLING FAN

AMAZING
LOW PRICE

\$1.69



FOR
COOLING
TUBES
AND
EQUIPMENT

Compact, just right for use in equipment for cooling tubes, transformers, and other components. Helps provide more efficient, longer-life operation. Powerful, quiet-operating, non-radio interfering motor with 2 1/2" aluminum fan blade. Frame size 2 3/8 x 1 3/8 x 3" high. For 115 V. 60 cy. AC. Shpg. wt. 2 1/2 lbs. No. 18B280. Special Each... **\$1.69**

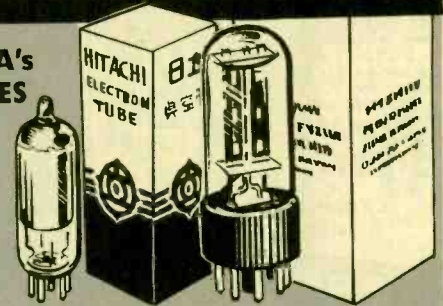
HURRY! HURRY!

TUBE PRICES SLASHED

BUY NOW AT B-A'S
LOW, LOW PRICES

STOCK UP
NOW

QUANTITIES
ARE LIMITED



Greatest tube sale event ever! Here are first quality TV and radio receiving tubes by such top makers as RCA, Raytheon, Hitachi, etc., at prices way below usual. Dealers and Servicemen stock up now and tuck-away extra profits. Hams, Hobbyists, etc., save \$\$\$ on repairs and building projects. Buy spares, too, while available at such tremendous savings. Buy with complete confidence, all meet the same high performance standards of tubes at regular cost. *High quality imports.

Please Specify Stock No. 72A1 and Tube Type

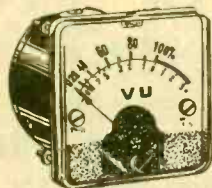
Tube Type	Net Each	10 Asst.	25 Asst.	Tube Type	Net Each	10 Asst.	25 Asst.
1B3, 1K3, 1G3GT	\$0.80	\$0.72	\$0.60	6BE6*	\$0.47	\$0.43	\$0.39
3BZ6*	.59	.54	.49	6BL7	.80	.72	.65
3CB6*	.59	.54	.49	6B06*	.99	.90	.81
5AM8	.72	.65	.59	6BU8	.63	.57	.52
5U4GB	.88	.80	.72	6C4	.36	.33	.30
5U8	.80	.72	.65	6CB6*	.63	.57	.52
6AL5	.44	.40	.36	6CG7/6FQ7*	.66	.60	.54
6AQ5	.55	.50	.45	6J6	.33	.30	.27
6AS5*	.66	.60	.54	6SN7GTB*	.88	.80	.72
6AU4*	.88	.80	.72	12AT7	.59	.54	.49
6AU6*	.39	.36	.33	12AU7A*	.66	.60	.54
6AW8	.80	.72	.65	12AX4*	.59	.54	.49
6AX4*	.66	.60	.54	12BE6*	.44	.40	.36
6BA6*	.44	.40	.36	35L6GT*	.64	.59	.55

SAVE! MINIATURE PANEL METERS

\$3.95

ONLY 1 3/8" SQUARE
LATEST MODERN DESIGNED
CLEAR PLASTIC CASES

Standard D'Arsonval moving coil type with zero set. Mounts in front or behind panel in 1 1/2" diameter hole. Silvered dial and At least a 50% savings.



black numerals. Precision quality import.

Stk. No. Type Each Stk. No. Type Each
17A552 0-1 DC Milliamps **\$3.95** 17A557 0-100 DC Microamps **\$4.95**
17A556 0-50 DC Microamps **4.95** 17B558 "S" Meter Cal. 0-9 **3.95**
VOLUME LEVEL (VU) METER. Calibrated in dbs. and percentage. **\$4.95**
No. 17A559. Net Each.....

POPULAR 2-IN. EDGEWISE TYPE

\$3.49

Precision moving coil instruments with zero set. Beautifully constructed, top quality throughout. Excellently shielded against magnetic fields. Scales calibrated black on bright metal with red pointer. Body molded plastic with clear plastic front. Mounts in 3/8 x 1 3/8" rectangular hole. Wt. 2 oz. No. 17B268. "S" Meter Cal. 0-10. Ea. **\$3.49**
No. 17B270. 0-1 DC Milliampers. Ea. **\$3.99**
No. 17B271. VU Meter. Each..... **\$3.99**



TESTERS FOR ADJUSTING & MONITORING TRANSMITTERS OR ANTENNAS

Forwarded/Reflected

Uses the same perfected design principles found in expensive instruments. Exceptionally well constructed. Measures relative power output and % reflected power on 52 ohm coax line. Transmitter output can be monitored continuously by leaving in circuit. Simple to use. Scale calibrated in SWR. Size 4 3/4 x 2 1/4 x 2". With SO239 connectors. **\$11.95**
35B576. Import Special

SWR - RF POWER METER

\$11.95

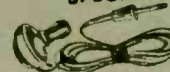


R. F. Field Strength Meter

Makes transmitter or antenna tuning quick and easy. Gives positive indication of radiated signal on sensitive microammeter. Has sensitivity adjustment, collapsible antenna. Includes crystal earphone for monitoring transmitter speech quality. Requires no battery. In gray enameled case 2 3/8 x 1 3/8 x 3 1/8" H. Magnet in bottom holds tight to any steel surface. Special Import Value **\$6.88**
No. 35B572.....

\$6.88

IMPORT
SPECIAL



YOU SAVE \$\$\$ ON THESE SPECIAL BARGAINS

AMATEUR AND CB

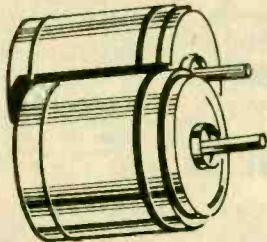


ALL ARE BRAND NEW! FULLY GUARANTEED!

MINIATURE 6 V. SYNCHROS

\$5.95 PER PAIR

FOR REMOTE INDICATORS



Miniature size for antenna direction indicators, for home-made weather instruments, experimenting, etc. Units are used in pairs, one at the source, the other at the remote indicating position. 5 wire interconnecting cable required. The shafts will remain precisely in step when external rotation force is applied to the shaft of the source unit. Made by Bendix for aircraft equipment. Designed for 26 V. AC @ 400 cy. use. Works efficiently from 6 V. AC @ 60 cy. Wiring diagram included. Size 1 7/8" x 1 1/8", shaft 1/8 x 1/4" long. **\$5.95**
188348. Shpg. wt. 1 lb. Per Pr...
188135. 6.3 V. AC Transformer. **\$1.19**

CRAMER RUNNING TIME METER

\$6.95



READS UP TO 9999.99 HOURS

Digital readout in hours, tenths and one hundredths. For measuring elapsed time or total running time. Commonly used on electronic equipment, transmitters, receivers, industrial machines, etc. Accurate clock motor runs on 40 V. 60 cy. AC. Resistor supplied for 115 V. AC. Body is 2 1/4" sq. 3 1/2" behind panel. Readout dials are behind 1 7/8 x 1 1/8" plastic face. Made by Cramer, Model BH, for an expensive computer. Being offered elsewhere for over \$30. Wt. 1 lb. No. 18829. **Special Each...\$6.95**



CIGARETTE LIGHTER PLUG

Fits 6 or 12 volt auto cigarette lighter. Has 32" leads and lugs. Use for emergency lights, CB equipment, recorders, TV and 100's of other uses. Quality import. No. 17C375. **Special Each... 69c**

SAVE ON THESE IMPORTED CODE SETS!

TRANSISTOR CODE PRACTICE OSCILLATOR



\$9.95 Key Included

Top import value compares with other oscillators selling for twice this price. Perfect for the learning beginner or the professional who wants to keep in practice. Variable pitch control. Switch selects tone, light or combination operation. Built-in speaker has sub-miniature headphone jack. Oscillator size 6 1/2 x 3 1/2 x 2 3/8". Key, batteries and instructions supplied. Shpg. wt. 2 lbs. **\$9.95**
No. 22A40. Complete Unit... **\$9.95**

CODE PRACTICE SET



\$1.95

NEVER BEFORE SUCH A LOW PRICE

FINE QUALITY

Beautifully made import. Gives clear steady "code note" at ample listening level, or will operate one or several pairs of headphones wired in parallel. Two sets, each with headphones and hooked together with wire will transmit code messages 100 ft. apart. Uses standard flashlight battery. No. 22A61. Less Battery. Wt. 1 lb. Net **\$1.95** For. **\$3.59**
No. 21A1. Battery for above... **14c**

B-A BARGAIN SPECIAL TELEGRAPH KEY



69c

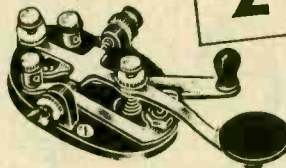
WORTH MUCH MORE!

Finest key we've seen at anywhere near this low price. Neat, import made with heavy 1/8" contacts, bright plated sturdy steel lever arm, fully adjustable spring and spacing, brass hardware, molded bakelite base. Wonderful for code practice or ham station operating. **69c**
No. 17A810. Special Each... **69c**
LEARNING THE CODE
ARRL Book provides basic instruction for sending and receiving.
No. 16A63. Each... **50c**

DELUXE BRASS FAST-ACTION SPEED KEY

We thought we had seen 'em all... but this one is different, even better than the famous J-38. Quadruple ball bearing pivots give key fast action... ideal for novice, perfect for high speed operator. Base is bright polished solid brass, silver contacts. Fully adjustable for the right "feel". Nickel-plated, knurled hardware, shorting lever switch and standard black knob. Believe us, this import is an unusual value and would ordinarily cost several times more. Shpg. wt. 1 1/2 lbs. No. 17B601. **Special Each...\$2.95**

IT'S EVEN BETTER THAN THE POPULAR J-38 SIGNAL CORPS KEY



\$2.95

HI-FREQUENCY BUZZER

FOR CODE PRACTICE

89c



Fine companion for key above. Gives clear, steady "code" note. Fully adjustable. Operates on single 1 1/2 V. battery. In molded bakelite case 2" dia. Imported, at lowest cost ever. **89c**
No. 22B51. Special Each... **89c**
21A1. ER950 Battery. Net Ea... **14c**
14B53. Clip-in Battery Holder
Net Each... **30c**

QUALITY HEADSETS AT LOWEST COST EVER!

Communications Quality IMPORTED HEADPHONES



\$1.69

Rugged, lightweight, polished black and white bakelite headsets. Offers extra sensitivity and fidelity, at big extra savings. For the novice ham—or general use. Hi-Flux magnet, adjustable headband, flexible 42" cord with tips. Shpg. wt. 1 lb. No. 17C545. **2000 Ohm. Net Each...\$1.69**

AMAZING LOW COST MAGNETIC HEADPHONE



69c

LIMITED QUANTITY

Real big savings on a rugged headphone. Polished bakelite case. Excellent for code practice, shortwave listening, etc., 1000 ohm. Durable 4 ft. cord attached. No. 18B302. **Special Each... 69c**

STETHOSCOPE TYPE CRYSTAL EARSET



99c

BIG IMPORT SAVINGS

Modern, lightweight, under-chin design. Fully adjustable. High impedance, wide range. 3 ft. cord. **99c**
No. 17B202. **Special Each... 99c**

COAX CABLES—READY MADE WITH CONNECTORS ATTACHED



AS LOW AS **\$2.95**

High quality American made coax cables with plugs attached. Eliminates troublesome problems of installing plugs. Saves time and money. For amateur and citizens band, fixed or mobile. 2B201. 20 Ft. RG58U, reducer and PL259 one end, lug terminals other end. Each... **\$2.95**
2A204. 20 Ft. RG58U with reducers and PL259 both ends. Shpg. wt. 1 lb. Each... **\$3.29**
2B207. 60 Ft. low loss Polyfoam RG8U with PL259 both ends. Shpg. wt. 7 lbs. Each... **\$9.45**
2B210. 100 Ft. low loss Polyfoam RG8U with PL259 both ends. Shpg. wt. 11 lbs. Each... **\$12.95**
See Page 132 for new low prices on long lengths of coax.

SAVE! COAX CABLE CONNECTORS



Stk. No.	Type	Each	10 Ea.
① 18A806	PL-259	\$0.45	\$0.42
② 18A805	SO-239	.45	.42
③ 17B185	M-359	1.24	.99
④ 18B809	PL-258	.85	.75

HIGH QUALITY CRYSTAL HEADPHONES

Professional quality to meet laboratory standards while priced within the range of ham, experimenter, hi-fi hobbyist, etc. Exceptional flat response from 65-13,000 cps. High impedance 85,000 ohms permits monitoring without appreciable effect on associated equipment. Adjustable double headband, chrome plated, covered with soft cushion plastic same as professional types used by airline pilots, etc. Cord with standard phone tips. Lightweight only 8 oz. Shpg. wt. 1 lb. No. 22A47. **Import Special...\$5.95**



LOWEST COST YET **\$5.95**

FREQUENCY RESPONSE 65-13,000 CPS.

15-SECTION TELESCOPIC PORTABLE ANTENNA

REG. NET AT LEAST DOUBLE OUR PRICE

\$1.95

46 3/4" COLLAPSES TO 5 3/4"
Dozens of uses—portable AM or FM radios, CB walkie-talkies, etc. Sturdy, all-brass, heavily chrome plated. Bottom section 9/16" dia., with 6-32" threaded hole for connection. No. 18C794. **Special Each...\$1.95**

MIKES AT SMASHING BARGAIN PRICES!

SENSITIVE DYNAMIC MICROPHONE



GIVE-AWAY LOW PRICE

88c

TINY SIZE... DIAMETER ONLY 1 3/4 IN.

B-A Buyers are constantly on the alert for unusual "finds" priced right for the electronic hobbyist. Such an item is this dandy little microphone/speaker with coupling transformer. Has many uses as a mike replacement cartridge, as an extra sensitive sound pickup device in detectaphone set-ups, etc. Tiny transformer supplied for high impedance 100,000 ohm amplifier input. **88c**
No. 18C609. Special.

CRYSTAL HAND MIKE

REG. NET \$5.70

\$1.99

PRODUCT OF FAMOUS AMERICAN MAKER



Top quality... originally intended for use with a 2-way radio selling for over \$125. High impedance, high output, wide range. Fine for home recording, paging, detectaphones, ham and citizens band gear, etc. Truly neat and compact. Grey plastic housing, 2 1/8 x 2 1/8 x 7/8", fits hand perfectly. 30 to 10,000 cps response. Output level -48 db. Attached 5 ft. shielded cable. Wt. 1/2 lbs. **\$1.99**
No. 18A62. Special Each.

CRYSTAL MICROPHONE

\$2.19



EQUAL TO MIKES SELLING 3 TIMES OUR LOW PRICE

Best mike value we've seen. Built and imported for use with a famous make tape recorder. High impedance with exceptional clear cut response and high output. Beautiful grey plastic case 3x2 1/4x1 1/4", for threaded desk stand or hand held use. 5 ft. shielded cable. Shpg. wt. 1/2 lb. No. 18A536. **\$2.19**
Special Each...
With Stand. 5" base dia. 7 1/2" H. with chrome stem. **\$2.99**
No. 18C129. Mike & Stand.

YOU SAVE \$\$\$ ON THESE SPECIAL BARGAINS

MIKES AND CONNECTORS



ALL ARE BRAND NEW! FULLY GUARANTEED!

MIKE CONNECTORS

24c **22c**

① Standard Female cable type. 14A320. **24c** 10 Ea... **21c**
② Standard Male chassis type. 14A321. **22c** 10 Ea... **20c**

HEAVY DUTY TYPE "5-WAY" BINDING POST



24c
Each 10 Lots

39c VALUE!
IMPORTED TO SAVE MONEY

NOW AT A PRICE EVERYONE CAN AFFORD

Takes up to No. 12 buss wire or pin tip through cross hole, spade lug or wire loop under the cap or banana plug in the top. Brass 10-32 hardware, heavy shank for high current, low resistance contact. Hex cap and mounting collar are insulated. Mounts 7/8" above panel, 5/8" dia. Specify choice Red or Black. No. 18C651. **27c** 10 @ **24c**
Special Each... **21c**
100 Lots, Each.

INSULATED FEED-THRU TERMINAL



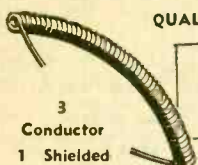
19c
Each, 10 Lots

WORTH MANY TIMES MORE

Tie-point terminal for mounting components, for high voltage and RF feed-thru, etc. Fully insulated. Leakage path 1/4". Mounts in 3/8" hole No. 18A73. **24c** 10 Lots, **19c**
Spec. Ea... **19c**

MIKE COIL CORD

QUALITY IMPORTS

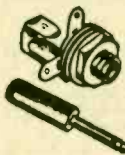


99c

3 Conductor
1 Shielded

1 Shielded—2 Unshielded conductors. Extends to 5 ft., retracts to 10". Tough, flexible grey vinyl jacket over vinyl insulated cadmium-bronze conductors. Far superior to ordinary cords. Ends stripped and tinned for easy installation. **99c**
No. 29C157. Top Quality Import

SUB-MINIATURE PLUG & JACK SET



29c
Ea., 10 SETS

WORTH AT LEAST DOUBLE

Real tiny size. Plug measures only 1 1/8" long overall x 3/8" dia. Solder type for 1/8" or smaller 2 cond. or shielded wire. Jack mounts in 1/4" hole in panel up to 1/8" thick. No. 17B465. **39c** 10 Sets, **29c**
Spec. Per Set

BARRIER-TYPE TERMINAL BLOCKS



Finest Kulka, same as Jones #141. 1 1/8" W. x 1/2" H. 3/8" centers.
10-TERM. 5 1/8" L. Reg. value 73c. No. 18C795. **55c** 10 Lots, **49c**
Spec. Each...
With 3/4" W. type lugs. Reg. \$1.04. No. 18C930. **69c** 10 Lots, **63c**
Special Each...
16-TERM. 7 3/4" L. Reg. value \$1.07. No. 18C929. **85c** 10 Lots, **75c**
Each...
20-TERM. 9 1/2" L. Reg. value \$1.41. No. 18C928. **\$1.06** 10 Lots, **89c**
Each

25 FOOT MIKE-AUDIO EXTENSION CABLE



\$2.39

FULLY SHIELDED

Standard 1/4" phone plug with plastic finger grip and portable jack molded to flexible (3/8" dia.) plastic silver-grey shielded mike cable. **\$2.39**
No. 2A233. Special Each...

