

1956

CATALOG NO. 16

RADIO • TV • ELECTRONICS • HIGH FIDELITY

WRL

WORLD RADIO LABORATORIES

3413 West Broadway
COUNCIL BLUFFS, IOWA
Phone 2-0277



*"The World's Most Personalized
Radio Supply House"*

CABLE WRLI

Index Pages
156-159



Now Ready!

THE NEW AND IMPROVED

Model 500A . . . Completely Bandswitching

GLOBE KING

500 Watts Phone & CW Completely TVI'D



R.F. Section

Full Bandswitching Pi - Network output. Automatic fixed bias to protect final tube. Special bias switch allows for SSB operation with external SSB exciter. Entire section screened for TVI elimination, all external leads by-passed. Meters individually shielded and by-passed. Section is complete with two meters and tubes. Shpg. wt. 47 lbs.

1000B002, Net Wired..... 295.00



VIEW OF R. F. SECTION, SCREENED IN CHASSIS

Speech Amplifier & Modulator

Complete with own power supply. Will modulate RF inputs in excess of 500 watts. Push-to-talk feature included for ease of operation. Meter allows constant monitoring of modulator plate current. Special communications speech filter to penetrate QRM available at additional cost. Complete with meter and tubes. Shpg. wt. 75lbs.

1000B003, Net Wired..... 239.50



Dual Power Supply Section

Supplies voltages to exciter, buffer and final stage of R.F. Section. May be used for any other transmitter that requires 550 V DC at 125 Ma and 1700 V DC at 350 Ma. Heavy duty components used throughout. Complete with tubes. Shpg. wt. 75 lbs.

1000A004, Net Wired.... 159.50



Check These Features . . .

- ✓ 500 watts on Phone and CW
- ✓ Completely bandswitching, 10 through 160 M bands
- ✓ Provisions for VFO operation
- ✓ Pi Network matches antenna from 52-600 ohms
- ✓ Completely TVI screened and by-passed
- ✓ Provisions for Single Sideband input and operation

Unconditionally Guaranteed FOR ONE FULL YEAR!

The latest creation of the WRL engineering staff! This new Globe King 500A, is an advanced design, complete bandswitching transmitter of 500 watts input on CW and Phone, 100% modulated. Covers 10-11-15-20-40-80 and 160 meters. Available wired, ready to go on the air, or in individual sections as listed on this page. This transmitter is guaranteed to outperform any other unit in its price range. Owners of previous models of the Globe King, the world over, testify to its brilliant performance. Complete precautions have been taken to eliminate TVI. Transmitter contains three sections: R.F., Speech Modulator with Power Supply and Dual Power Supply for R.F. Section. All sections contained in a special 31", grey hammertone finish cabinet with hinged top lid and rear door.

TUBE LINE-UP

R.F. Section. 4-250A Final, 6146 Buffer-Doubler, 6V6 Oscillator, 5Y3GT screen B+ Rectifier, 6X5 Bias Rectifier.

Modulator. Two 811A Modulators, 6L6 Driver, two 6C5 Speech Amplifiers, 6SJ7 Microphone Amplifier, 5Y3GT Low B+ Rectifier, two 816 High B+ Rectifiers.

Power Supply. Two 866A High B+ Rectifiers, 5U4G Low B+ Rectifier.

The New Model 500A Bandswitching Globe King

Complete with 17 tubes and three 3" meters. Mounted in a 31" grey hammertone cabinet. Packed in a special wooden crate. Shpg. wt., crated, 270 lbs.

Only \$36.78 per mo.

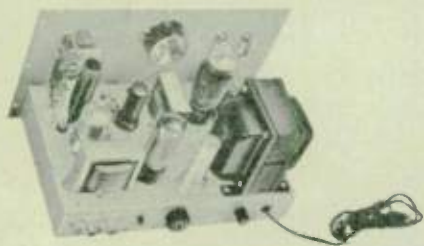
PAY JUST \$67.50 DOWN

1000B001, Net Wired.....\$675.00

The New "Globe Scout"

Bandswitching

Model 65A



CHECK THESE FEATURES

- Bandswitching
- TVI Shielded Cabinet
- Pi-Network - Antenna Tuner
- Compact

An improved model of the world famous WRL Globe Scout transmitter. A number of changes have been incorporated to make this transmitter one of the best values you have ever seen. A beautiful compact transmitter completely self-contained, including power supply. Rated: 65 watts CW-55 watts phone. Contains 6146 tube in final. Covers 160 meters through 10 meters with complete bandswitching. Improved metering circuit provides for metering of final grid, final plate circuits and protection of meter. Improved switching circuit provides protection for modulator circuits. New selector switch for crystal or external VFO operation. Combination pi-network antenna tuner assembly will work into any antenna impedance from 52 to 1000 ohms. May be used with doublet, folded dipole, beam antenna, or any random length wire (preferably $\frac{1}{4}$ wave length at lowest frequency). Coaxial output provided for antenna. All main operation controls are on front panel. Three stage modulator allows complete modulation of the final. Any high impedance microphone may be used. An ideal transmitter for the Novice or the experienced Ham. Transmitter may be used for mobile work with suitable power supply (auxiliary socket provided. B+ and filament voltages for external VFO available at this socket). A complete kit including all parts, chassis, panel, power supply, streamlined cabinet, tubes, meter and complete, detailed instructions for kit assembly. Dimensions: 8"Dx16"Lx8"H. Wt. 27 lbs. 1000A020K, (Kit) Net. 89.95

Terms: 9.00 Down-8.00 Per Month
1000A020W, (Wired) Net. 99.95
Terms: 10.00 Down-8.00 Per Month

Accessories

VFO-See page 2 for WRL VFO Model 755. Crystals, 160, 80 or 40 M (40M used on 10-20). Each. . . 2.88
53A008, JT-30 microphone and stand. 9.97
50A025, Johnson 114-300 Key. 1.96

GUARANTEED FOR ONE YEAR

This transmitter is guaranteed for one full year from purchase date against all defects in workmanship or materials. All parts covered except tubes, crystals and meters. If you are not completely satisfied after a 10 day free trial, return the transmitter prepaid for credit or full refund of purchase price.



WRL ANTENNA TUNER

Universal antenna coupler designed to couple any conventional antenna feedline regardless of impedance, to any conventional tank circuit. Handles transmitters up to and including 500 Watts. Enclosed in black wrinkle finish standard relay rack cabinet. Ideal for use with the Globe King transmitter. Size: 14 1/2"Dx22"Wx10-9/16"H. Shpg. wt. 49 lbs.

1000A017, Net. 44.50
Same as above but less cabinet. Sh. wt. approximately 20 lbs. Net. 32.50

IMPORTANT NOTICE

Watch the magazines for announcements of new items by WRL. At the present time WRL has under development a complete bandswitching low power transmitter for operation on 2 and 5 meters and a new mobile transmitter. WRL is also working on several other items, however, information and details are not sufficient as yet for us to make an announcement on them.

Details on the new 6/2 Transmitter should be announced approximately October, 1955. Further details on the Mobile Transmitter will be announced at a later date. See pages 2 & 147 of this catalog for new items by WRL.

WRL's NEW VFO '755'

Check These Features



KIT \$49.95

5.00 Do.—5.00 Mo.
Cat. No. 1000A050K.

WIRED \$59.95

6.00 Do.—5.50 Mo.
Cat. No. 1000A050W.

- *Complete With Built-In Power Supply
- *Stable As A Crystal
- *Complete Bandswitching
- *Calibrated on 160, 80, 40, 20, 15, 11 And 10 Meters
- *Calibrate Switch For Zero Beating Signal Frequency Or Tuning To Desired Frequency Without Turning Transmitter On
- *Output on 160 And 40 Meters

ADDITIONAL FEATURES INCLUDE:

Temperature Compensated. Series Tuned Clapp Oscillator Circuit. Approximately 50 RF volts output. Plugs directly into crystal socket of transmitter. Provisions for oscillator cathode keying. Provisions for automatic operation with transmitter. 5 to 1 tuning ratio. Tubes—6AU6 oscillator, 6CB6 buffer-doubler output. OA2 voltage regulator. Supplied with 4 foot output cable. Grey hammer-tone finish. Cabinet size 7-1/16W.x6-9/16H.x7-5/8"D. Sh. wt. 10 lbs.



B



C

High Quality Hammarlund Receivers

B Hammarlund Receiver Model PRO-310. Completely new receiver embodies several new and advanced design details such as: complete printed circuit for the RF section; sectionalized construction for compactness; precision differential tuning system; a marriage between mechanical and electrical bandspread, makes it possible to read exact frequency to which receiver is set; all electrical filter. Rotary turret construction for band selection. Second conversion oscillator is crystal controlled. Improved image selectivity due to three RF tuned circuits. An extra high level BFO incorporated for single-side-band reception. General specifications: 6 bands covering 540 Kc to 34.56 mc (continuous). Calibrated bandspread. Tube line-up employs latent type tubes for maximum efficiency. Antenna input impedances 75 ohms. Provides for use of co-axial transmission line. 2 watts undistorted audio output; 3.3 ohm impedance. S-meter calibrated 1 to 9 in steps of approximately 6 db. Variable selectivity; three positions 2 for phone & 1 for CW. Antenna compensator. AVC. New series type noise limiter. Available in black and gold or gray and silver. Size: 15 1/2 x 7 7/8 x 13 1/16". 105-115 VAC. 50-60 cy. Sh. wt. 85 lbs.

104AF009, (Black & gold) Net. \$95.00

104AF012, (Gray & silver) Net. \$95.00

Terms: 59.50 Down—32.43 Per Month

104AF011, Spkr. for above. Sh. wt. 12 lbs. 18.50

C Hammarlund Receiver Model HQ-140-X. Full coverage from 540 KC to 31 MC on six convenient bands. Accurately calibrated dials for each band. Calibrated bandspread and an arbitrary scale is provided to cover new bands. Antenna compensator compensates for loading effects of various types of antennas and improves image ratio. Six-position crystal filter—3 for phone reception and 2 positions for CW, plus "Off" position. Tubes: 6BA6 RF amp., 6C4 osc., 6BE6 mixer, 6BA6 1st IF, 6BA6 2nd IF, 6BA6 3rd IF, 6AL5 det.—AVC, NL, 12AU7 1st AF amp. and BFO, 6V6/GT and 5U4G rect., and OCB/VR105 VR. 110 VAC, 100 watts power consumption. Dimensions: 13-15/16"x20-5/32"x11 1/4". Less Speaker. Sh. wt. 60 lbs.

104AF005, Net. 264.50

Terms: 26.45 Down—22.06 Per Month

104AF006, Matching speaker for above. Wt. approx. 10 lbs.

Net. 14.50

Rock Mounted Model HQ-140-X. HQ-140-X mounted in a heavy 16 gauge, steel frame to make possible its rigid mounting in a standard 19" rack. Sh. wt. 52 lbs.

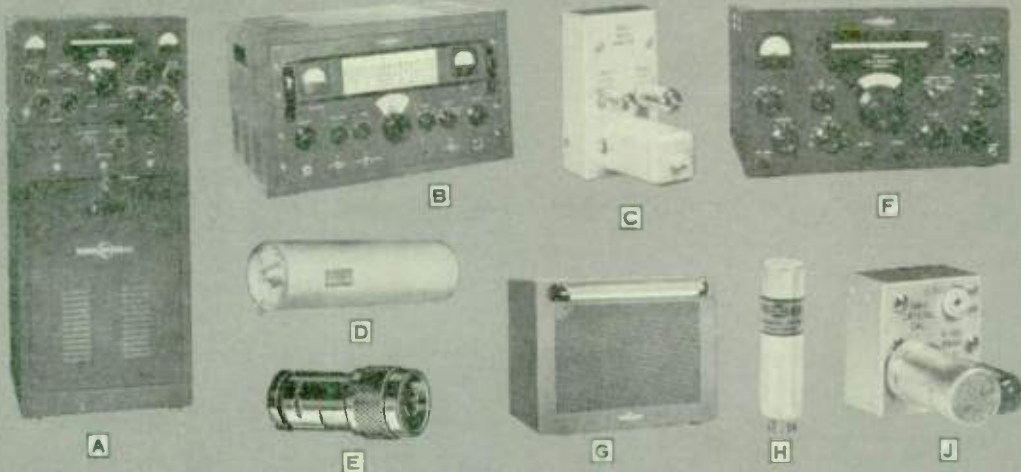
104AF008, Net. 274.50

Terms: 27.40 Down—15.50 Per Month

104AF010, Rock Assembly. Sh. wt. 15 lbs. Net. . . 19.95

ITS EASY TO BUY FROM WRL

World Radio History



Famous Collins Amateur Equipment

A Collins Transmitter Model KWS-1. Incorporates advanced design features. Exciter and RF power amplifier housed in single receiver-size cabinet which may be placed on operating desk or on top of power supply cabinet. Operates on AM, CW and SSB. Band-switching on 80, 40, 20, 15, 11 and 10 meters. Selectable sidebands. VOX—Push to Talk; provisions made for voice-operated break-in while using loudspeaker on receiver. Proved components and circuit applications such as 70E, VFO, Pi-L output network, extremely accurate VFO dial and Collins mechanical filter retained in design of transmitter. VFO operation provided from 3.5 to 30 Mc with a dial calibration of 1 KC per division on all bands. Linear RF power amplifier uses two 4x150A's in Class AB operation. Continuous tuning throughout entire frequency range. Power amplifier input: 1 KW peak envelope power on SSB, 1 KW CW operation. Equivalent to 1 KW on AM when using narrow-band width receiver. RF output impedance: 52 ohms. High impedance microphone input. Phone patch impedance: 600 ohms, unbalanced to ground. Size: 40½" H., 17½" W., 15½" D. 260 lbs. 100AF010, Net 1995.00

Terms: 199.50 Down—83.79 Per Month

100AF011. KWS-1K Exciter and Power Amplifier assembly. Sh. wt. 60 lbs. Net 1225.00

Terms: 122.50 Down—51.45 Per Month

100AF014. 428A-1 HV Power Supply complete with tubes. Sh. wt. 185 lbs. Net 700.00

Terms: 70.00 Down—38.15 Per Month

B Collins Transmitter Model 32V-3. VFO controlled, bandswitching, gang-tuned amateur transmitter rated at 150 watts input CW and 120 watts on phone. Provisions for reduction of TVI. Can be operated by a push-to-talk switch on the microphone, a key, or a separate switch. Break-in operation is accomplished without difficulty. Keying is very clean without chirp or clicks. Power source: 115 V., 50-60 cycles AC. Size: 21-1/8x12-7/16x13-7/8". With tubes and instructions. Shpg. wt. 128 lbs. 100AF001, Net 775.00

Terms: 77.50 Down—43.00 Per Month

C Collins NBFM Adapter Model 148-C1. For 75A-2 and 75A-3 receivers. Plugs into completely wired socket on top of chassis. Operation controlled by switch on front panel of receiver. Sh. wt. 1½ lbs. 80A005, Net 22.50

TRANSMITTER ACCESSORIES

D Collins Low Pass Filter Model 35C-2. 52 ohm 3-section filter. Approx. 0.2db insertion loss below 29.7 mc & approx. 75db attenuation of harmonic emissions at TV frequencies. Unbalanced output. Sh. wt. 5 lbs. 80A001, Net 40.00

E Amphenol Connectors. For use with the 32V-3 Transmitter and 35C-2 Low Pass Filter. Sh. wt. 4 oz. 1A385, (Coax Plug—82-61) Net 2.06
1A386, (Coax Receptacle—82-97) Net 1.24

F Collins Receiver Model 75A-4. Designed expressly for Amateur operation on 160, 80, 40, 20, 15, 11 and 10 meters. Retains time-proven features of earlier 75A receivers such as double conversion for excellent image rejection; precise dial calibration and high stability; permeability tuned, hermetically sealed VFO; crystal controlled first injection oscillator; and ideal selectivity produced by mechanical filters in the IF strip. New features assure best SSB reception in addition to CW and AM. AVC on SSB and CW. Separate detectors for AM and SSB. Pass band and rejection tuning for sharper tuning. New noise limiter circuit works equally well on CW, AM and SSB. Crystal calibrator is integral. 3.1 KC mechanical filter is standard equipment (800 cycle and 6 KC filters available as extra equipment). 22 tubes including rectifiers. Size: 10½" H.x17½" W.x15½" D. Sh. wt. 49 lbs. 100AF008, Net 595.00

Terms: 59.50 Down—32.43 Per Month

G Collins Speaker/Control Model 312A-1. Furnished with removable perforated steel front panel insert with no cut-outs; the operator can remove the panel and install any control functions such as beam direction indicators, clocks, switches, etc. A 10" speaker is submounted behind the front panel. Rear of unit is open. Terminal strip mounted on rear apron. 20 lbs. 100BF004, Net 37.50

Collins Speaker Model 270G. 10" PM speaker mounted in cabinet to match 75A-4 receiver. Sh. wt. 15 lbs. 100BF002, Net 20.00

RECEIVER ACCESSORIES

H Collins Mechanical Filters Series F455J. For 75A-4 receiver. 800 cycle filter recommended for CW. 3.1 KC (supplied with receiver) for AM and SSB. 6.0 KC filter recommended for AM where interference is not a problem. Sh. wt. 1 lb.

Cat. No.	Type	Bandwidth	Net
80A048	F455J-08	800 cycles	35.00
80A049	F455J-60	6 KC	35.00

Series F455C Filters. For 75A3 receivers with serial number 1301 and up. Sh. wt. 1 lb.

Cat. No.	Type	Bandwidth	Net
80A043	F455C-08	800 cycles	35.00
80A044	F455C-12	1.2 KC	35.00
80A045	F455C-60	6.0 KC	35.00

Series F455B Filters. For 75A3 receivers under serial number 1301. Sh. wt. 1 lb.

Cat. No.	Type	Bandwidth	Net
80A003	F455B-08	800 cycles	35.00
80A031	F455B-60	6.0 KC	35.00

J Collins 100 Kc Crystal Calibrator Model 8R1. For 75A-2 and 75A-3 receivers. Plugs in. Sh. wt. 1½ lbs. 80A004, Net 65.00

PURCHASE ANY EQUIPMENT ON MONTHLY PAYMENT PLAN—SEE PAGE 153



A \$533.50



B \$199.95



C \$49.95

National Receivers

A HRO-SIXTY RECEIVER

Dual conversion on all frequencies above 7 mc. High frequency oscillator and first mixer have current regulated filament circuits. Features include: Edge lighted direct frequency reading scale, with one range in view at a time; Three I.F. stages at 456 kc employing 12 permeability tuned circuits on all bands, plus one I.F. stage at 2010 kc on all freq. above 7 mc; Built-in power supply; Sensitivity 1 mv or better for 6 db sig./noise ratio; Micrometer logging scale; Provision for crystal calibrator unit operation from front panel; S-meter amplifier; High fidelity push-pull audio (2 db 50-15000 cps) with phono jack; Separate BFO switch and frequency control; Accessory socket for accessories; Socket for NBFM adapter. Tube lineup: 6BA6, 1st r.f.; 6BA6, 2nd r.f.; 6BE6, mixer; 6C4 h.f. osc.; 6BE6, 2nd high-freq. conv.; 6SG7 1st i.f.; 6SG7 2nd i.f.; 6SG7 3rd i.f.; 6H6 det. & a.v.c.; 6H6 a.n.l.; 6SJ7 1st audio; 6SN7 phase splitter and S-meter amp.; 6V6GT (2) p.p. audio; 5V4G rect.; 6SJ7 b.f.o.; OB2 volt. req.; 4H4 osc. fil. cur. req. With tubes, 4 coils. Shipping weight 84 lbs.

108A002, (Less Speaker) Net 533.50
Terms: 53.35 Down-30.00 Per Month

HRO-60TS. Matching speaker for above. Wt. 10 lbs.
108A004, Net 16.00

HRO-60R. Rack Model. Gray Finish, with dust cover. Shipping weight approximately 100 lbs.

108A005, Net 533.50
Terms: 53.35 Down-30.00 Per Month

HRO-60RS. Speaker for Rack Model. Wt. 10 lbs.
108A007, Net 26.00

HRO-60, Deluxe 60R. HRO-60 with MRR-2 rack and 60SC2 spkr. Shpg. weight approximately 110 lbs.

108A003, Net 625.50
Terms: 62.55 Down-34.09 Per Month

HRO-60 ACCESSORIES

80A006, HRO-60XCU-2 crystal calibrator. Shipping weight 2 lbs. 27.50

80A007, NFM-83-60, NBFM Adapter. Sh. wt 3 lbs.
Net 26.75

COILS FOR HRO-60

(Average shpg. wt. 12 ounces.)

No.	Type	Band	No.	Type	Band	Net
80A008	AA	27.5-30mc.	80A014	C	3.5-7.3mc.	27.50
80A009	AB	25-35mc.	80A015	D	1.7-4mc.	27.50
80A010	AC	21-21.5mc.	80A016	E	900-2050kc.	27.50
80A011	AD	50-54mc.	80A017	F	480-960kc.	27.50
80A012	A	14-30mc.	80A018	G	180-430kc.	39.90
80A013	B	7-14.4mc.	80A019	H	100-200kc.	39.90
Net each			80A020	J	50-100kc.	39.90

B NC-125 RECEIVER

A 9 tube superhet designed as an ideal receiver for the beginning amateur, in addition to being an excellent standby for any amateur. Short wave enthusiasts will likewise find this receiver provides great pleasure with its built-in selectivity and electrical bandspread usable with the logging scale. Here are some of the features of this sturdily built receiver; Covers 550 kc to 36 mc in 4 bands with calibrated bandspread on all amateur bands; Incorporates simplified Select-O-Ject circuit giving 45 db rejection over audio range of 100-12,000 cycles; 3-microvolt sensitivity (for 10 db sig./noise ratio on 10 meter band). Lively S-meter on panel, reads S9 on 50 mv. signal. AVC, automatic noise limiter, antenna trimmer, variable CW pitch control, separate R.F. and audio gain controls, jack for phono or NFM-73B adapter, built-in voltage regulation, stabilized oscillator, audio amplifier essentially flat to 10,000 cps when used with phono. Tubes include: 6SG7-RF amp; 6SB7Y conv.; 2-6SG7 I.F. amp.; 6H6 det./AVC/ANL.; 6SN7 BFO and 1st audio amp; 2-6SL7 Select-O-Ject audio; 6V6GT audio amp; 5Y3GT rect; VR-150 volt. req. For 110 VAC, 60 cycle operation. Size: 16½x11½x8¼". Complete with tubes, less spkr. Shipping weight 36 lbs.

108A011, Net 199.95
Terms: 20.00 Down-16.00 Per Month

6" PM Speaker. Shipping weight is 10 lbs.

108A012, Net 11.00
NFM Adapter for NC-125. Shipping weight is 2 lbs.

80A021, Net 18.95

C SW-54 RECEIVER

Another National first! A complete superhet covering all major broadcast and short wave bands. Built with the same rugged quality that distinguishes Nationals more expensive receivers, the SW-54 sets a new low in price—a new high in value. Sets in a smart, modern, non-breakable metal cabinet smaller than the average table radio. Covers 540 kc to 30 mc, Voice, music or code. Features include: New miniature tubes in advanced superhet design. Slide rule general coverage dial with police, foreign, amateur and ship bands clearly marked. Unique, adjustable, plastic bandspread knob usable over entire range. Built-in speaker. Tip jacks for headphones or external spkr. Controls: Main tuning, bandspread, on-off and volume, rec./standby, bandswitch, AM-CW, spkr.-phones. Tubes: 12BEA6 conv; 12BA6 CW osc.-I.F. amp; 12AV6 2nd det.—1st aud.—AVC; 50C5 aud. output; 35Z5 rect. Operates on 115 AC-DC. Size: 11x7x7". Sh. wt. 15 lbs.

108A017, Net 49.95
Terms: 5.00 Down-5.00 Per Month

GET A GOOD TRADE-IN DEAL FROM LEO ON YOUR PRESENT RECEIVER



A \$399.50



B \$119.95



C \$149.95

National Receivers

A NC-183D RECEIVER

Sensitivity and Selectivity are as good or better than any receiver on the market and can be compared with receivers costing up to \$1000.00. Covers the 6 meter band, which most general receivers omit. Check these features: Dual conversion with a 1720 kc. first conversion frequency; An additional stage of 456-kc I.F.; crystal filter; dials have indirectly lighted lucite, with white letters on black for ease of reading. "S" meter. All R.F. and I.F. coils have been redesigned for maximum sensitivity and selectivity. Push-pull hi-fidelity audio system; Fully adjustable automatic noise limiter; Amplified and delayed A.V.C.; Adjustable sensitive "S" meter; Adjustable tone control; Adjustable B.F.O. control; Antenna trimmer; Phono input with Radio-Phono switch; Accessory socket built-in; Instant band change; Continuous bandspread throughout frequency range; Calibrated bandspread on 6, 10, 11, 15, 20, 40 and 80 meters; Provision for NBFM adapter; 10" PM speaker; Provision for battery operation; Rewired Remote Standby-Receiver switch allowing series or parallel operation. Tubes include: 2-6BA6 R.F.; 6BE6 1st conv.; 6BE6 2nd conv.; 3-6BA6 I.F.; 6AL5 det.-AVC; 6AH6 AVC amp.; 6SJ7 BFO; 6AL5 limiter; 6SJ7 audio; 6J5 phase inverter; 2-6V6GT output; OB2 volt. reg. and 5U4G rect. For 110-120 or 220-240 VAC, 50-60 cycle. Complete with tubes, less speaker. Shipping weight 65 lbs.

108AF015, NC-183D Table Model Net 399.50

108AF008, NC-183DR Rack Model Net 399.50

Terms: 39.95 Down—22.00 Per Month

108AF004, NC-183D-TS, Table Model spkr. Wt. 10 lbs.
Net 16.00

108A009, NC-183D-RS, Rack Spkr. Sh. wt. 10 lbs.
Net 26.00

80A007, NFM-83-60 Adapter. Shipping weight 2 lbs.
Net 26.75

C NC-98 RECEIVER

Offers calibrated electrical bandspread on the 10-11-15-20-40 and 80 meter ham bands. Advanced superhet circuit, using new miniature tubes throughout; an RF stage and two IF stages, and a 3-position crystal filter with heterodyne phasing control, a built-in S-meter, large easy-to-read, edge-lighted lucite dial scales; automatic series type noise limiter and a separate high-frequency oscillator for exceptional stability. Power consumption 65 watts. Undistorted power output 1.5 watts. 9 tubes: 6BA6, 6BE6, 6C4, 2-6BD6, 6AL5, 12AX7, 6AQ5, and 5Y3GT. Hammertone gray enamel cabinet, highly resistant to scratching and marring. Size: 8½x16½x10¼" deep. Shipping weight 30 lbs.

108AF013, Net 149.95

Terms: 15.00 Down—13.00 Per Month

NC-98SW. For 17, 19, 25, 31, & 49 M. Sh. wt. 30 lbs. 108AF018, Net 149.95

Terms: 15.00 Down—13.00 Per Month

NC98TS, Matching Speaker for NC-98. Shpg. wt. 8 lbs. 108AF014, Net 11.00

SEE LEO WØGFQ FOR THE BEST TRADE-IN DEAL

5

NATIONAL NC-300

Not Illustrated. New National NC-300 receiver will be unveiled on September 30, 1955. Features greatest sensitivity of any ham receiver at any price (3-6 db noise figure on all Amateur bands), greater stability plus many new features. 10 dial scales covering 160 to 1¼ meters. Slide rule dial over 12" long. 3-position IF selector. Separate linear detector for SSB. Tuning dial ratio 40 to 1. Giant "S" meter. Many other outstanding and exclusive features. Place your order now.

108AF010, Net 349.95

Terms: 35.00 Down—19.50 Per Month

B NC-88 RECEIVER

Features: calibrated bandspread for 80, 40, 20, 15 and 10 meter bands (large 6" indirectly-lighted lucite scales); superhet circuit uses 8 high gain miniature tubes plus rectifier; covers 540 Kc to 40 Mc. in 4 bands; tuned RF stage; two IF stages; 2 high fidelity audio stages with phono input; and 2-position tone control; built-in speaker; antenna trimmer; separate high-frequency oscillator; sensitivity control; series valve noise limiter; delayed AVC; headphone jack; receive standby switch. The main tuning and bandspread tuning capacitors are connected in parallel on all bands. This arrangement permits bandspread tuning at any frequency within the range of the receiver and a logging scale is provided. Controls: Main tuning; bandspread tuning; band selector; sensitivity; AC on/off-volume; receive/stand-by switch; ANL on/off switch; tone Hi-Lo switch; CWO pitch; antenna trimmer; AM/CW switch. Selectivity: Approximately 11 Kc at 20 db down. Undistorted power output: 1.5 watts. A phono input jack suitable for crystal pickup is provided at the rear of the receiver. To operate, the "Sensitivity" Control is turned to zero. Finished in Hammertone Gray Enamel. Dimensions: 8½x16½x10¼". Power consumption 65 watts. Sh. wt. 30 lbs.

108A016, Net 119.95

Terms: 12.00 Down—10.00 Per Month

Sh. wt. 3 lbs.

81A050, Net 10.95

Size: 4-1/32x2-5/16". Sh. wt. 1 lb.

81A049, Net 9.75

SEE LEO WØGFQ FOR THE BEST TRADE-IN DEAL



A \$467.50



B \$279.50



C \$47.50



D \$35.00



F \$23.70



G



H \$13.65



J \$4.65



K \$16.50

B & W High Quality Amateur Equipment

A Transmitter Model 5100S. AM-CW-SSB transmitter.

Designed for SSB operation in conjunction with Model 51SB Single Sideband Generator. (51SB must be purchased separately). Covers the 80-40-20-15-11-10 meter bands. Complete bandswitching throughout all bands. Input power 135 watts phone, 150 watts CW. Operation: VFO or crystal on phone or CW. Pi-network output. Built-in low pass filter. TVI suppression. Stable VFO with accurately calibrated scale. Output impedance: 75 ohms unbalanced. External audio power output: 75 watts, impedance 500 ohms. Tube complement: 3-6BJ6, 4-6AQ5, 4-6146, 1-6U8, 1-6AQ5, 1-5V4G, 2-5R4GY, 1-VR150, 1-VR105. For 110 volts, 50/60 cycles. Size: 22x11½x14½". Sh. wt. 90 lbs. 141BF001, Net 467.50

Terms: 46.75 Down-26.50 Per Month

B Single Sideband Generator Model 51SB. Especially designed for use with the B&W Model 5100 transmitter. Complete bandswitching on 80, 40, 20, 15, 11 and 10 meters. VFO or crystal control operation on SSB. Speaker deactivating circuit. Completely self-contained except for microphone. Easy to install, no test equipment needed. Power consumption approximately 85VA. Sh. wt. 48 lbs. See page 9 for Modification Kits. 141AF003, Net 279.50

Terms: 27.90 Down-24.00 Per Month

C Matchmaster Model 650. Self-contained, compact unit. Use as non-reactive dummy load. For 52 ohm line. Direct-Reading RF Watt meter. Has integral SWR Bridge. Specifications-Dummy load: SWR of 1.2 or 1 or better from DC to 30 mc. RF Watt meter: From 500 Kc. to 30 mc. Power rating: 100 watts continuous-125 watts intermittent. Size: 6x3x8". Sh. wt. 35 lbs. 141AF002, Net 47.50

D SSB Receiving Filter Model 360. Particularly valuable for SSB receiving adapter applications. Degree of sideband rejection of adjacent-channel signals is in excess of 45 db. Provides excited carrier SSB reception: absolute single signal CW reception SSB reception of double sideband AM signals. Size: 2-5/8x2½x3¾". Sh. wt. 3 lbs. 86A003, Net 35.00

E B&W Pi-Network Tank Coil Model 850. High-power integral bandswitching pi-network tank coil for 80 through 10 meters. Designed for Class "C" or linear operation using triodes or tetrodes in conventional or grounded grid circuits. Permits easy selection of desired band. Provides ample current carrying capacity and a minimum "Q" of 300 over entire operating range. Output impedance is 50 to 75 ohms. Input is 1 kw. with plate voltages from 2500 to 3000 volts DC. Wt. 10 lbs. 86A034, Net 35.00

F T-R Switch Model 380. Provides fully automatic electronic antenna changeover from radio receivers to transmitters and vice-versa, for all power applications up to the legal limit. Ideal for voice-operated SSB, AM phone, and break-in CW—all with one antenna. Gain varying from 6 db at 3.5 mc. to 0 db at 30 mc. is realized on reception, while transmitting power loss is virtually unmeasurable. Broad band circuitry eliminates tuning or adjustment. Sh. wt. 4 lbs. 86A022, Net 23.70

G B&W SSB Receiving Adapter Model 370. A truly selective, bandpass type, adapter unit using the double conversion principle. In addition to superlative performance on SSB, it permits true single-signal CW reception and selective sideband reception on AM phone signals. An integral 20 kc. toroidal bandpass filter with 3 kc. passband assures sharp skirt selectivity with attenuation of unwanted signals a minimum of 50 db. Self-contained in a handsome modern cabinet. Complete with power supply and 7" dynamic speaker. Easily installed and adjusted for conversion of any receiver having an IF between 450 and 500 kc. Sh. wt. approx. 15 lbs. 141AF004, Net Price To Be Announced

H Multi-Position Coax Switch Model 550. Equipped with six type SO-239 connectors for selecting any one of five lines. Handles 1 KW. of modulated power. Housed in 2½" dia. aluminum case. Single hole mounting. Sh. wt. 1½ lbs. 86A001, Net 13.65

J Audio Phase Shift Network Model 350. Designed especially for SSB receiving and transmitting applications. Will split any audio signal within the range of 300 to 3000 cps into two equal amplitude components that are 90 degrees plus-minus 1.5 degrees, out of phase with respect to each other. Plugs into octal socket. Sh. wt. 8 oz. 86A002, Net 4.65

K 1-KW Baluns-Fixed Frequency. Single frequency 1-KW Baluns. Appropriate connections and impedance values. Housed in Hammerton® gray finish boxes. Size: 4x4x5½". Full instructions with respect to mounting and installation details are packed with each unit. Av. sh. wt. 4 lbs.

For Beam Antennas With "T" Matching Section

For 300 Ohm Half Wave Folded Dipole Antennas

Cat. No.	Model	Band	Cat. No.	Model	Band
81A009	710	10M	81A006	700	10M
81A010	711	15M	81A007	701	15M
81A011	712	20M	81A008	702	20M
81A012	713	40M			
81A013	714	80M			
			Net each 16.50		



A \$49.50



B \$39.50



C \$69.50



D \$194.00



E \$199.75

RME Equipment—Panadapter

A RME Preselector Model DB-23. Completely new design for high RF efficiency and signal-to-noise ratio. Provides tremendous increase in usable gain when used with a good communications receiver, including double conversion models. Permits copy of signals that otherwise would be unintelligible. Average overall gain approximately 25 db achieved on all amateur bands 3.5 through 30 Mc. Entirely self-contained. Input circuit permits use of any standard communications type of antenna with impedances ranging from 600 to 50 ohms, coax, doublet, or twin lead. Output to the receiver is low impedance, shielded line to match receiver input impedances from 52 to 300 ohms. Blue-gray steel cabinet, complete with self-contained power supply. Size: 5x7-3/8x6". Sh. wt. 8 lbs.
109A008, Net 49.50

B RME Speech Clipper Model RME-100. Specially designed Peak Limiting Pre-Amplifier. Clips tops and bottoms from speech frequencies which rise above a pre-set amplitude. Provides higher articulation and intelligibility. Self-contained in a handsome blue-gray case with Clipping Level control; On-Off switch and In-Out control. High impedance microphone input on front panel accepts standard PCIM connector. Output of RME-100 operates directly into the microphone input of conventional speech amplifier. Sh. wt. 9 lbs.
109A009, Net 39.50

C RME Mobile Converter Model MC-55. For 10-11, 15, 20, 40 and 75 meters. High sensitivity—1.25 mv on all bands. Three gang tuning—Individual slug-type coils for each band. Built-in Noise Clipper. 25-to-1 worm gear drive assembly provides smooth, effortless tuning. Low power requirements—All miniature low-drain tube line-up. Requires only 25 ma. at 150-180 volts. Uses 6AK6 rf. amp., 12AT7 osc. and det., 6BJ6 if amp., 6AL5 noise limiter. Output freq: 1550 Kc. Large edge-lighted dial calibrated for 26.4-30 mc, 21-21.45 mc, 14-14.3 mc, 7-7.3 mc, and 3.5-4 mc. Easy to mount in any handy location. Complete with tubes, connection cables and instructions. Size: 5x4-7/8x5 1/2". Sh. wt. 7 lbs.
31A003, Net 69.50

Terms: 6.95 Down-6.00 Per Month

D RME Receiver Model 4300. Deluxe features include: large, evenly graduated dial covering 6 bands—1.7 to 2.03 mc, 3.48 to 4.08 mc, 6.9 to 7.32 mc, 13.8 to 14.55 mc, 20.88 to 21.57 mc, 26.9 to 29.9 mc.; Receiver is stable using all temperature compensated components. Uses "S" meter calibrated in steps of 6 db. 4-position switch on front panel for accurate selectivity control. Crystal filter has phasing control. Uses separate BFO with switch, with extra variable control for BFO injection voltage; also uses variable pitch control. Automatic noise limiter. 8 tubes. 455kc IF. Provision for SSB adapter with jacks on rear chassis. Front panel calibration control. Antenna Trimmer control on front panel permits peak adjustment of RF grid trimmer at all times to compensate for different antennas. RF gain control gives smooth action with 6db by attenuation for each 5 degrees rotation. High sensitivity of plus-minus 6db 9.5 mv. at 30% modulation on all bands. Finish is instrument grey. Back of chassis has 2 coax jacks for cables to SSB adapter; switches in from front of panel; 4 ohm terminals to speaker; antenna connections for doublet and Marconi-type. Has "S" meter set control, also transmitter relay and break-in terminals. Size: 16x10x10 1/2". Sh. wt. is approximately 35 lbs.
109AF001, Net 194.00

Terms: 19.50 Down-20.00 Per Month

E Panadapter Model PR-1. Enables simultaneous visual operation of one or many radio signals at one time. Operates in conjunction with any receiver having an I.F. between 450kc and 470kc. 3" cathode ray tube further facilitates operation by helping locate QRM-free spots, spot replies to CQ's, receiver tuning. Features include: visual displays up to 200 kc wide; push-pull deflection; continuously variable sweep-width; linear or compressed indications of signal levels, selection by front panel switch; highly effective compression control to correct for receiver front selectivity; phone output for use of PR-1 as a second unisignal aural receiver; broad range frequency control to tune PR-1 when used as an aural receiver. Size: 6x12x8". Shpg. wt. 15 lbs.
143AF002, Net 199.75

Terms: 20.00 Down-16.00 Per Month

B & W Equipment

B & W Modification Kits. (Not illustrated.) To adapt B & W 51SB Single Side-band Generator to other equipment.
Model 51SB-3. For Viking II.
86A019, Net 5.00
Model 51SB-4. For Collins 32V, V3, V2.
86A020, Net 10.00
Model 51SB-5. For Viking I. (4D32 tube type only.) 86A021, Net 10.00

B & W Dip Meter Model 600. Covers 1.75 to 260 Mc. in 5 calibrated over-lapping bands. Controls are grouped for ease. Sturdily built, color coded, plug-in coils. Sensitive 500 microampere meter. 0-100 scale also on dial for extension of frequency range. Size: 3x3x7 1/2". Sh. wt. 2 1/2 lbs.
81A054, Net 39.75

SEE LEO WGFQ FOR THE BEST TRADE-IN DEAL





A \$349.50



D \$22.50



E \$49.50



B \$199.50



C \$129.50



F \$35.00

Central Electronics - Burnell Single Sideband Equipment

A Central Electronics Linear Amplifier Model 600L. New Multiphase Broadband Linear Amplifier. No tuning controls, servos or moving parts other than bandswitch. 10-160 meters. For use on SSB, AM, PM and CW. Meter reads power input directly in watts. Excellent stability, complete freedom from parasitics. TVI suppressed. Single 813 in Class AB2. Designed for 50-70 ohm coaxial input and output. Easy to drive. Built-in power supply-bias and screen regulation. Gray finish. With tubes. 17-5/8x8 1/2x13". Wt. 100 lbs. 123AF009, Net 349.50
Terms: 34.95 Down-19.50 Per Month

B SSB Exciter Model 20A. 20 W. peak output with all of features of Model 10B plus complete bandswitching 160 thru 10 M. Magic eye carrier null & peak modulation indicator. Gray wrinkle. 14-3/8x8 1/2x10". 40 lbs. 123AF003, (Kit) Net 199.50
Terms: 19.95 Down-16.00 Per Month
123AF004, (Wired) Net 249.50
Terms: 24.95 Down-14.00 Per Month

C SSB Exciter Model 10B. Features include-10 watt peak output, SSB, AM, PM, and CW. 160 meters thru 10 meters with plug-in coils (coils for one band furnished). Voice operated break-in. Switchable sideband. Carrier level control. New calibrated circuit. Accessory power socket. Cabinet is finished in gray wrinkle. Shipped with 80M. coil. Additional coils listed below. Sh. wt. 32 lbs. 123BF002, (Kit) Net 129.50
Terms: 12.95 Down-11.00 Per Month
123AF005, (Wired) Net 179.50
Terms: 17.95 Down-15.00 Per Month

Coils for Model 10B
(26A053, 10 meters) (26A054, 15 meters) (26A055, 20 meters) (26A056, 40 meters) (26A057, 80 meters) (26A058, 160 meters). Net each. 3.95

Conversion Kit Model 458. Basic BC-458 conversion parts kit. 15 to 160 meters, with dial, etc. Wt. 4 lbs. 86A009, Net. 15.00

Deluxe Case and Panel Kit Model 458. Matches size and appearance of slicer. Sh. wt. 8 lbs. 123AF008, Net. 10.00

Model 458-10. Xtal controlled converter package to extend 458 VFO into 10 meter band. For use with above 458 conversion kits. Sh. wt. 2 lbs. 86A026, (Wired) Net 37.50
86A025, (Kit) Net 27.50

D "Q" Multiplier Model DQ. Tunable IF electronic filters provides tremendous receiver selectivity for peaking or rejecting a signal on AM, CW or SSB. Nulls out interfering heterodynes without affecting speech intelligibility. Desk model for any receiver with 450 to 500 Kc IF. Complete with connecting power-IF cable. Power taken from receiver. Size: 5 1/2x4x5". Wt. 4 lbs. 86A028, (Wired) Net 29.50
86A027, (Kit) Net 22.50

"Q" Multiplier Model AQ. For installation in Model A Slicer. Includes new front panel and connecting cables for receiver. Sh. wt. 4 lbs. 86A030, (Wired) Net 29.50
86A029, (Kit) Net 22.50

E Sideband Slicer Model A. Improves receiver reception. Upper or lower sideband of SSB, AM, PM and CW at flip of switch. For receivers with 450-500 Kc IF. Easily connected. Built-in power supply. 16 lbs. 123AF007, (Wired) Net 74.50
123AF006, (Kit) Net 49.50
Sideband Slicer Model B. Same as Model A but includes built-in Q-Multiplier. AP-1 not needed. Sh. wt. 17 lbs. 86A024, (Wired) Net 99.50
86A023, (Kit) Net 69.50

Adapter Model AP-1. Plug-in IF stage. Used with Model A slicer. Allows receiver to be switched back to normal. Wired only. Sh. wt. 1 lb. 81A075, Net 8.50

Adapter Model AP-2. Combined AP-1 and Xtal mixer. Allows slicer to be used with receivers having 50, 85, 100, 915 Kc and other IF systems. Sh. wt. 2 lbs. 81A076, Net 17.50

Model QT-1. Anti trip unit for use when operating break-in with loudspeaker. Plugs in the Model 10B or 20B exciter. Available wired only. Sh. wt. is 2 lbs. 81B059, Net 12.50

Model PS-1. Plug-in pre-aligned phase shift network. Sideband rejection 40-45 db over 225 to 2750 cps. With socket and diagram. Sh. wt. 1 lb. 81A074, Net 8.95

F Burnell Single Sideband Filter Model S-15000. This Single Sideband filter may be adapted to any receiver without the use of complicated associate circuits. 3 KC bandwidth. Approximate shipping weight 1 lb. 80A046, Net 35.00



A \$595.00

B \$169.95

D \$39.95

C \$339.00

E \$24.95

F \$29.95

G \$34.95

High Quality Single Sideband Equipment

A **Elenco SSB Transmitter Model 77.** May be used as complete transmitter for home or portable use or as driver for higher power amplifier. Power output: 100 watts peak envelope power output. Unwanted sideband attenuation 80 db below peak envelope power output. Audio input: High impedance. RF output: 53 ohms all bands. VFO range: 200 KC all bands. Output frequency range: Unit is equipped with crystals to cover following channels with the VFO: 1.8-2.0 Mc.; 3.8-4.0 Mc.; 7.1-7.3 Mc.; 14.15-14.35 Mc.; 21.25-21.45 Mc.; 28.5-28.7 Mc. Single knob bandswitch. Vernier frequency control for zeroing frequency with ease. Voice control circuit. Three power supplies integral. Complete with tubes. Sh. wt. 75 lbs.

123BF001, Net 595.00

Terms: 59.50 Down-32.43 Per Month

B **P & H Linear Amplifier Model LA-400.** Grounded grid amplifier. Delivers high quality signal on SSB, AM, FM or CW when used with suitable exciter such as the Central Electronics Model 20A. Matches a variety of output impedances with pi output circuit. Power: 400 watts instantaneous peak. Driving power: 20 watts for maximum output. Driver impedance: 52-72 ohms. Bands: 75-40-20 meters. Output impedance: 50-75 ohms on all bands. Size: $14\frac{1}{2} \times 10\frac{1}{2} \times 8\frac{1}{2}$ ". 90 lbs.

123AF010, Net 169.95

Terms: 16.95 Down-14.50 Per Month

Modified 1625 tubes for use with above.

57B055, Net Each 3.75

C **Gonset Multi-Purpose Linear RF Power Amplifier.** For SSB-CW-AM phone. A complete, ready-to-operate RF linear amplifier with single control band-switching for six amateur bands, 10-11-15-20-40-80 M. Ideally suited as an output linear amplifier to follow any low power SSB exciter, an instantaneous peak power output of 480-500 watts being obtainable with very low driving power. AM carrier of 100 watts can be supplied when driven by a 1-2 watt AM modulated source. 240 watts of CW output is obtainable readily. Heavy-duty dual-voltage power supply utilizing four 866 Jr's in bridge rectifier is self-contained. Pi-network matches 50 to 300 ohms. Sh. wt. 82 lbs.

139AF006, Net 339.00

Terms: 33.90 Down-19.00 Per Month

D **Eldico Model VFO-10-20A.** Designed expressly for use with Central Electronics 10 and 20A SSB exciters. Provides complete band coverage on 80 (3500-4000 KC) and 20 meters (14000-14300 KC). No modification to 10 or 20A necessary. Large six-inch dial. Each band accurately calibrated. No tubes in VFO proper hence no heat to cause frequency drift. Single tube oscillator unit plugs directly into socket provided on both 10 and 20A exciters. No other external connections needed. Sh. wt. 8 lbs.

136BF001, (Kit) Net 39.95

136BF002, (Wired) Net 49.95

E **Eldico Model VFO-2.** Designed for use with Eldico TR-1, TR-1TV, TR-300, TR-600 and TR-75TV transmitters. Complete coverage on 80, 40, 20, 15 and 10 meters. Large easy to read six-inch dial. Each band separately calibrated, 80 meter band divided into two sections. Extreme electrical and mechanical stability. No tubes used thus no frequency drift from heat. No external power connections needed. Sh. wt. 8 lbs.

136AF023, (Kit) Net 24.95

136AF024, (Wired) Net 29.95

F **Eldico Antenna Tuner Model A-300.** Universal, multi-band, antenna tuner designed to couple and match conventional feedline, regardless of impedance, to any conventional tank circuit. Maximum efficiency through use of separate coil for each band (utilizes B & W TVL coils, see page 93). Housed in completely shielded case, integral R.F. ammeter. Provisions for co-axial input, and either co-axial, 300 ohm or open wire line output. Rated 300 watts. Less coil. Sh. wt. 10 lbs.

136AF011, (Kit) Net 29.95

136AF012, (Wired) Net 39.95

G **Eldico Electronic Key Model EE-2.** Self-completing type. Continuous variable-speed control 8 to 50 words per minute. Complete with built-in audio oscillator for monitoring keyed signal, either for practice, or on-the-air transmission. Built-in power supply. Grey hammertone cabinet. Sh. wt. 7 lbs.

81A025, (Kit) Net 34.95

81A026, (Wired) Net 49.95

New Phasemaster-Jr. II Exciter. (Not Illustrated). New and versatile high power multiband (phasing type) SSB exciter. Features: New switchable upper and lower sideband plus double sideband. AM, narrow band, phase modulation and break-in CW. Modern cabinet has built-in harmonic suppression. Unwanted carrier suppression averages 40-45 db down with carrier level control adjustable from full output to -60 db down. Output stage provides 85 watts peak envelope power input or 50 watts peak envelope power output, slightly less on 15-10 meters. Only phasing type exciter with high power final allowing sufficient drive to drive most any type final including most grounded grid amplifiers. Complete bandswitching. All controls on front panel. Built-in low pass audio filter with 3500 cps cut-off. 3800 cps audio response is down over 40 db. Negative 100 volt supply for blocking bias of linear amplifier. Pi network output circuit matches 30-300 ohm loads. **Price to be announced.**

PURCHASE ANY EQUIPMENT ON MONTHLY PAYMENT PLAN-SEE PAGE 153

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switching-6 bands. VFO and exciter stages gang-tuned. Pi-section output. Built-in antenna changeover and receiver muting relay. Switch for high impedance or carbon mike input. Break-in operation on CW. AB, modulation employing negative peak clipping. Push-to-talk operation. Power requirements: 400-600 V at 200-250 Ma. Sh. wt. 135BF002, Net 159.50

is easily removed and replaced by merely sliding in and out-no bolts or screws-no holes to bore in the transceiver. Sh. wt. 2 lbs.