TELEPHONE TYPE PLUGS AND JACKS

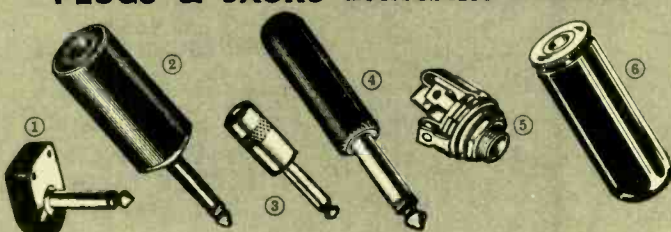
\$1.79 **99c** **89c**

① ② ③

Top Quality Import at Big Savings

Patterned like popular "telephone plugs" and interchangeable with them. Standard 4 wire type, with code marked screw terminals. Perfect for extension speakers, intercom systems, phones, etc. Surface jack, for exposed wiring, mounts with 2 screws. Flush jack, for concealed wiring, has fittings and wall plate for standard electrical outlet box. (Box not supplied). Specify Ivory or Brown.
① 17B275. Portable Plug. Ea... **89c**
② 17B276. Surface Jack. Ea... **99c**
③ 17B277. Flush Jack. Ea... **\$1.79**

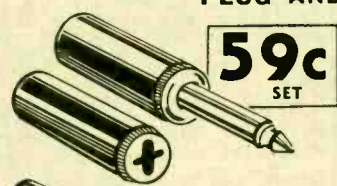
MOST POPULAR STANDARD 1/4" PHONE PLUGS & JACKS BARGAIN PRICED



① FLAT TYPE PLUG. Two conductor. Use where space is limited. Protrudes only 1/4". Bakelite shell. screw connectors 10 Lots, **53c** Each... **48c**
② STANDARD TWO-CONDUCTOR PLUG. For 1 or 2 pairs of phones with either pin tip or lug type cords. Bakelite barrel. 10 Lots, **29c** Each... **27c**
③ 3-WAY PHONE JACK For stereo headsets, etc. Mates with 1/4" 3-way plug as below. No. 17B126. **29c** 10 Lots, **25c** Special Each
④ SLIM IN-LINE JACK. Two circuit type for phone or mike extension use. Fits standard 1/4" phone plug. 1 3/4" long, 1/2" dia. Quality import. No. 17A338. **39c** 10 Lots, **35c** Each...
⑤ ALL METAL SHIELDED PLUG. Another top quality import value. 1/2" x 1 1/8" nickel plate brass shell. Two-way with solder lug connections. 59c value. **33c** 10 Lots, **29c** Each...
⑥ MODERN SLIM DESIGN PHONE PLUG AT BIG SAVINGS. Top quality import made. Neat 1/2" dia. x 1 3/8" long bakelite shell. Two-way with solder lug connections. Red and Black, please specify. 45c value. No. 17C665. **29c** 10 Lots, **27c** Net Each

PLUG AND JACK SET

FOR MAKING PHONE, MIKE, ETC. CABLE EXTENSIONS



59c
SET

Latest style slim design. Standard 1/4" plug and jack combination only 3 1/2 x 1/2" overall. Special import value. No. 17A350. **59c** 10 Sets, **52c** Per Set

SLIM SHIELDED PLUG

Big savings on fine quality import. Two-way with solder lugs and cable clamp. Standard 1/4" plug and slim style chrome shell. Compare at over 60c. No. 17D406. **39c** 10 Lots, **35c** Each

PL68 PLUGS

Popular 3 conductor mike plug for .206" dia. jacks as used with Collins, Gonset, and other communications gear. Reg. net over \$2.00. No. 18A385. **89c** 10 Lots, **75c** Special Ea... Each...

3-WAY PHONE PLUG

Finest quality import at a savings. Standard 1/4" plug with solder lugs. Black bakelite shell 3/4" dia. x 2" long. No. 17C285. Special Each... **49c**

YOU SAVE \$\$\$ ON THESE SPECIAL BARGAINS

**CORDS, WIRE,
SPECIALTIES**



**ALL ARE
BRAND NEW!
FULLY GUARANTEED!**

BELDEN 7½-Ft. HEAVY DUTY AC LINE CORD

**WILL OUTLAST
6 ORDINARY
CORDS**



**ONLY
44c**
Each
10 Lots

Heavy flexible, tinned copper conductors sheathed with liberal thickness of good live rubber and attached to rugged rubber plug with durable spring contacts. A superior, extremely flexible all purpose cord. Pearl gray. No. 19B800. 10 Lots, \$4.40 Special Each 49c Each... 44c

U/L AC LINE CORDS

Extra flexible "zip-apart" size 18 POT plastic cords with molded attachment plug. Free end stripped.

6 Ft. Brown or Gray, specify color. No. 19B911. 10 For... \$2.19
Choice Each 29c For...
7½ Ft. White 33c 10 For... \$2.49
19A918. Ea. For...
9 Ft. Brown 39c 10 For... \$2.99
19A909. Ea. For...
18 Ft. Gray 69c 10 For... \$5.99
19A917. Ea. For...

25 & 50 Ft. Heavy Duty EXTENSION CORDS

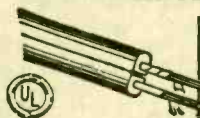


\$1.89
25 FEET

Moisture-proof extra flexible vinyl cord sets with "molded-on" UL approved caps and connectors. For indoor and outdoor use with power tools, appliances, lighting equipment, etc. Specify Black or Red.

±16-2 CONDUCTOR \$1.89
3A123. 25 Ft. Wt. 1 lb.
3A124. 50 Ft. Wt. 3 lbs. Ea. \$3.49

18/2 LAMP AND APPLIANCE CORD



\$2.60
100 Ft.

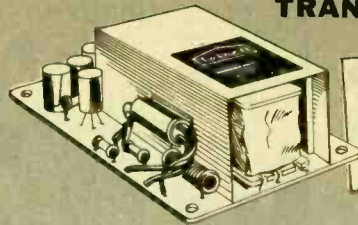
Highest grade, extra flexible plastic POT (SPT-1) zip cord with size 18 conductors. Fine for speaker hookups, AC extensions, etc. Brown or Ivory. 2B63. 83c 100 Ft. \$2.60
25 Ft. For...
1000 Ft. For... \$20.95

Cord Retainers

Wedge type fits 3/8 to 1/2" dia. holes. Grips two conductor zip cord firmly. Flexible black polyethylene. Import special. No. 17A784. Pkg. of 5... 49c



NEW SUB-MINIATURE 3-WATT TRANSISTOR AMPLIFIER

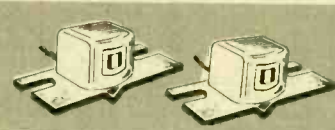


\$8.95

HIGH
IMPEDANCE
INPUT
8 OR 16
OHM OUTPUT

Push-pull 4 transistor amplifier. Power output sufficient for small P.A. systems and other audio applications. Specially designed shield eliminates hum pickup and serves as transistor heat sink. 2000 ohm input, 8 or 16 ohm output. 50-50,000 cps response, 6 mv in for 3 watt gain. Operates from 9 V. DC. Size 2 1/8 x 3 1/4" H. No. 17B315. Quality Import, Special. \$8.95

MINIATURE TAPE RECORDER HEADS



\$3.95

TOP
VALUE
QUALITY
IMPORT

Used in many makes of imported recorders. Perfect for building or experimenting. Universal mtg. brackets with 3/4 to 1" slotted mtg. holes and center pivot for easy, exact head alignment. Can be used without mtg. bracket. 1/2 track, DC res. 660 ohms; imped. 3500 ohms. Bias current .2 MA, erase 320 ohm, erase current 4 MA. Hardware and instructions included. No. 17B320. Import Special. \$3.95

STYLUS PRESSURE GAUGE

Dynamically balanced for highest accuracy. Measures 2 to 10 grams in 1 gram steps. No. 17A603. Import. Each 88c

88c

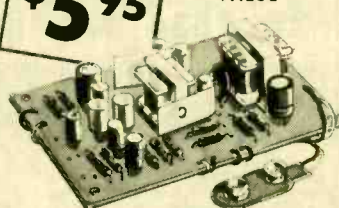
COMPARE AT \$2.50



4-TRANSISTOR SUB- MINIATURE PUSH-PULL AUDIO AMPLIFIER

\$5.95

BIG
VALUE



Measures only 3 1/2 x 2 x 7/8" yet provides 280 MW power output for use with phonos, tape recorders, PA, and many other audio devices. Two audio stages are followed by a push-pull output stage. Input impedance 550 ohm. Use crystal input transformer as listed below for phono cartridge or mike. Output impedance 8 ohms. Freq. response 210 to 10,000 cps. -4 db. Color coded leads assure simplified connection to speakers, volume controls, etc. Also has snap-on connector for 9 V. miniature battery. Printed circuit mounting board provided with 4 mounting holes. Circuit diagram included. No. 22C242. Special Each. \$5.95
No. 21A185. 9 V Battery. Each. 29c

Crystal Input Transformer. No. 17A634. Each. 89c

REMOTE CONTROL EXTENSION SET



\$1.19

Convenient on-off control of TV, Radio, Appliances, etc. from a distance. 10 ft. #18 plastic cord with switch at one end, plug-in receptacle at the other. Wt. 1/2 lb. No. 19A893. Brown CHOICE \$1.19
No. 19A894. Ivory EACH

CHROME-PLATED HI-FI PHONO PREAMPLIFIER

\$7.95

IMPORT
VALUE
COMPARE
AT \$14.95

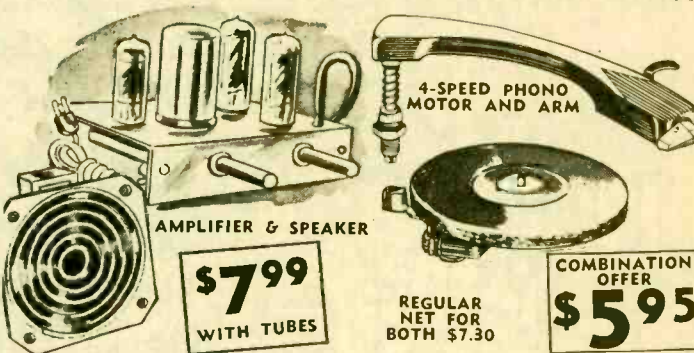


Provides extra stage of amplification for use with magnetic cartridges, tape players and microphones with amplifiers not having their own built-in preamplifier. Wide bandpass range (20-20,000 cps) insures perfect impedance match. Has slide switch for selection of proper equalization. R1AA (phono) or tape. Beautifully made, chrome plated. Surpasses units selling for considerably more. Self-powered for 110-125 volts AC. With 12AX7 tube. Shpg. wt. 2 lbs. No. 17A876. Special Each. \$7.95

STEREO PHONO PREAMPLIFIER

Similar to above but adds extra stage of amplification for using stereo magnetic cartridges and stereo tape players with stereo amplifiers not having built-in preamplifiers. Self-powered. With tubes. Wt. 4 lbs. No. 33A22. Special Each \$11.95

GIANT SAVINGS ON PHONO COMPONENTS HAVE FUN & SAVE — BUILD YOUR OWN PHONO!



TOP VALUE! 3 TUBE PHONO AMPLIFIER

• PLUS 4-INCH PM SPEAKER • FINE FOR STEREO CONVERSIONS
A real sweet deal! Fine quality amplifier as used in the better record players. Compact "L" shape, mounts in almost any position in smallest space. 3 tube (50C5, 12AV6, 35W4 rect.) for 2 watts output with excellent tone. Has separate volume and tone controls. 5 1/4" W. x 2 1/2" D. x 4 3/4" H. U/L AC-DC cord and plug. Includes heavy-duty 4" PM Alnico V Speaker and Output Transformer. Wt. 2 lbs. No. 22B87. Complete with Tubes & Speaker. \$7.99
No. 22B200. Amplifier only (less tubes). Net Each. \$3.99
ALLIANCE 4-SPEED PHONO MOTOR & PHONO ARM
Genuine top quality Alliance rim driven 8" turntable and 4-speed phono motor with retractable 45 RPM center adapter plus fine import quality phono arm complete with turnover cartridge with sapphire standard and microgroove needles. Motor requires 2 1/2" below mtg. plate. 115 V. 60 cy. AC. No. 37C181. Shpg. wt. 5 lbs. \$5.95
Both For \$4.95
No. 37B188. Alliance Phono Motor & Turntable Only. \$4.95

4 TUBE STEREO PHONO AMPLIFIER

Low cost way to stereo. Use with any record changer or player with crystal or ceramic stereo phono cartridge. Excellent tone quality with speakers of your choice, 5 in. to 12 in. Versatile L shape permits mounting vertically or horizontally. Tubes: 2-12AV6; 2-50C5. Separate volume and tone controls for each channel. Now includes output transformers for direct hook-up to 3.2 ohm speakers. 6 1/2" L., 2 1/8" W., 1 3/8" H. No. 22A399. Complete with Tubes... \$12.75



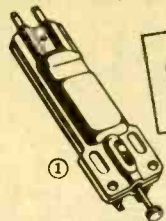
COMPLETE
WITH
TUBES

\$12.75

HIGHEST QUALITY 96" AUDIO CABLE

Molded-on Phono Pin Plugs Both Ends
Extra fine, extra flexible American made shielded audio cable with molded-on phono pin plugs. White plastic over-all. No. 17B127. Special Each. 79c

REPLACEMENT PHONO CARTRIDGES & ARMS



99c

FITS ALL PLAYERS

① UNIVERSAL ALL-GROOVE

For all players. Use with all-groove needle. Std. 1/2" mtg. Output 3 to 5 V., range 50-8000 cps. Top import quality. Less needle.

No. 17A629. **99c** 10 @ **90c**
Net Each. Each.

① CRYSTAL ALL-GROOVE

Standard replacement for single, 3 or 4 speed players using single needle cartridge. Only 3/4 oz. tracking pressure. 3.5 volt output. Rest clip and thumb screw needle chuck. Top American make. Needle Included.

16A622. **\$1.95** 10 @ **\$1.59**
Each. Each.



\$1.75

STEREO VERSION \$2.49

② UNIVERSAL TURNOVER

With sapphire standard and micro-groove needles. Regular 1/2" mounting for all changers and players. Output 3 V. Range 40 to 13,000 cps.

No. 17A673. **\$1.75** 10 @ **\$1.59**
Import Spec. Each.

STEREO VERSION of above.
No. 17A194. Import Spec. **\$2.49**
10 @ Each. **\$2.25**

② RONETTE TURNOVER

Popular type DC500 replaces virtually all monaural turnover cartridges. Fits 1/2" mtg. centers, has dual sapphire needles. 3 volt high output crystal is ideal for small phonos.

No. 17B605. Special Net. **\$1.97**

BIG IMPORT SAVING

\$2.35

③ PHONO ARM WITH TURNOVER CARTRIDGE

Fine for replacement or for building your own phono. Plays all 4 speeds. Sturdy lightweight retractable mounting type complete with turnover cartridge described at left (17A673), arm rest and hardware. Gray hammettone finish.

No. 22A385. Special Each. **\$2.35**

③ STEREO ARM & CARTRIDGE

As above, but with stereo turnover cartridge for playing all records—monaural and stereo. Output .3 V. Ivory finish.

No. 22A386. Special Each. **\$2.95**

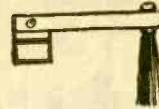
YOU SAVE \$\$\$ ON THESE SPECIAL **BARGAINS**

PHONO COMPONENTS



ALL ARE BRAND NEW! FULLY GUARANTEED!

RECORD BRUSH PROTECTS VALUABLE RECORDS



Prevents static & noise from dirt in record grooves. Attaches to any phono arm. 17C657. Net Each. **59c**

RCA TYPE 45 RPM CARTRIDGE

\$1.19



BIG, BIG VALUE
Top quality, exact physical and electronic replacement for 45 RPM RCA type players. Wide range frequency response 50-10,000 cps. 1 volt output. 1 mil sapphire stylus. Quality import.
No. 17B550. **\$1.19** 10 Lots, **99c**
Special Each. Each.

STEREO TURNOVER CARTRIDGE FOR VACO



Replaces ST-100, ST-20, ST-2. Crystal element is wide range, 16-20,000 cps high compliance, with excellent channel separation. With replaceable sapphire needles.
No. 60B77. Special. **\$1.95**

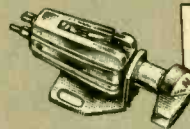
BIG SAVINGS ON FAMOUS MAKE STEREO CARTRIDGES

TAKE CARE OF 90% OF ALL REPLACEMENT NEEDS



MFG. LIST \$5.95
\$3.49

DIAMOND MODEL \$4.95



MFG. LIST \$5.95
\$3.99

WITH DIAMOND .7 MIL. STYLUS **\$5.95**



MFG. LIST \$15.95
\$4.77

DIAMOND STEREO NEEDLE

ASTATIC 13T CERAMIC STEREO CARTRIDGE

Most popular Astatic cartridge of all. Used in hundreds of top make phonographs and consoles. Ceramic element. Sapphire stylii tips, 20-15,000 cps response.

No. 17C567. **\$3.49**

ASTATIC 13TX CARTRIDGE

Extra savings on diamond model. Same as above, except with .7 mil diamond and 3 mil sapphire stylii. Mfg. List \$8.95.

No. 17C574. Special Each. **\$4.95**

RONETTE STEREO TURNOVER CARTRIDGE

Save dollars on this extremely popular cartridge. Sapphire stylii for all records—monaural and stereo. Freq. Resp. 30 to 14,000 cps. 4-6 grams tracking pressure. Standard 1/2" mtg. centers.

No. 17A446. **\$3.99**

Special Each.

WITH DIAMOND STYLUS for stereo and LP, sapphire for 78 RPM.

No. 60A8. Special Each. **\$5.95**

EUPHONICS U11 CERAMIC STEREO

Fine quality cartridge used in thousands of phonographs. Also exact replacement for EV-26 and similar cartridges. Ideal for improving fidelity of present phono or in converting monaural to stereo. Freq. response 16-25,000 cps. 2 grams tracking force. Snap-in bracket supplied for standard 1/2" mtg., .7 mil dia. stereo and 3 mil sapphire flip-under needle.

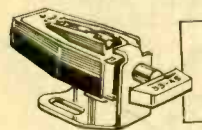
No. 17B71. Special Each. **\$4.77**

REPLACEMENT DIAMOND STYLUS

No. 60B13. **\$1.89**

Special Each.

POPULAR VACO TURNOVER CARTRIDGES



\$2.89

Vaco Stereo Turnover with mtg. bracket. Type ST2X as used in most BSR, VM, etc. changers. Has standard 1/2" mtg. Also threaded for single hole mtg. Replaceable sapphire stylii.

No. 17A74. **\$2.89**

Special Each.



\$1.95

Vaco Turnover. Popular TO-45 used in thousands of changers and players. Will replace most other makes of monaural turnover cartridges. Limited quantity. Replaceable stylii.

17B106. **\$1.95** 10 @ **\$1.75**

Spec. Ea. Each.

BIG PRICE SLASH ON GENUINE DIAMOND NEEDLES

LOWEST PRICE IN B-A HISTORY!



NOW ONLY

\$1.89

Daring B-A deep price slashes on finest quality hand cut, polished diamond needles. Nowhere will you find a needle of such high quality at such low cost. Last for longer than regular needles with far less wear to records. Every one carries full one year guarantee. Just return for replacement. Made especially for B-A by leading needle manufacturer.

- ① For GE RPX Series. Stylus assembly replaces RPJ-013A with 3 mil sapphire and 1 mil diamond tips. 60B128. Special, Net Each. **\$1.89**
- ② For GE RPX Series. 1 mil diamond "slip-in" stylus only, to fit above assembly. Replaces RPJ-01D. 60A85. Special, Net Each. **\$1.89**
- ③ For GE VR11 Series. 1 mil diamond "slip-in" stylus replaces 4G01D. 60A37. Special, Net Each. **\$1.89**
- ④ For GE VR227. .7 mil diamond stylus replaces VR222. 60B15. Special, Net Each. **\$1.89**
- ⑤ For All Ronette Monaural. 1 mil diamond stylus for TO 222, 284, 400, etc. Also used in Vaco. 60B131. Special, Net Each. **\$1.89**
- ⑥ For Astatic Stereo 76T5, 86T5; Vaco Stereo T45. .7 mil dia. tip. No. 60C124. Special Each. **\$1.89**
- ④ For Vaco ST100, ST-20, etc. .7 mil diamond tip. 60B14. Special, Net Each. **\$1.89**
- ⑤ For E-V 21 and 26 Series. .7 mil diamond tip. 60B150. Special, Net Each. **\$1.89**
- ⑥ For Ronette Stereo. .7 mil diamond stylus for OV, BF40, etc. 60B148. Special, Net Each. **\$1.89**
- ⑦ For Sonotone 8T & 8TA Series. Replacement for the most popular Sonotone stereo cartridge. .7 mil diamond and 3 mil sapphire tips. 60A11. Special, Net Each. **\$1.89**
- ⑧ For Sonotone 2T Series. 1 mil diamond and 3 mil sapphire tips. Popular N2T type. 60B130. Special, Net Each. **\$1.89**
- ⑨ For Euphonics U-8 and U-9. .7 mil dia. and 3 mil sap. tips. 60B13. Special, Net Each. **\$1.89**

B-A/SHURE 7D STEREO HI-FI CARTRIDGE



COMPARE AT \$15.00
\$9.95

Made exclusively for B-A by Shure, manufacturer of World-Famous M7D-M3D Cartridges. Replaces Shure M7D, M3D, Pickering U38AT or any other equivalent high fidelity stereo magnetic type cartridge. Absolutely no compromise in quality or performance at B-A's special low, low price. Frequency response 20 to 20,000 cps. 4-7 grams tracking. More than 20 db. separation at 1000 cps. Output voltage 4 mv per channel at 1000 cps. Uses Shure N3D or N21D standard replacement diamond needles.