135BF010, Net 6.95

For Elmac PMR-6A and PMR-12A. This rack also mounts under the dash on all conventional automobiles using the hardware and mounting strap that is provided. 2 lbs.

135BF015, Net 6.95

band from the drivers seat. The remote controlled band-matcher tunes your mobile antenna to exact operating frequency. Just flip the switch and "presto" QSY in any particular band without jumping out of your car to adjust the antenna loading coil. Built-in field strength meter. Sh. wt. 3 lbs.

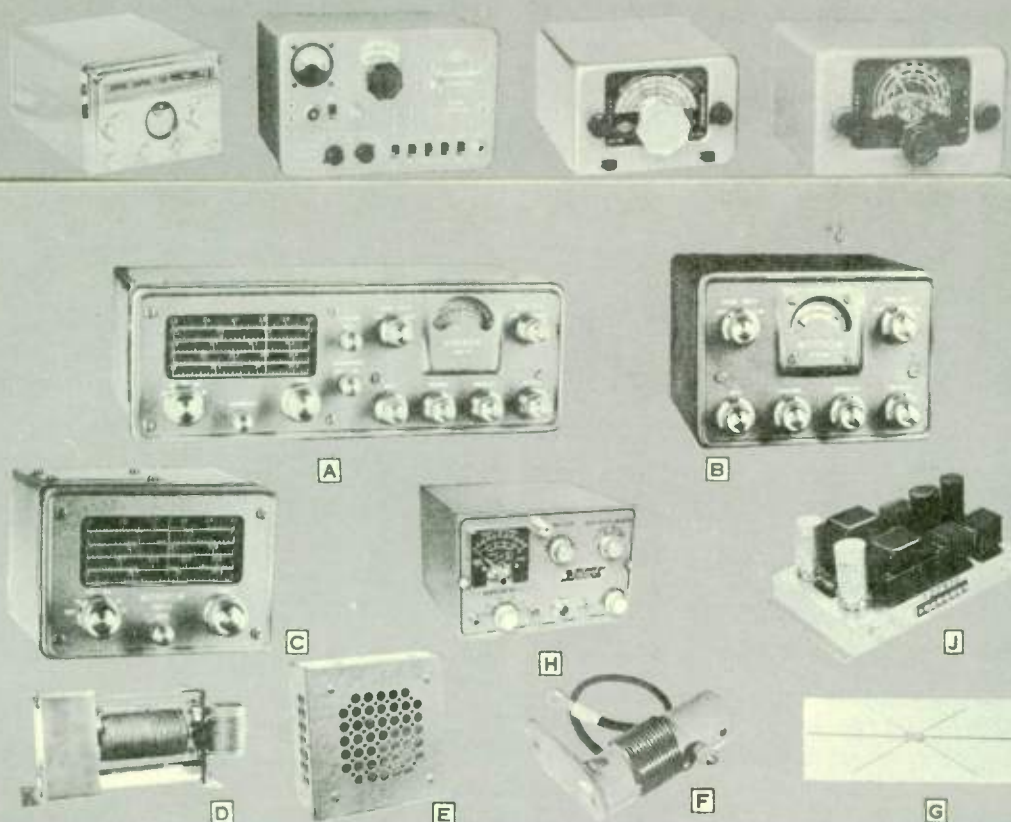
86A004, (6 volt model) Net 24.95

86A005, (12 volt model) Net 24.95

PURCHASE ANY EQUIPMENT ON MONTHLY PAYMENT PLAN-SEE PAGE 153

World Radio History

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Morrow - Babcock - James Mobile Equipment

A Morrow Receiver Model MBR-5.

Complete 13 tube dual conversion superheterodyne communications receiver with better than $\frac{1}{2}$ microvolt sensitivity. This feature combined with excellent signal/noise ratio makes signals readable that are ordinarily lost. 100 Kc. crystal calibrator. Excellent SSB and CW reception. No warm-up delay. Fully temperature and voltage compensated oscillators. Will hold calibration accuracy with changes of 0 to 150 degrees F. and input voltages of 4 to 8 volts, DC. Squeal and noise limiter. Illuminated "S" meter. Excellent RF design eliminates images, spurious signals and noise. Power supply operates on both 6 and 12 volts. Complete with power supply, 13 tubes, SH type PM speaker, operating instructions and mounting hardware. Size: 4x11 $\frac{1}{2}$ x6 $\frac{1}{2}$ ". Sh. wt. 10 lbs.

138AF016, Net 224.50

Model PW-115. 120 volt AC power pack for fixed station operation. Sh. wt. 7 lbs.

138BF010, Net 29.95

B Morrow Fixed Tuned Mobile Receiver.

For use with any converter with an output of 1525 kc. When employed with the 5BRF converter, a sensitivity better than $\frac{1}{2}$ microvolt and sufficient stability for SSB reception will be obtained. Selectivity 3 kc at 6 db down and its overall stability is within .01% of the IF frequency. Two circuits tuned to the converter output frequency precede six sharply tuned 200 kc bandpass filters in the FTR mixer and IF amp stages to obtain steep-sided skirt selectivity. Noise balanced squeal, hermetically sealed S-meter. 9 tubes. Complete with tubes, 6 VDC power supply, mtg. hardware, shielded interconnecting power cables and instruction manual, less speaker. Size: 4x5-5/8x7". Sh. wt. 8 lbs.

138BF006, (6 V. model) . . . 128.40

138BF007, (12 V. model) . . . 128.40

C Morrow Converter Model 5BR-2.

This converter covers 10, 11, 15, 20, 40, 75 and 80 meter bands. Has added extra switch wafers to short out all unused coils to eliminate dead spots. Ceramic trimmers used throughout. Clapp oscillator circuit for maximum stability. Sensitivity better than one-half microvolt on all bands. Sh. wt. 5 lbs.

81B046, (6 & 12V.) Net 74.95

C Morrow Mobile Converter Model 5BRF-2.

Designed for use with the model FTR without modification. For 75, 40, 20, 15 and 10 M. Tuned RF stage. Sensitivity: $\frac{1}{2}$ microvolt. Output: 1525 kc. Dimensions: 4"H., 5-5/8"W., and 7"D. Power requirements: 6 or 12 volts for filaments and 200-225 volts at ma. Complete with tubes and instructions. Sh. wt. 5 lbs.

138BF005, (6 & 12V.) Net . . . 67.95

D Morrow Variable Inductor Model MLV-50.

For tuning a mobile whip antenna by remote control. Used on 75, 40, 20, 15 and 10 meter bands. Sh. wt. 5 lbs.

80A040, (6 V. model) Net . . . 19.95

80A041, (12 V. model) Net . . . 19.95

E Morrow Speaker Model SH. 5"

heavy duty PM speaker housed in a cast aluminum case. 3 $\frac{1}{2}$ lbs.

80A039, Net 10.00

F Morrow Generator Noise Filters.

For 10 or 20 M. bands. Attenuates generator noise created by brush sparking. Sh. wt. 1 lb.

80A026, (GC-10, 10M.) Net . . 3.75

80A037, (GC-20, 20M.) Net . . 3.75

G Morrow "Top Hat" Antenna.

Increases antenna efficiency by lowering the number of turns required on the loading coil and increasing the effective RF current from top of antenna to ground. Sh. wt. 1 lb.

80A038, Net 2.50

H Babcock Mobile Transmitter Model MT-5B.

Features clear- vision meter with D'Arsonval movement. Uses tubeless VFO. VFO-XTL crystal switch and VFO connector located on panel. Alternate 6 and 12V. wiring. Fully band-switching. Covers 10 to 80 mc. No plug-in coils. 4 crystals. Input to final 35 to 50 W. Freq. coverage, 3.5 to 7.3 mc and 14-30 mc. Uses standard push-to-talk carbon mike. 5x8x7". With 6 tubes, plugs and instructions. Sh. wt. 12 lbs.

135AF014, Net 119.50

6VDC Dual Vibrator Power Supply Model PS-4A.

Complete with vibrators, plugs and tubes. Wt. 14 lbs.

135AF011, Net 67.50

12 V. Dynamotor Power Supply Model PS-CA.

Sh. wt. is 14 lbs.

135AF016, Net 79.50

Model PS-1B. 115 VAC Power Supply with tubes.

Sh. wt. 18 $\frac{1}{2}$ lbs.

135AF012, Net 44.95

2-Band Antenna Tuning Unit Model LS-1.

Sh. wt. 1 lb.

81A044, Net 15.00

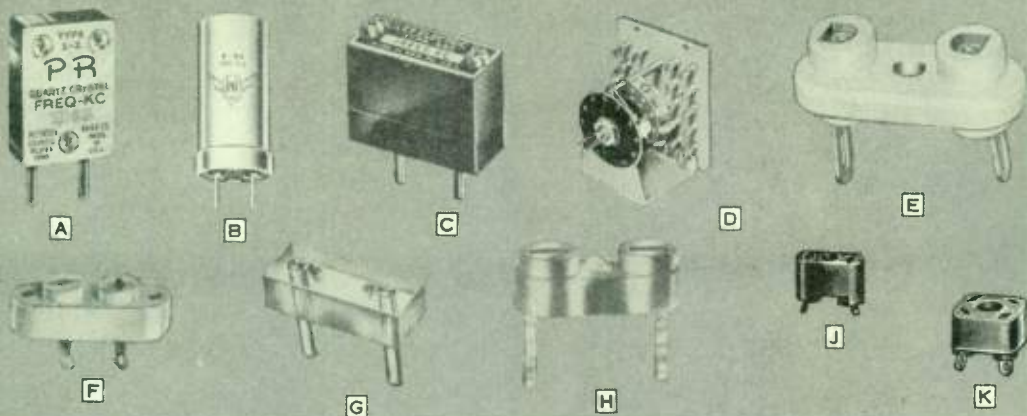
J James Power Supply Model C-1050.

Designed expressly for amateur mobile applications. Ruggedly designed for long trouble-free operation. 6/12 volt operation. 95 W. output for transmitting, free from "Hash". Antenna relay power tap (6 volts) for external antenna crossover relay. Receiver muting relay. Low voltage transmitter voltage—for dual voltage requirements, no dropping resistors required. Standard plug-in selenium rectifiers and vibrators for easy maintenance. Multiple outputs: 150-225-300-375-450 V. all at 200 ma. max. obtainable through simple tap changes. Base dimensions: 6x10x4 $\frac{1}{4}$ " H. Wt. approx. 15 lbs.

107AF002, (Wired) Net . . . 49.95

107AF003, (Kit) Net 39.95

Morrow Transmitter Model MB-560. Companion to the MBR-5 receiver. 60 W. power, VFO, all bands. Write for details.



High Quality Crystals and Accessories

A Peterson "PR" Crystals. Low drift, less than 2 cycles per MC per degree Centigrade, high activity, stability, and output. $\frac{1}{2}$ " per spacing. Sealed against contamination and moisture. Z-2 and Z-3 crystals are supplied integral kilocycles only, no fractions. All amateur crystals calibrated plus or minus 500 cycles, except 160 meters, which are plus or minus 250 cycles, and type Z-9A, plus or minus 3 Kc. Av. sh. wt. 8 oz.

Type Z-2

Cat. No.	Range	Use	Net
67B001	1750-2000 kc.	160 M.	2.88
67B002	3500-4000 kc.	80 M.	2.88
67B003	5000-5500 kc.	20 & 80 SSB	2.88
67B004	5555-6000 kc.	6 M.	2.88
67B005	6250-6750 kc.	2 M.	2.88
67B006	6740-6807 kc.	11 M.	2.88
67B007	7000-7425 kc.	40 M.	2.88
67A008	8000-8222 kc.	2 M.	2.88
67A009	8334-9000 kc.	6 M.	2.88
67A010	9000-9250 kc.	2 M.	2.88

Type Z-3

Cat. No.	Range	Use	Net
67A011	12000-12333 kc.	2 M.	3.87
67A012	12500-13500 kc.	6 M.	3.87
67A013	13480-13615 kc.	11 M.	3.87
67A014	14000-14850 kc.	20 M.	3.87

Type Z-9A

Cat. No.	Range	Use	Net
67A015	24000-24666 kc.	2 M.	4.85

A Type Z-9A. For radio control of model airplanes and boats. Frequency 27.255 MC. Tolerance .04%. Sh. wt. 4 oz.

67A016, Net 3.87

Type Z-1. MARS Crystals. Official assigned transmitter frequencies in the range. Frequency range 1500 to 10000 KC. Tolerance .005%. Sh. wt. 4 oz.

67A017, Net 3.87

Type Z-1. CAP Crystals. Official assigned transmitter frequencies in the range. Frequency range 1500 KC to 10000 KC. Tolerance .005%. Sh. wt. 4 oz.

67A018, Net 3.87

Type Z-1. Aircraft. Frequency 3023.5 KC. Tolerance .005%. Sh. wt. 4 oz.

67A019, Net 3.87

Type Z-9A. For Lear, Narco and similar equipment operating in the 121 MC region, requiring crystals in 30 MC range. Sh. wt. 4 oz.

67A020, Net 6.81

Type 2XP. Special crystals outside Amateur bands. Suitable for converters, experimental, etc. Same holder dimensions as Type Z-2.

Cat. No.	Freq. Range	Tol.	Net
67A021	1600 to 12000	± 5 KC	3.87
67A022	12001 to 25000	± 10 KC	4.85

B Type Z-6A. 100 KC frequency standard. Shpg. wt. 4 oz.

67A023, Net 6.81

C Bliley Crystals Model AX2. Plated to insure long term precision and reliability. Calibrated to plus-minus .002% per degree centigrade. Available at exact integral frequencies within ± 500 cycles. Holder pins spaced on .486" centers. Sh. wt. 6 oz.

Cat. No.	Supplied \pm	Range	Net
66A001	2 Kc.	3500-4000Kc.	2.95
66A002	2 Kc.	7000-7425Kc.	2.95
66A005	30 Kc.	14000-14850Kc.	3.95

D Johnson Instant Crystal Selector Model 126-220-1. Ten frequencies with a twist of the knob with extra position for ECO. Accommodates all crystals with $\frac{1}{2}$ " spacing. With adaptors also takes 6 upright $\frac{1}{2}$ " spaced crystals plus 4 with $\frac{1}{2}$ " spacing. Bracket permits vertical or horizontal mounting. Sh. wt. 5 oz.

11A145, Net 4.12

E Johnson Crystal Socket Model 126-105. Designed for HC-6/U crystal holder. Steatite base, DC200 impregnated. Contacts spaced .486" accept pins .050" diameter, .248" long; silver plated, hot tin dipped terminals. Single $\frac{1}{8}$ " mounting hole. Withdrawal force $\frac{1}{2}$ lbs. plus or minus 40%. Sh. wt. 4 oz.

11A146, Net12

F Millen Crystal Sockets. Constructed of high quality steatite insulation. Av. sh. wt. is 3 oz.

Cat. No.	Type	Spacing	Pins	Net
23A033	33002	3/4"	.125"	.36
23A034	33102	.487"	.095"	.36
23A035	33202	1/2"	.125"	.36

G Mosley Crystal Holder Adapter Model 5-75. For crystals with $\frac{1}{2}$ " pin spacing for use in $\frac{3}{4}$ " spaced socket such as 5 or 6 prong tube socket. Sh. wt. 6 oz.

10A226, Net34

Model 75-5. For crystals with $\frac{1}{2}$ " pin spacing for use in $\frac{1}{2}$ " spaced socket such as octal. Sh. wt. is 6 oz.

10A227, Net34

Mosley Three-Gang Socket Model 53. For $\frac{1}{2}$ " spaced pin crystal holders. Acrylic plastic. Sh. wt. is 3 oz.

10A224, Net64

Mosley Six-Gang Socket Model 56. For $\frac{1}{2}$ " spaced small pin crystal holders. Acrylic plastic. Sh. wt. is 3 oz.

10A225, Net 1.23

H Mosley Crystal Holder Socket Model 500. For standard crystal holders with .095" pins spaced $\frac{1}{2}$ ". With a 4-40x5/16" plated brass machine screw and a drilling template. Size 7/16" W., 11/16" L. For chassis or panels up to 1/8" thick. Sh. wt. 4 oz.

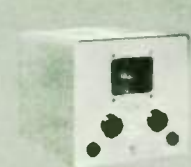
10A235, Net21

J Cinch-Jones Crystal Socket Model 2KM. 2 prong. Molded from high dielectric mica-filled low loss bakelite. Silver plated beryllium copper contacts. For FT243 crystal. Sh. wt. 4 oz.

27A077, Net26

K Cinch-Jones Crystal Socket Model 2K4. 4 prong. Molded from mica-filled low loss bakelite. Silver plated beryllium copper contacts. Mounting hole recessed. For use with two No. FT243 type crystals. Sh. wt. 4 oz.

27A078, Net30



A \$149.50



B \$19.50



C \$24.95



D \$24.95



E \$14.95



F \$32.50



G \$22.50



H \$14.50



I \$17.15



K \$13.95

Popular Amateur Equipment

A Conset 2 Meter Linear Amplifier Model 3063. 50-60 watts output power. Provides ten time increase in output power of 2 Meter Communicator. P-P 826 output. Built-in antenna changeover relay. Operates with 2 meter equipment of other manufacture. Complete, self-contained, including power supply. Same size and style as Communicator. Sh. wt. 20 lbs.
139AF009, Net 149.50

B Conset Monitone Model 3022. Designed for use as a Code Practice Oscillator or monitor for Phone and CW transmitters. Size: 6 $\frac{1}{2}$ "W.x5 $\frac{1}{4}$ "H.x4"D. 5 lbs.
86A008, Net 19.50

C Drake "Q-X'er" Improved Q-Multiplier. All advantages of a crystal filter, without the disadvantages of poor speech quality. Provides either a sharply peaked I.F. curve or a deep rejection notch. Peak or notch are tunable to any point in the I.F. Pass Band, and occur at same point on tuning dial. Cable for attachment to receiver included. Requires 6.3 VAC at 300 mls and 100-250 VDC at less than 1 ma. Size: 4-3/8x5x5 $\frac{1}{2}$ ". For 455 KC.I.F. Sh. wt. 3 lbs.
86A011, Net 24.95

D Drake Hybrid Phone Patch. Specially developed for SSB but is fully automatic with any voice operated Transmit-Receiver set-up. Automatically switches to transmit when local participant is talking and switches automatically to receive when he stops. Special circuit reduces effect of impedance variations. R.F. filtering prevents R.F. feedback from phone line pickup. Undistorted audio quality, free from hum. Furnished with mike connector, phone plug, by-pass capacitor and full instructions. Sh. wt. 3 $\frac{1}{2}$ lbs.
86A018, Net 24.95

E Cesco Phone Patches

Regency. For use with Collins 32V-Series transmitters or push-to-talk Globe King. One of these units supplants the push-to-talk "mike" as used on these transmitters. Easily adapted. Sh. wt. 3 lbs.
81A065, Net 24.95

Supreme. Combination phone patch and transmitter control. A slide switch on the front panel is used to connect the line permitting single switch operation for both transmitting, receiving and patch. Equipped with outlet and plug for transmitter control and receiver standby leads. Sh. wt. 3 lbs.
81A066, Net 24.95

Original. A sound receiving & transmitting unit for low impedance, low voltage lines. The receive position designed to work on any receiver having output impedance from 500 to 5000 ohms. Three-position switch. Standard phone jack output to receiver, and Amphenol PCIM for connection to speech amplifier. Mounts easily on receiver. Complete with instructions for installation. Size: 4x4x2 $\frac{1}{2}$ ". Sh. wt. 3 lbs.
81A064, Net 14.95

F Electronic Mon-Key. Features: automatic dots and dashes; dashes equal to 3 dots in duration; speed approximately 8 to 45 words per minute; no weights to adjust; monitor with volume control. Size: 6x11x6 $\frac{1}{2}$ ". 115V. AC-DC. Sh. wt. 8 lbs.
138AF002, Net 32.50

G Jones RF Power and VSWR Instruments. Compact, dual type, sensitive instruments for measuring RF power and standing-wave ratio in the frequency range from 0.5 to 225 mc. at power levels up to 1000 watts.

H Coupler Model 261. A double coupler only, equipped with UHF type RF connectors. Complete, easy-to-follow instructions are supplied with the coupler, showing a simple type of indicator that can be mounted on the transmitter front panel, or in a small, separate case. Sh. wt. 1 $\frac{1}{2}$ lbs.
86A016, Net 22.50

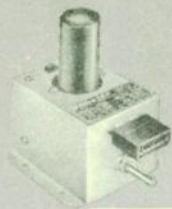
I Indicator Model 262. Indicator only, designed for use with the 261 coupler. Produces readings of relative power. Sensitivity can be adjusted continuously from approximately 10 watts full scale to approximately 1000 watts full scale by rotating the panel-mounted potentiometer. Toggle switch on top of unit selects readings of either incident or reflected RF power. Sh. wt. 1 $\frac{1}{2}$ lbs.
86A017, Net 14.50

J Triplett Frequency Meter Model 3256. A band-switching, tuned Absorption type frequency meter covering the 3.5-4, 7-7.3, 14-14.4, 20-21.5 and 28-30 Mc. amateur bands. Incorporates a germanium crystal and a DC Milliammeter indicator for greater sensitivity. Direct calibration on panel—no coils to change; switching permits instantaneous band change. Audio jack provided for monitoring of phone signals. Fully shielded. Pocket size. 7 $\frac{1}{2}$ x2 $\frac{1}{2}$ x2 $\frac{1}{4}$ ". Gray finish with black trim. Sh. wt. 1 lb.
81A068, Net 17.15

K Morrow Field Strength Meter Model FS-1. For fixed station or mobile use, and may be used on any band. When used with the MLV-50 shown on page 16 it gives maximum indication of radiated antenna power from mobile Xmtr. on any frequency from 160 to 2 M. Used for adjusting Xmtr. to maximum power in home station. Size: 3-1/8x2 $\frac{1}{4}$ x4 $\frac{1}{4}$ ". Sh. wt. 3 lbs.
86A033, Net 13.95

Balun Coil Mounting Plate. Not illustrated. Simplifies mounting of Balun Coils. All mounting and connector holes drilled and punched. Sh. wt. 1 lb.
86A010, Net 1.50

AMATEUR ANTENNAS - PAGES 139 THRU 141



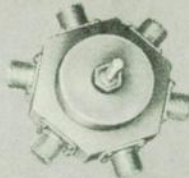
A \$11.95



B \$13.75



C \$15.00



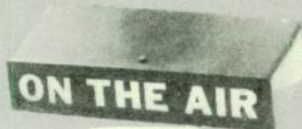
D \$15.45



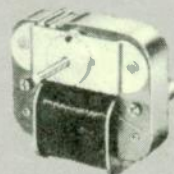
F 75¢



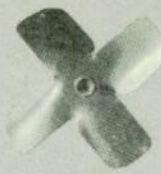
E \$10.50



H \$1.50



G \$2.25-.26



Popular Amateur Equipment

A Bliley Crystal Controlled Oscillator Model CC0-2L.

A completely packaged oscillator unit designed and engineered to utilize the many advantages of crystal control on 2 and 6 meters; operation on 2 meters requires only a tripler stage. For use with 7 to 9 mc crystals. Ideal oscillator for an efficient 2 band transmitter, or as a basic unit in new construction. Adequate drive for V.H.F. medium power beam tubes, no self-oscillation under any operating conditions. Semi-enclosed in a metal case with power input and rf output terminals in the back for short direct external connections. The oscillator tube specified is a 12BH7. Less tube, crystal and power supply. Sh. wt. 1 lb.
80B027, Net 11.95

B Amateur 24 Hour Clock. Every feature the Ham requires: Electric, self-starting, world-wide time—

shows time directly in every Time Zone. Easily adjusted to any Zone. Big 10-inch dial, lithographed in color (key cities clearly shown). Sweep second hand; chrome plated bezel, AC operated—110 volt, 60 cy. Wall or panel mounting. Sh. wt. 3 lbs.
138AF001, Net (Tax Included) 13.75

C 24 Hour Clock Model 100-24H. 24 hour numeral

clock. Separate hour, minute and second scales. Excellent for the Ham Shack. Attractive Ebony colored plastic case. Size: 4x7x4". Shpg. wt. is approximately 3 lbs.
138AF015, Net 15.00

D B & W Coaxial Switch Model 551. A two-pole, two-

position unit for switching various devices using 52 or 75 ohm coaxial lines in or out of series connection. May also be utilized to switch low impedance coupled power amplifiers in or out of the circuit at will, permitting driver stage to be connected to low impedance antenna circuit or similar load as desired. Sh. wt. 1½ lbs. See pgs. 8 & 9 for additional B & W equipment.
86A014, Net 15.45

E Permoflux Telephone Pickup. Businessmen, sales-

men, anyone whose time is precious can use the Permoflux to save valuable minutes in important long distance conversations. Attaches to any telephone earpiece to pickup both sides of a conversation. Output of pickup may be fed to high impedance input of any type of recorder. No electrical connection to telephone is necessary, just slip onto earpiece of telephone headset. Sh. wt. 1/2 lb.
71A005, Net 10.50

F Gibson Radio Rule. For use by Amateurs, Students,

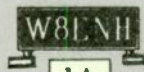
etc. for making accurate circuit drawings. Includes all radio symbols. Sh. wt. 3 oz.
6B294, Net75

G Tube Cooling Motor And Fan. Reduce tube failures

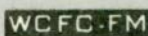
with this compact tube cooling motor. Helps dissipate heat generated by amateur radio transmitter tubes. They provide a simple and inexpensive way to prolong tube life. The motors have no brushes to cause radio interference. The unit is easily mounted below tube socket or alongside of the tube to keep seals cool. Size: 2½x2-3/8x2¼". Mtg. ctrs.: 2-1/16". For 110 volts, 50-60 cycle operation. Sh. wt. is 1/2 lb.
50A093, (Motor only) Net 2.25
50A092, (Fan only) Net26

H On-The-Air Box. Add that professional touch to

your shack. May be illuminated from 6.3 volt filament transformer or coupled to buffer stages. Less bulb. Size: 1x2½x5". Sh. wt. 12 oz.
10A188, Net 1.50



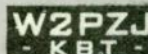
1-A



B62



B61



B63



B64

Call Letter Plates Style 1. Size: 2-3/8x8¼" and will accommodate five 1½" letters. Price includes five letters. Av. sh. wt. 10 oz.

1-A. Auto mounting (two lugs at bottom.) Net... 3.00

1-P. Panel mounting (two studs in back of plate.) 3.00

1-H. Doormounting (holes drilled in ends.) Net... 3.00

1-D. Desk use (has an easel back.) Net... 3.50

1-C. Suspension (with chain hangers.) Net... 3.50

Lapel Button Model B-61. Standard lapel button of four or five letters, as illustrated. Price includes up to 5 letters. Sh. wt. 3 oz.

B-61, Net 1.35

Lapel Button Model B-62. Particularly applicable for showing affiliation or other designations along the

call letters, for "XYL", "FM" and special applications. Price includes eight letters. Sh. wt. is 3 oz.

B-62, Net 1.50

Lapel Button Model B-63. Widely used for Home, Club, or Network Affiliation of smaller size in separate line,

top or bottom (state preference.) Price includes up to 9 letters. Sh. wt. 3 oz.

B-63, Net 2.00

Lapel Button Model B-64. Microphone shaped call

letter button. Popular with commercial broadcasters. Suitable for three or four letters only. Sh. wt. 3 oz.

B-64, Net 2.00

ITS EASY TO BUY FROM WRL



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E



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Popular Code Practice Equipment

A Standard Instructograph Code Teacher. Affords the quickest, easiest and most practical method of teaching the code that has yet been devised. The instructograph is a scientifically constructed machine that sends telegraphic characters perfectly at any desired speed. By so doing it literally takes the place of an operator-instructor, and enables anyone to learn either the Morse or Continental codes without any further assistance.

The "Standard" Instructograph. The "Standard" as illustrated is strongly constructed, enclosed in an attractive case and is built for years of usefulness. Ten code tapes and the instruction book come with this machine. Electric motor less osc. Wt. 12 lbs. 50A066, Net 38.25

Spring-Wound Junior. The "Junior" operates just as efficiently as the larger machine and also comes in an attractive case. The difference being mainly in size and construction. Five tapes and the book of instructions are supplied with this machine. Less oscillator. Spring wound. Sh. wt. 10 lbs. 50A065, Net 22.25

Additional Tapes. These additional tapes cover practically every phase of Continental code training—elementary, words, plain language, mixed code, and messages. Sh. wt. approx. 6 oz.

Cat. No.	Tape	Cat. No.	Tape	Net
50A067	1	50A072	6	1.00
50A068	2	50A073	7	1.00
50A069	3	50A074	8	1.00
50A070	4	50A075	9	1.00
50A071	5	50A076	10	1.00

B ICA Deluxe Signa-Tone Model 4300. A perfect Audio Oscillator, having 3 different output frequencies and a continuously variable volume control. Suitable for instruction in code, and will take a number of phones and keys. An invaluable aid in improving any hams "fist". Will follow the "bug" at all speeds. The steady note of the Signatone is ideal for adjusting both the Modulator and modulated stages of your transmitter for a maximum modulation percentage of not over 100. Complete with tube and self-contained speaker for 110 V. AC-DC. Sh. wt. 4 lbs. 10A143, Net 15.44

B ICA Signa-Tone Model 4301. Frequency output and controls are the same as Deluxe Model. Ideal for classroom. No speaker. Sh. wt. 2½ lbs. 10A142, Net 13.23

C Ameco Courses. Ameco courses are designed to prepare you for Amateur Code and Theory exams.

Theory Course. Designed to give sufficient information & practice to pass FCC exams. Written in simple easy-to-understand manner. Questions are presented the same as in the FCC exam. Illustrated. Wt. 1 lb. 15A003, Net 3.95

Jr. Code Course. Contains 5 records. Designed to take you from start to 7½ words per minute. Sh. wt. 5 lbs. 15A001, Net 7.95

Sr. Code Course. 11 records in leatherette album. Takes you from start to 18 words per minute. Wt. 8 lbs. 15A002, Net 12.95

Advanced Code Course. Contains 6 records. 8 to 18 words per minute. Sh. wt. approx. 6 lbs. 15A004, Net 6.95

D Philmore "Selective" Radio Receiver Kit. Features variable capacity tuning and a high Q coil, tapped at a critical point, for connection to a germanium crystal, which is permanently fixed. With instructions and 3/8" thick plywood baseboard. Sh. wt. 1 lb. 75A001, Net 2.94

E Philmore Supertone Radio Receiving Set Model 7001. Brings in broadcasting loud and clear without distortion or noises. Equipped with a Philmore Super-sensitive crystal which will give excellent results. Sh. wt. 1 lb. 50A057, Net 1.47

"Little Wonder". Similar to 7001 but with smaller coil and open type crystal. Sh. wt. 6 oz. 50A058, Net 1.13

F Philmore Code Practice Telegraph Set Model TC50. Employs high grade key. Buzzer easily adjusted to supply various tones. Plywood base. 2 flashlight cells supply 3 volts. Can be used singly, or, two complete units for 2-way telegraphic communication. Less batteries. Sh. wt. 1½ lbs. 75A034, Net 3.09

Battery for TC50. Eveready 950. (Uses 2). 8 oz. 70A026, Net Each 1.11

Crystal Accessories



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G Fixed Crystal Detector Model 7002. Gives renewed action to reflex or crystal sets. Sensitivity of mineral is determined by laboratory methods and fixed permanently. Made to withstand high voltage. Enclosed in a bakelite case. Sh. wt. 3 oz. 50A060, Net71

H Cat Whisker. Spring-metal construction. Tension is proper for all detectors. Sh. wt. 2 oz. 50A062, (Pkg. of 2) Net 12

J Open Type Crystal Detector Model 7003. Universal joint on swivel arm provides quick, accurate adjustment on any point of crystal. Metal finish. Completely assembled, ready for mounting. Sh. wt. 3 oz. 50A059, Net 2.27

K Mounted Crystal. Used for replacement. Mounted in lead. This galena crystal is highly sensitive. Wt. 3 oz. 50A061, Each 1.15
10 For 1.39

ITS EASY TO BUY FROM WRL



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Johnson Keys

A Johnson Semi-Automatic Key Model 114-520. Combines best features of former amateur and professional models. Heavy cast metal base, $6\frac{1}{4} \times 3\frac{1}{2} \times \frac{1}{2}$ ", finished in black wrinkle enamel. Vibrator same as on deluxe key—easy action and speed adjustment from lowest to highest speeds. Hardware and vibrator heavily chrome plated. $1/8$ " coin silver contacts. Lock nuts. Rubber mtg. ft. Circuit closing switch. 3 lbs. 50C022, Net 12.99

B Johnson Learner Set Model 114-111. Telegraph practice set for two way operation. 20 ohms resistance. Bar frame steel, black enameled bridge. Brass instrument lacquer finish. Brass sounding bar—black lacquered steel sounder plate. Adjustable, nickel plated key arm. Mahogany finished wood base, brass binding posts, rubber feet. Approx. sh. wt. 2 lbs. 50B038, Net 10.98

C Johnson Heavy Duty Key Model 114-320. Heavy die cast base, chrome plated key arm, heavy brass connector strips under base. Well insulated for heavy duty service. Large $1/4$ " coin silver contacts. Improved Navy type knob. Adjustable steel bearings and well designed spring give a light keying touch. Sh. wt. 2 lbs. 50A027, Net 4.60

D Johnson Standard Keys Model 114-310. Heavy die cast base. Smooth adjustable bearings. Provision for plugging in semi-automatic keys. Contacts are $1/8$ " coin silver. Black wrinkle. Less switch. Sh. wt. 2 lbs. 50A026, Net 2.94
50A024, (114-310S, with switch) Net 3.38

E Johnson Practice Set Model 114-450. Constant frequency buzzer and key on a 4×6 " molded brown bakelite base. May be used singly or in pairs for code practice. Approx. sh. wt. 2 lbs. 50A035, Net 4.80

F Johnson Practice Keys Model 114-300. Inexpensive practice keys for beginners. All metal parts except base nickel plated. Adjustable key arm spring, smooth action bearings, $1/8$ " coin silver contacts. Molded brown phenolic base. Approx. sh. wt. 1 lb. 50A025, Net 1.96

G Johnson Buzzer Model 114-400. Molded black bakelite base and cap. Fully adjustable, holds constant frequency. Coin silver contacts. Uses 2 dry cells or "C" battery. Approx. sh. wt. 1 lb. 50A030, Net 1.81



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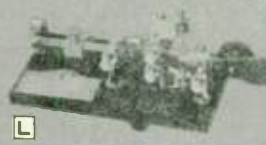
J



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Vibroplex Keys

H Vibroplex "Presentation". 24K gold-plated base top. Jeweled movement. New adjustable main spring offers wider range of speed. Chrome machine parts. Red knob and paddle. Sh. wt. 5 lbs. 50A042, Net 29.95

J Vibroplex "Original". Suitable for all classes of transmitter work where speed and perfect Morse are essential. Complete with cord and wedge. Standard model has chrome top parts, black base. Deluxe model has chrome base and top parts with jeweled movement. Sh. wt. 5 lbs. 50A043, (Standard) Net 19.95
50A044, (Deluxe) Net 23.95

J Vibroplex "Blue Racer". Very similar to the Original except it is half-size. Suitable for all classes of telegraph work and is in high favor with wireless men. Complete with cord and wedge. Standard model has chrome parts, black base. Deluxe model has chrome base and top parts, with jeweled movement. Wt. 4 lbs. 50A049, (Standard) Net 19.95
50A050, (Deluxe) Net 23.95

Cord and Wedge. Replacement cord & wedge. 8 oz. 50A055, Net 1.75

K Vibroplex "Zephyr". Similar to the "Lightning Bug" but smaller and more compact. Planned for low price and efficiency. Complete with cord and wedge. Chrome top parts and black crystal base. 4 lbs. 50A047, Net 16.95

L Vibroplex "Champlon". Low priced bug for radio use only. Ruggedly built yet sensitive to operator. Chrome top parts with black crystal base. Less circuit closer, cord and wedge. Sh. wt. 5 lbs. 50A048, Net 15.95

M Vibroplex "Lightning Bug". Single lever, with improved flat pendulum, instantly adjustable dot contact spring. Complete with cord and wedge. Standard model has chrome top parts, black base. Deluxe model has chrome base and top parts with jeweled movement. Sh. wt. 3 lbs. 50A045, (Standard) Net 18.95
50A046, (Deluxe) Net 22.95

Carrying Case. Cloth lined. Keeps machine free from dirt, dust and moisture. Has lock and key. Wt. 1 lb. 50A054, Net 6.75

HAM HEADQUARTERS FOR EQUIPMENT AND INFORMATION

21

Model MR-32. For 30-50 mc.
134AF006, Net 74.50
Terms: 7.45 Down—6.60 Per Month

for Models PR-31, DR-200, and MCA-
100-L. Sh. wt. 2 lbs.
134AF016, Net 6.50

ITS EASY TO BUY FROM WRL

World Radio History

H \$84.50

23

TRAV-LER HIGH QUALITY RADIOS



A \$21.95



B \$17.95



C \$12.95

D Table Radio Model 55-39. Smooth-as-satin plastic, pleasing rounded corners, modern-design front. Powerful 6-tube performance (2 dual-purpose tubes). Built-in ferrite antenna. Large, easy-tuning dial. Big speaker with full-range tone. Mahogany finish. 110 V. AC-DC. Sh. wt. 8 lbs.
102AF012, (List 24.95) Net 17.95

E "3-Way Portable" Model 5305. Plays anywhere! Plugs into AC or DC—runs on long-life batteries outdoors. Quality 6-tube performance, with 2 dual-purpose tubes....new sensitivity and selectivity. "Ferrite" Rod Antenna. Full-toned super dynamic speaker. Thumb Wheel tuning and volume dials. Jewel-like plastic case. Size: 9-5/8x7-1/4x3-1/4". Available in green. 110 volts, AC-DC batteries. Sh. wt. approx. 4 1/2 lbs.
102AF006, (List 29.95) Net 21.47
Battery Kit for above. Requires two type 964 (70A050) and two type 455 (70A004). Sh. wt. 2 1/2 lbs.
Net 3.62

F "Personal Portable" Model 5300. No bigger than a book—yet engineered for full 6-tube performance. (2 dual purpose tubes.) Full-toned super dynamic speaker. Ferrite Iron Core Antenna. Thumb Wheel dial for fast, easy tuning. Light-weight plastic case has rich gold finish trim, collapsible handle. Size: 9x6x2-1/4". Sh. wt. 3-lbs. List Price \$19.95.
102AF001, (Red) Net 14.46
102AF002, (Brown) Net 14.46
102AF003, (Grey) Net 14.46
Battery Kit for above. Requires two type 964 (70A050) and one type 477 (70A049). Sh. wt. 2 lbs.
Net 2.34

A Clock Radio Model 55C42. Attractively priced, yet you get full 6-tube performance (2 tubes are dual purpose). Also—sensitive built-in loop antenna, powerful full-tone speaker. Telechron deluxe clock-timer has luminous hands, 60-minute sleep switch. Special outlet turns appliances and radio on or off automatically. King-sized tuning dial. Finished in Mahogany. 110 V. AC only. Sh. wt. 10 lbs.
102AF008, (List 29.95) Net 21.95

B Table Radio Model 55-38. Color—harmonized to fit any room, with handsome gold dial pointer and knobs. Large circular dial is easy-to-read, easy to tune. Fine 6-tube performance (2 dual-purpose tubes). Large speaker delivers full-range tone quality. Sensitive ferrite antenna assures good reception. Available in Mahogany or Ivory. 110 V. AC-DC. Sh. wt. 8 lbs.
102AF007, Mahogany (List 24.95) Net 17.95
102AF011, Ivory (List 29.95) Net 20.95

C Table Radio Model 45-36. Fits in anywhere. Only 7" wide, 5" high. 5-tube performance, (2 dual-purpose tubes). 4" speaker plays crystal clear over wide bass-treble range. Automatic volume control prevents annoying fading or blasting. Built-in ferrite antenna. Attractive, sturdy plastic cabinet. Available in Walnut or Ivory. 110 V. AC-DC. Sh. wt. 5 lbs.
102AF009, Walnut (List 17.95) Net 12.95
102AF010, Ivory (List 19.95) Net 14.46



D \$17.95



E \$21.47



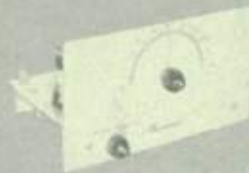
F \$14.46



A \$11.70



B \$7.35



C \$12.01



D \$7.06

Easy-To-Build Kits for the Professional and the Beginner

A **Miller Crystal Band-Pass Tuner Kit Model 585.** This high fidelity broadcast tuner uses germanium diode detector. Designed for use with amplifier and speaker systems. Audio output is proportional to signal strength; and with a good antenna, AM stations in 20-25 mile range give audio output from 0.05 to 0.5 V. Simple, easy to assemble and wire. This No. 585 kit includes: negative mutual coupling coil, shielded TRF coils, midget 2-gang tuning condenser, slide rule dial, chassis 5x7x1½". Sh. wt. 3 lbs.

76A018, Net 11.47

Additional Required Parts

One each: .05 mfd, 400V. and .015 mfd, 400V. tubular condensers. IN34 germanium diode, 100,000 ohm ½ watt resistor, .00025 mfd. mica condenser, 500,000 ohm volume control. Sh. wt. 1 lb.

76A019, Net 2.50

B **Philmore Two Tube AC-DC Radio Kit Model 7001C.** A completely professional-type radio kit that is perfect for the beginner in radio. An excellent opportunity to learn the fundamentals of radio and at the same time build a high quality unit. When assembled you have a 2-band set covering standard broadcast—550-1700kc. and short wave—6-18mc. Uses a 4" PM speaker. Simple instructions included. Complete with speaker, less tubes. Tubes required: 1-12SJ7, 1-50L6GT, and 1-35Z5GT. Less wire & solder. 4 lbs.

76A033, Net 12.00

One Tube (Plus Rectifier) AC-DC Radio Kit Model 7001B. Very similar to above but does not include audio stage or speaker. Uses 12SJ7 and 35T5 tubes. Less tubes and headset. Sh. wt. 2 lbs.

76A032, Net 7.35

C **Melissner Three Tube AC-DC Kit Model T3BK.** Regenerative grid leak detector with resistance coupled pentode audio stage and AC-DC type power supply. Tubes: 6BJ6 and 2-50B6. With coil to cover 520 to 1530 Kc. Other coils listed below. Power supply: 105 to 125V. AC-DC. Uses phones having impedance of 2000 ohms or more. Size: 7¼x4¼x4¼". With instructions. Less phones. Sh. wt. 2½ lbs.

76A034, Net 12.35

Plug-In Coils. For above kits. Sh. wt. each is 3 oz.

Cat. No.	Type	Covers	Net
51A097	18-3500	170-540 Kc.	1.76
51A098	18-3501	540-1500 Kc.	1.76
51A099	18-3502	1.4-4.5 Mc.	.88
51A100	18-3503	3.2-8.2 Mc.	.88
51A101	18-3504	8-18 Mc.	.88
51A102	18-3505	15-34 Mc.	.88

D **Philmore "Little Miracle" One-Tube Portable Battery Radio Kit Model 7501.** Easy to build—works like a Big Set! Features smooth tuning from 550 to 1650 kc. Has regular variable condenser and Litz-wound coil. Highly sensitive regenerative detector circuit insures maximum sensitivity, volume and selectivity. Light, compact, wonderful for portable use outdoors. The carton is the cabinet. Uses standard A & B batteries. With earphones, 3V4 tube, and antenna wire. Less batteries, solder, and hookup wire. Shpg. wt. 1½ lbs.

75A035, Net 7.06

Batteries for 7501. Eveready 950 & 412. 1 each. Sh. wt. 8 oz. **Net**99

Arkay Multi Purpose Experimenters Kits

E **Arkay 10-in-1 Experimenters Multi Purpose Kit.** Designed for beginners or advanced radio students. This kit enables the constructor to build 10 different circuits that actually work. "Learn by doing" is the theme here. You learn all important fundamentals and functioning of all different types of circuits. The units you can build are as follows: A Broadcast Receiver—A Phonograph or Microphone Amplifier—A Phono Oscillator—A Home Broadcast Station—A Code Practice Oscillator—A Capacity Operated Relay—A Signal Tracer—An Electronic Timer—An Electronic Switch—A Photo Cell Relay. Kit comes complete with all tubes and parts necessary to complete the above projects but less headphones, photo cell, photo cell socket, wire and solder. (See accessories below.) Operates on 110V. AC only. Breadboard type chassis. Tubes: 12SF5, 35L6, 35Z5. Sh. wt. 6 lbs.

75A050, Net 13.95

F **Arkay 6-in-1 Radio Kit.** A smaller version of the popular 10-in-1 kit. Specially designed for quick, easy change from one circuit to the next. You can build the following projects with this kit: Standard Broadcast Receiver—Wireless Home Broadcaster—Code Practice Oscillator—Code practice oscillator for headset use—Signal Tracer—Single Sine Wave Generator. Kit consists of 6SN7 tube, selenium rectifier, power transformer, all parts, mounting board and instructions. Less headphone, wire and solder. (See accessories below.) For 110-120 V. AC 50-60 cycles. Sh. wt. 6 lbs.

75A051, Net 8.25

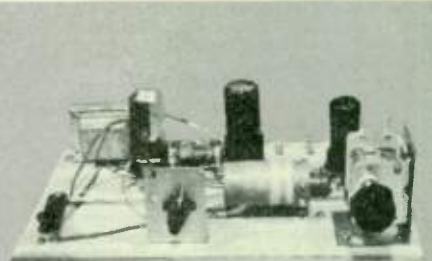
Accessories

50A004, Single 1000 ohm Headphone. 9 oz. 1.42

57A096, Phototube for 10-1 Kit. 6 oz. 2.00

1A181, 4-Prong Tube Socket for 10-1 Kit. 3 oz.07

50A095, Antenna Kit for receiver circuits. 1½ lbs.90



E \$13.95



F \$8.25

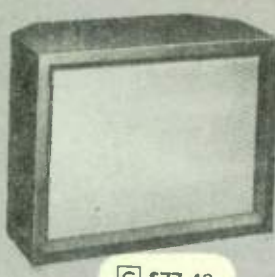
PURCHASE ANY EQUIPMENT ON MONTHLY PAYMENT PLAN—SEE PAGE 153



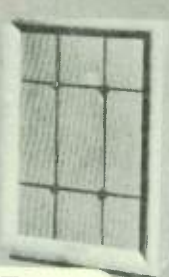
A \$485.10



B \$117.60



C \$77.42



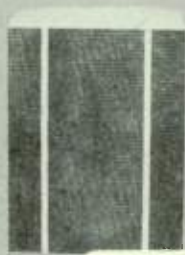
D \$64.68



E \$291.06



F \$19.95



G \$36.00



H

J

Electro-Voice-G & H High Fidelity Enclosures

Write for complete information on these enclosures and new Electro-Voice enclosure kits.

A **Electro-Voice Georgian Enclosure and System.** Complete 4-way system in handsomely styled cabinet of medium proportions. Uses Klipsch "K" indirect radiator folded corner horn with 15 WK LF driver from 30-300 cps, X336 crossover feeds 848 HF coaxial mid-bass and treble assembly with acoustic crossover at 1000 cps. 3500 cps section of X336 feeds T35 VHF driver to beyond audible range. Two AT37 level controls. Power handling: 35 watts program material, 70 watts peak. Size: 53x34x26". Sh. wt. 290 lbs.
133BF003, (Mahogany) Net 485.10
133BF004, (Blond) Net 504.70

B **Electro-Voice Regency Enclosure.** For EV or other 15" speaker, or EV 2 or 3-way systems, without modifications. Has integral "built-in corner". Can be used in corner or against flat wall. Response flat ± 5 db down to 30 cps. Selected mahogany veneers. Grill in brushed brass finish. Size: 28-5/8x33 3/4x19". Enclosure only. Sh. wt. 88 lbs.
133AF005, (Mahogany) Net 117.60
133AF006, (Blond) Net 126.42
Regency II. Includes '114A' 2-way system. 135 lbs.
133AF007, (Mahogany) Net 304.00
133AF008, (Blond) Net 312.82
Regency III. Includes '114B' 3-way system. 140 lbs.
133AF009, (Mahogany) Net 348.10
133AF010, (Blond) Net 356.92

C **Electro-Voice Empire Enclosure.** For 15" driver components. Takes all drivers and systems used in famous Regency. Operates against flat wall or in a corner for augmented bass response down to 4 cps. Size: 25-5/8x33 3/4x17". Sh. wt. 70 lbs.
133AF011, (Mahogany) Net 77.42
133AF012, (Blond) Net 83.30

D **Electro-Voice Aristocrat Enclosure.** For EV or any full range 12" speaker or EV separate 2 or 3-way systems, without modifications. Unusually smooth reproduction down to 35 cps. Size: 29-5/8x19x16-5/16". Enclosure only. Sh. wt. 38 lbs.
133AF002, (Mahogany) Net 64.68
133AF001, (Blond) Net 70.56
Aristocrat I. Includes '108' 2-way system. 56 lbs.
133AF013, (Mahogany) Net 175.81
133AF014, (Blond) Net 181.69
Aristocrat II. Includes '111' 2-way system. 70 lbs.
133AF015, (Mahogany) Net 230.50
133AF016, (Blond) Net 236.38
Aristocrat III. Includes '111A' 3-way system. 74 lbs.
133AF017, (Mahogany) Net 274.60
133AF018, (Blond) Net 280.48

E **Electro-Voice Centurion Enclosure and System.** Complete 4-way system incorporating all design features of the magnificent Georgian, but on a smaller scale. Uses exclusive EV "W" single path indirect radiator folded horn with 15 BWK LF driver from 30-300 cps. X336 crossover feeds 847 HF coaxial mid-bass and treble assembly with acoustical crossover at 1500 cps. 3500 cps section of X336 feeds T35B VHF driver to beyond audibility. 2 AT37 level controls. Sensitivity rating 48. Power handling: 15 watts program material, 30 watts peak. Size: 40x30x22 1/2". Sh. wt. 94 lbs.
133AF019, (Mahogany) Net 291.06
133AF020, (Blond) Net 298.88

F thru **K** G & H CABINET KITS

You get everything you need in one compact package plus detailed instructions for assembling & finishing.