No. 60B69. Special. **\$9.95**

MITY-AMP 2-WATT MINIATURE TRANSISTOR AUDIO AMPLIFIER MODULE

For Hi-Fi, Phono Amp, Public Address, Intercom, Signal Tracer, Modulator, Tape Recorder Monitor, etc.



\$8.95

Operates on 6 or 12 V. DC
Only 2 x 3 1/2 x 7/8"

Tiny yet powerful! Uses limited only by the imagination! Completely epoxy encapsulated—shockproof—waterproof—dustproof. Has terrific frequency response, 20 cps to 15,000 cps +2 db at 1 watt level. Needs only .5 V. audio signal at 45 ohms to 50 K ohms input impedance to produce a crisp, clean, 2 watt audio output for any speaker with 3.2 to 45 ohm voice coil. Wt. 10 oz.

29B117. With Applications Booklet. **\$8.95**

BA BARGAINS

YOU SAVE \$\$\$ ON THESE SPECIAL

POPULAR ASSORTMENTS



ALL ARE BRAND NEW! FULLY GUARANTEED!

SAVE ON SEE-THRU PARTS CABINET



\$5.99

The perfect way for storing small items and parts. Crystal clear heavily molded plastic drawers, 5 3/4" L x 2 1/2" W x 1 1/4" D, are spillproof and divide into several compartments with removable dividers included. Sturdy steel gray enamel finished cabinet, size 9 1/8" x 13 1/8" x 6 1/4" D with 24 drawers. No. 40B96. **\$5.99**

WITH DEEPER DRAWERS FOR LARGER ITEMS

Same size and construction as 24 drawer above, but with 16 deeper drawers (1 7/8") for tubes, batteries, film, and other larger items. Perfect companion piece to above. Shpg. wt. 6 lbs. No. 36B80. Special Each. **\$5.99**

BUY A PAIR AND SAVE

One each of 24 drawer and 16 drawer. No. 36B89. Per Pair. **\$11.88**

CLEAR PLASTIC BOXES ONLY



39c

Handy for condensers, resistors, switches, and all types of small radio hardware. Size 7 x 3 1/2 x 1 1/4". With hinged lid. 10 Lots, **36c** 18A1268. Ea. **39c** Each.

FAMOUS B-A WAREHOUSE ASSORTMENT

? VALUE \$1.95

New Modernized Version... Greater Than Ever



3 Lbs. Chuck Full of Costly Electronic Parts and Hardware... Switches, Condensers, Resistors, Controls, Transformers... etc, etc.

A package to truly amaze you! A tremendous value at only a small fraction of the original cost. Definitely not the usual floor sweepings but very useful and costly parts. Try one! If you are not happy blame our Boss Warehouseman, but we will give you your \$1.95 back. No. 3B183. Assortment. **\$1.95**

BUY ASSORTMENTS WITH CONFIDENCE! EVERY PIECE BRAND NEW - PERFECT

B-A quantity purchases bring them to you at worthwhile savings. In many instances the value of one piece alone is worth more than the price shown for the complete assortment.

MATCHED EQUIPMENT KNOBS



99c

Machined aluminum for the finest audio equipment. 3/4" dia., 3/4" high. With set screw. For 1/4" shaft. No. 18C126. 4 for. **99c**

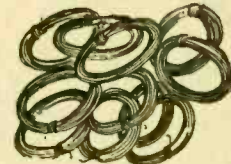
100 MOST NEEDED INSULATED RESISTORS



\$11.25 NET VALUE ONLY **\$2.99**

Highest quality Insulated resistors in popular resistances. All American made, mostly small types by AB, IRC, Stackpole, etc. Includes .75-1/2 W. and 25-1 W. No. 19B796. Asst. of 100. **\$2.99**

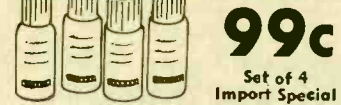
200' Plastic Insulated HOOK-UP WIRE



8 COILS ONLY **\$1.88**

8 Coils, Assorted Colors high quality thermoplastic insulated hook-up wire. All size 20 stranded copper wire in popular colors... red, gray, green, blue, yellow, etc. 2A81. Asst. of 200 Ft. **\$1.88**

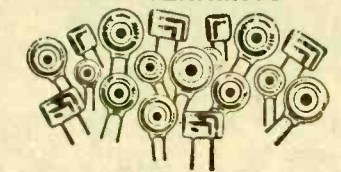
MARKING PENS



99c Set of 4 Import Special

Miracle writing felt tip writes on any surface, paper, metal, plastic, etc. Large, easy to read lettering and numbering. Waterproof ink dries instantly. Four colors: Black, Blue, Red and Green. No. 11B349. Per Set of 4. **99c**

MITE SIZE CONDENSERS DISC CERAMICS



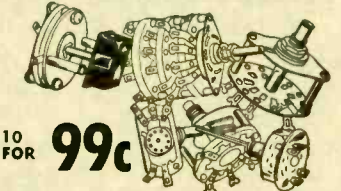
25 Assorted top quality midget size disc ceramics in most needed capacities. Just right for today's miniaturization. Assortment worth at least \$3.75 regular. No. 18A323. 25 Assorted. **99c**

10 TWIST-TYPE ELECTROLYTICS



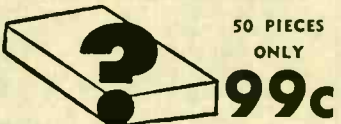
Ten Assorted, including both singles and duals, in popular capacities and voltages. All new, fully guaranteed. A terrific value. One or two is worth the price of the entire assortment. No. 18B63. 10 Assorted. **\$2.39**

ROTARY SWITCHES



10 FOR **99c** Assortment of Ten—any one of which is worth more than the price of the lot. Anyone experimenting or building will find good use for all. No. 18A436. Asst. of Ten. **99c**

PARTS ASSORTMENT



50 PIECES ONLY **99c** Consists of a mixture of various type Condensers, Resistors, Switches, etc., as in assortments on this page. A real Surprise Package. No. 17C371. 50 Pieces. **99c**

30 SUB-MINIATURE 15 W.V. ELECTROLYTICS



LATEST UPRIGHT MOUNTING **\$3.95** KIT OF 30

Tiny electrolytic condensers used in transistor radio and other miniature circuits. All 15 W.V. Kit contains 5 each 6, 30, 50 and 100 mfd; 10 each 10 mfd. Big import savings. No. 17B526. Kit of 30. **\$3.95**

25 MOLDED MYLAR TUBULAR CONDENSERS



\$6.00 VALUE **\$1.88** 25 Asstd.

Less than 8c each for super high quality condensers that usually cost from 15c to 55c each. Contains 12 —600 V.; 9—400 V.; 4—200 V. in always popular sizes. No. 18B401. 25 Asst. For. **\$1.88**

10 TUBULAR ELECTROLYTICS



\$2.49

Includes 1 each 25, 50 and 100 Mfd. @ 50 V.; 40 @ 150 V.; 2 each 80, 80-20 Mfd. @ 150 V.; 8-8 Mfd. @ 450 V. . . . add it up! \$9.54 reg. value! No. 18C373. 10 Asst. For. **\$2.49**

SWITCH ASSORTMENT



10 FOR **\$1.39**

10 Assorted. Toggles, push-buttons, slides, and even expensive micro-switches. Use of 1 or 2 switches pays for the whole lot. No. 18A935. 10 Assorted. **\$1.39**

MICA CONDENSERS



35 Assorted popular capacities, some silver. All top quality with regular values to 25c each. A real terrific buy, over \$5.00 worth. No. 18B331. Asst. of 35. **99c**

FERRITE BAR ANTENNA COILS



Set of 3 **79c**

Replaces coils in most transistor radios. Sizes 2 3/8", 2 1/8" and 1 3/4". No. 17D121. Set of 3. **79c**

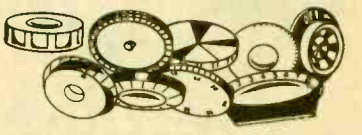
50 MOLDED PLASTIC TUBULAR CONDENSERS



\$9.00 REGULAR NET VALUE **\$1.99**

Popular selection of 200, 400 and 600 V. highest quality plastic impregnated condensers. Includes a wide range of capacities, all very useable sizes that regularly cost from 15c to 51c each. No. 18A232. 50 Assorted. **\$1.99**

50 TV KNOBS—HANDY For REPLACEMENT



50 different types including concentric, channel selectors, tuning, etc. Valuable for service work. Use of 2 or 3 worth the cost of the entire kit. No. 18C312. 50 Assorted. **\$1.99**

FOOT BUMPER KIT



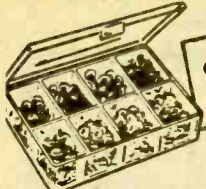
69c 16 PIECES Consists of 16 pieces, 4 sets of 4 matched bumpers. Includes recessed, tack and screw types, large and small. Mighty handy to have around. No. 18C23. Special Per Asst. **69c**

INSULATED RCA TYPE PHONO PLUGS



5 BLACK 5 RED **59c** Tight fitting plastic insulated sleeve over plug enables color coding stereo inputs, etc. and eliminates annoying shock hazard. 5 each Red and Black. No. 17B527. Kit of 10. **59c**

**YOU SAVE ON THESE EVERYDAY
HANDY BIG ASSORTMENT
SCREWS & HEX NUTS**



\$3.29

Always needed
small hardware

Consists of 100 each 4-40x1/2" and 6-32x1/4" RH machine screws; 1/4" dia. 4-40, 6-32 and 8-32 hex nuts; 50 each 6-32x3/4" and 8-32x1/2" RH machine screws and 75 No. 6x1/2" sheet metal screws.

No. 11A498. Per Assmt. **\$3.29**

RADIO HARDWARE

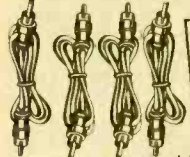


\$1.15

Nuts, washers, grommets, springs, clamps, eyelets, screws, etc. A part to fill practically any occasional need. Very handy for workshop or tool box. Over 600 pieces contained in a clear plastic box.

No. 11A335. Net Each . . . **\$1.15**

**HIGH FIDELITY
CONNECTING CABLES**



Import Saving
\$1.99
For 4

4 color coded, shielded connector cables. Each 36 inches long with RCA type pin plugs molded to each end. Includes black, green, red and yellow.

No. 17B686. **\$1.99**

TERMINAL STRIP ASST.

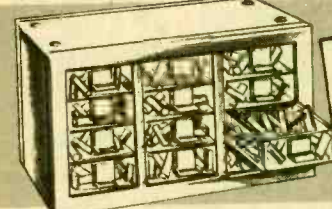


25 Assorted
49c

25 Assorted popular types in various lengths. Always needed by everyone who builds or repairs.

No. 18B9. 25 Pieces **49c**

CHEST FULL OF CONDENSERS



LIST VALUE
OVER \$60.00
\$9.99

155
Condensers
PLUS
METAL
STORAGE
CABINET

A B-A treasure chest value! Handiest, most complete deal of its type available anywhere! Contains the condensers most needed in everyday electronics work spilling over in handy metal storage unit included. Every piece top make. All at a fraction of regular price. Your average cost per condenser less than 7c and the cabinet is free. Just look at what you get: 20 Tubular Electrolytics, both single and duals, 50 Molded Tubulars, 200, 400 and 600 volts in most popular capacities; 50 Disc Ceramics; and 35 Midget Micars. 155 pieces total, all very useable values. Heavy gauge steel storage unit with "see-thru" clear plastic drawers measures 10" wide, 6 1/2" high, 6" deep. Regular net value cabinet alone \$2.99. Shpg. wt. 7 1/2 lbs.

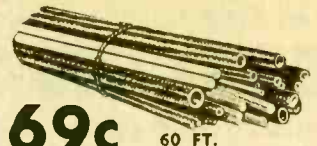
No. 18A233. COMPLETE KIT SPECIAL EACH **\$9.99**

CHEST FULL OF RESISTORS

250 RESISTORS PLUS METAL STORAGE CABINET
Another B-A fabulous offer, the perfect companion to the condenser deal above. Everyone will want a pair of these sensational money savers. Just a glance at regular prices is proof enough of the unmatched value! Average cost per resistor less than 4c and the cabinet is free. Here's what you get: 200-1/2 Watt and 50-1 Watt Insulated Resistors in most popular resistance values. All latest, small types by IRC, Stackpole, etc.; 250 pieces total—all brand new, fully guaranteed. Includes Metal Storage Unit, as with above. Shpg. wt. 6 lbs.

No. 18A235. COMPLETE KIT SPECIAL EACH **\$9.99**
No. 36B302. Extra Cabinets Type 12HBA. **\$2.99**

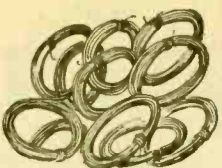
**NEEDED ITEMS!
HOT VALUE! BARGAIN
WIRE ASSORTMENT**



69c 60 FT.

A fine lot of assorted colors and sizes high grade extruded plastic and cambric tubing in 3 ft. lengths. Always handy for countless needs . . . and you get it at a fraction of regular value. Shpg. wt. 1 lb.

No. 18A284. **69c**
Per 60 Ft. Lot



250 FT.
99c

Highest quality thermoplastic insulated tinned copper #24 stranded hook-up wire in 5-50 ft. coils, assorted colors. Shpg. wt. 1 lb. A terrific buy, regular value at least \$2.70

No. 2A215. 250 Ft. Ass. **99c**

**2 LBS. OFTEN NEEDED
SELF-TAPPING SCREWS**

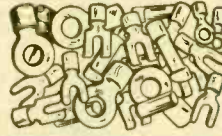


100's OF
PIECES
99c

Handiest hardware assortment you'll buy! A big variety of sizes and lengths in Hex, Phillips, Round, etc. — practically all head styles.

No. 11B385. 2 Lb. Assmt. **99c**

SOLDERLESS TERMINALS

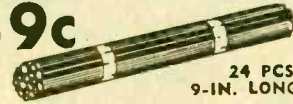


100
ASSORTED
\$1.89

100 Assorted most popular types and sizes as used with the Amp Hand Tool shown on page 106 includes ring tongues, slotted tongues, splice connectors, etc. An assortment that will pay its way many times.

18B742. Per Assmt. of 100. **\$1.89**

**BUNDLE OF SPAGHETTI
39c**

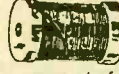


24 PCS.
9-IN. LONG

Handy bundle of 24 pieces, each 9" long, varnished high grade tubing in assorted colors and sizes.

No. 18A69. Per Assmt. **39c**

**No. 20 TINNED
COPPER WIRE**



Always handy to have around for ready use. Fine for space wound coils, "buss" wire, antenna wire, etc.

18A395. 10 Spools **20c**
Per Spool **24c**

**8 HEAVY DUTY
RUBBER FOOT BUMPERS**

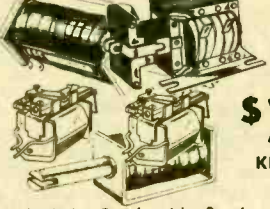


49c
FOR 8

Toughest, non-marring molded rubber with internal molded-in washer. 1 1/8" D. x 3/8" H. Mounts with single screw. Will handle heavy loads.

No. 18C191. Special, 8 For **49c**

RELAYS & SOLENOIDS



OVER
\$15.00
VALUE

\$3.95
KIT OF 5

Includes 2 solenoids, 3 relays. Most for 115 V. operation. Terrific value. One piece worth the cost of entire assortment.

No. 18A701. Special Assmt. **\$3.95**

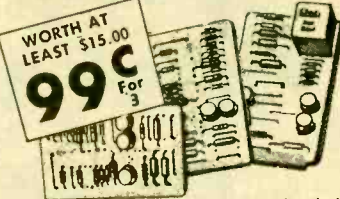
**YOU SAVE \$\$\$
ON THESE SPECIAL
BARGAINS**

**POPULAR
ASSORTMENTS**



ALL ARE
BRAND NEW!
FULLY GUARANTEED!

**COMPUTER BOARDS
LOADED WITH PARTS**



WORTH AT
LEAST \$15.00
99c
For 3

3 printed circuit boards, each loaded with brand new, high quality American made parts. Contains over 60 components in all. You get at least 10 transistors, miniature metal encased electrolytic capacitors and resistors, including 1% and 5% tolerance.

Can be easily desoldered and punched board used for dozens of projects. Wiring easily removed or jumpered. Board size approx. 3 7/8 x 2 3/8". Boards alone worth more than our unbelievable low price!

No. 18D377. White
Quantities Last, 3 For **99c**

**BIG EXPERIMENTER
SEMICONDUCTOR ASST.**

38 PIECES
LESS THAN
10c EACH

\$2.99
Complete Kit



Super value. A selection of most popular semiconductor. Experimenters and hobbyists will find hundreds of uses for this assortment. Contains: 4 PNP, 4 NPN and 2 power transistors, 4 2 amp. 200 PIV silicon rectifiers, 20 general purpose diodes and 4 3/4 watt zener diodes with marked voltages.

No. 41A222. Per Assmt. **\$2.99**

**200-FT. WIRE KIT
PREVIOUS SELL-OUT
BACK AGAIN!**



99c

CUT-STRIPPED, AND TINNED BOTH ENDS . . . READY TO SOLDER Saves time, work, and \$\$\$ too! Highest quality thermoplastic insulated hookup wire, machine cut, stripped and tinned, ready for instant use. No more fumbling around with cutters, strippers and the like. Simply pick the length and size needed and solder. Consists of several hundred lengths—4 inch to 2 ft.—in assorted colors, both solid and stranded, sizes 20 to 22. About the handiest wire assortment ever . . . at a fraction of its regular value. Shpg. wt. 1 lb.

18B316. Approx. 200 Ft., Ea. **99c**

SAVE \$\$\$ ON B-A's TOP QUALITY IMPORTS

• LATEST PROFESSIONAL DESIGNS

• AMAZINGLY FINE PERFORMANCE

ATTRACTIVE NEW BALL DESIGN

WAS \$13.95
NEW LOW PRICE
\$11.95

Our hottest hand-held dynamic

Looks and Performs Like Mikes Used by Professional Broadcasters

ALL-DIRECTION DYNAMIC MIKE

A real sweetheart in looks and performance! Equal sound pickup from all sides. Perfect size and weight to grip comfortably.

Excellent choice for all kinds of mike uses—voice or music. Hand held or fits 5/8" stand with slip-in adaptor supplied. Not affected by high temperature or humidity. Response 40-13,000 cps. Output -52 db. High impedance. Black and chrome. 1 5/8" top dia. x 6 1/4" long. Convenient on-off switch. Detachable 5 ft. cables. Imported at fantastic savings. Shpg. wt. 1 lb.

No. 29C348. Special Each... **\$11.95**

B-A'S MOST POPULAR MIKE!