F **Model 61.** Corner folded horn enclosure. Designed for 12" speaker. Dimensions for assembled unit: 32" H., 32" W., 22 1/2" D. on each side. 5/8" thick select white pine wood. Sh. wt. 26 lbs.
133AF025, Net 19.95

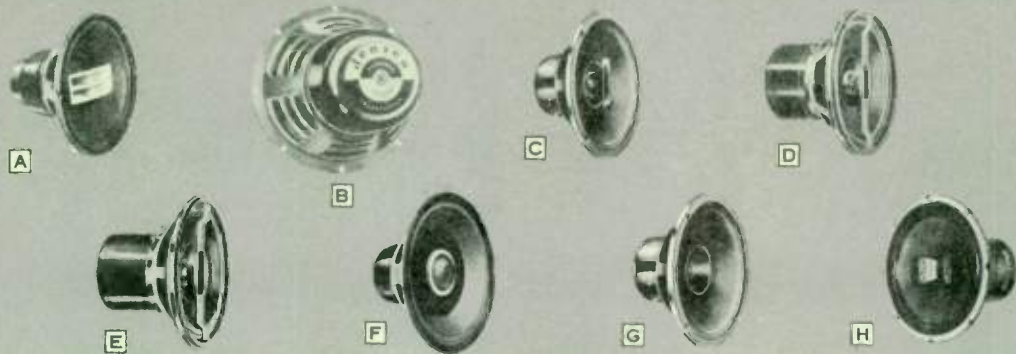
F **Model 63.** Same as above except for 15" speaker. Dimensions of assembled unit: 32" H., 36" W., 24 1/2" D. on each side. Sh. wt. 28 lbs.
133AF026, Net 23.95

G **Model K.** A true corner horn enclosure for both 12" and 15" speakers. High-grade birch is supplied in the style and color you want for a truly distinctive addition to your furnishings. Sh. wt. 35 lbs.
133AF027, (K-12-for 12" spkr.) Net 36.00
133AF028, (K-15-for 15" spkr.) Net 42.00

H **J** **G & H Bass Reflex and Equipment Cabinets.** Overall size: 33 1/2" H., 23" W., 16" D. Tuner compartment: 20" H., 21 1/2" W., 15 1/4" D. 5/8" thick select white pine wood. Baffle volume: 6 cubic ft. Sh. wt. 40 lbs.

Cat. No.	Model	Fig.	Description	Net
133AF029	80	H	Equip. Cab.	27.00
133AF030	8112	J	12" Spkr. Cab.	18.00
133AF031	8115	J	15" Spkr. Cab.	18.00

G **G & H Rebel Speaker Enclosure Model KR-5.** 20" high corner horn speaker enclosure. Performance to please the most critical ear. 12" cutout with an 8" plate allows for variety of speaker combinations. French mahogany finish. Sh. wt. 30 lbs.
133AF032, Net 48.00



Electro-Voice - Jensen - University High Fidelity Speakers

A Jensen 12" Coaxial Model H-222.

With horn-loaded compression driver "tweeter". Offers big performance in a 12" unit. 25 watt power rating. 16 ohms impedance. Baffle opening, 10 1/4"; OD, 12-1/8"; depth, 8 1/4". Sh. wt. 12 lbs.

56A010, Net. 53.41

B Jensen 12" Extended Range Speaker Model P12SX.

Ideal as a replacement unit in radio, TV and record playing equipment. It delivers response to 10,000 cps. 9 watts power rating. 6.8 ohms V.C. Baffle opening; 10 1/4"; OD, 12-1/8"; depth, 6-1/16". Sh. wt. 6 lbs.

55A032, Net. 11.12

C Electro-Voice Model 12TRXB.

Integrated 3-way assembly completely wired with AT37. Overall dia. 12 1/4". Resonance, 50 cps. 20 watts. Magnet wt., 1 lb., 2 oz. Response, 35-15,000 cps in Aristocrat. Mech. crossover, 2000 cps; built-in electrical crossover, 3500 cps. Depth behind panel, 6-1/16". Imp. 16 ohms. X36 is not required. Sh. wt. 13 1/4 lbs.

56B014, Net. 58.51

D Electro-Voice Model 15TRX.

15-1/8" dia. overall. Resonance 40 cps. 30 watts. Magnet wt., 5 1/2 lbs. Response, ±5 db, 30-15,000 cps in Regency enclosure. Depth behind panel, 9-1/8". Mechanical crossover 2000 cps, electrical crossover, 3500 cps. Impedance 16 ohms. With X36 and AT37. Sh. wt. 48 lbs.

56B012, Net. 132.30

E Electro-Voice Model 12TRX.

Same as 15TRX except for overall dia. of 12-1/8". Resonance, 40 cps. 25 watts. Magnet wt., 3 1/2 lbs. Response, ±5 db, 30-15,000 cps in Aristocrat enclosure. Mechanical crossover, 2500 cps; electrical crossover, 3500 cps. Depth behind mounting panel, 8"; Impedance, 16 ohms. With X36 and AT37. 32 lbs.

56B013, Net. 111.72

F Jensen Coaxial Speaker Model K-310A.

2-way 15" high fidelity speaker. Integral frequency division system. Power rating 16 watts. 16 ohms impedance. Sh. wt. 18 lbs.

56B003, Net. 36.85

G Electro-Voice 12" Coaxial Model SP12B.

Employs the Radax principle. Utilizes 2 disparate coaxially mounted cones operating from a single voice coil. 15-20 watts. Response: 75-13,000 cps., plus-minus 6 db. 16 ohms impedance. Crossover 4500 cps. 12-1/8" dia; 11" baffle opening; 6-3/8" depth behind mounting panel. Sh. wt. 7 1/2 lbs.

55A030, Net. 29.11

H University Dual Range 12" Coaxial Loudspeaker Model 6201.

One of the few true coaxial systemscomplete with horn type "Tweeter" driven by a separate high efficiency, high frequency driver, plus built-in inductance/capacitance type crossover network complete with variable "balance" control, supplied with 36" of connecting cable and fully wired. A complete engineering package—just connect the two free wires to the amplifier and presto, the system is ready to give you lifelike, always pleasant reproduction of your favorite musical selections. Shpg. wt. 7 lbs.

56A011, Net. 44.10



Tuner



Amplifier



Changer



Speaker

Meissner "Golden" High Fidelity System

A quality, matched high fidelity system at an economical price. Units expressly designed to match each other to work at highest efficiency. System includes Tuner, Amplifier, Changer and Speaker. All hardware, plugs, jacks and matching connecting cables of correct impedances. Richly styled for custom appearance throughout chassis, dial faces, knobs, escutcheons are all of tasteful satin gold finish. Simple, plug-in connections make installation as easy as ABC.

Tuner. High sensitivity and selectivity on both AM and FM bands. 8 tubes are used in latest type circuits especially designed for high stability, low noise level, full audio fidelity and extremely low hum level. Frequency response of the tuner practically flat throughout the entire range of 20 to 20,000 cps. Built-in AM and FM antennas. Size: 8x11x7 1/4" H.

Amplifier. Undistorted power output of 10 Watts with a frequency response that is flat within plus-minus 1 db throughout the 20 to 20,000 cps. range. Built-in pre-amplifier-equalizer stage for variable reluctance cartridges. Separate bass and treble tone controls pro-

vide boost or attenuation to suit the taste. Hum level extremely low (-70 db down), an absolute necessity in the home installation. Husky output transformer gives perfect match to speaker and is capable of multiple speaker installations when desired. Complete with 5 tubes. Size: 11x8x5 1/4".

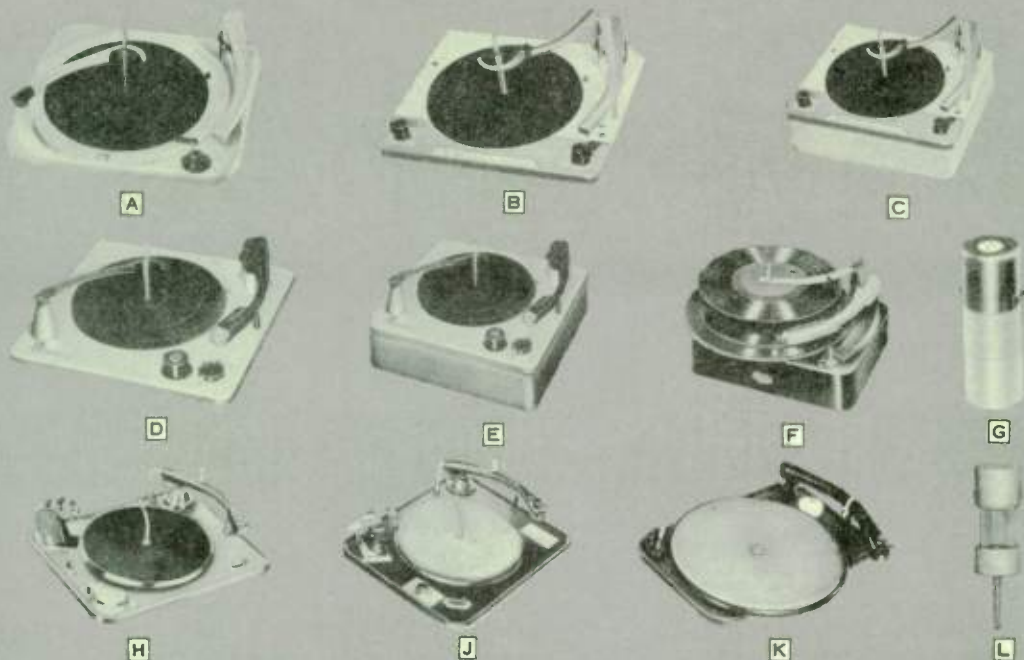
Changer. Latest push-off type, acknowledge to be most foolproof and gentle method of changing records. Jam-free operation with a minimum of lateral needle pressure. Muting switch for silent change cycle. One Knob selects 33, 45 or 78 rpm. Complete with G-E triple-play variable reluctance cartridge and cut-out wooden mounting base.

Speaker. Coaxial speaker design combines tweeter and woofer principles into one speaker. Frequency response nearly flat throughout 20 to 15,000 cps. range. Power handling capacity is 15 to 20 Watts. Overall dimensions: 12-1/8" dia. 6-3/8" deep. Requires 11" baffle opening. Matching grille cloth furnished.

Complete system packed in one container. Wt. 80 lbs.

129AF026, Net. 195.95

PURCHASE ANY EQUIPMENT ON MONTHLY PAYMENT PLAN—SEE PAGE 153



V-M & Garrard High Quality Record Changers & Accessories

A V-M Model 951A. Automatic 3-speed changer. Set-down of tone arm is automatic for all size records. Arm comes to rest position and motor shuts off after last record has been played. Size: $1\frac{1}{4} \times 12\frac{1}{4} \times 5\frac{1}{2}$ ". For 115VAC. Sh. wt. 11 lbs. List Price \$46.50.
129BF001, Net 30.22

B V-M Model 1200. New 4-speed changer. Plays 33-1/3/45 and 78 rpm. Also 16-2/3 rpm for new book records. The first low-cost high fidelity changer. Has new patented drive motor, die cast aluminum tone arm. Size: $12\frac{3}{8} \times 13\frac{3}{4} \times 8\frac{5}{16}$ ". Sh. wt. 11 lbs. List Price \$46.50.
129BF002, Net 30.22

B V-M Model 1200GE. Same as Model 1200 with G-E cartridge. Sh. wt. 11 lbs. List Price \$51.50.
129BF003, Net 33.47

C V-M Model 1225. Model 1200 changer mounted on matching base pan. Sh. wt. 15 lbs. List Price \$49.95.
129BF004, Net 32.66

C V-M Model 1225GE. Model 1200-GE changer mounted on matching base pan. Shpg. wt. 15 lbs. List Price \$54.95.
129BF005, Net 35.91

D V-M Model 935B. Designed to meet the exacting standards of Hi-Fi enthusiasts. Die cast tone arm is rigid and resonance free. Weighted and balanced turn-table. Four-pole motor. Automatic shut-off. Supplied with two tone arm heads (less cartridges) and 45 rpm spindle. Size: $13\frac{1}{4} \times 13\frac{1}{4} \times 8\frac{1}{2}$ ". Sh. wt. 12 lbs. List Price is \$59.95.
129BF007, Net 38.97

D V-M Model 935B-GE. Same as 935B with GE cartridge. Sh. wt. 12 lbs. List Price \$67.00.
129AF013, Net 43.90

E V-M Model 936B. Is Model 935B mounted on matching base pan with cord and plug. Sh. wt. 19 lbs. List Price \$69.95.
129BF008, Net 45.47

E V-M Model 936B-GE. Is Model 935B-GE on matching base pan. Sh. wt. 19 lbs. List Price \$77.00.
129AF014, Net 49.90

F V-M Model 920. Automatic 3-speed changer attachment. Capacity: ten 12" or twelve 10" 33-1/3 or 78 rpm; twelve 7", 33-1/3 or 45 rpm records. Sh. wt. 10 lbs. List Price \$39.95.
129AF006, Net 26.77

G V-M 45 RPM Spindle. Permits automatic play of up to 14 large center-hole records. Fits any tri-omatic spindle. Sh. wt. 8 oz. List Price \$2.95.
71A008, Net 1.92

V-M Pre-Cut Mounting Boards. Av. shpg. wt. is 3 lbs.

76C003, (Model 3950. For V-M 951) Net 1.46
76B004, (Model 6228. For V-M 935) Net 1.79
76B027, (Model 9045. For V-M 1200) Net 1.46

H Garrard Model RC-90. The Garrard "Crown" presents many outstanding innovations in addition to all the time-tested features of the famous Garrard RC-80. Features new type 4-pole motor. All three speeds variable and adjustable. Manual play position for single records. Interchangeable plug-in heads, with stylus visible, fit all cartridges—magnetic, crystal or ceramic. Size: $15\frac{1}{2} \times 11\frac{1}{2} \times 5\frac{1}{2}$ " clearance above, 4" below. 100-130 VAC, 60 cycles. Less cartridges and 45 RPM spindle. See Fig. L for spindle. Sh. wt. 10 lbs.
129AF018, Net 68.11

J Garrard Model RC-80. The RC-80 3-speed record changer plays all 33-1/3, 45, and 78 RPM—7", 10", and 12" records. Records are placed on the player, simple settings are made—action is then completely automatic, including automatic shut-off. Muting switch for silence between records and automatic silenced stop after last record. Jewel mounted tone arm; parallel lift construction. For 100-130 VAC, 60 cycles. Size: $13\frac{1}{4} \times 8 \times 15\frac{1}{2}$ " deep. Requires $2\frac{1}{4}$ " clearance below motor board, and $5\frac{1}{2}$ " above. Less cartridge and 45 rpm spindle. See spindle below. Sh. wt. 20 lbs.
129AF016, Net 48.51

J Garrard Model RC-80GE. Same as RC-80 but complete with GE RFX050 cartridge. Sh. wt. 20 lbs.
129AF024, Net 55.37

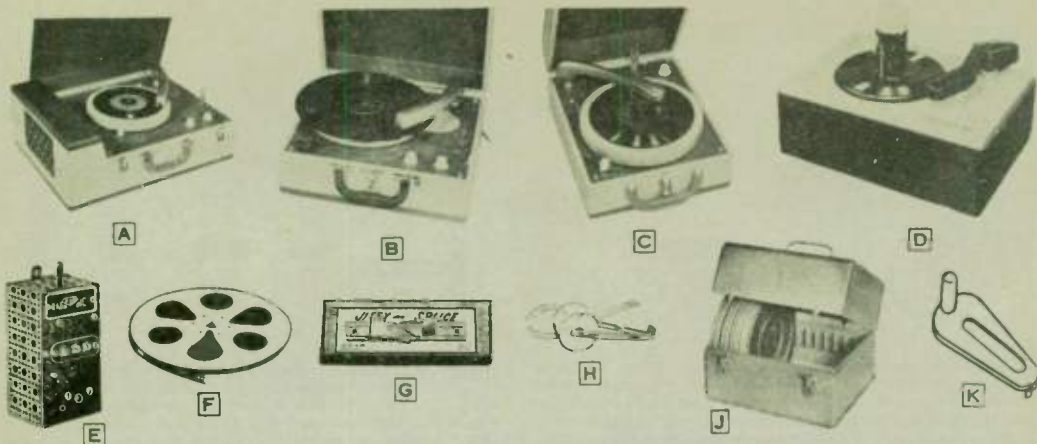
K Garrard Model "T". Guarantees the finest reproduction of recorded music where a changer is not desired. Automatic start and stop. 4-pole motor, heavy balanced turntable. Size: $13\frac{1}{4} \times 12\frac{1}{4} \times 6\frac{1}{4}$ ". Sh. wt. 9 lbs.
129AF019, Net 31.85

L Garrard 45 RPM Spindle. Used with RC-80 & RC-90 for 45 rpm records. Only a small collar revolves, assuring longer center hole and record wear. Sh. wt. is 8 oz.
71A034, Net 3.43

Garrard Accessories

76A001, (Wood base for RC80 or RC90. 6 lbs.) Net 5.83
76B002, (Wood base for Model "T". 6 lbs.) Net 5.14
129AF022, (Mtg. board for RC80 or RC90. 3 lbs.) Net 2.45
129AF023, (Mtg. board for Model "T". 3 lbs.) Net 2.45
71A006, (Bushing to adapt RC-80 to 50 cy. 5 oz.) Net75
71A007, (Rubber Belt. Wt. 5 oz.) Net25

RECORD PLAYERS — TAPE



A Clinton Deluxe 3-Speed Record Player Model 370B.

For 78, 45 and 33-1/3 rpm. High gain audio amplifier. Powerful 6" alnico 5 heavy duty speaker. 2 watts power output. High-gain, high-fidelity, single-needle Webster arm. Separate tone and volume controls. Luggage cabinet in washable 2-tone leatherette. Plays 10" and 12" records with cover closed. 17x13x6 1/2". Shpg. wt. 16 lbs.

129BF037, Net 33.95

B Clinton 3-Speed Record Player Model 350B. For

78, 45, and 33-1/3 rpm. High gain audio amplifier. 2 watts power output. 5" alnico 5 heavy duty speaker. Separate tone and volume controls. High-gain, high-fidelity dual needle Webster arm. Washable 2-tone leatherette luggage cabinet. Size: 11x12 1/2x5 1/2". Sh. wt. 12 lbs.

129BF036, Net 22.50

C Clinton 3-Speed Record Player Model 300. For 78,

45, and 33-1/3 rpm. High-gain audio amplifier circuit. Alnico 5 speaker. Cabinet in washable assorted colors. High-gain, high-fidelity single needle arm. Sh. wt. lbs.

129BF035, Net 18.95

D Crescent Changer Model 451. 45 rpm. Mounted on

attractive base. Plugs into radio amplifier. Separate on-off switch. Overall size: 7 1/2x10 1/2x7 1/2" H. Shpg. wt. 8 lbs.

129AF021, Net 16.95

E Bud Wireless Phonograph Oscillator WO-6. Designed

to enable any standard record player to be easily and simply converted to wireless operation. Then it is possible to play records through any standard receiver without wires. The circuit makes use of only one tube. Broadcasts at a frequency range of approximately 1100-2150 Kc. Comes completely wired and tested, including tube, and is finished in black wrinkle enamel. Operates from 115 volts, AC or DC. Sh. wt. 1 1/2 lbs.

22A036, Net 8.82

F Plastic Base Audiotape. Maximum fidelity, uni-

formity, frequency response and freedom from background noise. *Large hub. †Aluminum hub, others plastic. Sh. wt. 8 oz.

Cat. No.	Type	Lgth.	Reel	Oxide Coat	1 to 9	10 Up
59A101	151	150'	3"	Red	.57	.51
59A103	351	300'	4"	Red	1.07	.96
59A107	651	600'	5"	Red	2.33	2.10
59A111	*1251	1200'	7"	Red	3.67	3.30
59A115	2551 R	2500'	10 1/2"	Red	7.71	7.71
59A113	†2551 H	2500'	10 1/2"	Red	7.71	7.71

F Recording Tape Type FR. High quality, low cost

recording tape. Excellent response characteristics. Supplied on plastic reels. Oxide in. Sh. wt. is 1 lb.

Cat. No.	Type	Lgth.	Reel	Net. Ea.
59B140	FR-7	1200	7"	2.35
59B141	FR-5	600	5"	1.47

F WRL Recording Tape. An excellent quality tape

which meets professional requirements—at very low cost. Manufactured to rigid specifications for complete satisfaction at quality and reproduction. Standard 1/4" width plastic base. Coating held to close tolerance. Oxide in for most tape recorders. 7 inch plastic reels contain 1200 ft. of tape. Shpg. wt. per reel 1 lb.

59C116, Net Each 2.10

5 or More, Each 1.89

G Jiffy Tape Splicer. Holds recording tape in place

for cutting and splicing. Sh. wt. 5 oz.

71A029, Net 1.50

H Audio Head Demagnetizer. 110-115 VAC electro-

magnet assembly for removing permanent magnetism from magnetic recording heads. Sh. wt. is 1 lb.

59A124, (Type 400) Net 7.06

J Tape Chests. Excellent for storage and transport of

tapes. All steel. Each chest holds 12 tape cans. Index card for easy identification of tape. Metal separators hold cans upright. Folding carrying handle. Grey hammerloid finish. Shpg. wt. 5 lbs.

Cat. No.	Model	Reel Size	Each
59A098	1001	5"	2.69
59A099	1003	7"	3.25

J Tape Cans. Highly recommended for tape storage.

Protects tape from accidental erasure or damage in presence of stray magnetic fields, etc. Beautiful grey hammerloid finish. Also excellent for storage of motion picture film. Sh. wt. 8 oz.

Cat. No.	Model	Size	Each	Ea., lots of 6
59A096	1018C	5"	.39	.35
59A097	1020C	7"	.46	.42

K Tape Threader. Threading made easy, simple, quick.

Threads any size empty reel up to and including seven inch reel, on any make tape recorder, also may be used as manual crank to rotate tape in either direction. Shpg. wt. 3 oz.

71B001, Net65

Audio Leader Tape. 1/4" wide, durable plastic material

for identifying recorded selections. 100 ft. Sh. wt. 10 oz.

59A123, (Type 3-L) Net 39

Plastic Reels. Average shipping weight approx. 5 oz.

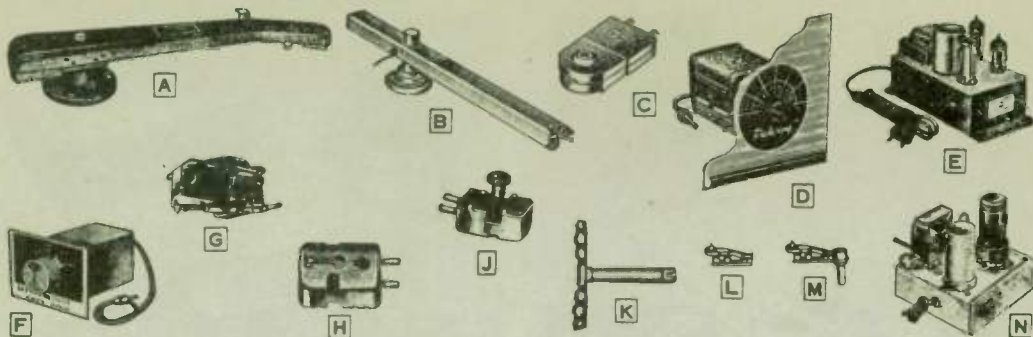
Cat. No.	Type	Descript.	Size	Ea.	10 Up
59B144	3P	Plastic Reel	3"	.10	.09
59A145	5P	Plastic Reel	5"	.27	.24
59A146	7P	Plastic Reel	7"	.40	.36

Audio Splicing Tape. Excellent quality splicing tape

for recording tape. Available in 100' length on metal dispenser or large 66 ft. roll. Av. sh. wt. 8 oz.