CARDIOID DYNAMIC MICROPHONE

SINGLE DIRECTION PICK-UP

DUAL IMPEDANCE

Fine for PA, recording, both voice and music. Will stop or greatly reduce feed-back howl on PA systems and allow greater working distance from mike. Quickly changed from regular high impedance to 50 ohm low impedance, allowing long mike lines without frequency loss. Has off-on switch and detachable cable. Flat response 60-12,000 cps. Output -62 db. Swivel mounting for 5/8"-27 stands.

Shpg. wt. 1 1/2 lb.
No. 36B289. Special Ea... **\$13.95**

\$13.95

HANDSOME NEW STYLING!
TERRIFIC PERFORMANCE



LATEST DESIGN SLIM DYNAMIC MIKE

WAS \$13.95
NEW LOW PRICE
\$10.95

Latest slim design for hand held applications or fits stand with instant slip-on swivel adaptor supplied. Single direction pickup.

Fine for PA, paging, recording, etc. Compact and rugged, will withstand lots of hard usage. Not affected by high temperature or humidity. Response 40-12,000 cps. Output -52 db. High impedance. Handy on-off slide switch. Only 6 1/4" long, 1 1/16" diameter. Black and chrome finish. 5 ft. detachable cord. High quality import. Shpg. wt. 1 lb.

No. 29B349. Special Each... **\$10.95**

LAVALIER DYNAMIC MICROPHONE

Satin Chrome Finish
With 15-Ft. Cable

Exceptional value. High quality, fine performance, and attractive appearance are special features of this great mike. No better choice for applications when you need to move around leaving hands free. Dynamic high impedance unit adds ruggedness not found in ordinary microphones. Non-directional sound pickup. Complete with neck cord. Mike can be also hand held. Has 15-ft. attached cord. Response 50-5,000 cps. Output level -55 db. Beautiful satin chrome finish. Imported for big savings.

No. 29B330. Special Each... **\$10.95**

\$10.95

JACKPOT SAVINGS ON MICROPHONES

\$2.39

TINY... CONCEAL IN HAND OR CLIP TO CLOTHING

\$3.95

\$5.95

SAVE \$2.00 OVER OUR FORMER 1965 LOW, LOW PRICE

\$7.95

FOR LAVALIER, HAND HELD OR DESK STAND USE!

FABULOUS VALUES... COMPARE WITH MIKES AT 2 OR 3 TIMES OUR PRICE

CRYSTAL LAPEL MIKE

A natural for hidden detectors, hearing devices, etc. Non-directional and gives crisp, clear speech reproduction. Hi impedance, hi output type with spring clip for attaching. Weighs only 2 oz. Brushed bright metal case 1 5/8" dia., 3/4" thick with 55" cable. Wt. 8 oz.

No. 17B438. **\$2.39**
Special Each...
3 Lots, Each... **\$2.19**

SLIM HAND-HELD CRYSTAL MICROPHONE

With handy slide on-off switch and detachable 57" cable. Rugged and small, weighs only 6 oz. Tops for voice or music. Wide range response; output -65 db; high impedance. Beautiful satin finished bright cast metal housing 4 7/8" L, 1 1/8" max. dia.

Shpg. wt. 1 lb.
Supplied with swivel cradle holder for use of mike on floor or desk stand. Has standard 5/8"-27 thread.

No. 36A285. **\$3.95** 3 Lots, **\$3.75**
Special Each... Each

RUGGED DYNAMIC MICROPHONE

Especially suited for hard usage. Beautifully proportioned for desk stand or floor stand. Instantly removable from swivel stand adaptor for hand held "stick" mike applications; plenty rugged for PA, paging, recording, conference setups, etc. Response 80-8,000 cps, output -56 db. High impedance. Has slide type on-off switch and detachable 6-ft. cable. Approx. 7 1/2" long, 1 1/4" dia. black and chrome finished. Very nice indeed. Shpg. wt. 1 lb.

No. 29A409. **\$5.95**
Quality Import

ALL-PURPOSE SLIMLINE DYNAMIC

A high quality sensitivity mike. Perfect for recorders, paging, ham stations, lectures, etc. Pickup is non-directional. Dynamic high impedance unit. Gives crisp, smooth wide-range reproduction.

Case is beautifully finished in chrome and black, 3 1/4" x 3/4" dia. Response 50-13,500 cps. Output level -55 db. Detachable 5-ft. cable. Imported at great savings.

No. 29B350. **\$7.95**
Special Each

B-A LEADER VALUE MIKE FLOOR STAND

\$5.88

YOU CAN'T GET MORE STAND FOR THE MONEY

Holds ALL modern mikes without tipping—yet easy to use and move.

Full size brass tube stem is high-gloss double chrome plated. Easily adjustable from 35" to 64" in height by simple, damage-proof one-hand clutch, without mar or scratch on the chrome tubes.

Weighted 10" dia. base is finished in baked wrinkle enamel, has pads to prevent floor mars. 5/8"-27 thread. Shpg. wt. 9 lbs.

No. 32B15 Net Each... **\$5.88**

DESK MIKE STAND

Beautifully made import with 5/8" x 27 thread to fit all standard mikes. Gray plastic 5 inch diameter base with chrome finished 3 1/2" rod. Stays upright even with heavy mike. Shpg. wt. 1/2 lb.

No. 29B228. **\$1.35**
Special Each

BOOM ATTACHMENT

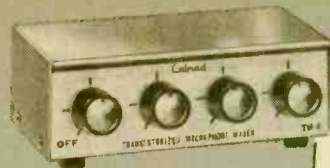
Centers mike over pickup area. Attach to 5/8"-27 stand. For piano and similar uses where regular mike stand can't be used. 32 inch chrome plated boom. Wt. 3 1/2 lbs.

No. 32B14. Net Each... **\$5.10**

\$1.35

\$5.10

4-CHANNEL TRANSISTORIZED AUDIO-MIXER-AMPLIFIER



\$7.95

COMPARE AT OVER \$20.00

FOR RECORDING-PA-AUDIO EXPERIMENTING

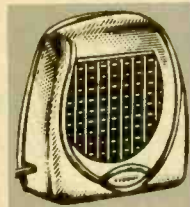
Adapts one to 4 high impedance sound sources, microphones, tuners, phonographs, recorders, etc., into a single high impedance input at your recorder or amplifier. Hum-free battery powered wide range transistor amplifier provides additional gain as desired. Separate gain controls for each channel allow mixing and fading without interaction. Input jacks are standard phone plug type; output, phono pin plug.

In gold finished case 5 7/8 x 2 3/4 x 2" H. with brown and gold knobs and mar-proof rubber feet. Shpg. wt. 2 lbs. No. 29A411. Imported at Big Savings. Special Each..... **\$7.95**

STEREO VERSION OF ABOVE

Same basic principles as unit above but has dual stereo circuits. Adapts 2 separate sets of 2 high impedance sound sources, microphones, tuners, phono records, etc. into two single high impedance inputs at your stereo recorder or amplifier. Shpg. wt. 2 lbs.

No. 31B93. Import Special..... **\$10.95**



CERAMIC MIKE

- NEW DESIGN AND FEATURES
- NEW SENSATIONAL LOW PRICE

\$3.49 U. S. A. MADE

Small enough, sensitive enough for concealing in pocket.

At last, the perfect mike for tape recording, public address, hams—what have you at a truly realistic price. Available for the first time with long-lasting ceramic element. Really rugged, not affected by high temperature or humidity. Small and lightweight... fits comfortably in hand, balanced and weighted to set squarely on desk.

Amazing performance! Frequency response 60-8500 cps. Output level: —45 db. Sturdy tan plastic case, 2 1/8" H. x 2 1/8" W. x 1" T. Weighs only 3 1/2 ozs. including 5 ft. attached cable.

No. 20B600. Special, Net Each..... **\$3.49**



TAPE RECORDER MIKE

\$1.99

PERFECT REPLACEMENT FOR MOST RECORDERS

High quality mike made by Euphonic. Made expressly for recorder applications. Small and extremely lightweight... designed for hand-held use or sits flat on desk. Finest quality for superior high output, wide range performance. Frequency response 30-10,000 cps. High impact grey and tan plastic body. Flexible 5-ft. cord. Wt. 3 ozs.

No. 18C699. Special Each..... **\$1.99**

HIGH QUALITY PJ-055B PHONE PLUG



84c REG. NET VALUE

BRAND NEW PRODUCTION! Not War Surplus. Designed especially for critical communications equipment to meet military specifications. A superior plug for any use. Fits standard 1/4"-2 conductor jacks. Metal parts are brass, precision machined. Internal insulation is blue, latest low-loss high dielectric type. Complete with lug terminals and brass screws. Don't miss this opportunity to stock up at terrific savings.

No. 18C897. Special Each..... **49c**
10 Lots, Each... **44c** 100 Lots, Each... **39c**

POPULAR AUDIO "Y" ADAPTERS

① Two RCA type phono jacks connected in parallel to RCA type pin plug. Chrome finish, fully shielded. No. 17A692. Import Special, Ea..... **69c**

② Two RCA type phono jacks connected in parallel and terminated into RCA type pin plug by 4" shielded cables. All connectors molded on to cable for durability. No. 17A696. Import Special, Ea..... **88c**

69c



88c



PHONE PLUG TO PIN PLUG ADAPTOR

Adapts microphones, headphones, cables, etc. having standard 1/4" phone plug to fit RCA pin jack on equipment.

No. 17A690. Imported Special Each..... **69c**
10 Each..... **59c**

BARGAIN PRICED

69c

FULLY SHIELDED



FEMALE MIKE CONNECTOR TO PHONE PLUG ADAPTOR

Converts standard screw-on cable connectors to fit 1/4" jack.

No. 18A318 **35c** 10 Lots **29c**
Spec. Each.....



DYNAMIC DUAL IMPEDANCE MIKE

PERFECT SOUND PICKUP IN ALL DIRECTIONS

SLEEK NEW STYLING
FINEST WORKMANSHIP
PERFORMANCE... PLUS!



ANOTHER FINE IMPORT VALUE!

\$16.95

Beautiful and very practical. So nice you simply must see it to fully appreciate the overall good looks, excellent performance and fine quality. Built for general purpose work of all kinds... PA, church, tape recording... wherever appearance and sound both count. Pickup is uniform in all directions. Response 50-15,000 cps, output —55 db, impedance 600 or 50,000 ohms allowing use of extra long mike line if needed. Head tilts from full vertical to horizontal, fits 3/8"-27 stand. Has slide on-off switch and detachable 2-cond. shielded 20 ft. cable. Size 8 1/2 x 1 1/2" max. dia. Brushed chrome with black perforated grille. Shpg. wt. 2 lbs.

No. 29B259. Special Import..... **\$16.95**

DELUXE ALL-DIRECTION DYNAMIC MIKE

Outstanding quality and superb design. General purpose mike for PA and recording applications. Exceptionally popular with musicians and entertainers. Long cord allows extra freedom of movement. Hand held design, or fits 3/8"-27 stand with slip-in adaptor supplied. Equal sound pickup from all sides. Rugged construction withstands lots of hard use. Has convenient on-off switch. Response 50-15,000 cps. Output —52 db. 18 ft. detachable cord. Brushed chrome finish. Amazing import value. Shpg. wt. 2 lbs.

No. 29B329 Spec. Ea. **\$14.95**



\$14.95

PROFESSIONAL DESIGN DYNAMIC MIKE SMOOTH NATURAL SOUND ON VOICE OR MUSIC

A beautiful mike you will be proud to own. Perfect for recording, public address, paging and general use. Completely versatile. Use on its own adjustable desk stand, for hand-held applications or on standard 3/8"-27 floor stands. Excellent sound pickup from all sides. Rugged construction. Withstands heat and shock. Die cast all-metal body and base. Has convenient off-on switch. Output —52 db. Response 50-15,000 cps. 6 ft. detachable cord with standard 1/4" phone plug attached. Block satin and brushed chrome. Imported to give you big savings! Shpg. wt. 2 1/2 lbs.

No. 29B275. Spec. Ea. **\$14.95**



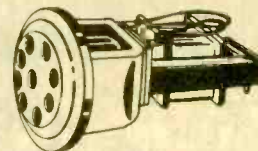
\$14.95

DYNAMIC MICROPHONE ELEMENTS TOP QUALITY—BIG IMPORT SAVINGS

Hi-impedance 50,000 ohm cartridges like used in high quality import mikes. Use for replacements or for built-in mike applications. Matching transformers attached.

Sensitivity —55 db. Response 50-12,000 cps. 1 1/4" dia. x 1 5/8" deep. No. 29A327. Special Each..... **\$4.95**

Sensitivity —52 db. Response 40-13,000 cps. 1 7/8" dia. x 1 3/4" deep. No. 29B328. Special Each..... **\$5.95**



B-A's SPECIAL VALUE

CERAMIC COMMUNICATIONS MICROPHONE

IDEAL FOR CITIZENS BAND—AMATEUR

All the wanted features. Made to B-A specs by a leading American Microphone producer. Has coiled cord, press-to-talk relay switch, ceramic long-life cartridge. Best ever for replacement on CB and ham equipment. Fine for all the new mobile rigs. Response 80-7,000 cps. Output —54 db. 5 ft. coiled cord. Professional grey plastic case silver trim.

Case only 3 5/8 x 2 1/2 x 1 1/2" T. With dash mtg. bracket. Wt. 1 lb. **\$5.67**
No. 29A277. Special Each.....

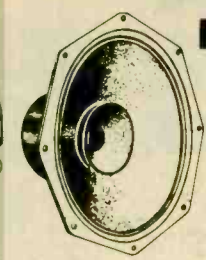
MADE IN U.S.A.

\$5.67





WORLD-FAMOUS NORELCO 8-INCH TWIN CONE HIGH FIDELITY SPEAKER



BIG PRICE SLASH!

ONLY
\$4.99

**EXCEPTIONAL
QUALITY AT
SURPRISINGLY
LOW COST**

Thousands sold at \$7.26. Now B-A special purchases permit even greater savings. You would usually expect to pay 3 times as much for equal quality. Ideal replacement for older type speaker in record players, TV sets, radios, etc., or for hi-fi systems where space is limited.

Handles up to 10 watts. Frequency response 75-19,000 cps. Impedance 4-6 ohms.

No. 34B207. Special Each **\$4.99**

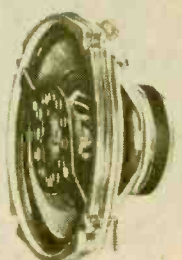
EXCEPTIONAL NEW COAXIAL HI-FIDELITY 8-INCH SPEAKER

SHALLOW DESIGN

\$9.95

**FULL-RANGE
40-18,000 CPS**

Features 110° wide-angle sound dispersion.



A whole of a lot of speaker at B-A's amazing low price. Real high quality. Full range, distortion free, true coaxial speaker for Hi-Fi, public address, paging and background music. Only 3 1/2" deep, mounts in standard 4" walls. Mtg. bracket provided for 70 volt transformer. 20 watts power, freq. response 40-18,000 cps, crossover at 2000 cps, screw terminals. Wt. 3 lbs. No. 34A379. Special Each **\$9.95**

AT LOW, LOW PRICES TOP QUALITY PM SPEAKERS

WITH ALNICO V HIGH EFFICIENCY MAGNETS
The measuring stick for speaker efficiency and its value is the Magnet Weight. Be sure you check when you compare prices. All have 3.2 ohm voice coils (except 32A70 and 22B59 which are 6-8 ohm and 22A125 which is 45 ohm for intercoms)

Size	Mag. Wt. Oz.	Illus.	Depth	Stk. No.	10@ Each	24@ Each	
3"	1.00	3	2 1/4"	22A235	1.75	1.59	1.44
3"	1.47	3	2 1/2"	22B74	1.92	1.75	1.59
4"	.55	3	1 1/2"	22C89	1.19	1.09	.99
4"	1.00	3	2 1/8"	22B77	1.39	1.29	1.29
4"†	1.00	3	2 1/8"	22A125	1.95	1.78	1.62
4"†	1.47	3	2 1/8"	22A124	1.93	1.75	1.58
5"	1.00	1	2 1/2"	22B78	1.59	1.49	1.49
5"	1.47	1	2 1/2"	22B79	1.99	1.81	1.65
5"	2.15	1	2 1/2"	22B316	2.35	2.14	1.95
6"	1.47	4	2 1/2"	22B81	2.09	1.89	1.89
6"	2.15	4	2 1/2"	22B82	2.69	2.49	2.31
8"	2.15	1	3 1/2"	22B52	2.99	2.79	2.45
8"	3.16	4	3 1/2"	22C96	3.59	3.39	3.09
8"*	6.8	4	4 1/2"	22B59	5.45	4.95	4.65
10"	3.16	1	4 1/2"	33B71	4.39	3.99	3.51
12"	2.15	1	4 1/2"	34B166	4.35	3.95	3.55
12"*	6.8	1	5 1/2"	32A70	6.95	6.35	5.84
4 x 6"	1.47	2	2 1/2"	22B80	2.09	1.89	1.89
5 x 7"	1.47	2	2 1/2"	22B62	2.59	2.38	2.18
6 x 9"	2.15	2	3 1/2"	22B53	3.29	2.99	2.65
6 x 9"	3.16	2	3 1/2"	22B83	3.59	3.29	2.89

May Now Be Assorted for Quantity Prices

12-INCH GUITAR SPEAKER



\$8.95

**EXCELLENT
MUSICAL
QUALITY**

Special design for optimum performance with guitars and other musical instruments. High efficiency for clear distortion-free sound at high volume. Exceptionally well made. Heavy basket frame and special cone designed for bass note reproduction of guitars. Made for B-A by a top American manufacturer. 6.8 oz. magnet, 1 1/2" voice coil. Shpg. wt. 5 lbs. No. 34B224. Special Buy **\$8.95**

12" COAXIAL SPEAKER



**SURPRISING
TOP
QUALITY!**

Remarkable
Buy!
\$9.95

Will improve tonal performance of any radio, TV, phono or hi-fi having single cone speaker. Appearance and performance of speakers costing many times more. Heavy duty 12" woofer (6.8 oz. magnet) with 3 1/2" tweeter. Crossover at 2000 cps. Rated 12 watts. Response 50-15,000 cps. 8 ohms. No. 34A309. Special Each **\$9.95**

AMAZING VALUE! 2 1/2" x 10" SPEAKER

Mount horizontally or vertically



\$2.99

FITS MOST UNUSUAL SPACES
Nothing else like it to compare! Fits where no other speaker will fit while providing unusually fine performance. Mounts horizontally or vertically in bookcases, cabinets, drawers... tucks away conveniently anywhere. Top make with 1.47 oz. Alnico V magnet. 3.2 ohm V.C. No. 22B282. Special Each **\$2.99**

6 x 9" TWIN-CONE TRU-FIDELITY SPEAKER



\$4.99

3.16 oz. ALNICO V PM MAGNET

Powerful heavy duty, high quality twin-cone speaker. Perfect for improved tone in record players, radios, TV sets, automobile radio dash and rear seat installations, etc. Electronic design and principle same as found in the more expensive high-fidelity speakers. Inner cone carries the high notes, outer cone the lows. 3.2 ohm V.C. No. 22B275. **\$4.99** 10 Lots, **\$4.49** Net Each

HEAVY DUTY 6x9" SPEAKER



10-WATTS RATING

\$2.99

3.16 OZ. ALNICO V MAGNET
Big, full range, high power speaker for music systems, auto rear seat installations, etc. Deep cone, dustproof 1" voice coil. 4-8 ohm. No. 22B359. Special Each **\$2.99**
POPULAR NEW OVALS
1.47 oz. Alnico V mag. 3.2 ohm 2x6" No. 22C236. List \$5.60 Ea...\$1.89
3x5" No. 22C237. List \$5.30 Ea...\$1.79
4x8" No. 22C238. List \$6.30 Ea...\$2.19

4-INCH PM SPEAKER WITH OUTPUT TRANSFORMER

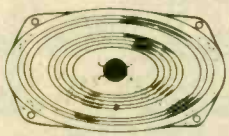


\$1.69

Heavy duty Alnico V PM speaker with 1 oz. magnet. Premounted transformer matches speaker to amplifiers, phonos, radios, etc., using 35L6, 35C5, 50B5, 50C5, 50EH5, 50L6, etc. 22C149. **\$1.69** 10 @ **\$1.55** Special Each

NEW MULTIPLE IMPEDANCE SPEAKERS

FOR USE WITH TRANSISTOR AUTO RADIOS
Use with transistor auto radios for replacement or rear seat speaker installations. Readily adjusts for 10, 20 or 40 ohm impedance. 6x9" of shallow design, only 2 1/4" deep. Heavy 2.18 oz. cup magnets, 1" voice coils. No. 22A395. 5x7". Net Each **\$2.99**
No. 22A396. 6x9". Net Each **\$3.49**



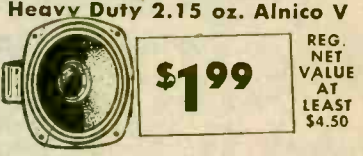
4x6 IN. PM SPEAKER WITH HEAVY 1.47 OZ. MAGNET



\$1.19

SAVE! B-A SPECIAL PURCHASE
An exceptional buy! Regularly worth over \$3.00. Right for replacements, rear seat speakers, etc. 3.2 ohm voice coil. No. 22A401. **\$1.19** 10 Lots, **99c** Special Each

8-INCH MAGNAVOX PM SPEAKER



Heavy Duty 2.15 oz. Alnico V

\$1.99

REG. NET VALUE AT LEAST \$4.50

Extra good quality—for music systems, PA, replacement, etc. 3-4 ohm voice coil. Wt. 1 1/2 lbs. No. 22C115. **\$1.99** 10 Lots, **\$1.85** Each

TWIN-CONE 6x9"



\$4.99

Big 6 oz. ceramic magnet for 10 watts of power. Whizzer cone for extended range tone. 3/4" V.C. Multiple imp. 10, 20 or 40 ohms. Shallow mtg., 2 3/4". No. 34C209. Special Ea. **\$4.99**
242

HEAVY DUTY 5" PM



\$1.39

Superior quality import at amazing low price. Worth at least double. Perfect for sweet 16's, replacement, etc. 2 3/8" D. 8 ohm V.C. 2.15 oz. magnet. No. 22A42 **\$1.39** 16 For **\$19.95** Special Ea.

6-INCH PM SPEAKER



\$1.69
Extra High Quality

Extended range. Clean, crisp freq. resp. 1000-15,000 cps. Heavy 2.15 oz. Alnico V magnet. 8 ohm V.C. 2 7/8" D. Shpg. wt. 2 lbs. No. 22C146. Special Each **\$1.69**

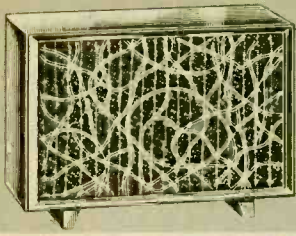
4" 45 OHM INTERCOM AND OUTDOOR THEATRE SPEAKER



\$1.99

Weather resistant type with 1.47 oz. Alnico magnet. Square 4" frame. Perfect intercom or theatre replacement. Correct impedance for many transistorized devices. No. 22C199. **\$1.99** 10 @ **\$1.79** Special Ea.

UNUSUAL VALUES IN EXTENSION SPEAKERS



WIDE RANGE SPEAKER In Walnut Enclosure WITH BUILT-IN VOLUME CONTROL
Complete, ready to hook up to any radio, TV, phono, hi-fi, etc. Beautiful Walnut finished hardwood enclosure with attractive modern grille. Completely enclosed for finest baffling of heavy-duty 6 1/2" PM speaker. Provides full wide-range tone. Built-in fader control varies volume without affecting other speakers in system. 4-8 ohm V.C. Shpg. wt. 8 lbs.
No. 34C194. **\$8.95**
Import Special



\$3.27

4-INCH PM SPEAKER IN WOOD BAFFLE
HANDY MIDGET SIZE—MOUNTED AND READY TO USE
Finished 2-tone natural wood miniature cabinet, closed at rear. Contains full 4" speaker with heavy magnet. 3.2 ohm V. C. Fine for intercom, remote or chairside TV-radio extension. A dandy speaker for code practice, short wave listening, audio experimenting of all kinds. Built-in two prong jack and plug for quick connection. 5 1/8" W, 3 1/4" D, 5 1/2" H. Shpg. wt. 2 lbs.
No. 22B300. Import Special **\$3.27**



\$2.99

PORTABLE 4-IN. SPEAKER WITH 20-FT. CABLE
ALL PURPOSE SPEAKER WITH A MULTITUDE OF USES
Cleverly designed plastic encased unit on swivel stand. Provides personal listening at the chairside, bedside, on the patio etc. without loud disturbance to others. Connects by clipping leads directly to speaker voice coil in set. Reproduces with exceptional clarity. Only 4 1/2" diameter. Perfect for TV, Hi-Fi, radio, code practice, shortwave listening, etc. 20 ft. extension cable and alligator clips included.
No. 22C323. Special Each **\$2.99**



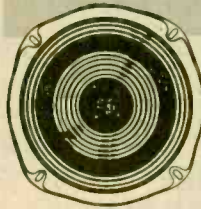
\$2.98

NEW LOW PRICE

FANTASTIC TUBULAR ACOUSTICAL SPEAKER
SOUND FLOWS FROM BOTH ENDS
Absolutely amazing sound reproduction... you must hear it! Provides big speaker performance with unusual bass response. Perfect for hi-fi, radio, auto rear seat, TV, etc. Midget plugs provided for transistor radios. Tucks away anywhere—behind sofa, under table, in bookcase—or mounts easily on ceiling, headboard, etc., wherever desired. 12" long, 3 3/8" dia. With 12 foot cord. Shpg. wt. 5 lbs.
No. 34A276. Import Special **\$2.98**

\$1.79

Each, 10 Lots



COMPARE AT OVER \$4.00

HIGH EFFICIENCY 8 INCH SPEAKER

SPECIALLY DESIGNED AND LOW PRICED FOR MULTIPLE SPEAKER INSTALLATIONS

Real good buy! Save over 50%. Perfect for restaurants, doctors offices, business establishments, homes... anywhere multiple speakers are used for background music, low level paging systems, etc. High efficiency design provides excellent response from even the lowest powered amplifiers. Shallow construction, only 2 1/8" deep. 2.4 oz. ferrite magnet. Impedance 8 ohm. Made in U.S.A. Shpg. wt. 1 1/4 lbs.
No. 22A43 **\$1.95** 10 Lots **\$1.79**
Spec. Ea. Each

SPEAKER FITS UNDER PILLOW



\$2.79

Listen to Radio or TV Without Disturbing Others

Low impedance magnetic unit operates on bone conduction principle. Connects to output transformer of set, or with addition of plug can be plugged into earset or extension speaker jack of sets so equipped. 2 1/8" dia. x 1 1/2" thick plastic case with 74" two conductor plastic insulated cord. Instructions included. Highest quality import. Shpg. wt. 1 lb.
No. 17C256. **\$2.79** 3 Lots, **\$2.49**
Special Each. Each

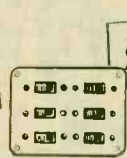
CEILING-WALL SPEAKER IN FLUSH MOUNTING BAFFLE

Pipe music from radio, hi-fi, etc. to any room of the house, office, plant, etc. easily and economically. Heavy duty 6 1/2" speaker is premounted in beautiful white enameled baffle that flush mounts—no cutouts necessary—to ceiling or wall. 9 1/2" dia., 2 1/2" deep. 8 ohm imp. Special import value.
No. 22B324. **\$4.95**
Special Each

\$4.95



\$1.96



\$1.39



69c

① HIGH-EFFICIENCY LEVEL CONTROLS (L-PADS)

For adjusting and matching the listening levels of 2 or more speakers used in a multiple speaker system. Matt silver and black 2 1/2"x2" panel plate with black plastic contour knob. Mounts in panels up to 3/4".
No. 17B325-8 Ohm. Special Import Value **\$1.96**
No. 17B327-16 Ohm. Choice Net Each

② MULTIPLE SPEAKER SWITCH For Up to 6 REMOTE SPEAKERS

For centralized "on-off" control of up to 6 remote speakers used in a hi-fi, PA, or intercom system. 3 1/2" W. x 2 5/8" H. gold tone mtg. plate with 6 SPDT slide switches. Requires 1 1/2" behind panel.
No. 17A685. Special Each **\$1.39**

③ REMOTE SPEAKER FADER CONTROL

Controls both speakers, main and remote from one location. Fine for Hi-Fi, TV, Intercom, PA, etc. 2 1/8" x 2 1/8" gold tone mounting plate. Requires 5/8" depth behind panel.
No. 17A604. Special Each **69c** 3 Lots, **59c** Each

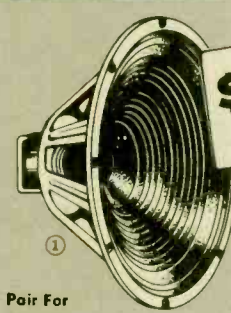
8 OHM L-PAD AT LOW COST

For Speaker Volume Control Insert in line between amplifier and speaker to adjust speaker volume independently of other speakers in the system. 2-section wire wound, ceramic insulation. Handles speaker power to 6 watts. 1/4" shaft, 3/8" long, 3/8" bushing. Shpg. wt. 6 oz.
No. 17A410. **\$1.39** 4 Special Ea. **\$5.00** For



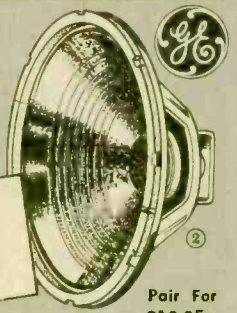
\$1.39

INCOMPARABLE HI-FI SPEAKER BUYS



\$9.95

Pair For **\$15.95**



\$5.95

Pair For **\$10.95**

① GIANT 15-INCH FULL RANGE SPEAKER

Absolutely amazing performance at surprising low cost. Outperforms speakers usually costing much, much more. Big power handling capacity of 25 watts with extra heavy duty 6.8 oz. Alnico V magnet. Faithfully reproduces clean rich bass tones to 30 cps with high frequency range extending to over 13,000 cps. Full 1" voice coil. 8 ohm imp. Depth 5 1/2". Wt. 6 lbs.
No. 34C211. **\$9.95** Pair **\$15.95**
Special Each For

② G.E. 12-INCH FULL-RANGE SPEAKER

Best 12" speaker value we've ever offered. Just great for hi-fi and stereo, multiple speaker systems, etc. Meets all tests... wide freq. range... large power handling ability... high efficiency at low power levels. Low resonant frequency, 1" double wound aluminum voice coil, exceptional overall quality. Rated 10 watts program material. Heavy duty Alnico V magnet. Voice coil impedance 8 ohms. Wt. 4 lbs.
No. 34B319. Special Value **\$5.95** Pair **\$10.95**
For

SMALL PARALLEL WIRE

Neat gray plastic insulated 2-wire parallel cable. Extra flexible with size 24 stranded copper conductors. Perfect for hi-fi and intercom installations. Easily concealed. Dia. only .058 x.115". Wt. per 1000 ft. 6 lbs.
No. 2C33 **\$1.29** 1000 Ft. **\$10.95**
Per 100' For

\$1.29



100 FT.

ANOTHER FABULOUS BUY

15-IN. TWIN-CONE HI-FI SPEAKER

BUILT FOR ELECTRONIC ORGANS BY TOP SPEAKER MANUFACTURER

WORTH AT LEAST **\$30.00**
\$14.95



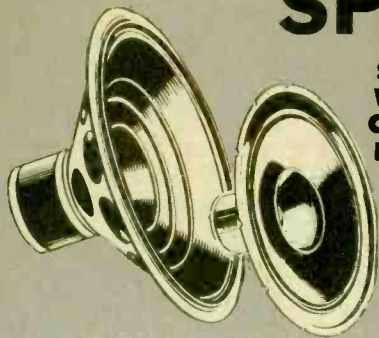
2 Cones to Broaden Frequency Range

HANDLES UP TO 30 WATTS MUSIC POWER

Powerful 2 Pound Magnet

A terrific speaker at considerably less than its usual value. Built by quality conscious maker for the wide-range and high-power sound requirements of electronic organs. Designed for top hi-fi performance with both woofer and tweeter cones, extra large 1 3/4" voice coil, huge 2 lb. Alnico V magnet and rugged frame. Sound response is smooth over entire tonal range. Provides unusually low bass response, sparkling crisp highs. Range 20-15,000 cps. V.C. imp. 8 ohms. 6 1/2" deep.
No. 34B250. Wt. 12 lbs. Each **\$14.95**

SAVE NORELCO HIGH FIDELITY SPEAKERS



SPECIAL PURCHASE OF WORLD FAMOUS TWIN-CONE SPEAKERS MAKES POSSIBLE TREMENDOUS SAVINGS

COMPARE AT \$30.00

\$16.88

12-IN.

Out they go at the lowest cost ever! Never before anywhere a speaker of this outstanding high quality at such a low, low price. World famous for its incomparable high fidelity sound reproduction.

NORELCO 12-INCH TWIN-CONE MODEL AD4277M

Latest improved model superseding the popular 9760M. Now better than ever. Special design extends the response curve a full octave above 10,000 cps. Employs two cones which are always in phase and complete harmony producing clean smooth wide range response 35 to 18,000 cps. Features new powerful Ticonal VII voice coil magnet for maximum efficiency and damping. Magnet wt. 17 oz. Flux density 8000 gauss. Power handling capacity 20 watts with peak to 30 watts. V.C. impedance 8 ohms. Shpg. wt. 7 lbs.

No. 34A210. Net Each **\$16.88** 2 For **\$32.50**

NORELCO 8-INCH TWIN-CONE MODEL AD4877M

New improved version of the popular selling Model 9710M at big savings. Same famous design as above. Specs. are: frequency response 50 to 20,000 cps. Heavy 15 oz. Ticonal VII magnet. Flux density 13,000 gauss. Power handling capacity 10 watts peak. V.C. impedance 4-6 ohms. Compare at \$20.00

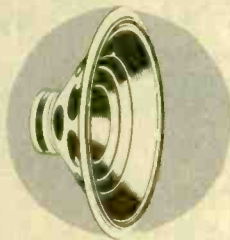
No. 34A216. Net Each **\$11.88** 2 For **\$22.50**

NORELCO 5-INCH TWIN-CONE MODEL AD3500M

Amazing wide-range response and terrific power for its size. Provides true high fidelity performance. Especially well suited where only limited speaker space is available. Also use in multiples of 2 or more for truly fantastic results. Freq. response 130 to 19,000 cps. Heavy Ticonal VII magnet. Flux density 11,000 gauss. Peak power handling capacity 5 watts. V.C. impedance 4-6 ohms. Shpg. wt. 2 lbs.

No. 22A46 Special Net Each **\$4.88** 2 For **\$8.50**

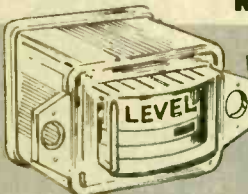
NORELCO 12-IN. TWIN-CONE MODEL AD4201



Now, famous quality at economical new low cost. An amazing value with performance that surpasses speakers priced at over twice as much. No sacrifice has been made in efficiency or fidelity. Provides unusually clean response with unexaggerated bass and silky smooth highs. New Ferroxdure ceramic magnet requires less depth—only 4 1/8" overall—enables easier installation in cabinets, etc. Extra high flux density of 42,600 maxwells. Frequency response 40 to 15,000 cps. Power handling capacity 10 watts with 15 watts peak. V.C. imp. 5 ohms. Wt. 27 lbs. Compare at \$20.00

No. 34A70. Spec. Net Ea. **\$12.88** 2 For **\$19.50**

RECORDING LEVEL METER



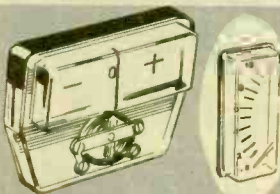
\$2.45

WITH RECTIFIER

Can be added to most recorders. Far better than usual neon type indicator for showing proper signal to make good recordings. Meter has basic movement of 0-1 MA. In plastic case size 7/8 x 1 1/8 x 1 1/8" deep. Supplied with meter rectifier.

No. 17C206. Special Each **\$2.45**

MINIATURE TUNING METERS



\$1.39

Same type tuning indicator used on expensive Hi-Fi tuners and receivers. Modern styled rectangular faced meters with D'Arsonval movements.

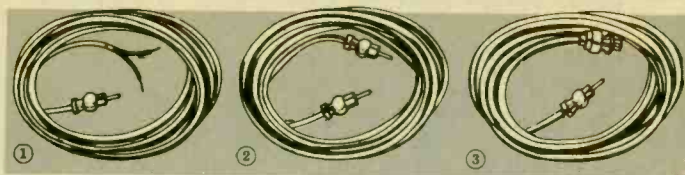
Mounts behind panel with only 1/4 x 1 3/8" clear plastic bezel exposed. Also for SWR bridges, field strength meters, experimental devices. High quality import.

CENTER SCALE. 50-0-50 Microamp Movement No. 18B346. Special Each **\$1.39**

0-10 SCALE. 0-200 Microamp Movement No. 18B345. Special Each **\$1.39**

244

HI-FI INTERCONNECTING CABLES



Finest quality featuring Belden shielded silver-grey audio cable. Plugs and jacks molded directly with polyethylene for a more reliable trouble-free connection. 30 ft. length (marked with *) uses Belden's lo-capacity (18 mmf. per ft.) shielded cable #8421 which permits longer leads without loss of high frequencies.

① PHONO PIN PLUG ONE END, STRIPPED & TINNED OTHER END

No. 17A853. 36". Each 49c No. 17C786. 15 Ft. Each \$1.09
No. 17A860. 72". Each 69c No. 17A868. *30 Ft. Each \$1.89

② PHONO PIN PLUG BOTH ENDS

No. 17A865. 36". Each 59c No. 17A872. 10 Ft. Each 95c
No. 17A866. 72". Each 75c No. 17A870. *30 Ft. Each \$1.99

③ PHONO PIN PLUG ONE END, PHONO JACK OTHER END

No. 17A867. 72". Each 79c No. 17A871. *30 Ft. Each \$1.99

PHONO PIN PLUG ONE END, PHONE PLUG OTHER (Not Illus.)

No. 17C787. 72" Each 95c No. 17C788. 15 Ft. Each \$1.49

COILED HI-FI CONNECTING CABLES



79c

No more unsightly dangling cords. Coiled audio cables with RCA plugs each end. Quality import.

No. 17B854—36" Long. Each **79c**
No. 17B855—72" Long. Each **99c**

SOLDERLESS PHONO PIN PLUGS

Makes perfect noise-free connections without soldering. Simple to attach. Right angle plug assemblies with two screws and holds cable firmly. Fits cable approximately 3/8" outside diameter. Fine quality. American made. Specify: Red, Black or Grey.

No. 12B745. Each **30c**

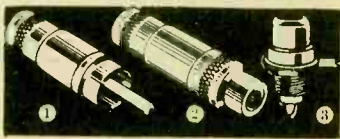
EXTENSION CABLE

WITH MINIATURE PLUG & JACK

9 ft. cable with miniature plug and jack works with most Japanese recorders and radios. Use for mike, speaker, earphone extensions, etc. Quality import.

No. 17B813. Special Each **\$1.29**

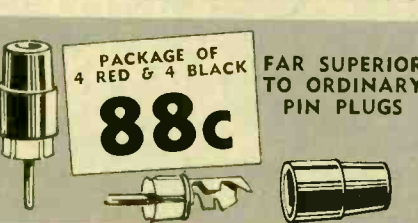
SWITCHCRAFT ALL-SHIELDED PHONO CONNECTORS



Mates with standard RCA pin plugs and receptacles. Completely shields circuit. Makes installation neat and easy. Cable plugs have shell 3/8" dia., 1 1/4" long. Type 3501FP mounts in 1/4" hole in panels up to 1/8" thick. Highest quality brass nickel plated construction.