Cat. No.	Model	Size	Net
59A125	50ST	1/4"x100"	.27
59A126	56ST	1/4"x66 ft.	.68

HI-FI ACCESSORIES



A Gray Arm Model 108-B. For 32-1/3, 45 and 78 RPM records. New suspension development on the viscous damping principal for perfect tracking of records and elimination of tone arm resonances. Instant cartridge change with automatic correct stylus pressure. For Pickering and GE Cartridges. Shpg. wt. is 2 lbs. 71A019, Net. 56.00

B Pickering Pickup Arm Model 190D. For either microgroove or standard records. Features include: sensitive tracking force; adjustment from 1/2" to 2"; magnetic arm rest; plug-in provision for cartridge; one hole mounting with self-contained leveling screws—and statically balanced. Sh. wt. 2 lbs. 71B020, Net (Arm only). 31.50

C Pickering Cartridges. For use in Garrard and most other pickup arms. Range: 40—10000 cps. Output: 70 MV. into grid impedance. Cartridge weight: 15 grams. Normal stylus pressure: 1/4 oz. Furnished with permanent type styli. Sh. wt. 4 oz. av.

Cat. No.	Type	Description	Net
71A021	S-120M	With .0027" sapphire stylus	9.90
71A022	D-120M	With .0025" diamond stylus	24.90
71A023	S-140S	With .001" sapphire stylus	15.00
71A024	D-140S	With .001" diamond stylus	36.00

D Pickering Record Compensator Model 132E. The 132E Compensator provides the flexibility required to properly equalize for the different recording characteristics used by various record manufacturers. Has switch positions for European 78's Victor 33-1/3, 45 and 78's; Capitol, and most 78 RPM domestic records; Columbia, and most makes of 33-1/3 RPM microgroove recordings; Noisy Records, with objectionable hiss removed. Furnished with knob and dial. Case size: 1-7/8x2x2-1/2". Sh. wt. 12 oz. 71A025, Net. 12.00

E Pickering Preamplifier Model 230H. Designed to operate with any high-quality amplifier having a high impedance input. Average output: 2 volts at high impedance. Frequency response: 40—20000 cps. with-in 2 db. Self-powered, operates from 115 VAC, and installed by simply plugging in. Tubes: 6C4, 6X4, 6AU4. Size: 7x3x3/4x5/8". Less tubes. Sh. wt. 3 lbs. 71A026, Net. 24.00

F G-E Record Compensator Model A1-900. This new adjustable high impedance passive network is for use with standard G-E Cartridges. The A1-900 connects between Pickup Cartridge and Pre-amplifier input. Mounts on panel 3/4" thick in any position. Requires 4" behind panel. Five positions: LP, AES, FLAT, GOOD, EARLY 78. Size: 2 1/2" long, 2" high, 2" wide. Sh. wt. 1 1/4 lbs. 54A096, Net. 8.77

G Sonotone Cartridge Model 9980-S. Cartridge remains stationary, only stylus assembly rotates. 2 sapphire styli. .001" for microgroove records and .003" for standard records. 1.0 V. output. 1/2" mtg. ctrs. Sh. wt. 2 oz. 54B019, Net. 5.59

G Sonotone Cartridge Model 7590-2M. Single needle cartridge for all speeds. Has 2 mil truncated cone, osmium needle. Sh. wt. 2 oz. 54A020, Net. 4.41

H J G-E Variable Reluctance Cartridges. Now designed to include new Clip-In Tip replacement styli. Both single and triple-play cartridges faithfully translate the full range of high and low frequencies with minimum distortion. Noise and needle scratch are virtually eliminated. Frequency response 30 to 15,000 cps. *Indicates "Golden Treasure" types. Triple play "Golden Treasure" cartridges have .001 diamond and .003 sapphire stylus. Single play "Golden Treasure" cartridges have diamond stylus. Have gold plated cases. Standard cartridges have sapphire styli. S—Indicates Sapphire D—Indicates diamond. Av. sh. wt. 4 oz.

Triple Play Cartridges			
Cat. No.	Type	Stylus	Net
54C103	RPX-052A*	D-.001, S-.003	22.90
54C102	RPX-053A*	D-.001, S-.003	34.05
54B082	RPX-050A	S-.001, S-.003	8.20

Single Play Cartridges			
Cat. No.	Type	Stylus	Net
54C100	RPX-061A*	D-.001	19.96
54C101	RPX-063A*	D-.003	19.96
54B080	RPX-040A	S-.003	5.85
54B081	RPX-041A	S-.001	5.85

K L M G-E Replacement Styli. G-E styli featuring Clip-In Tip design are available as complete dual stylus replacement assemblies, or as separate stylus inserts interchangeable in all Clip-In Tip stylus assemblies. Av. sh. wt. 2 oz.

K Clip-In Tip Dual Stylus Assemblies. For use in all G-E Variable Reluctance Triple-play cartridges.

Cat. No.	Type	Stylus	Appl.	Net
54B066	RPJ-010A	S-.001, S-.003	33/45, 78	3.50
54B065	RPJ-012A	D-.001, D-.003	33/45, 78	29.37
54C012	RPJ-013A	D-.001, S-.003	33/45, 78	18.23

L Clip-In Tip Inserts. For all dual and single Clip-In Tip stylus assemblies.

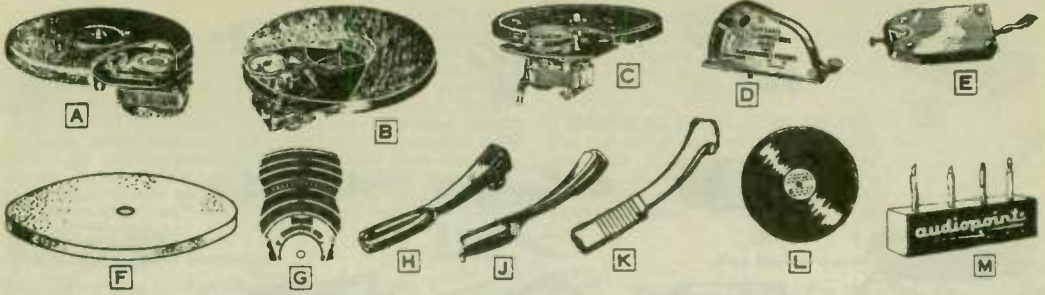
Cat. No.	Type	Stylus	Appl.	Net
54B010	RPJ-01D	D-.001	33/45	15.68
54B011	RPJ-03D	D-.003	78	15.68
54A014	RPJ-01S	S-.001	33/45	1.96
54A017	RPJ-03S	S-.003	78	1.96

M Single Stylus Replacement Assemblies. Without Clip-In Tip feature. For replacement in G-E single-play cartridges previously sold without Clip-In Tip assemblies. Not interchangeable in new cartridge design.

Cat. No.	Type	Stylus	Appl.	Net
54A067	RPJ-001	S-.003	78	2.06
54B013	RPJ-004	D-.001	33/45	16.17
54A068	RPJ-005	S-.001	33/45	2.06

N G-E Preamplifier. For use with G-E Cartridges. Provides sufficient amplification and the necessary low frequency equalization to enable Variable Reluctance Cartridges to be used with standard receivers and amplifiers. Built-in Power Supply. Size: 3-5/8x3-5/8x4 1/4". With 6SC7 tube. Sh. wt. 1 1/4 lbs. 54A083, (UPX-003A) Net. 10.55

RECORD ACCESSORIES



A General Industries Hi-Fi Phono Motor Model DSS.

Designed especially for Hi-Fi reproduction. 33-1/3, 45 and 78 RPM. Features include: precision construction, oil-less motor and turntable bearings, dynamically-balanced rotor. Furnished complete with 10" turntable, speed indicator dial, 45 RPM record adapter and on-off switch. Shpg. wt. 6 1/2 lbs.

71A014, Net. 14.40

B General Industries 3-Speed Motor Model SS. 78-45-

33-1/3 RPM 2-pole motor. Incorporates vertical idler shifting principle. Idler wheel drives the turntable directly from appropriate step on motor shaft. Moving lever to "OFF" position automatically disengages idler wheel from motor shaft during non-operating periods. Ribbed mtg. plt., oil-less bearing and dynamically balanced rotor. With 8" turntable, mtg. plt., speed dial indicator, and 45 rpm record adapter. Depth below mounting plate, 2-15/32". Sh. wt. 4 lbs.

71A012, Net. 6.44

C General Industries Motor Model LX. Rim drive, 2-

pole motor. Rubber insulated from both mounting plate and turntable for quiet operation. Turntable shaft revolves with turntable and is grooved for turntable clip. Furnished with 9" turntable and mounting plate ready for installation. Depth 2" below mounting plate. 78 rpm. Sh. wt. 5 lbs.

71A013, Net. 4.28

D Garrard Pressure Gauge. Simple, accurate, inex-

pensive instrument for measuring stylus pressure of pickups. Correct stylus pressure prevents excessive record wear. All moving parts are lightweight alloy and completely sealed to prevent damage to delicate spring mechanism. Durable red and ivory plastic case. Sh. wt. 4 oz.

71A018, Net. 2.45

E Astatic Recording Head Model X-26. Crystal type

cutting head. 6000 cps. upper limit. Wt. is 8 oz.

54A062, Net. 7.53

F Disc-O-Foam Turntable Mat. With a "Disc-O-Foam"

records play better and last longer. Stops record slippage, dresses up and replaces worn turntables, absorbs rumble, keeps records clean, and cushions record drop. Equipped with instantly removable 45 rpm adapter and metal grommet. Sh. wt. 6 oz.

71B033, Net. 1.20

G Stroboscopic Card Model 610. For 33-1/3, 45, and

78 rpm. Stroboscopic card for checking turntable speed of microgroove records. Includes replaceable punch-out for 1 1/2" center hole for 45 rpm records. Printed on quality enameled card. Sh. wt. is 3 oz.

71B017, Net.15

H Astatic Phonograph Pickup Model P-L-12. Freq.

response: 50-5000 cps. Output 4.0 V. Needle pressure 1 oz. For 78 RPM records. Sh. wt. 1 lb.

54B052, Net. 3.53

J Astatic Crystal Turnover Model 7D. Output 1.0 V.

6 grams needle pressure. Freq. response: 50-6000 cps. Employs ACD double needle crystal cartridge. For 33/45 and 78 rpm. Shpg. wt. 1 lb.

54A053, Net. 9.35

K Shure Phonograph Pickup Model 92U. For 33-1/3,

45 & 78 rpm. Response to 4500 cps. Output level: 2.0V. MG. 2.3V. Std. 8 grams needle pressure. 1 lb.

54B054, Net. 5.73

L Audio Devices Recording Discs. Noted for their

brilliant high frequency response. Quality performance that pleases the most critical recordist. Sh. wts., single lots: 6 1/2", 8"-7 oz.; 10", 9 oz.; 12"-14 oz.; 16"-1 1/2 lbs.

Red-Label-Double Face. Exceeds the professional demands of broadcasting stations, sound and movie studios for top quality.

Cat. No.	Size	Net Each	Std. Pkg.	Lbs. Pkg.	Net Pkg.
59A164	12"	1.50	25	14	33.81
59A165	16"	2.75	25	25	61.98

Red-Label-Single Face. Applications where one side only is required become measurable more economical with the use of these single faced discs.

Cat. No.	Size	Net Each	Std. Pkg.	Lbs. Pkg.	Net Pkg.
59A162	12"	1.21	25	13 1/2	27.44
59A163	16"	2.16	25	25	49.23

Yellow Label. For commercial grade recordings in studios, schools, homes, etc.

Cat. No.	Size	Net Each	Std. Pkg.	Lbs. Pkg.	Net Pkg.
59A158	8"	.55	25	5	12.25
59A159	10"	.73	25	8 1/2	16.41
59A160	12"	1.21	25	13 1/2	27.44
59A161	16"	2.16	25	25	49.23

Blue Label. For schools, homes, amateur, and demonstration work. Same as above except thinner aluminum base.

Cat. No.	Size	Net Each	Std. Pkg.	Lbs. Pkg.	Net Pkg.
59A155	6 1/2"	.30	50	6 1/2	13.23

M Audiotapes Styli and Needles. High quality cut-

ting and playback needles. Each cutting needle is disc-tested for perfect cutting. Each playback needle is shadow-graphed. Sh. wt. 2 oz.

Type 14. Cutting Type. Sapphire point, dural shank.

Please specify long or short shank.

54A001, (Short), 54A002, (Long) Net. 4.41

Type 34. Cutting Type. Steatite point, dural shank.

Please specify long or short shank.

54A003, (Short), 54A004, (Long) Net. 1.18

Type 50. Cutting Type. Diamond lapped, steel point.

Steel shank.

54A005, (Card of 3) Net. 1.03

Type 113. Playback Type. Matched to characteristics

of Audio cutting points, checked by shadowgraph.

Sapphire point, dural shank.

54A006, Net Each. 2.65

45 RPM Spiders. Not illustrated. Fit large hole of 45

RPM records and allows them to be played on VM and

other changers. Sh. wt. 2 oz.

54A094, (Box of ten) Net.53

Record Cleaning Cloth. Not illustrated. Leaves chem-

ical lubricating film which cleans and lengthens life

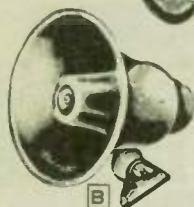
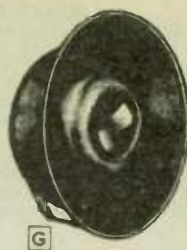
of records and needles. Sh. wt. 3 oz.

54A106, Net.36

SEE WRL FOR ALL YOUR RECORDING NEEDS

35

UNIVERSITY - E-V EQUIPMENT



A University Reflex Loudspeakers. Heavy gauge metal. Corrosion resistant finishes on horn and hardware. Four types cover every public address requirement. Type GH ideal for reproduction of symphonic music. LH recommended for music transmission where economy without sacrifice of quality is essential. PH for use where a smaller horn is required, for both speech and music. SMH for reproduction of speech where clarity and a high degree of intelligibility are necessary.

Cat. No.	Type	Air Col.	L. F. Cutoff	Size Dia.	Len.	Wt. Lbs.	Net
132AF001	SMH	2 1/2"	200 cps	16 1/4"	12"	9	15.29
132AF002	PH	3 1/2"	150 cps	20"	15 1/4"	11	18.23
132AF003	LH	4 1/2"	120 cps	25 1/2"	19"	20	26.16
132AF004	GH	6 1/2"	85 cps	30-7/8"	27-7/8"	25	38.22

B University Industrial Paging Speakers. Reflex air column horns with built-in hermetically sealed driver units. Types CR, IB8, and MIL are directional. MIS is a small unit designed for flush panel mounting. Standard voice coil impedances permit installation without changes in the existing line or amplifier. All have 8 ohms impedance except type CR which has 16 ohm impedance.

Cat. No.	Type	Range CPS	Size Dia.	Depth	Wt. Lbs.	Net
59A043	MIS	500-9000	5 1/2"	3-7/8"	4	12.64
59A044	MIL	400-9000	6"	7"	5	14.70
59A045	IB8	300-6000	9"	9"	7	19.11
59A046	CR	250-6000	11"	9"	11	24.70

C D E F University Breakdown-Proof Driver Units. Conservative ratings. PM dynamic type. Hermetically sealed housings provide protection from outdoor exposure. For high power installations or where overload is a problem use PA-30 or SA-HF.

C Model PA-30. Extended range, 30 watt continuous power capacity. Frequency response: 80-10,000 cps. Voice coil-16 ohms. Built-in line matching transformer tapped 165/250/500/1000/2000 ohms. 70 volt line power taps 30/20/10/5/2.5 watts. Overall dia. 6 1/2". Overall length 6 1/2". Shpg. wt. 6 lbs.
59A038, Net 29.40

D Model SA-30. Heavy duty unit with built-in multi-tap transformer. Continuous power: 30 watts. Freq. response: 90-10,000 cps. Voice coil impedance: 16 ohms. Transformer impedance: 45/165/250/500/1000/2000 ohms. 70 volt line power taps 30/20/10/5/2.5 watts. Overall dia. 5". Overall length 6 1/2". Wt. 5 lbs.
59A041, Net 26.46

E Model SA-HF. Meets most P.A. and Industrial requirements. Continuous power: 25 watts. Freq. response: 90-10,000 cps. Voice coil impedance: 16 ohms. Overall dia. 4 1/2", overall length 5 1/2". Wt. 4 lbs.
59A039, Net 20.58

F Model MA-25. Designed to meet low cost requirements. Continuous power: 25 watts. Freq. response: 90-6000 cps. Voice coil impedance: 16 ohms. Overall dia.: 4-1/8", overall length 3 1/2". Wt. 3 1/2 lbs.
59A040, Net 16.18

G University Coaxial Speaker Type BLC. Full range weatherproof coaxial speaker. Designed primarily for outdoor use but may be used wherever only highest quality equipment is acceptable. Continuous power: 25 watts. Freq. response: 70-15,000 cps. Input impedance: 8 ohms. Dispersion: 120°. Dimensions: 22 1/2" dia., 9" deep. Shpg. wt. 23 lbs.
132AF006, Net 44.10

H Electro-Voice Compound Diffraction Projector Type 848. Conservatively rated at 25 watts. Nominal impedance 16 ohms. Attractive neutral gray color molded into the bell material. Impervious to acids, alkalis and most solvents. Hang up bracket has 2 mtg. positions. Projector may be installed horizontally, or vertically for augmented dispersion. Size at mouth: 10 1/2"W, 20 1/2"H, overall depth 20". 17 lbs.
132AF008, Net 40.87

J University Two-Way Paging Speaker Type 2W-25. Provides an economical and practical means of covering two oppositely located areas effectively & efficiently. Single 25 watt driver unit serves both horns. Universal type mounting bracket. May be used for talk-back purposes. Built for continuous heavy duty service. Specifications: continuous power: 25 watts. Impedance: 16 ohms. Dispersion: 120° each horn. Frequency response: 350-6000 cps. Dimensions: 20 1/2" long, bell dia. 8". Sh. wt. 9 lbs.
132AF007, Net 28.22

Reflex Horn Accessories



Designed to meet varying installation requirements. Simplify any necessary conversions or matching when making additions to existing installations.

M University Line Matching Transformer Type CTR-20. Primary ohms: 45, 500, 1000, 1500, 2000. 25 watts. Waterproof case. Shpg. wt. 3 lbs.
59A057, Net 8.82

N University Adapter Type PMA. For mounting any University "U" bracket speaker on standard 1/2" pipe. Shpg. wt. 2 1/2 lbs.
59A058, Net88

O University Connector Type 2YC. Use with 2 driver units to provide up to 60 watts. For any University trumpet or projector. Shpg. wt. 1 lb.
59A059, Net 5.88

P University Unit Adapter Type WEA. For adapting Western Electric and RCA horns for use with any University driver unit. Shpg. wt. 2 lbs.
59A060, Net 1.47

BOGEN SOUND EQUIPMENT



Bogen Challenger Sound Equipment

Bogen "Challenger" amplifiers provide a range and selection of tone response, keyed to particular applications available previously only in the most expensive commercial sound equipment. Feature the SelectTone tone corrector which provides four distinctive frequency responses. Coverage from "Deep Bass", for deep bass accentuation to "Brilliant" for sensation of presence in recorded music and voice.

A Complete Portable System Model CH85-1. Contains CH8 amplifier with tubes, 1-8" Alnico V PM speaker mounted in portable carrying case plus Astatic JT-30 crystal microphone with handle, interlocking base, 15 foot cable and plug. CH8 amplifier: Individual controls for mike, phono, SelectTone. Inverse feedback for better response. Power output: 8 watts. Response: 80-12000 cps. ± 2 db. Gain: Mic: 108 db. Phono: 71 db. Output Impedances: 4, 8 and 16 ohms. Tubes: One each 6AV6, 6SJ7, 6L6GA, 5Y3GT. Sh. wt. 28 lbs. List Price \$98.50.

116AF005, Net 59.10

B Amplifier Model CH8. 8 watt amplifier only, with tubes, less cage. Dimensions (with cage): 11"Wx 7"Dx7-5/16"H. Sh. wt. 10 lbs. List Price \$54.50.

116AF003, Net. 32.70

Cage Model CAG8. Cage for CH8 amplifier. Sh. wt. 3 lbs. List Price \$6.00.

116AF004, Net. 3.60

C Complete Portable System Model CH18P. Contains CH18 amplifier with tubes and cage. 2-12" Alnico V PM speakers, each with 25' cable and plug mounted in split portable speaker baffle which also carries the amplifier. Astatic JT-30 crystal microphone with handle, interlocking base, 15 foot cable and plug. CH18 amplifier: Individual controls for mike, phono, SelectTone. Inverse feedback for better response. Power output: 18 watts. Response: 50-12000 cps ± 0 db. ± 2 db. Gain: Mic: 118 db. Phono: 78 db. Output Impedances: 4, 8, 15 ohms, 70 volts. Tubes: 2-6SF5, 1-6SL7GT, 2-6V6GT, 1-5Y3GT. Sh. wt. 36 lbs. List Price \$163.50.

116AF007, Net. 98.10

Amplifier Model CH18. 18 watt amplifier only, with tubes and cage. Shpg. wt. 20 lbs. List Price \$81.50.

116AF006, Net. 48.90

Mobile Amplifier System Model CH618YT. 18 watt universal system. For 110 VAC or 6 VDC. Contains CH618 amplifier (specifications same as CH18) but has 3-speed built-in phono top, 1-University PH trumpet with MA-25 driver unit, Astatic JT-30 mic with handle, interlocking base, 15 foot cable and plug. Sh. wt. 50 lbs. List Price \$239.30.

116AF008, Net. 143.58

G Masco Electronic Microphone Mixer & Preamplifier Model EMM-6. Electronically mixes outputs of up to 4 mikes & 2 phonographs or radio tuners. Output: 1.0 V. rms. Output imp.: 820 ohms (cathode follower). Voltage gain: mike, 100 times (40 db.), radio-phono, 8 times (18 db.). Tubes: 3-12AX7. Selenium rect. Hum. level: 70 db. at 1.0 V. output. Pwr. consumption: 10 watts at 117 V., 60 cps AC. 8"x5-3/8"x4-1/4". 8' cable and plug. 4 lbs. 76A006, Net 38.22

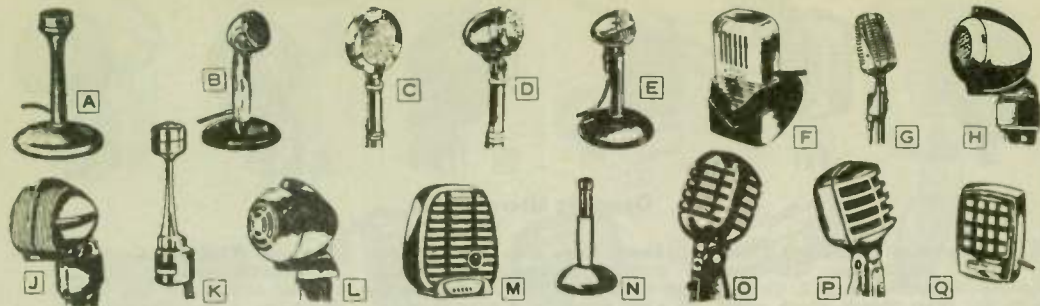
Microphone Mixer Model MM-4. Similar in appearance to EMM-6. 4 channel hi-imp. mike mixer may be connected to hi-imp. mike input of any amplifier. 4 gain controls and 4 mike connectors allow for mixing and fading over-all. Fully shielded. 4' cable. Standard screw-on connector. Sh. wt. 4 lbs.