① No. 12A195. Type 3502. Male Cable Plug. Net Each **29c**
② No. 12A196. Type 3503. Female Extension Jack. Net Each **35c**
③ No. 12A415. Type 3501FP. Chassis Jack. Net Each **21c**

INSULATED PHONO PIN PLUGS



PACKAGE OF 4 RED & 4 BLACK
88c

FAR SUPERIOR TO ORDINARY PIN PLUGS

Finest quality. Heavy molded type insulation gives same appearance and reliability as pre-molded plugs on factory made extensions. Insulator slips off plug for soldering. Ground side has lug which may be crimped as well as soldered. Supplied 4 red and 4 black to package. Finest import quality.

No. 18C113. Package of 8 for **88c**

STEREO SPEAKER WALL PLATE

BARGAIN PRICED!



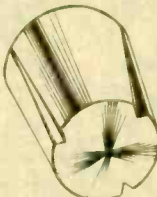
\$1.49

COMPLETE WITH 2 1/4-IN. PLUGS

New Ivory wall plate with two 1/4" phone jacks mounted. Hardware supplied for use with standard outlet box or dry wall mounting. Two 1/4" phone plugs included. Size 2 3/4 x 4 1/2".

17B852. Spec. Ea. **\$1.49**

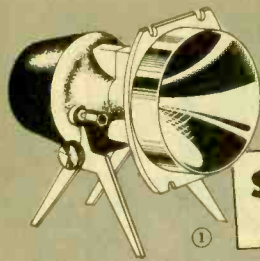
HANDSOME ALUMINUM KNOBS



Solid machined aluminum. Just like knobs used on new equipment. Give older equipment a sparkling new look. Uses unlimited for Hi-Fi Amplifiers, Tuners, etc., CB equipment, Ham equipment—anywhere you want the finest appearance. 1 1/8" L. x 1/2" dia. Tapered design. Polished natural color.

No. 17D328. Special Each **29c** 10 Lots Each **25c** 100 Lots Each **22c**

SAVE ON COMPONENTS FOR 2, 3 AND 4-WAY SPEAKER SYSTEMS



QUALITY TWEETERS AT LOW COST

\$11⁹⁵

① SUPERSONIC 4-INCH HORN TWEETER

Superbly engineered and beautifully made to extend the high frequency performance of any high fidelity speaker to a super-sonic range of over 20,000 cps. Adds life and brilliance to musical reproduction. Highly efficient driver with edgewise wound aluminum voice coil gives flat frequency response without annoying distortion from 1500 cps. Total flux of 30,000 maxwells handles power of 20 watts. Heavy die-cast satin gold horn with self-standing adjustable chrome base. Also has flange for custom mounting in enclosures. Requires 3 1/2" dia. hole. Depth 5 1/2". Shpg. wt. 2 1/2 lbs. Big Import Savings.

No. 22A380—8 Ohm. Your Choice **\$11.95**
No. 22A383—16 Ohm. Each



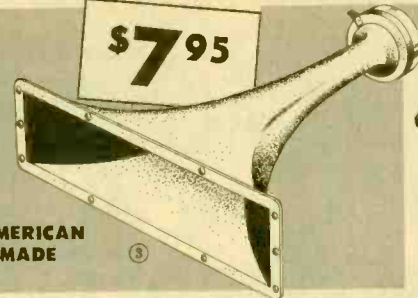
\$6⁹⁵

② HORN LOADED COMPRESSION TWEETER

Actually the price belies the quality. Here is an exceptional value! Same acoustic design as used with the more expensive speaker systems.

Long throat modified hyperbolic horn provides wide angle high frequency sound dispersion and is compression loaded to flatten the response curve. Handles 20 watts of power with a flat frequency response from 2000 to 20,000 cps. Full 1" V.C. Imp at 4000 cps. 8 ohm. 3x7 1/4" flange requires 2x6" baffle cutout. 6 1/8" deep. Low-lustre black and metallic gold.

Shpg. wt. 2 1/2 lbs. American made. **\$6.95**
No. 34C235. Special Net Each



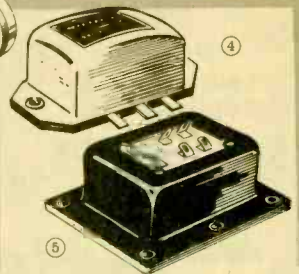
\$7⁹⁵

AMERICAN MADE

③ EXPONENTIAL HORN TYPE MID-RANGE TWEETER

Fills the need for mid-range horn in 3-way speaker systems or mid-range and tweeter in 2-way systems. Same type as used in costly home and theatre systems . . . at a small fraction of their usual cost. Long 10" horn with 3x9 1/2" mouth reproduces 900-20,000 cps smoothly, cleanly, and efficiently . . . free of "humps" or "peaks" in the response curve, without distortion, and with high output to match even large woofers. 4x10 1/2" flange requires 3x9" cutout. 20 watt power rating. Low-lustre black and metallic gold. Overall length 11 1/2".

No. 34C236. Shpg. wt. 4 lbs. Net Each. **\$7.95**



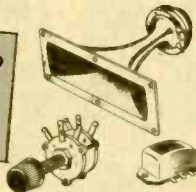
④ and ⑤ TWO-WAY LC CROSSOVER NETWORKS FOR 2 OR 3-WAY SPEAKER SYSTEMS

④ **Compact Inductive-Capacitive Network** feeds frequencies above 2000 cycles to tweeter, below 2000 cps to woofer. Insertion loss only 1 db. Solder lug terminals for amplifier, woofer, tweeter. 8 ohms. No. 34C232. 3 1/2 x 2 x 1 3/8". Shpg. wt. 8 oz. Net Each. **\$3.95**

⑤ **Larger Inductive-Capacitive Network** than above for lower 1000 cps crossover. Insertion loss only 1/2 db. Use with mid-range tweeter and woofer for 2-way speaker combination; or for woofer, mid-range, and tweeter 3-way system in combination with 2000 cps crossover above. Solder lug terminals. Complete instructions included. 3 1/2 x 4 1/4" base plate, 2" high. No. 34C234. Shpg. wt. 1 lb. Net Each. **\$4.95**

BUILD YOUR OWN 2 OR 3-WAY SPEAKER SYSTEMS WITH THESE B-A STEP-UP KITS

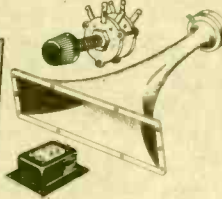
REGULAR B-A LOW COST \$12.29
\$9⁹⁵



HIGH FREQUENCY STEP-UP KIT NO. 1

Extends the range of single voice-coil speakers to beyond the range of audibility. Consists of No. 34C235 Tweeter above, No. 34C232 2-Way Crossover, and L-Pad for tweeter volume control. No. 34C237. Special Each **\$9.95**

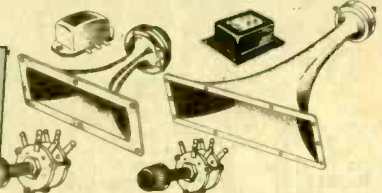
REGULAR B-A LOW COST \$14.29
\$11⁹⁵



MID-RANGE STEP-UP KIT NO. 2

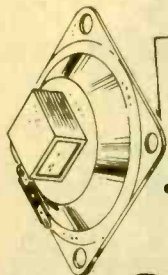
Add to woofer-tweeter 2-way speaker system, or single speaker, to improve mid-range and lower high-freq. range. Consists of No. 34C236 Mid-Range above, No. 34C234 2-Way Crossover, and Mid-Range volume control. No. 34C238. Special Each. **\$11.95**

REGULAR B-A LOW COST \$26.58
\$19⁹⁵



COMBINATION MID-RANGE AND HIGH FREQUENCY STEP-UP KIT NO. 3 FOR 3-WAY SPEAKER SYSTEM

Even more \$\$\$ savings for both middle and high-freq. step-up kits (left). Consists of No. 34C235 Tweeter, No. 34C236 Mid-Range, No. 34C232 Crossover, No. 34C234 Crossover, and 2 L-Pads for mid-range and tweeter volume controls. Diagram included. No. 34C239. Special Each. **\$19.95**



BIG SAVING \$1⁹⁵

• Use with any 4-8 ohm speaker or woofer for two way hi-fi speaker system.

3-IN. HARD CONE TWEETER

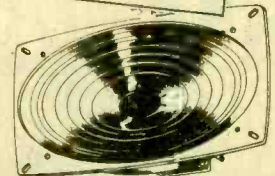
Genuine high frequency tweeter with hard curvilinear cone, fully encased rear. Crossover recommended at 2500 cps. Frequency response 1800-20,000 cps. Handles 15 watts. Size 3 1/2" sq. x 1 1/2" D. Wt. 1 lb. No. 22B382 Special Each. **\$1.95**

CAPACITY CROSSOVER for use with above. Compact wire lead tubulars. Simple instructions included. No. 18C499. Special Each. **99c**

WIDE-RANGE 15-WATT 12" OVAL SPEAKER

FINE WOOFER FOR 2 OR 3 WAY SYSTEM

Fits in more compact spaces due to oval 8x12" design. Use with other components shown here for excellent 2 or 3-way speaker system. Great idea for improving sound of Hi-Fi consoles. Big 6.8 oz. Alnico V magnet and 1 1/4" V.C. 8 ohm. Shpg. wt. 4 lbs. No. 34B144. Special Each. **\$4.95**



BIG SAVINGS \$4⁹⁵

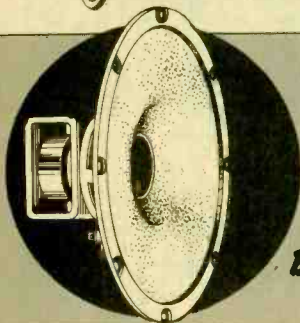
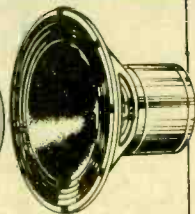
B-A SPECIAL PURCHASE SCOOP 8-INCH GUITAR SPEAKER

- Ultra high quality.
- Giant 17 oz. Alnico V magnet.
- Bass response to 20 cps.
- 30 watt power rating.

Best choice for guitar amplifiers. Engineered to reproduce those deep bass notes without distortion down to 20 cps. Handles 30 watts of power for plenty of volume. Outperforms many speakers supplied in instrument amplifiers rated at 50 to 60 watts.

Giant 17 oz. Alnico V magnet combined with such outstanding features as big 1 1/2" voice coil, deep cone construction, and flexible edge cone suspension puts this speaker in a class all by itself. Perfect also as a woofer or fine for PA and other sound applications where plenty of power is needed. Built by Dukane, a leader in quality sound products. Freq. response 20-4,000 cps. Resonance 40 cps. Impedance 8 ohms. 4 3/8" deep. No. 34B279. Wt. 6 1/2 lbs. Special Each. **\$12.95**

ONLY \$12⁹⁵



5-INCH MAGNAVOX PARABOLIC CONE TWEETER WITH CROSSOVER INCLUDED

ANOTHER B-A SPECIAL SAVING!

\$2⁴⁹

WORTH MANY TIMES OUR PRICE!

Extends range of any 4 to 8 ohm speaker from 5000 cps to 20,000 cps. features a hard parabolic cone to reproduce all high frequency ranges cleanly without cone "break-up." High efficiency from 1.64 ohm. Alnico V magnet matches even the most efficient low-frequency speakers. Handles 15 watts average audio power. Includes capacitor crossover and diagram for connecting to existing speakers. No. 22B358. Magnavox Tweeter and Crossover. **\$2.49**

GIANT \$\$\$ SAVINGS! RECORD CHANGERS MADE BY VM!

WOULD
REGULARLY BE
OVER \$40.00

\$28⁹⁵

SUPER DELUXE LEVER-MATIC

- Plays all records—stereo and monaural.
- Large 11" thin profile professional type turntable.
- Chrome finger-tip levers control all functions.



Diamond
Needle

Attractive
Silver
Grey
Finish

*Beautiful Piece
of American
Craftsmanship*



Designed and engineered to operate easily and smoothly, provides "kid glove" handling of your most cherished records. Large 11" thin design professional turntable is heavily rubber matted to gently receive each record as it settles into playing position. Plays all 7, 10 and 12" records, 16, 33, 45 and 78 RPM. Intermixes 10 and 12" records of same speed. Features diamond stereo needle for stereo and LP's. Sapphire needle for 78's. Speed changes are easily accomplished by chrome finger tip lever on left. Reject, off and on are accomplished by matching lever on right side. Audio connections are made by two standard pin jacks, receives standard audio cables. AC connection made through 4-prong Amplock connector. Size 13 1/4" W., 12" D., 2 3/8" below base plate, 5" above base plate. Operates on 110-115 V. 60 cycle AC. Shpg. wt. 12 lbs. Supplied complete with AC cable and necessary audio cables.

No. 22B132.	45 RPM Spindle for above changer. Each	\$1.75
No. 31B145.	Precut Mounting Board for above changer. Each	\$1.46
No. 31B143.	Precut Mounting Base for above changer. Each	\$3.89

LATEST DELUXE 4-SPEED RECORD CHANGER BY VM

NOW!
SAVE
\$\$\$

\$29⁵⁰

FEATURING
TUBULAR
TONE ARM
STREAMLINED
DESIGN

WITH DIAMOND NEEDLE



PLAYS ALL
RECORDS . .
MONAURAL
AND
STEREO

America's fastest selling changer now at tremendous \$\$\$ savings. It's the kind of value you just can't afford to pass up. Your complete satisfaction guaranteed. It's the very same automatic changer as used in scores of top name hi-fi and stereo consoles and phonographs. Perfect for replacement of old worn out changers, for custom built-in music systems, for building your own record player, etc.

Completely automatic operation in playing all records, all speeds (16, 33, 45 and 78 RPM), all sizes (7, 10 and 12"). Intermixes 10 and 12" records of the same speed. Automatically shuts-off after last record. Direct-drive motor assures constant speed at all times. Positive record protection assured by flat air-cushion drop of records to rubber matted turntable. Lightweight jam-proof tubular tone arm complete with stereo turnover cartridge with long-life dual sapphire needles. Dimensions: 13 1/4" W. x 12" D. x 5 3/4" above and 2 3/8" below motor board. For 110-120 V. 60 cy. AC. Fully guaranteed.

No. 30B175.	Shpg. wt. 11 lbs. Net.	\$29.50
Cord and Cable Kit—Top quality 5 1/2' AC cord and plug plus two 3 ft. shielded phono cords with pin plugs both ends.		
No. 31C137.	Special	\$1.69
No. 31B19.	45 RPM Spindle for above changer. Each	\$1.75
33B13.	Precut Mounting Board for above changer. Each	\$1.46
31A280.	Precut Mounting Base for above changer. Each	\$3.89

FAMOUS
AMERICAN
MADE

\$17⁹⁵

MAESTRO 4-SPEED STEREO RECORD CHANGER

FEATURES TUBULAR
TONE ARM



**A B-A SPECIAL PURCHASE MAKES
POSSIBLE OUR LOW, LOW PRICE**

Greatest value yet! It's the very famous, very popular Maestro . . . renowned for precision quality, and now at a price you just can't afford to miss. Perfect for the start of a new hi-fi system or as a replacement for outdated or wornout players in existing equipment. Requires only 3 1/2" above motor board to allow mounting in tight spaces.

New design for the most trouble-free long life operation. Automatically plays all size, all speed records—monaural and stereo. Automatic shut-off after last record plays. Rubber mat on turntable protects records. New precision tubular tone arm. Vaco stereo turnover cartridge with long-life sapphire stylus. Measures 13" W., 11 1/4" D., 3 1/2" above and 2" below motor plate. 110-120 V. 60 cy. AC. Less cords and phono leads. Handsome grey finish. Shpg. wt. 11 lbs.

No. 30B265.	Special Each	\$17.95
No. 30B266.	45 RPM Spindle. Each	\$1.49
No. 30B268.	Precut Mounting Board. Each	\$1.46
No. 30B267.	Precut Mounting Base. Each	\$3.87
No. 31A89.	Cord and Cable Kit. Each	\$1.29

WORLD RENOWNED BSR STEREO RECORD CHANGER

B-A's LOW PRICE

\$24⁹⁵

COMPARE THE
FINE QUALITY
AT OVER
\$40.00

Foolproof, dependable,
quiet changer mechanism



**NO BETTER CHOICE FOR
REPLACEMENT OF OUTDATED
OR WORNOUT CHANGER OR
BUILDING YOUR OWN PLAYER**

- Extremely efficient, smooth 4 pole motor.
- Massive 10 1/2" constant speed turntable with rubber mat.
- Widely acclaimed Vaco cartridge with turnover stylus.

Absolutely great! World renowned "BSR" one of Great Britain's finest changers now at an unheard of low price. Why wait to replace outdated or wornout changer. Replace it now while you save at B-A's exceptional special purchase give-away price.

Precision designed and built. Handles records gently, quickly and positively. New, latest type tubular tone arm with stereo Vaco cartridge and long-life sapphire stylus. 4-pole motor plus massive 10 1/2" turntable assures accurate, constant speed at 16 2/3, 33, 45 or 78 RPM. Rubber mat provides fullest record protection. Automatically plays all records—monaural and stereo, Intermixes all sizes 7", 10" and 12". Automatic shut-off after last record. Jam-proof! Cannot be stalled or damaged . . . even by holding the pickup arm while changer is in operation.

Changer measures 13" W., 11 1/4" D., 3 1/2" above and 2" below motor plate. 110-120 V. 60 cy. AC. Less cord and phono leads. Handsome black finish with brushed aluminum trim. Shpg. wt. 11 lbs.

No. 31C189.	Special Each	\$24.95
No. 31C180.	45 RPM Spindle. Each	\$1.49
No. 31C179.	Precut Mounting Board. Each	\$1.46
No. 31C178.	Precut Mounting Base. Each	\$3.87
Cord and Cable Kit. Consists of top quality 5 1/2' ft. AC cord and plug plus two 6 ft. shielded phono leads with pin plugs one end, stripped and tinned other end.		
No. 31A89.	Special	\$1.29

10 TRANSISTOR PUSH-PULL STEREO AMPLIFIER

8-WATTS MUSIC POWER

**ULTRA COMPACT SIZE...
FITS IN ANYWHERE**
ONLY 8½-IN. WIDE, 6¼-IN. DEEP
(Including Knobs) 1½-IN. THICK

**FREQUENCY
RESPONSE**
30-20,000
CPS.

NOW YOU CAN
HAVE THE
SUPERIORITY
OF SOLID STATE
CIRCUITRY AT

**LESS THAN
HALF**

**THE PRICE OF
COMPARABLE
TUBE MODELS**

B-A's
FANTASTIC
LOW
PRICE

\$19.95

- Completely solid-state — no tubes to replace.
- Cool operation. Build it in anywhere.
- Plays instantly—no filaments to warm-up.
- Separate bass and treble controls.
- Separate balance control. • Handsome bezel.



**EXPENSIVE TAPERED
POLISHED ALUMINUM
KNOBS**

The buy of a lifetime! B-A sweet deal on a factory over production of highest quality imported amplifiers makes possible the terrific money-saving offer. Originally designed and built as the heart of an expensive stereo high fidelity phonograph. Its specifications and performance are the finest we have ever seen at this exceptionally low price. Extremely versatile . . . permitting use in stereo high fidelity system or may be used monaurally for a musical instrument amplifier, PA, phono, etc. Inputs for tuner, ceramic or crystal phono, musical instrument pickups, etc Build it in

anywhere. Ultra compact, size only 8¼" wide, 6¼" deep (including knobs), 1½" high. Frequency response 30-20,000 cps. Output impedance 8 ohms. Requires 10 V. AC operating voltage (see transformer listed below). Simple hook-up instructions included. **\$19.95**
No. 30C27. Shpg. wt. 7 lbs. Special.....
Power Transformer for above. 20 V. C.T. at 1 amp. Primary 115 V. 60 cycle. No. 18B508. Shpg. wt. 5 lbs. Net Each.....\$1.99
No. 30C40. Deluxe Walnut Cabinet. 10½x7½x3½" Each.....\$6.95

FAMOUS VIKING PROFESSIONAL TAPE RECORDER

WITH STEREO RECORD /
PLAYBACK PREAMPS

WAS \$189.95 IN LAST
YEAR'S CATALOG

\$139.95
SAVE
\$50.00



BA99 Stereo Compact features new design record/playback pre-amplifiers. Equipped with new hyperbolic contour heads. Requires no pressure pads, provides long head and tape life. Quickly connected to your music system for both recording and playback. Only two basic "Patch Cord" connections.

Specifications: Frequency response record/playback to 16,000 cps \pm 3 db at 7½ ips, to 4,000 cps \pm 4 db at 3¾ ips. Maximum reel size 7 inches. Input sensitivity: Low level 1 MV for "O" VU (1 megohm impedance). Hi-level for high impedance microphones; 200 MV for "O" VU 400K ohm impedance for tuner, etc. Output: 1 volt to music system amplifier. Signal-to-noise Ratio: 50 db below peak signal level. Total Harmonic Distortion: 1%. Level Indication: 2 VU meters. Capstan Drive: Flutter-filter belt drive, with 2 lb non-magnetic, dynamically balanced flywheel. Tube complement: 4-ECC83/12AX7 and 1-12AU7A, semiconductor rectifiers. 60 watts max. 110-120 V. AC 60 cycle.

Dimensions: 13" H. x 13" W. x 6¼" D. behind panel.
No. 31A60. Shpg. wt. 25 lbs. (Less Cabinet). Special Each.....**\$139.95**
No. 31A61. Oiled Walnut Cabinet as shown on above unit. Each.....\$15.95

ITT

AM-FM STEREO MULTIPLEX TUNER

AN EXCEPTIONAL
HI-FI VALUE THAT
DEFIES
COMPARISON

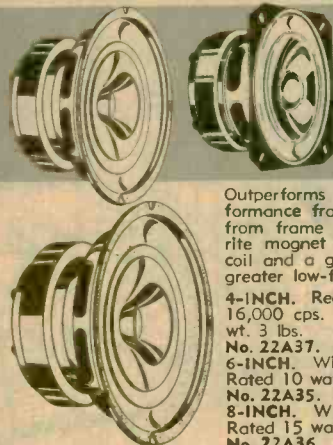
\$69.95

APPEARANCE, FEATURES AND
PERFORMANCE COMPARES WITH
UNITS COSTING UP TO \$150!



One of the finest quality multiplex tuners ever imported. Flywheel drive tuning for fast, smooth station selection. Easy-view indicator provides accurate and quick pin-point tuning. Efficient automatic frequency control provides drift-free reception. IF bandwidth in AM reception can be set to broad band reception for full high fidelity or narrow (sharp) band reception for maximum sensitivity.

FM Section—Circuitry: Foster Seeley Discriminator with AFC circuit. Tuning Range: 88-108 MC. Usable Sensitivity: (IHFM Rating): 3 uv. Selectivity: \pm 100 KC. Signal-to-noise Ratio: 50 db. Antenna Input: 300 ohms (unbalanced). Multiplex Section: Switching type. FM Stereo separation better than 30 db. AM Section: Freq. range: 535-1605 KC's. Usable sensitivity (IHFM rating): 3 uv. IF bandwidth: sharp \pm 3 KC; broad \pm 9 KC. Antenna input: built-in ferrite bar loopstick with terminal for external antenna. Power requirements: 117 volts 0.6 amp 50/60 cycles. Tubes: Ten (10). Dimensions: 15½" W. x 5½" H. x 12½" D.
No. 31A47. Shpg. wt. 21 lbs. Special Each.....**\$69.95**



HIGH COMPLIANCE SPEAKERS

An Exciting New Approach
To Speaker Design.

- Acoustic cone suspension. • Massive magnets.
- Wide frequency response.

Outperforms larger expensive speakers. Gives big speaker performance from small bookshelf size enclosures. Cone is suspended from frame with a unique soft flexible cloth ring. Powerful ferrite magnet provides strong magnetic field surrounding the voice coil and a greater back and forth movement. The result is much greater low-frequency response. Extra fine import quality.

4-INCH. Recommended cabinet size 8¾x8x6⅛". Freq. resp. 35-16,000 cps. Rated 5 watt, 10 watt music power. 8 ohm. Shpg. wt. 3 lbs. No. 22A37. Special Each.....**\$7.95**

6-INCH. With whizzer cone. Frequency response 35-18,000 cps. Rated 10 watt, 20 watt music power. 8 ohm. No. 22A35. Shpg. wt. 4 lbs. Special Each.....**\$10.95**

8-INCH. With whizzer cone. Frequency response 30-20,000 cps. Rated 15 watt, 30 watt music power. 8 ohm. No. 22A36. Shpg. wt. 5 lbs. Special Each.....**\$14.95**

AUTO RADIO REVERB SYSTEM

B-A
SENSATIONAL
LOW PRICE

\$19.95



1 YEAR GUARANTEE

Factory Service Station will Repair Defects
In Materials or Workmanship.

Reverberation unit creates stereo effect. Gives your car concert hall realism. Beautiful front panel enhances installation.

Combination off-on and fader control for blending desired reverberation effect. Solid state construction with silicon transistors. For all 12 volt automobiles. Adjustable mounting brackets make it easy to position under dash. Complete with 6x9" rear speaker. Size 8½x4⅛x1⅝". Shpg. wt. 5 lbs. **\$19.95**
No. 32B134. Special Each.....



FULL RANGE DIMMER CONTROL

SPECIAL PURCHASE MAKES POSSIBLE OUR LOWEST PRICE EVER... COMPARE AT OVER \$11.50

\$7.97



Simply replaces a 2-way switch.

3 YEAR WARRANTY

Guaranteed to be free from defects in either material or workmanship in normal usage or return for exchange or repair.

JUST TURN THE DIAL FOR DESIRED LIGHT LEVEL BETWEEN FULL BRIGHTNESS TO OFF... PUSH DIAL FOR "ON-OFF" AT ANY PREDIALED SETTING

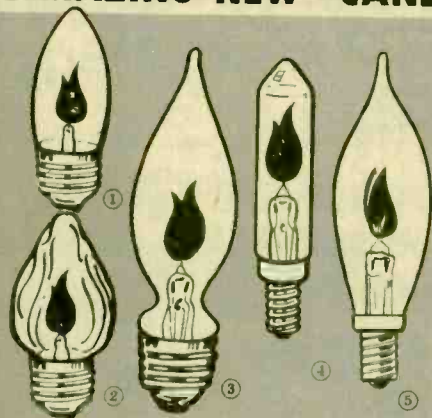
SIMPLE TO INSTALL—WIRES IN JUST LIKE EXISTING SWITCH IN STANDARD WALL BOX.

Now you can easily and inexpensively have subdued lighting for TV watching, dining, sleeping—convenience or glamour lighting for any room of the home.

Dependable "solid state" diodes smoothly control the flow of power to incandescent light fixtures. Permits turning lights from full brightness to as low a level as desired. Actually can even prolong life of bulbs when turned to lower levels. For 115 V. 60 cy. AC. 600 W. Capacity sufficient for most fixtures.

Use with standard wall plate (not supplied). Fits regular wall box. Shpg. wt. 1/2 lb.
No. 29B420
Special Each..... **\$7.97** 6 Lots Each..... **\$7.50**

AMAZING NEW "CANDLE-GLO" LAMP



CHOICE EACH

\$1.49

FLICKER LIKE CANDLES... CREATE A TRUE CANDLE LIGHT ATMOSPHERE FOR DINING AREAS, FAMILY ROOMS, OUTDOOR DECORATIVE LANTERNS, ETC.

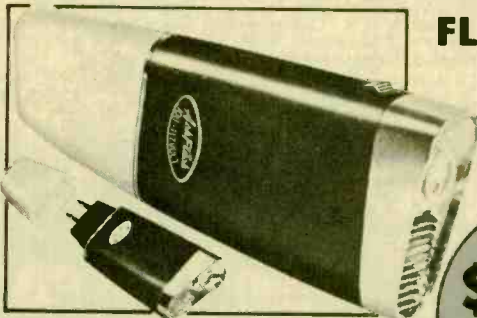
B-A buyers were amazed by the authentic candle-like appearance of these fabulous new lamps. Actually flicker and glow... and only close investigation reveals them to be electric. Really effective when used for dining, entertaining, etc.—wherever a worm candle-light atmosphere is desired. Choice of style and base, medium (standard) or candelabra (small). Bulb length similar to usual 40 W. lamp. Operates on 115-125 V. 60 cy. AC and consumes a negligible amount of power. Blister packaged.

Fig	Stock No.	Base	Fig	Stock No.	Base
(1)	16B229	Medium	(3)	16B233	Medium
(2)	16B230	*Medium	(4)	16C239	Candelabra
(2)	16B232	*Candelabra	(5)	16A240	Candelabra

* For diffused lighting
YOUR CHOICE EACH

\$1.49

BRILLIANT NEW RECHARGEABLE FLASHLIGHT



NEVER NEEDS BATTERIES

NOW ONLY \$3.95

NEVER BEFORE HAS B-A FOUND IT POSSIBLE TO OFFER A RECHARGEABLE FLASHLIGHT LIKE THIS FOR LESS THAN \$7.95!

- Two-year written guarantee.
- Magnifying lens for brilliant light.
- Shipped fully charged—ready to use.

Handsomely styled long lasting flashlight powered by Nickel Cadmium Batteries. Burns brightly for hours, recharges again and again by simply removing cap and plugging into any 110 volt AC outlet. Contoured shock resistant plastic case, small in size, will fit into pocket or purse.
No. 11B453. Shpg. wt. 8 oz.
Special Each..... **\$3.95**

\$3.95

USE WALL OUTLET TO PLAY POPULAR 9-V TRANSISTOR RADIO

SIMPLY INSERT ADAPTOR INTO YOUR TRANSISTOR RADIO AND USE ANY WALL OUTLET

KEEPS BATTERY CHARGED! LASTS LIFETIME SHOCKPROOF! COMPLETELY SAFE

ONLY \$5.95

Simply insert permanent adaptor to battery terminals and plug unit into any wall outlet as illustrated and it is ready to use... while you listen the battery is also being recharged. To use away from wall outlet simply unplug jack and enjoy top radio performance with a fully charged battery. Plug-N-Play provides as much as 2 years battery life. With easy to follow instructions.
No. 29A454. Each..... **\$5.95**

\$5.95

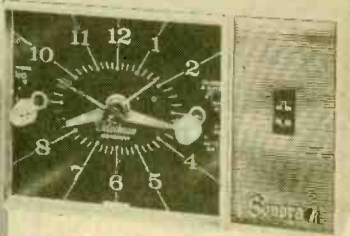
TELECHRON CLOCK AND TIMER WITH ALARM AND CONTROLLED OUTLET IN ATTRACTIVE AND DURABLE PLASTIC CABINET

CHOICE OF DECORATIVE COLORS

SPECIAL

\$8.88

- Turns radios, phonos, TV, appliances automatically on at preset time.
- Automatic turnoff up to one hour.
- Dependable electric clock.
- Buzz alarm for morning wake up.



Handiest clock you'll ever own! A household servant that provides real convenience. We have sold thousands of similar timers—but without the beautiful styled case, the buzz alarm, or convenience outlet. Wake-up-to-music... perk your coffee fresh in the morning... turn on TV sets, phonographs, fans, night-lights, burglar alarms or what have you! Just preset up to 12 hours before turn-on time, plug appliance into convenient front-mounted outlet, and set for alarm if desired. The precision Telechron Clock movement does the rest. Go to sleep with music—just set it up to one hour before shut-off time.

Clock has attractive 3 1/2 x 4" extruded wide view plastic bezel, luminous hands, raised silver numerals on black background. Gleaming modern plastic case in 2 decor colors. Rear reset. Size 6 1/4 x 4 1/4 x 3". UL 9 ft. ivory plastic cord. Wt. 3 lbs. Specify Color: White or Beige.
No. 37B388. Special Each..... **\$8.88**

\$8.88

DELUXE MODEL—IN OILED WALNUT WOOD CABINET. Truly attractive with full luminous dial. Appliance outlet on back, otherwise as above.
No. 37C389. Special Each..... **\$12.88**

\$12.88

USE WALL OUTLET TO PLAY POPULAR 9-V TRANSISTOR RADIO

SIMPLY INSERT ADAPTOR INTO YOUR TRANSISTOR RADIO AND USE ANY WALL OUTLET

KEEPS BATTERY CHARGED! LASTS LIFETIME SHOCKPROOF! COMPLETELY SAFE

ONLY \$5.95

Simply insert permanent adaptor to battery terminals and plug unit into any wall outlet as illustrated and it is ready to use... while you listen the battery is also being recharged. To use away from wall outlet simply unplug jack and enjoy top radio performance with a fully charged battery. Plug-N-Play provides as much as 2 years battery life. With easy to follow instructions.
No. 29A454. Each..... **\$5.95**

\$5.95



UL APPROVED

① Jack

② Permanent adaptor

Permanent adaptor

IT'S EASY TO ORDER BY MAIL FROM B-A

B-A's GUARANTEE OF SATISFACTION PROTECTS YOU ON EVERY PURCHASE

We guarantee every item in our catalogs to be honestly described and illustrated . . . to be the quality represented . . . to perform in the manner described; and to give the service warranted by the maker . . . or return at once for exchange, repair or your money back!
 *Wherever period of time is not otherwise specified in the listing, material and workmanship Guaranteed free of defects for 90 days.

The Handy B-A Order Blank is designed for YOUR convenience . . . Please use it whenever possible. Filling in all information, B-A Stock Numbers, quantities, prices, etc is necessary to speed your order on its way.

Our Catalog Prices . . . are net FOB Kansas City. All trade and cash discounts have been deducted. B-A reserves the right to add any Federal, State or local taxes now in effect or which may be levied after this catalog is printed. Missouri customers must add 3% sales tax.

Each item on your order will be priced at the current price on date of shipment. All prices are subject to change without notice. At B-A you always have immediate benefit of price reductions.

Manufacturers List Prices Shown . . . are suggested by our suppliers and are intended only as information for those purchasing for resale, not to indicate price savings.

Tell us how you want shipment made . . . by Parcel Post, Express, or Freight . . . by regular or air. On cash Parcel Post orders please include postage and guaranteed safe arrival fee according to the rate charts at the right. Don't worry about sending too much. B-A refunds every cent extra. Express or Freight orders are best handled with transportation charges collect on arrival. On B-A's Revolving Charge Account Orders all shipping charges are figured for you and added to your account.

When you send money . . . Best way is to use money order, bank draft or check. For your convenience you may send your signed blank check with the amount to be filled in by us for the exact money necessary to cover your shipment. Please do not send stamps. Also avoid sending coins or currency, but if necessary, register your letter.

When you order on B-A's Revolving Charge Account . . . Fill in the information on the back of B-A's Order Blank, as well as listing items wanted in the usual way on the front side of the blank. You need not figure shipping charges . . . these will be added to your account. For Add-On Orders show your account number and sign in space indicated on back of order blank.

C.O.D. Orders . . . for economy's sake we suggest you send money order or check or use B-A's Revolving Charge Account. This will avoid your payment of post office C.O.D. and money order fees. If C.O.D. is unavoidable, your order should be for a minimum of \$5.00 with at least 20% deposit accompanying your order.

We Ship on Open Account . . . to well rated firms, schools, institutions and government agencies. Firms without a published rating may submit trade or bank references when applying for open account credit. Terms are net 10th prox.

If Necessary to Write B-A Concerning Your Order . . . Please state whether the original order was Cash, C.O.D., Revolving Charge, or Open Account. Return order papers and correspondence with your letter. If you do not yet have order papers, give stock numbers and descriptions of items ordered and the name and address exactly as used on the original order. On open accounts refer to your purchase order number and our invoice number.

HOW TO RETURN MERCHANDISE

All Shipping Damage should be reported directly to our Customer Service Dept. Express or truck shipments must have an inspection report included with your letter. We will advise you on how to return the damaged shipment. If for any other reason you find you are not satisfied with the merchandise you have received, pack well, enclosing your order papers and complete explanation. Place an additional 5 cent stamp on the package and mark "First Class Mail Enclosed". Fully insure for safe arrival. Send to:
 Burstein-Applebee Co., Dept. ADJ.
 1017 Charlotte
 Kansas City, Missouri 64106

WHERE TO TELEPHONE

To Place A Mail Order: Area Code 816 BA 1-4266
 For Information About Your Order: BA 1-1155
 Please explain to our operator whether your order is Cash, C.O.D., Revolving Charge or Open Account.

TO PLACE A LOCAL ORDER

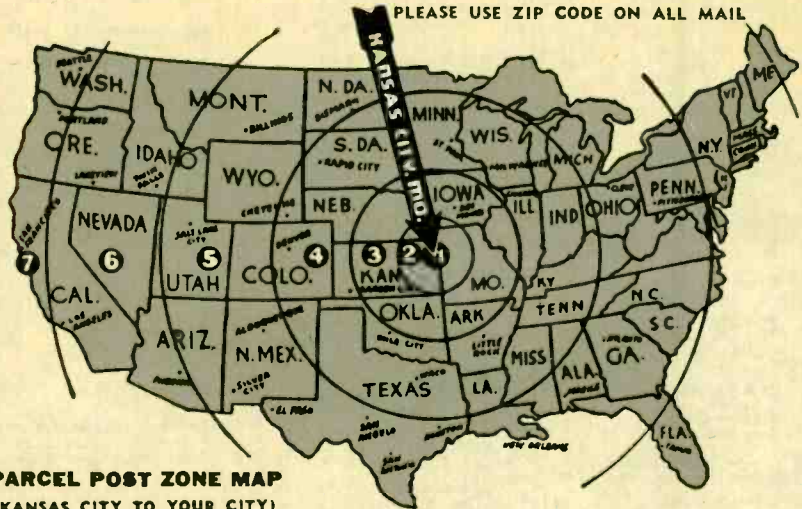
Kansas City Downtown Store, 1012 McGee: (816) BA 1-1155
 Kansas City Southside Store, 301 E. 55th: (816) EM 3-8700
 Kansas City Industrial Sales, 1017 Charlotte: (816) BA 1-4266
 Overland Park, Kans. Store, 75th & Metcalf: (913) CO 2-9535
 Denver, Colorado Store, 800 Lincoln: (303) 222-8986
 Springfield, Mo. Store, 1904 Glenstone: (417) TU 3-2324

NOW...ALL NEW HI-SPEED MAIL ORDER SERVICE FROM B-A

JUST TRY IT . . . you'll be truly amazed at the lightning-fast speed your order comes rushing back to you - NOW with B-A's all new "Space-Age" mail order system.



PLEASE USE ZIP CODE ON ALL MAIL



PARCEL POST ZONE MAP (KANSAS CITY TO YOUR CITY)

PARCEL POST RATES AND SIZE LIMITS

The table below and the map above will help you estimate parcel post charges. Packages under 16 ounces are 1/2c for each ounce, any zone.

WEIGHT AND SIZE LIMITS: Size limits below are maximum combined length and girth. 20 Lbs., 72 inches to any 1st Class P.O. in Zones 3 to 8; 40 Lbs., 72 inches to any 1st Class P.O. in Zones 1 and 2; 70 Lbs., 100 inches to any 2nd, 3rd, 4th Class P.O., RFD Star Route, APO or FPO.