76A005, Net 12.49

LEO GIVES TERMS TO SUIT YOUR BUDGET

39

CRYSTAL MICROPHONES



[A] Astatic Type 54M3. For recording, P.A. and similar uses. Range: 30 to 10,000 cps. flat to 1000 cycles, gradual rise to 6000 cps. Sensitivity: -51 db below 1 volt per microbar. Directivity: non-directional in vertical position. 5 ft. cable at mike. Zinc die cast base adapter with locking pin and threaded 5/8"x27 for floor stands. With base and cable. Sh. wt. 2 lbs.
53A018, Net. 7.50

[B] Astatic Type 200 & 241. Gold finish housing and handle. Detachable base. 10 ft. shielded cable. Output level: approx. -52 db. Type 200 with smooth even frequency response characteristics from 30 to 10,000 cps. 241 with similar range but rising characteristics between 1500 and 5500 cps for added brilliance in speech range. Shpg. wt. 2 lbs.
Without Switch
53A001, Type 200, Net. 8.20
53A003, Type 241, Net. 8.20
With On-Off Switch
53A002, Type 200-S, Net. 8.82
53A004, Type 241-S, Net. 8.82

[C] Astatic Type D-104. For close talking applications, such as radio amateur communications. With high output level, approximately -45 db, it possesses definitely reduced RF feed-back tendencies. Speech range frequency response from 30 to 7500, rising 500 to 4000 cps. Chrome finish. With interchangeable plug and connector, spring cable protector, 5' shielded cable. Shpg. wt. 1-3/4 lbs.
53A006, Net. 14.47
Type GD-104. Combination of D-104 mike and G stand. Sh. wt. 6 lbs.
53A099, Net. 22.14

[D] Astatic Type T-3. For many and varied applications. Output level: -52 db. Frequency response substantially uniform from 30 to 10,000 cycles. With interchangeable plug and socket connector and 15 ft. cable. Chrome finish. Shpg. wt. 2 lbs.
53A012, Net. 16.08

[E] Astatic JT Series. Has 10 ft. cable. Wood handle may be removed & mike used on floor stand. Output level: -52 db, provides ample reserve for use with high gain amplifiers. Shpg. wt. 2 1/2 lbs.
53A008, JT-30. Substantially flat. Net. 9.97
53A010, JT-40. Rising characteristics. Net. 9.97

[F] Astatic Cardinal CX. A low cost beauty with performance comparable to high priced units. Lifts from its streamlined, dark brown plastic desk stand for hand use. Wide range response. Adaptable to standard AC or DC circuits. With 10 ft. cable. Output level: approx. -52 db. Substantially flat. Less stand. Sh. wt. 1 1/2 lbs.
53A015, Net. 5.73

53A016, Type CX-1. Rising characteristics. Sh. wt. 1 1/2 lbs. Net 5.73
53A070, Base for above. Net . . . 5.9

[G] Astatic WR Series. Highly recommended for studio, P.A. and high quality recording purposes. Substantially flat response up to 10,000 cycles. WR-20 may be used on cable up to 100 ft. with negligible loss of output and WR-40 more than able to handle twice this length. Output level: -56 db. Chrome finish. Cable length 25 ft. Shpg. wt. 2 lbs.
53A013, WR-20, Net. 18.99
53A014, WR-40, Net. 25.43

[H] Turner Type 22X. Smartly engineered design cuts feed-back to minimum. Accurate pickup and faithful reproduction have made these units the most popular general purpose mikes on the market. Has a full 90 degree tilting head. Built-in wind-gag permits outdoor use. Level: 52 db below 1 volt/dyne/sq. cm. Response: plus-minus 5 db from 60-9000 cps. Complete with 7 ft. removable cable set. Satin chromium finish. The shpg. wt. is 4 lbs.
53A051, Net. 14.55

[J] Turner Type 33X. For P.A. recording & communications work. Has a high quality 2-element crystal. For indoor or outdoor use. Will not blast from close speaking. Level: 52 db below 1 volt/dyne/sq. cm. Response: 60-9000 cps. Shipping weight is approximately 3 lbs.
53A053, Net. 15.85

[K] Turner Type 80. Fills a long felt need for an appreciably smaller unit. So tiny you can hold it in your palm, the 80 is a big performer within its frequency response range of 80 to 7000 cps. Level: approx. 54 db below 1 volt/dyne/sq. cm. With 7 ft. cable and high quality Bimorph crystal. Blast and mechanical shock proofed. Sh. wt. 9 oz.
53A065, Net. 9.38

[L] Turner Type BX. Ideal for recording, P.A. and amateur work. Brown enamel finish. Level: -48 db below 1 volt/dyne/sq. cm. The response is plus-minus 5 db from 60-7000 cps. Complete with 7 ft. attached cable. Shpg. wt. 3 lbs.
53A055, Net. 6.91

[M] Turner Type CX. Satin chrome finish. With 7 ft. removable cable set. 5/8"-27 standard coupler mounting. Level: 52 db below 1 volt/dyne/sq. cm. Response: plus-minus 5 db from 100-6000 cps. With tilting head. Shpg. wt. 4 lbs.
53A056, Net. 10.59

[N] Shure Type 710. For amateur, P.A. and home recordings. Frequency response: 60-9000 cps. Output: 50 db. With 5 ft. cable. Complete with stand adapter. Shpg. wt. 1 1/2 lbs.
53A028, Net. 6.44

[O] Shure Type "Slim-X" 777. Designed for good quality voice and music reproduction. Ideal for use by lecturers, announcers, etc. Weighs only 6 oz. 4 1/4" long and 1" dia. Frequency response: 50-10,000 cps. Output: 58 db. Specially sealed crystal element. With 7 ft. cable. Satin chrome finish. Less stand. Shpg. wt. 12 oz.
53A029, (777) Net. 12.35
53A030, (777S, with switch) . 13.52

[P] Electro-Voice Type 950. Dual frequency response. Convenient selector switch. Output: -57 db for wide range high fidelity, and -50 db for wide range rising characteristics. Metal seal crystal. Sh. wt. 1 1/2 lbs.
53A035, Net. 24.99

[Q] Electro-Voice Type 911. An excellent microphone for voice and music. Smooth response: 50-8000 cps. Output: 50 db. Fully enclosed metal seal crystal. Complete with 18 ft. cable. The shipping weight is 1-1/2 lbs.
53A037, Net. 16.17

[R] Electro-Voice Type 915. Features smooth response: 60-7000 cps. Output: -50 db. Ample shielding and stability. High impedance. Moisture sealed crystal. 5 ft. shielded cable. Shpg. wt. 1-1/2 lbs.
53A044, Net. 6.61
53A045, With switch, Net. . . . 7.64
53A081, 415 stand for above. . 1.00

RELY ON WRL FOR A WIDE SELECTION OF QUALITY MICROPHONES

MICROPHONES — STANDS



A Electro-Voice "Spherex" Crystal Mike Model 920. All directional pickup for conferences, round table discussions, home recordings, etc. Response: 60-7000 cps. Output level: -50 db. Omnidirectional polar pattern. Strong wire-mesh head acoustically treated for wind and moisture protection. High capacity, moisture sealed crystal. Lustrous satin chrome finish. 5/8"-27 thread. 2 1/4" dia. With 18' cable. Hi-Z. Shpg. wt. 1 lb. 53A032, Net. 13.23

B Shure Replacement Cartridge Model R7. Used as a replacement for the cartridges in the Shure crystal mikes of the 707A and 708A series, and other mikes of similar design. High output-48db. below 1 volt per microbar. Cartridge supplied with rubber mtg. rings and installation instructions. Sh. wt. 3 oz. 53A072, Net. 4.56

C Shure Coiled Cord Set Model C15C. Standard copper coiled cord with trimmed and tinned leads. Used in "CB" and "100" series microphones. Sh. wt. 8 oz. 53A071, Net. 3.38

D Turner Desk Stand Model C4. Designed especially for Model 80 microphone, but has 5/8"-27 thread mtg. so that other mikes may be mounted on it. Finished in satin chrome. Sh. wt. 12 oz. 53A069, Net. 3.38

E Snyder Floor Stand Model MS-1. 2-section telescopic stands. Chrome plated. 61" extended, 32" collapsed. 10" std. base. Grey crackle finish. Sure-grip lock. Sh. wt. approx. 4 lbs. 53B106, Net. 5.88

F Astatic Mike Stand Model G. Has on-off switch for remote control of transmitters & amplifiers. 8 1/4" high. Sh. wt. is 4 lbs. 53A076, Net. 10.88

G Astatic Mike Stand Model F. With socket connector and spring cable protector. 8 1/4" high. Sh. wt. 4 lbs. 53A075, Net. 5.88

G Astatic Mike Stand Model E-1. 5/8"-27 thread. 5 1/4" high. Sh. wt. 3 lbs. 53A073, Net. 3.18

G Astatic Mike Stand Model E5G. 5/8"-27 thread. 8 1/4" high. Sh. wt. 3 lbs. 53A074, Net. 3.18

H Electro-Voice Stand Model 423-A. Sturdy, round die cast base. 5/8"-27 thread. Base dia. 5-1/8". Choice of 3 or 5" stemrises. 2 lbs. 53A083, Net. 2.65

J Shure Take-Apart-Stand Model 534B. For desk or hand use. Metal base, wood handle. Metal top threaded 5/8"-27. 6-1/2" high. Base dia. 4 1/4". Handle length 5-7/8". Sh. wt. 1 lb. 53A077, Net. 1.94

K Atlas Boom Stand Model BS-36. Features safety air-lock cushion that prevents accidental slippage. Boom easily removable to use upright. Boom length 72". Adjustable vertical extension 48"-72". Base dia. 17". Tubular section chrome-plate. With snap-on mike hangers. Sh. wt. is 33 lbs. 124BF001, Net. 35.18

L Atlas Banquet Stand Model TS-6. Features full-grip velvet-action adjustment. Adjustable 18"-32". Tube and base chrome finished. Base dia. 8". Sh. wt. 4 lbs. 53A103, Net. 5.28

M Electro-Voice Touch-To-Talk Stand Model 428. Fits any mike with 5/8"-27 thread. Specially designed lever-type switch for relay operation of microphone. On-off closes or opens instantly. S.P.D.T. Base dia. 5-1/8". 2 lbs. 53A082, Net. 9.41

N Shure Desk Stand Model 536A. Fits Shure connector type mikes. Adapter plate and tubing provided for other type mikes. Has removable button at front for installation of 3/8" standard bushing switch. Pearl Gray finish. Base: 2 1/2 x 5 x 7". Sh. wt. 1 1/2 lbs. 53A078, Net. 3.24

O Electro-Voice Stand Model 425. Height adjustment 37" to 66". Shaft easily rotated. Easily assembled, folds into a small package. 3-leg spread-17". Sh. wt. 9 lbs. 53A105, Net. 16.17

O Electro-Voice Stand Model 430. Similar to 425. Instant control of ht. One bolt locks 3 legs in position. Sh. wt. 9 lbs. 53A104, Net. 10.00

P Shure Switch Model A88A. Grip to talk, slide to lock switch. Long life leak-type switch element which will withstand the most severe requirements. No soldering necessary. Sh. wt. 2 lbs. 53A079, Net. 6.91

Q Turner Third Hand Model 3H. Slips over the head in a jiffy and holds mike close to the mouth. Cuts down background noises. 5/8"-27 thread. Sh. wt. 1 lb. 53A100, Net. 2.94

R Shure Cable Type Transformer Model A86A. Matches 35-50 and 200-250 ohm mikes to high impedance amplifier input. Core dia. 1-1/8", length 2-7/8". 7 ft. cable. Sh. wt. 1 1/2 lbs. 53A080, Net. 10.29

S Atlas Bracket Clamp Model BC-1. Clamp can be removed and top flange screwed or bolted into position. Chrome tube 6" long. 5/8"-27 thread. Sh. wt. is 1 lb. 53A102, Net. 2.06

T Atlas Gyromatic Swivel Model 5W-1. Permits any mike to be adjusted and locked into any angle. 4 1/2" long. 5/8"-27 male and female threads. Sh. wt. 53A098, Net. 2.40

U Atlas Flexible Goose Neck Model GN-13. 5/8"-27 male and female threads 13" long. Finished in polished chrome. Sh. wt. 1 lb. 53A089, Net. 1.62

V Atlas "Snap-On" Mike Attachment Model 50-1. Permits any mike to be attached to or be removed from any floor stand, instantly and safely. Sh. wt. 1/2 lb. 53A097, Net. 1.62

W Atlas Mike Adapter Model AD-1. 5/8"-27 female to 1/2" pipe thread male. Sh. wt. 2 oz. 53A092, Net.50

X Atlas Mike Coupling Model AD-5. 5/8"-27 female to 5/8"-27 female. Sh. wt. 2 oz. 53A094, Net.35

Y Atlas Extension Rod Model AD-8. 6" long. 5/8"-27 male each end. Sh. wt. 4 oz. 53A095, Net.41

Y Atlas Extension Rod Model AD-7. 3" long. 5/8"-27 male each end. Sh. wt. 3 oz. 53A096, Net.35

Z Atlas Flange Model AD-11. 5/8"-27 female. Base dia. 1 1/4". Sh. wt. 6 oz. 53A093, Net.35

AA Atlas Flange Model AD-12. 5/8"-27 male. Base holes on 7/8" mtg. ctrs. Sh. wt. 6 oz. 53A091, Net.35

WRL OFFERS A WIDE SELECTION OF MICROPHONE ACCESSORIES

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ening plastic and has a dependable electric movement. AC only. No Charge with order of 125 tubes. 3F226, Net. 9.00

M RCA Key-Chain Tini-Lite. Pocket-sized novelty flashlight, 2-1/4" long. With key-chain and replaceable battery. Metal, in RCA's famous Red, Black, and White carton colors. (For replacement batteries, specify VSO73.) No charge with order of 15 tubes. 3F304, Net.40

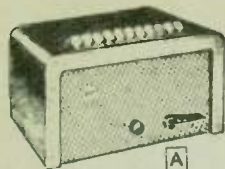
N RCA Counter/Floor Mat. Carries an RCA RADIO BATTERIES imprint in inlaid rubber together with a full-color RCA Battery product identification. Measuring 30x18", it is made of long-wearing natural rubber for years of profit building use. No charge with order of 25 tubes. 3F419, Net. 2.00

ITS EASY TO BUY FROM WRL
World Radio History

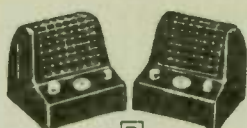


RCA RADIO BATTERIES

BOGEN INTERCOMS



A



B



C



D

A BOKEN COMMUNO-PHONE X AND C SERIES

Models are housed in decorator-styled steel cabinets, "X" and "C" masters are completely private. Addition of "UX" handset permits use of communo-phone privately, even while a visitor is present. Operation of these units involves selecting your station, depressing the talk-listen switch and talking. To receive a

Challenger Model 200. A complete 2 station system consisting of a master station, a remote station and 50 feet of cable. The master and remote stations are housed in sturdy, beautiful polystyrene cabinets. A child can hook up the system. No wires to splice, cut or solder. The master plugs into any 117 volt AC or DC outlet. The interconnecting cable simply

RECEIVING TUBES



WRL offers to its customers the top quality lines in electron tubes. Known internationally for dependability and quality. RCA and G-E engineers are constantly striving to improve their products for even greater customer satisfaction. Top engineering and stringent quality controls in production of RCA and G-E tubes assures top efficiency and continued quality performance. WRL gives continual assurance that all new tube types will be stocked as they are released by the manufacturers.

Tube Type	List Price	EACH In quan. of:	Tube Type	List Price	EACH In quan. of:	Tube Type	List Price	EACH In quan. of:
		1-5			1-5			1-5
		6-Up			6-Up			6-Up
OA2	1.75	1.26	3AU6	1.75	.98	6B7	3.30	1.96
OA3	1.80	1.27	3AV6	1.55	.86	6B8	3.50	1.96
OA4G	2.10	1.48	3BC5	2.00	1.12	6B8G	3.65	2.04
OB2	1.95	1.39	3BE6	1.90	1.06	6BA6	1.80	1.01
OB3	3.35	1.67	3BN6	2.75	1.54	6BA7	2.60	1.45
OC3	1.80	1.27	3BY6	1.90	1.06	6BC4	4.10	2.29
OD3	1.80	1.27	3C6	3.80	2.13	6BC5	2.00	1.12
OY4	4.80	2.68	3CB6	2.00	1.12	6BC7	3.20	1.79
OZ4	1.40	.78	3CF6	2.20	1.23	6BD4A	14.25	9.75
OZ4G	1.70	.95	3D6	4.65	2.60	6BD6	1.80	1.01
IA3	2.50	1.39	3LF4	3.10	1.73	6BE6	1.90	1.06
IA4P	4.25	2.37	3Q4	2.20	1.23	6BF5	2.25	1.26
IA5GT	2.10	1.17	3Q5GT	2.80	1.57	6BF6	1.60	.89
IA6	3.65	2.04	3S4	2.15	1.20	6BG6G/A	5.20	2.90
IA7GT	2.45	1.37	3V4	2.15	1.20	6BH6	2.15	1.20
IA65	3.50	1.96	4BQ7A	3.25	1.82	6BJ6	1.95	1.09
IA65	3.50	1.96	4BZ7	3.45	1.93	6BK4	6.15	3.44
IAH4	2.90	1.62	5AM8	2.75	1.54	6BK5	2.60	1.45
IAJ5	3.05	1.70	5AQ5	1.90	1.06	6BK7A	2.90	1.62
IAX2	2.45	1.37	5AS8	2.85	1.59	6BL4	5.25	2.93
IB3GT	2.50	1.39	5AT8	2.65	1.48	6BL7GT	3.25	1.82
IB4P	4.05	2.26	5AZ4	1.55	.86	6BN6	2.70	1.51
IB5/255	3.50	1.96	5BK7A	2.90	1.62	6BQ6GA	5.20	2.90
IB7GT	3.35	1.87	5J6	2.35	1.31	6BQ6GT/A	3.50	1.96
IC5GT	2.60	1.45	5T4	5.00	2.79	6BQ6GTB	3.50	1.96
IC6	3.50	1.96	5T8	2.90	1.62	6BQ7A	2.90	1.62
IC7G	3.50	1.96	5U4G	1.70	.95	6BX7GT	3.35	1.87
ID5GP	4.25	2.37	5U4GA	1.80	1.01	6BY5G	2.30	1.84
ID5GT	2.00	1.12	5U4GB	1.75	.98	6BY6	1.90	1.06
ID7G	3.65	2.04	5U8	2.75	1.54	6BZ7	2.40	1.90
ID8GT	4.15	2.31	5V4G	2.55	1.43	6C4	1.50	.84
IE5GP	4.05	2.26	5V6GT	1.90	1.06	6C5	2.00	1.12
IE7GT	4.25	2.37	5W4GT	1.75	.98	6C5GT	2.15	1.20
IE8	3.85	2.15	5X4G	2.05	1.15	6C6	2.55	1.43
IF4	2.85	1.59	5X8	2.65	1.48	6C8G	3.85	2.15
IF5G	2.85	1.59	5Y3G	1.30	.73	6CB5	7.80	4.24
IF6	4.25	2.37	5Y3GT	1.25	.70	6CB6	2.00	1.12
IF7G	4.25	2.37	5Y4G	1.85	1.03	6CD6G/A	4.70	2.63
IG4GT	2.60	1.45	5Y4GT	1.85	1.03	6CF6	2.15	1.20
IG5G	3.30	1.84	5Z3	2.00	1.12	6CG7	2.20	1.23
IG6GT	3.00	1.68	5Z4	3.30	1.84	6CL6	3.10	1.73
IH4G	2.35	1.31	6A3	4.10	2.29	6CR6	1.85	1.15
IH5GT	2.00	1.12	6A6	2.75	1.54	6CS6	1.85	1.03
IH6G	3.35	1.87	6A7	2.75	1.54	6D6	2.55	1.43
IJ6G	3.35	1.87	6A8	2.90	1.62	6D8G	3.50	1.96
IJ6GT	3.50	1.96	6A8G	2.75	1.54	6DC6	2.30	1.29
IL4	2.15	1.20	6A8GT	2.75	1.54	6E5	2.15	1.20
IL6	2.90	1.62	6BA4	1.70	.95	6F5	2.20	1.23
ILA4	2.95	1.65	6AB5	2.85	1.59	6F5GT	1.90	1.06
ILA6	2.75	1.54	6AB7	3.55	1.98	6F6	2.50	1.39
ILB4	2.95	1.65	6AC5GT	3.10	1.73	6F6G	2.00	1.12
ILC5	2.75	1.54	6AC7	3.10	1.73	6F6GT	2.00	1.12
ILD6	2.75	1.54	6AD7G	3.85	2.15	6F7	1.90	1.12
ILE3	2.75	1.54	6AE7GT	2.00	1.12	6F8G	3.85	2.15
ILG5	2.75	1.54	6AF4	3.45	1.93	6GG6	2.85	1.59
ILH4	2.75	1.54	6AF4A	3.40	1.90	6H6	1.85	1.03
ILN5	2.75	1.54	6AF6G	2.85	1.59	6H6GT	2.15	1.20
IN5GT	2.45	1.37	6AG5	2.05	1.15	6J5	1.75	.98
IP5GT	2.90	1.62	6AG7	3.50	1.96	6J5GT	1.85	1.03
IQ5GT	3.05	1.71	6AH4GT	2.45	1.37	6J6	2.35	1.31
IR4	2.65	1.48	6AH6	3.45	1.93	6J7	2.50	1.40
IR5	2.25	1.26	6AJ4	4.45	2.49	6J7G	2.55	1.43
IS4	2.55	1.43	6AK5	4.20	2.34	6J7GT	2.55	1.43
IS5	1.90	1.06	6ALS	1.55	.86	6J8G	3.85	2.15
IT4	2.15	1.20	6AL7GT	3.85	2.15	6K5GT	2.40	1.34
IT5GT	2.80	1.57	6AM4	4.45	2.49	6K6GT	1.65	.92
IT6	3.50	1.96	6AM8	2.75	1.54	6K7	2.30	1.29
IU4	2.10	1.17	6AN8	2.80	1.57	6K7G	2.45	1.37
IU5	1.85	1.03	6AQ5	1.85	1.03	6K7GT	2.35	1.31
IV	2.55	1.43	6AQ6	1.70	.95	6K8	3.05	1.71
IV2	1.55	.86	6AQ7GT	3.05	1.70	6K8G	2.90	1.62
IV6	3.65	2.04	6AR5	2.05	1.15	6K8GT	2.75	1.54
IX2A	2.50	1.39	6AS5	2.00	1.12	6L5G	2.75	1.54
IX2B	2.50	1.39	6AS8	3.00	1.68	6L6	4.85	2.43
2A3	4.55	2.54	6AT6	1.50	.84	6L6G	3.10	1.73
2A4G	5.00	2.79	6AT8	2.75	1.54	6L6GA	3.10	1.73
2A5	2.35	1.31	6AU4GT	2.75	1.54	6L7	3.15	1.76
2A6	2.85	1.59	6AU5GT	3.20	1.79	6L7G	3.40	1.90
2A7	2.75	1.54	6AU6	1.70	.95	6N7	2.95	1.65
2AF4A	3.45	1.93	6AU7	2.25	1.26	6N7GT	2.85	1.59
2B7	3.55	1.98	6AV5GT	3.35	1.87	6P5GT	2.45	1.37
2E5	2.75	1.54	6AV6	1.50	.84	6Q7	2.45	1.37
2V3G	5.25	2.93	6AW8	1.00	1.68	6Q7G	2.10	1.17
2X2A	4.35	2.43	6AX4GT	2.35	1.31	6Q7GT	2.10	1.17
3A3	2.90	1.62	6AX5GT	2.05	1.15	6R7	2.80	1.57
3A8GT	5.00	2.79	6B4G	3.35	1.87	6R7G	1.85	.92
3AL5	1.60	.89	6B5	3.35	1.87	6R7GT	2.75	1.54
			6B6G	2.45	1.37	6S4/A	1.75	.98

RECEIVING TUBES

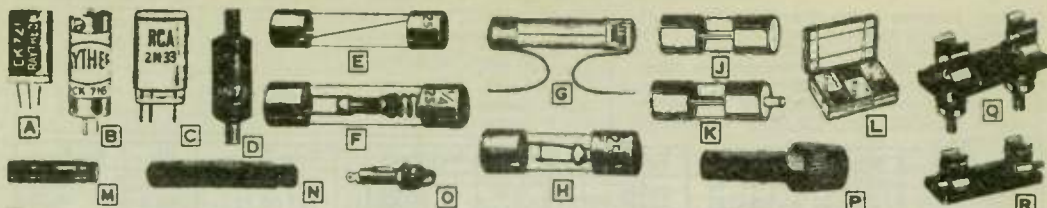
RCA and G-E tubes are fully guaranteed for twelve full months and we will replace any tube that fails to perform efficiently for twelve months from date of purchase. Exceptions to the guarantee are tubes that are burned-out or broken. Tube types may be assorted to take advantage of the quantity prices as shown below. Average shipping weight per tube, 4 oz.; per ten tubes, 2 1/4 lbs. See page 45 for sales aids which are available without cost through your tube purchases, or at nominal cost if desired without making tube purchases.