Alaska and Hawaii is 70 Lbs., 100 inches for any First Class Post Office.

AIR Parcel Post Rates vary from 60c to 80c per pound as distance increases; please check with your Postmaster for rate to your City.

GUARANTEED SAFE DELIVERY RATES: 20c for values to \$15.00, 30c for values \$15.01 to \$50.00, 40c for values \$50.01 to \$100.00, 50c for values \$100.01 to \$150.00, 60c for values \$150.01 to \$200.00.

Weight in Pounds	Zones 1 & 2		Zone 3	Zone 4	Zone 5	Zone 6	Zone 7	Zone 8
	Up to 150 Miles	150 to 300 Miles	300 to 600 Miles	600 to 1000 Miles	1000 to 1400 Miles	1400 to 1800 Miles	Over 1800 Miles	
2	\$0.40	\$0.42	\$0.46	\$0.52	\$0.59	\$0.66	\$0.72	
3	.46	.49	.55	.64	.73	.83	.93	
4	.51	.55	.64	.75	.88	1.01	1.13	
5	.57	.62	.72	.87	1.02	1.18	1.34	
6	.62	.68	.80	.97	1.15	1.34	1.53	
7	.68	.75	.88	1.07	1.28	1.50	1.73	
8	.73	.81	.95	1.18	1.41	1.66	1.92	
9	.78	.87	1.03	1.28	1.53	1.82	2.12	
10	.83	.93	1.10	1.38	1.66	1.98	2.31	
11	.88	1.00	1.18	1.48	1.78	2.14	2.48	
12	.93	1.06	1.26	1.58	1.90	2.29	2.66	
13	.98	1.12	1.33	1.69	2.02	2.44	2.83	
14	1.03	1.18	1.41	1.79	2.14	2.60	3.01	
15	1.08	1.24	1.48	1.89	2.25	2.75	3.18	
16	1.13	1.30	1.56	1.99	2.37	2.90	3.36	
17	1.18	1.36	1.64	2.09	2.49	3.06	3.53	
18	1.23	1.42	1.71	2.20	2.61	3.21	3.71	
19	1.28	1.48	1.79	2.30	2.73	3.36	3.88	
20	1.32	1.54	1.86	2.40	2.85	3.51	4.06	
Ea. Ex-tra Lb.	.04	.05	.07	.09	.11	.14	.17	

PARCEL POST COD FEES (In addition to charges above) 60c from .01 to \$10.00, 70c from \$10.01 to \$25.00, 80c from \$25.01 to \$50.00, 90c from \$50.01 to \$100.00, \$1.00 from \$100.01 to \$200.00.

REA SHIPMENTS ARE BEST FOR FRAGILE GOODS

Do Not Send Money for Express Charges. These charges, shown in table below will be collected on delivery. Send remittance for full amount of merchandise only! Insurance will be added to your Express waybill.

THIS CHART WILL HELP YOU FIGURE R.R. OR AIR EXPRESS COSTS TO YOUR CITY

Wt. Lbs.	100 Miles		200 Miles		300 Miles		400 Miles		500 Miles		600 Miles		1000 Miles	
	Rail	Air	Rail	Air	Rail	Air	Rail	Air	Rail	Air	Rail	Air	Rail	Air
5	3.55	5.20	3.55	5.20	3.55	5.20	3.55	5.20	3.55	5.20	3.45	5.20	3.70	5.20
10	3.55	5.20	3.65	5.20	3.75	5.20	3.85	5.20	3.90	5.20	3.85	5.20	4.15	5.20
15	3.70	5.20	3.75	5.20	3.90	5.20	4.15	5.20	4.25	5.20	4.25	5.20	4.65	6.11
20	3.75	5.20	3.75	5.20	3.90	5.20	4.15	5.20	4.40	5.20	4.60	5.56	5.15	7.48
30	3.75	5.20	3.75	5.20	3.90	5.20	4.15	5.20	4.40	5.20	4.60	5.56	5.70	10.22
40	3.75	5.28	3.75	5.20	3.90	5.28	4.15	6.56	4.40	6.56	4.60	9.12	5.70	12.96
50	3.75	6.10	3.75	5.20	3.90	6.10	4.15	7.70	4.40	7.70	4.60	10.90	5.70	15.70
75	3.75	8.15	3.75	5.75	3.90	8.15	4.15	10.55	4.40	10.55	4.60	15.35	5.70	22.55
100	3.75	10.20	3.75	7.00	3.90	10.20	4.15	13.40	4.40	13.40	4.65	19.80	5.75	29.40

FREIGHT SHIPMENTS save you a considerable amount on heavy merchandise—B-A packs such shipments securely to assure safe delivery and declares Actual Value of all shipments to further protect you against loss in transit to you—IF YOU PREFER FREIGHT SHIPMENT BE SURE AND SPECIFY NAME OF TRUCK LINE OR RAILROAD TO YOUR CITY . . . charges are collected on delivery of shipment to you.

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EXCEPTIONAL VALUE!

SOLID STATE PORTABLE AC/BATTERY RADIO PHONOGRAPH

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RADIO-PHONO
\$59.95



GOES ANYWHERE YOU GO... PARTY,
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ONLY 6½ LBS. WITH BATTERIES.
AUTOMATICALLY PLAYS ON
BATTERIES WHEN NOT USING AC.

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ONLY \$5.00
MONTHLY

- * JUST PLUG INTO 115 VOLT AC OUTLET OR OPERATES ON 6 FLASHLIGHT BATTERIES.
- * SO SMALL AND COMPACT—BARELY LARGER THAN ORDINARY PORTABLE RADIOS.

Beautiful design solid state 7-transistor radio-phono you have been looking for! Handsome dark-grey case with ivory trim. Top removes revealing 3 speed deluxe phono with high quality flip-over ceramic cartridge. Plays 7, 10 or 12" records at 33 1/3, 45 or 78 RPM.

All these features plus a fine quality AM transistor radio with slide rule dial for easy station selection. Big 4" PM dynamic speaker gives much better tone than most units of this size. Bass-Treble tone control. Has jack for playing through larger external speakers.

"Sure-Power" feature maintains batteries at high performance level, if power fails, batteries take over automatically.

Weighs only 6 1/2 lbs. with batteries. Size 12 3/8 x 3 3/4 x 10 3/8".

No. 30C46. Shpg. wt. 8 lbs. Model SG551.

Net Each.....

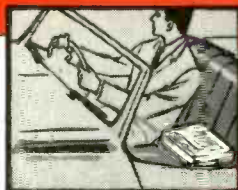
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FM-AM 9-TRANSISTOR RADIO-PHONO

All of the great features of the above unit plus FM radio. Has telescoping FM antenna for sure, stable FM reception.

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REVOLVING CHARGE ACCOUNT



**NO MONEY
DOWN AND
UP TO 24
MONTHS
TO PAY**

**SEE HOW LITTLE IT
COSTS EACH MONTH
...HOW LONG YOU
CAN TAKE TO PAY
...TO ENJOY THE
WONDERFUL WORLD
OF ELECTRONICS**

Handy easy payment order blank just inside back cover of this catalog—How-to-order information on page 249

JUST SAY "CHARGE IT" ...NO SERVICE CHARGES if you pay within 30 days on B-A's New Revolving Charge Account. It's as easy as filling out the application on the back of B-A's order blank and sending along your order. B-A prepays shipping charges, just adds them to your account eliminating COD charges.

OR YOU MAY...

TAKE UP TO 24 MONTHS TO PAY... painlessly because your monthly payments are so low. See B-A's easy payment chart —

You pay only a small service charge of 1½% on each monthly balance (¾% over \$500). No other charges.

AND YOU CAN...

"ADD-ON" AT ANY TIME ... QUICKLY, EASILY, no down payment required. B-A keeps you informed monthly on how much buying power reserve you have. Does all your bookkeeping for you. As you pay, your reserve increases... enables you to make additional purchases even before your previous payments have been completed. Just fill in your order, state your account number and give your signature.

BEST OF ALL...

YOU PAY THE SAME LOW MONTHLY PAYMENTS on "Add-Ons" if your new purchase does not exceed the difference between your balance and the original purchase. To illustrate: an \$80 balance on a \$240 purchase permits you

to buy up to \$160 more for the same low monthly payment of \$12. If you order more than \$160 your monthly payment will be simply adjusted according to B-A's payment table

IT'S SO EASY...

TO OPEN YOUR ACCOUNT. Just fill in the application on the back of B-A's order form at the rear of the catalog. Send along your first order at the same time. A reserve buying power sum is set up in your name allowing you to spend up to a definite amount. All or any part may be used as you like. Here's continuous buying power to bring you year around electronic enjoyment.

SO WHY NOT...

TAKE ADVANTAGE OF OUR MANY WONDERFUL BUYS, IT COSTS SO LITTLE TO ENJOY SO MUCH

LOOK HOW LITTLE IT COSTS EACH MONTH TO BUY SO MUCH AT B-A!

OVER \$500 Monthly Payments are figured at \$1.00 additional for each \$25. (For instance: \$575 @ \$24 monthly)

ONLY A SMALL SERVICE CHARGE of 1½% — no other charges—is added to your balance each month. ¾% for balances over \$500.

EASY PAY TABLE

Use it to easily determine your small monthly payment.

REVOLVING CHARGE ACCOUNT PAYMENT TABLE

Monthly Payment	Unpaid Balance (Total amount less any down payment)	Monthly Payment	Unpaid Balance (Total amount less any down payment)
JUST	BUYS	JUST	BUYS
\$ 5	\$ 20-100	\$14	\$261-280
\$ 6	\$101-120	\$15	\$281-310
\$ 7	\$121-140	\$16	\$311-340
\$ 8	\$141-160	\$17	\$341-370
\$ 9	\$161-180	\$18	\$371-400
\$10	\$181-200	\$19	\$401-440
\$11	\$201-220	\$20	\$441-480
\$12	\$221-240	\$21	\$481-500
\$13	\$241-260		

CRITICS CHOICE! DUAL automatic turntable by UNITED AUDIO!

CONCERTO FOR DUAL

Bravos for the Dual 1019 from these leading audio publications, are, understandably music to our ears. Come sight-read with us!

Hi-Fi Stereo Review. "I found the Dual 1019 to be exactly as represented . . . without a doubt one of the finest record-playing mechanisms I have used."

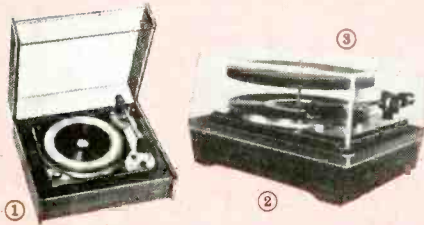
High-Fidelity. "Offers a level of superior uncompromised performance that, regardless of type, manual or automatic, marks it as a splendid piece of equipment."

Radio-Electronics. "Rumble . . . as good a figure as I have seen for any turntable and better than I have seen for any automatic . . . Flutter . . . the equal of virtually anything on the market . . . Pitch purists will never have a quarrel with Dual . . . a gentler entrance into a record groove cannot be imagined."

Electronics World. "The anti-skating force adjustment, when set according to the instructions, was quite accurate and resulted in substantial reduction in measured distortion of the outer groove wall channel at very high velocities."

Audio. "Removes any vestige of doubt that may have lingered . . . no gulf at all exists between manual and automatic."

American Record Guide. "The Dual 1009 is superb, but the 1019 beats it on every measurement . . . if it is presently the highest-priced automatic at \$129.50, no matter. Quality always costs—and this Dual is worth every last penny!"



GENUINE UNITED AUDIO BASES AND ACCESSORIES!

- ① **Deluxe Matched Base/Cover Combination.** Walnut paneled, smoke-tinted plexiglass cover with matching base. Cover can be tilted open or removed for changer operation. 16 1/2" W. x 15" D. x 7 7/8" H. Wt. 8 lbs.
No. 30B304 Each. \$34.50
- ② **Oiled Walnut Base.** Smartly tapered sides. 15 3/4" W. x 13 7/8" D. x 3 1/8" H. Wt. 6 lbs.
No. 30B306 Each. \$11.95
- ③ **Tapered Dust Cover.** Specially designed for base above. Smoke-tinted. Wt. 2 lbs.
No. 30B305 Each. \$8.95
- Compact Base.** Oiled walnut mitered sides. Recessed mounting board finished in matte black. 14 1/2" W. x 12 1/2" D. x 3 5/8" H.
No. 30B291. Wt. 6 lbs. Each. \$8.95
No. 30B303. 45 RPM Spindle. Each. \$5.95



Pickering V15/ATE-2 with 1019

1¢ SALE
YOUR CHOICE OF MOST POPULAR CARTRIDGES ONLY 1¢ MORE



\$129.50

LESS BASE AND CARTRIDGE



\$109.50

LESS BASE AND CARTRIDGE



\$69.50

LESS BASE AND CARTRIDGE

DUAL 1019

AUTO / PROFESSIONAL TURNTABLE

Most advanced record playing instrument in the world today! First choice of the discriminating audiophile for its superior performance and unrestricted flexibility of both automatic and manual play. Master operating switch provides fully automatic or manual start in both single play and changer modes. Direct-dial stylus force adjust is accurate to within 0.1 gram. Direct-dial tracking balance control (anti-skating) assures equal tracking force on both groove walls. Dynamically balanced low mass tubular tonearm with nylon-braked and rubber-damped counterbalance tracks flawlessly as low as 1/2 gram. Magnesium-alloy cartridge holder has provision for adjusting stylus overhang for minimum tracking error; supplied with cartridge mounting gauge for exact depth and overhang. Color-coded leads with push-on contacts eliminate need for soldering. Feather-touch cue-control lowers, lifts tonearm at any point on record . . . can also be used together with automatic start for slower-than-normal tonearm descent. Variable 6% pitch-control for all 4-speeds assures perfect pitch with all records. Single play spindle rotates with record . . . another Dual exclusive. Elevator-action changer spindle holds up to 10 records. Powerful continuous-pole motor maintains speed accuracy within 0.1%, even when voltage varies beyond ± 10%. Dynamically balanced non-ferrous platter weighs over 7 lbs. Anti-static mat is concave to support record at widest dia. Unique top mtg. screws allow mounting on base or cabinet entirely from above. Size: 10 1/2 x 12 3/4", 6" above, 3" below mtg. board. 1/2" needed at rear for counterbalance clearance. Wt. 30 lbs.

- No. 30B292. Model 1019 Turntable Less Cartridge & Base. \$129.50
- No. 30A148. With Shure M44E Elliptical. \$129.51
- No. 30C151. With Pickering V15/ATE-2 Elliptical Stylus. Each. \$129.51

DUAL 1009SK

AUTO / PROFESSIONAL TURNTABLE

Modestly priced version of Dual 1019 offering all its operating flexibility and such precision features as tracking balance control, auto/manual cue-control and rotating single play spindle. Non-ferrous dynamically balanced platter weighs over 4 lbs. Standard 4-speeds. Wt. 20 lbs.

- No. 30B301 Model 1009SK Turntable Less Cartridge & Base. \$109.50
- No. 30A146. With Shure M44E Elliptical. \$109.51
- No. 30A147. With Pickering V15/ATE-2 Elliptical Stylus. \$109.51

DUAL 1010A

AUTO / STANDARD TURNTABLE

Brings Dual quality into the medium price field. Special hi-torque Dual motor and same underneath engineering as Auto-Professional models. Same unrestricted operating flexibility in both single play and changer operation. Tonearm tracks flawlessly as low as 2 grams. Convenient, precise stylus force adjusts with 0.5 gram click stops. Wt. 12 lbs.

- No. 30B302. Model 1010A Less Cartridge and Base. \$69.50
- No. 30B311. With Shure M3D Cartridge. \$69.51

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*Wherever period of time is not otherwise specified in the listing, material and workmanship Guaranteed free of defects for 90 days.

SUPERIOR QUALITY CB TRANSCEIVERS

FOR BUSINESS OR PERSONAL 2-WAY RADIO COMMUNICATIONS



BEST VALUE - 100 MILLIWATT

RUGGED 9 TRANSISTOR WALKIE-TALKIE

\$24.95

- Rugged all metal case.
- Range up to 5 miles.
- Plug-in crystals.
- Optional AC power adaptor.
- Size 7 1/8 x 2 3/4 x 2 inches.

Has tremendous talk power and sensitivity packed into its precision engineered superheterodyne chassis. Far exceeds the usual 100 MW unit in both performance and construction. Comes with 46 1/2" 11-section telescoping antenna, leather case, crystals for ch. 11. Requires 8 standard pencil batteries. Finest Import.

35B358 **\$24.95** Pair **\$47.50**
Each For
35A325. Set of 8 Pencil... **\$1.12**
35C495. Crystals. Per Ch... **\$5.50**
Optional 117 V. AC Adaptor
35B361. Each **\$4.95**



2-CHANNEL - 100 MILLIWATT

POWERFUL 12 TRANSISTOR WALKIE-TALKIE

\$33.95

- Switchable noise limiter.
- Long range, 1 to 7 miles.
- Earset included.
- Plug-in crystals.
- Optional AC power adaptor.

Deluxe, rugged and dependable. All metal case 7x2 5/8 x 1 5/8". Has class B modulation, voice-range audio, superheterodyne circuit with tuned RF stage to boost distance range over other 100 MW units. Switches to either of two channels. With 49" 13-section telescoping antenna, leather case, earset and ch. 7 crystals. Less batteries. Finest Import.

35B314. Each **\$33.95**
35A325. Set of 8 Pencil... **\$1.12**
35C495. Crystals. Per Ch... **\$5.50**
Optional 117 V. AC Adaptor
35B361. Each **\$4.95**



OUR FINEST - 100 MILLIWATT

3 CHANNEL 12 TRANSISTOR WALKIE-TALKIE

\$36.95

- Separate speaker and mike.
- Controlled squelch.
- Long range, 1 to 7 miles.
- Lock push-to-talk.
- Optional AC power adaptor.

Powerful superheterodyne chassis has tuned RF stage, 2 1/4" PM dynamic speaker, separate low impedance magnetic microphone and selection of three channels for the ultimate in communications. Uses plug-in crystals. All metal case, 7 1/2 x 2 3/4 x 2 1/8". Telescoping 13-section antenna 55 5/8" lg., leather case, earset and ch. 11 crystals included. Requires 8 pencil cells. Finest Import.

35C477. Each **\$36.95**
35A325. Set of 8 Pencil... **\$1.12**
35C495. Crystals. Per Ch... **\$5.50**
Optional 117 V. AC Adaptor
35B361. Each **\$4.95**



NEW 3-CHANNEL

13 TRANSISTOR FULL 1 WATT WALKIE-TALKIE

\$59.95

- Range up to 10 miles.
- Full variable squelch.
- Battery life meter.
- External antenna jack.
- Optional AC power adaptor.

Precision crafted superheterodyne receiver has 3 microvolt sensitivity. Extremely compact for 1 W. power rating. 8 1/4 x 3 1/4 x 2 1/4". Heavy duty metal case, rugged 11-section antenna, saddle stitched leather case, ch. 11 crystals. Requires 8 pencil cells.

35C509. Finest Import. **\$59.95**
Each
35A325. Set of 8 Pencil... **\$1.12**
35C495. Crystals. Per Ch... **\$5.50**
35C493. Pouch for 8 "D" Cells.
Each **\$7.95**
Optional Extension Mike
35C494. Each **\$4.80**
License-required

HUNDREDS OF EVERYDAY USES FOR CB 2-WAY RADIOS... WHEREVER INSTANT COMMUNICATIONS IS WANTED AT WORK OR PLAY! NO LICENSE OR PERMIT REQUIRED, NO AGE LIMIT FOR 100 MW UNITS!



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