Tube Type	List Price	EACH In quan. of:		Tube Type	List Price	EACH In quan. of:		Tube Type	List Price	EA. In quan. of:	
		1-5	6-Up			1-5	6-Up			1-5	6-Up
6S7	3.25	1.82	1.75	7Z4	1.85	1.03	.98	19X8	3.10	1.73	1.64
6S7G	3.50	1.96	1.85	10Y	3.90	2.07	2.18	22	3.20	1.79	1.70
6S8GT	2.75	1.54	1.46	12A7	3.90	2.07	2.18	24A	2.75	1.54	1.45
6SA7	2.15	1.20	1.14	12A8GT	2.75	1.54	1.46	25A6	3.50	1.96	1.85
6SA7GT	2.15	1.20	1.14	12AH7GT	3.05	1.71	1.62	25A6G	2.75	1.54	1.46
6SB7Y	2.90	1.62	1.54	12AL5	1.65	.92	.87	25AC5GT	2.90	1.62	1.54
6SC7	2.25	1.26	1.19	12AQ5	1.90	1.06	1.01	25AV5GT	3.35	1.87	1.77
6SD7GT	3.35	1.87	1.77	12AT6	1.50	.84	.79	25BK5	2.60	1.45	1.38
6SF5	1.90	1.06	1.01	12AT7	2.60	1.45	1.37	25BQ6GT	3.65	2.04	1.93
6SF5GT	2.00	1.12	1.06	12AU6	1.75	.95	.90	25BQ6GA	3.65	2.04	1.93
6SF7	2.75	1.54	1.46	12AU7	2.20	1.23	1.16	25BQ6GTB	3.65	2.04	1.93
6SG7	2.35	1.31	1.24	12AV6	1.45	.81	.76	25BQ6GT	3.65	2.04	1.93
6SH7	2.60	1.45	1.37	12AV7	3.05	1.70	1.61	25CD6G/A	4.70	2.63	2.49
6SH7GT	2.50	1.39	1.32	12AW6	2.45	1.37	1.30	25L6	3.85	2.15	2.04
6SJ7	2.00	1.12	1.06	12AX4GT/A	2.45	1.37	1.30	25L6GT	1.90	1.06	1.01
6SJ7GT	1.65	.92	.87	12AX7	2.30	1.26	1.19	25W4GT	2.10	1.17	1.11
6SK7	2.00	1.12	1.06	12AZ7	2.25	1.26	1.19	25W6GT	2.40	1.34	1.27
6SK7GT	2.00	1.12	1.06	12BA/A	2.20	1.23	1.17	25Y5	3.00	1.68	1.60
6SL7GT	2.45	1.37	1.29	12BA4	2.20	1.23	1.17	25Z5	1.85	1.03	.98
6SN7GT	2.15	1.20	1.14	12BA6	1.80	1.01	.95	25Z6	2.60	1.45	1.37
6SN7GT A	2.15	1.20	1.14	12BA7	2.60	1.45	1.38	25Z6GT	1.95	1.09	1.04
6SN7GT/B	2.15	1.20	1.14	12BE6	1.90	1.06	1.01	26	2.30	1.29	1.22
6SQ7	1.75	.98	.93	12BF6	1.60	.89	.85	27	1.75	.98	.93
6SQ7GT	1.75	.98	.93	12BH7	2.55	1.43	1.35	30	2.35	1.31	1.24
6SR7	1.90	1.06	1.01	12BH7/A	2.55	1.43	1.35	31	2.75	1.54	1.46
6SS7	2.75	1.54	1.46	12BK5	2.65	1.48	1.40	32	3.85	2.15	2.04
6ST7	2.80	1.56	1.48	12BQ6GA	3.60	2.01	1.91	32L7GT	3.35	1.87	1.77
6SV7	3.35	1.87	1.77	12BQ6GTB	3.55	1.98	1.88	33	3.50	1.96	1.85
6SZ7	2.50	1.39	1.32	12BY7/A	2.55	1.43	1.35	34	3.65	2.04	1.93
6T4	3.75	2.10	1.99	12BZ7	2.55	1.43	1.35	35/51	3.40	1.90	1.80
6T7G	3.35	1.87	1.77	12C8	3.95	2.21	2.10	35A5	2.25	1.26	1.19
6T8	2.90	1.62	1.53	12CA5	2.05	1.15	1.09	35B5	2.10	1.17	1.11
6U4GT	2.65	1.48	1.40	12F5GT	1.90	1.06	1.01	35C5	1.90	1.06	1.01
6U5/6G5	2.25	1.26	1.19	12H6	2.00	1.12	1.06	35L6GT	1.95	1.09	1.04
6U6GT	2.45	1.37	1.29	12J5GT	1.85	1.03	.98	35W4	1.25	.70	.66
6U7G	2.40	1.34	1.27	12J7GT	2.55	1.42	1.35	35Y4	1.85	1.03	.98
6U8	2.85	1.59	1.51	12K7GT	2.35	1.31	1.24	35Z3	1.85	1.03	.98
6V3A	3.95	2.21	2.10	12K8	3.30	1.84	1.75	35Z4GT	1.55	.87	.82
6V6	3.65	2.04	1.94	12K8GT	2.95	1.65	1.56	35Z5GT	1.30	.73	.69
6V6GT	1.85	1.03	.98	12L6GT	1.90	1.06	1.01	36	2.75	1.54	1.46
6W4GT	1.75	.98	.93	12Q7GT	2.10	1.17	1.11	37	1.85	1.03	.98
6W6GT	2.25	1.26	1.19	12S8GT	2.65	1.48	1.41	38	2.35	1.31	1.24
6W7G	2.75	1.54	1.46	12SA7	2.15	1.20	1.14	39/44	2.85	1.59	1.51
6X4	1.40	.78	.74	12SA7GT	2.15	1.20	1.14	41	1.95	1.09	1.04
6X5	2.65	1.48	1.41	12SC7	2.50	1.39	1.32	42	1.95	1.09	1.04
6X5GT	1.40	.78	.74	12SF5	1.95	1.09	1.03	43	2.10	1.17	1.11
6X8	2.75	1.54	1.46	12SF5GT	2.10	1.17	1.11	45	2.15	1.20	1.14
6Y6G	2.60	1.45	1.38	12SF7	2.75	1.54	1.46	45Z3	1.80	1.01	.95
6ZY5G	2.55	1.43	1.36	12SG7	2.35	1.31	1.24	45Z5GT	1.80	1.01	.95
6Z7G	4.05	2.26	2.15	12SH7	2.60	1.45	1.38	46	3.05	1.70	1.61
6ZY5G	2.55	1.43	1.36	12SJ7	2.00	1.12	1.06	47	3.05	1.70	1.61
7A4/XXL	2.05	1.15	1.09	12SJ7GT	1.65	.92	.87	49	2.85	1.59	1.51
7A5	2.60	1.45	1.38	12SK7	2.00	1.12	1.06	50	5.15	2.88	2.74
7A6	2.15	1.20	1.14	12SK7GT	2.00	1.12	1.06	50A5	2.25	1.26	1.19
7A7	2.20	1.23	1.16	12SL7GT	2.65	1.48	1.40	50B5	2.10	1.17	1.11
7A8	2.10	1.17	1.11	12SN7GT/A	2.15	1.20	1.14	50C5	1.90	1.06	1.01
7AD7	4.70	2.63	2.49	12SQ7	1.75	.98	.93	50C6G	1.90	1.06	1.01
7AF7	2.40	1.34	1.27	12SQ7GT	1.75	.98	.93	50L6GT	1.95	1.09	1.04
7AG7	2.55	1.43	1.35	12SR7	2.00	1.12	1.06	50X6	2.25	1.26	1.19
7AH7	2.55	1.43	1.35	12V6GT	1.85	1.03	.98	50Y6GT	2.15	1.20	1.14
7AU7	2.25	1.26	1.19	12W6GT	2.30	1.29	1.22	50Y7GT	2.10	1.17	1.11
7B4	2.00	1.12	1.06	12X4	1.40	.78	.74	53	2.65	1.48	1.40
7B5	1.90	1.06	1.01	12Z3	2.70	1.51	1.43	55	2.30	1.29	1.23
7B6	2.05	1.15	1.09	14A4	2.65	1.48	1.41	56	1.90	1.06	1.01
7B7	2.05	1.15	1.09	14A5	2.90	2.18	2.07	57	2.15	1.20	1.14
7B8	2.30	1.29	1.22	14A7	2.25	1.26	1.19	58	2.10	1.17	1.11
7C4	3.50	1.96	1.85	14AF7/XXD	2.45	1.37	1.30	59	3.70	2.07	1.97
7C5	2.15	1.20	1.14	14B6	2.25	1.25	1.19	70L7GT	6.95	3.88	3.68
7C6	1.90	1.06	1.01	14B8	2.20	1.23	1.17	71A	2.40	1.34	1.27
7C7	2.15	1.20	1.14	14C5	3.00	1.68	1.59	75	2.00	1.12	1.06
7E5	2.80	1.56	1.48	14C7	2.50	1.39	1.32	76	1.70	.95	.90
7E6	3.00	1.68	1.59	14E6	2.90	1.62	1.57	77	2.20	1.23	1.16
7E7	3.35	1.87	1.77	14E7	3.35	1.87	1.77	78	2.20	1.23	1.16
7F7	2.55	1.43	1.35	14F7	2.55	1.43	1.36	79	2.75	1.54	1.46
7F8	3.45	1.93	1.83	14F8	3.45	1.93	1.83	80	1.55	.86	.82
7G7/1232	2.30	1.29	1.23	14H7	2.45	1.37	1.30	81	4.80	2.68	2.54
7H7	2.25	1.26	1.19	14J7	3.65	2.04	1.93	82	2.85	1.59	1.51
7J7	3.65	2.04	1.93	14N7	2.65	1.48	1.41	83	2.70	1.51	1.43
7K7	3.20	1.79	1.69	14Q7	2.60	1.45	1.38	83V	3.40	1.90	1.80
7L7	3.00	1.68	1.59	14R7	3.50	1.96	1.85	84/6Z4	1.85	1.03	.98
7N7	2.35	1.31	1.24	14S7	3.25	1.82	1.73	85	2.30	1.29	1.23
7Q7	2.60	1.45	1.37	14W7	3.35	1.87	1.78	89	2.30	1.29	1.23
7R7	3.50	1.96	1.85	14X7	2.65	1.48	1.41	117L7/M7GT	6.95	3.88	3.68
7S7	3.45	1.93	1.83	14Y4	2.40	1.34	1.27	117N7GT	4.80	2.68	2.54
7V7	3.50	1.96	1.85	19	3.35	1.87	1.78	117P7GT	4.80	2.68	2.54
7W7	3.50	1.96	1.85	19B6G6	6.00	3.35	3.18	117Z3	1.85	1.03	.98
7X7/XXFM	3.30	1.84	1.75	19J6	2.50	1.39	1.32	117Z4GT	2.90	1.62	1.54
7Y4	1.85	1.03	.98	19T8	3.15	1.76	1.67	117Z6GT	2.95	1.65	1.56

QUICK DELIVERY ON ALL YOUR RADIO NEEDS

TRANSISTORS — FUSES



A Raytheon CK-721 Junction P-N-P. In glass and plastic case, 1/2x1/4" dia. Maximum ratings: collector voltage, -20V.; collector current, -5 ma.; collector dissipation, 30 mw.; emitter current, 5 ma. Av. power (grounded emitter) 2.8 mw.; av. noise factor, 22-db; av. power gain, 38db. Sh. wt. 2 oz. 16A018, Net. 5.05

A Raytheon CK-722 Junction P-N-P. Glass and plastic case, 1/2x1/4" dia. Max. ratings: Collector-voltage, -20 V.; current, -5 ma.; dissipation (30°C) 30 mw.; emitter current, 5 ma. Av. noise factor, 22db. Av. power gain, 30db. Sh. wt. 2 oz. 16A019, Net. 3.04

B Raytheon CK-716 Point Contact. Brass case, 13/20x1/4" dia. Max. ratings: Collector-voltage, -40 V.; current, -4 ma.; dissipation, 100 mw.; emitter current, 10 ma.; Av. gain, 18db; av. power output, 3 mw. 100 kc. minimum freq. response. Sh. wt. 2 oz. 16A020, Net. 17.64

C RCA TRANSISTORS
2N32 Point-Contact. For pulse or switching applications. Size: 1/2x3/8".
2N33 Point-Contact. For oscillator applications up to 50 mc. Size: 1/2x3/8". Sh. wt. 2 oz.

	2N32	2N33
Collector Voltage (V)	-40	-8.5
Coll. Current (Ma)	-8	-7
Coll. Dissipation (Mw)	-50	30
Emitter Current (Ma)	3	0.8
16A053, (2N32) Net.	12.25	
16A054, (2N33) Net.	12.25	

2N104 Junction P-N-P. For low power, low-frequency amplifier applications. Size: 11/16x3/8". Sh. wt. 2 oz.

	2N104
Collector Voltage (V)	-25
Coll. Current (Ma)	-8
Coll. Dissipation (Mw)	50
Emitter Current (Ma)	8
16B055, (2N104) Net.	6.10

D G-E Germanium Diodes. General purpose germanium crystal diodes. Strength & rigidity assured by welded joint between crystal and platinum whisker. Low shunt capacitance. *For TV use. Size: 11/32x13/64" dia. Sh. wt. 3 oz.

Cat. No.	Type	Peak Inverse	Net
50A087	IN48	85 VDC	.65
50A083	IN51	50 VDC	.50
50A084	IN52	85 VDC	1.37
50A085	IN63	125 VDC	2.45
50A088	*IN64	20 VDC	.50
50B089	IN69	75 VDC	.84
50B090	*IN65	85 VDC	.65
50B090	IN70	125 VDC	2.35
50B091	IN72	5 VDC	.98

Ampere Diodes. In hermetically sealed glass envelopes. Size: 1/2x9/32". Max. ratings: peak rectified current, 150 ma. Av. rectified current, 50 ma. Shunt capacity 1.0 mm. Sh. wt. 3 oz.

Cat. No.	Type	Design.	DC Peak Inverse	Net
50B077	IN35A	Gen. Purp.	75 V.	1.23
50A078	IN38A	100 v.	120 V.	1.96
50A079	IN34A	Hi-back res.	75 V.	1.32
50A080	IN35A	100 v.	120 V.	1.23

E Littlefuse 3AG Fuses. Provide fast action for protection of electronic equipment such as radios, amplifiers, etc. Size: 1/2x1/2". Sh. wt. per 100 is 14 oz.

No.	Type	Amps	5 for	100 for
3A150	312.125	1/8	.48	7.84
3A151	312.250	1/4	.44	7.35
3A152	312.375	3/8	.44	7.35
3A153	312.500	1/2	.44	7.35
3A154	312.750	3/4	.44	7.35
3A155	312001	1	.24	3.92
3A156	312001.5	1 1/4	.24	3.92
3A157	312002	2	.24	3.92
3A158	312003	3	.21	3.43
3A159	312004	4	.29	4.90
3A160	312005	5	.29	4.90
3A161	312006	6	.29	4.90
3A162	312008	8	.44	7.35
3A163	311010	10	.15	2.45
3A164	311015	15	.15	2.45
3A165	311020	20	.12	1.96
3A167	311030	30	.18	2.94

F Littlefuse 3AG Slo-Blo Fuses. For use with equipment having high inductive or capacity surges such as magnets, solenoids, etc. Max. volts: *32; others 125. Sh. wt. per 100 is 14 oz.

Cat. No.	Type	Amps	5 for	100 for
3A226	313.175	.175	.79	13.23
3A200	313.200	2/10	.79	13.23
3A201	313.250	1/4	.79	13.23
3A202	313.300	3/10	.79	13.23
3B218	313.375	3/8	.79	13.23
3A203	313.400	4/10	.79	13.23
3A204	313.500	1/2	.79	13.23
3A205	313.600	6/10	.79	13.23
3A232	313.700	7/10	.79	13.23
3A229	313.800	8/10	.79	13.23
3A206	313001	1	.79	13.23
3A227	313.125	1-1/4	.73	12.25
3B219	31301.5	1-1/2	.73	12.25
3B208	31301.6	1-6/10	.73	12.25
3A220	313002	2	.73	12.25
3A194	31302.5	2-1/2	.59	9.80
3A231	313003	3	.59	9.80
3A207	31303.2	3-2/10	.59	9.80
3A230	313004	4	.59	9.80
3B199	313005	5	.59	9.80
3A228	313625	6-1/4	.59	9.80

G Littlefuse 3AG Pigtail Fuses. Quick-acting fuses with 1 1/2" No. 20 tinned copper leads or pigtails for use in TV receivers, etc. Max. volts: 250. Av. sh. wt. per 100 is 1 lb.

Cat. No.	Type	Amps	5 for	100 for
3A195	318.125	1/8	.68	11.27
3A196	318.250	1/4	.59	9.80
3A197	318.375	3/8	.59	9.80
3A198	318.500	1/2	.59	9.80
3A221	318.750	3/4	.59	9.80
3B211	318003	3	.44	7.35

G Littlefuse 3AG Slo-Blo Pigtail Fuses. Withstand heavy surges. Used in TV receivers, etc. where space economy is necessary. Max. volts: 125. Av. sh. wt. per 100 is 1 lb.

Cat. No.	Type	Amps	5 for	100 for
3B217	315.250	1/4	1.00	16.66
3B216	315.300	3/10	1.00	16.66
3A223	315.375	3/8	1.00	16.66
3A209	315.500	1/2	1.00	16.66
3A224	315.750	3/4	1.00	16.66
3A222	31501.6	1-6/10	.94	15.68
3A210	315002	2	.94	15.68
3B215	315003	3	.88	14.70

H Littlefuse 8AG Fuses. High speed action for protection of sensitive instruments and all types of electrical and electronic equipment. Size: 1/2x1". Max. volts: *32; others 250. Approx. sh. wt. per 100 is 10 oz.

Cat. No.	Type	Amps	5 for	100 for
3A173	*361.031	1/32	1.12	18.62
3A174	361.062	1/16	.73	12.25
3A175	361.125	1/8	.53	8.82
3A176	361.250	1/4	.44	7.35
3A177	361.375	3/8	.44	7.35
3A178	361.500	1/2	.44	7.35
3A179	361.750	3/4	.44	7.35
3A180	361001	1	.29	4.90
3A181	36101.5	1-1/2	.29	4.90
3A182	361002	2	.29	4.90
3A183	*361003	3	.29	4.90
3A184	*361005	5	.29	4.90

J Littlefuse SFE Fuses. For auto uses such as lighting circuits, radios, etc. 1/2" dia. All are 32 volts. Sh. wt. per 100 is 14 oz.

Cat. No.	Type	Amps	5 for	100 for
3A188	307004	4	.15	2.45
3A189	307006	6	.15	2.45
3A190	307009	9	.15	2.45
3A191	307014	14	.12	1.96
3A192	307020	20	.12	1.96
3A193	307030	30	.18	2.94

K Littlefuse Limited Current Fuses. Each fuse designed specifically for use with set listed below. Protects circuit from over fusing by preventing insertion of a higher rated fuse.

No.	Type	Amps	For	Net
3A234	323001	1	Emerson	.20
3A235	32301.2	1-2/10	Emerson	.19
3A236	32101.5	1-1/2	Sylvania	.09
3A233	323.500	1/2	Cape Farn.	.20

L Fuse Holder Kit Type 094025. Handy plastic box of 10 TV snap-on fuse holders. Approx. slpg. wt. 1 1/2 lbs. 3A214, Net. 1.80

M Fuse Holder Type 2348. Standard auto fuse holder. Sh. wt. 2 oz. 1A129, Net.12

N Jumbo Fuse Holder Type 2349. SFE-30 amps. 2 1/2" long by 1/2" dia. Sh. wt. 2 oz. 1A130, Net.20

O Fuse Holders. Panel mounting type. Fuse is easily replaced by unscrewing knob. Sh. wt. 2 oz.

Cat. No.	Type	For	Net
3A212	342001	3AG Fuses	.27
3A213	372001	8AG Fuses	.27

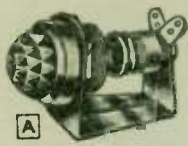
P Fuse Retainers. For use in car radios, heaters, spotlights, clocks, etc. Sh. wt. 3 oz.

Cat. No.	Type	For	Net
1A396	155009	9A. SFE	.27
1A397	155014	14A. SFE	.27
1A398	155020	20A. SFE	.27

Q Fuse Mountings. For standard radio or automotive fuses. Sh. wt. 4 oz. 1A016, Type 2340—Sgl. Pole, Net. .14 1A017, Type 7201—Dbl. Pole, Net. .22

R Panel Type Fuse Mounting. Takes standard type radio, or automotive fuses. With 6/32 screws. Sh. wt. 6 oz. 1A018, Type 2341—Sgl. Pole,17 1A019, Type 7203—Dbl. Pole,27

JOHNSON PILOT ASSEMBLIES



A 1" Faceted-Friction Jewel.
Removable from front of panel. All parts heavily plated, jewel holder polished chrome. 1" mounting hole. Use on panels up to 3/8" thick. Shpg. wt. is 4 oz.

Miniature Screw			
Cat. No.	Mfg. No.	Color	Net
77A001	147-100-1	Clear	.59
77A002	147-100-2	Red	.59
77A003	147-100-3	Green	.59
77A004	147-100-4	Amber	.59
77A005	147-100-5	Blue	.59
77A006	147-100-6	Opal	.59

Miniature Bayonet			
Cat. No.	Mfg. No.	Color	Net
77A025	147-106-1	Clear	.62
77A026	147-106-2	Red	.62
77A027	147-106-3	Green	.62
77A028	147-106-4	Amber	.62
77A029	147-106-5	Blue	.62
77A030	147-106-6	Opal	.62

Candelabra			
Cat. No.	Mfg. No.	Color	Net
77A013	147-103-1	Clear	.60
77A014	147-103-2	Red	.60
77A015	147-103-3	Green	.60
77A016	147-103-4	Amber	.60
77A017	147-103-5	Blue	.60
77A018	147-103-6	Opal	.60

B 1/2" Faceted-Threaded Jewel.

Miniature Bayonet			
Cat. No.	Mfg. No.	Color	Net
77A121	147-403-1	Clear	.49
77A122	147-403-2	Red	.49
77A123	147-403-3	Green	.49
77A124	147-403-4	Amber	.49
77A125	147-403-5	Blue	.49
77A126	147-403-6	Opal	.49

C 1/2" Faceted-Vertical. Jewel
holder and bracket heavily nickel plated. Brackets and nuts are steel, other metal parts brass. Mounting hole 7/16" clearance. Shipping weight is 4 oz.

Miniature Screw			
Cat. No.	Mfg. No.	Color	Net
77A073	147-300-1	Clear	.29
77A074	147-300-2	Red	.29
77A075	147-300-3	Green	.29
77A076	147-300-4	Amber	.29
77A077	147-300-5	Blue	.29
77A078	147-300-6	Opal	.29

Miniature Bayonet			
Cat. No.	Mfg. No.	Color	Net
77A097	147-306-1	Clear	.32
77A098	147-306-2	Red	.32
77A099	147-306-3	Green	.32
77A100	147-306-4	Amber	.32
77A101	147-306-5	Blue	.32
77A102	147-306-6	Opal	.32

Candelabra			
Cat. No.	Mfg. No.	Color	Net
77A085	147-303-1	Clear	.30
77A086	147-303-2	Red	.30
77A087	147-303-3	Green	.30
77A088	147-303-4	Amber	.30
77A089	147-303-5	Blue	.30
77A090	147-303-6	Opal	.30

C 5/8" Faceted Jewel-Vertical.
Jewel holder polished chrome plated. Brackets and nuts are steel, other metal parts brass. Mounting hole 11/16", Wt. 4 oz.

Miniature Screw			
Cat. No.	Mfg. No.	Color	Net
77A037	147-200-1	Clear	.48
77A038	147-200-2	Red	.48
77A039	147-200-3	Green	.48
77A040	147-200-4	Amber	.48
77A041	147-200-5	Blue	.48
77A042	147-200-6	Opal	.48

Miniature Bayonet			
Cat. No.	Mfg. No.	Color	Net
77A049	147-206-1	Clear	.52
77A050	147-206-2	Red	.52
77A051	147-206-3	Green	.52
77A052	147-206-4	Amber	.52
77A053	147-206-5	Blue	.52
77A054	147-206-6	Opal	.52

Candelabra			
Cat. No.	Mfg. No.	Color	Net
77A061	147-203-1	Clear	.49
77A062	147-203-2	Red	.49
77A063	147-203-3	Green	.49
77A064	147-203-4	Amber	.49
77A065	147-203-5	Blue	.49
77A066	147-203-6	Opal	.49

D Jewel Assembly. 1/2" Jewel-Faceted. Polished chrome holder and nut, fits 7/16" mounting hole. Furnished with nut. 4 oz.

Cat. No.	Mfg. No.	Color	Net
77A183	147-310-1	Clear	.18
77A184	147-310-2	Red	.18
77A185	147-310-3	Green	.18
77A186	147-310-4	Amber	.18
77A187	147-310-5	Blue	.18
77A188	147-310-6	Opal	.18

D Jewel Assembly. 5/8" Jewel-Faceted. Polished chrome holder fits 11/16" mounting hole. Furnished with nut. Sh. wt. is 4 oz.

Cat. No.	Mfg. No.	Color	Net
77A171	147-210-1	Clear	.33
77A172	147-210-2	Red	.33
77A173	147-210-3	Green	.33
77A174	147-210-4	Amber	.33
77A175	147-210-5	Blue	.33
77A176	147-210-6	Opal	.33

E Jewel Assembly. 1" Jewel-Faceted. Polished chrome bezel with panel bushing to fit 1" hole, fibre washer and nut. Shipping weight is 4 oz.

Cat. No.	Mfg. No.	Color	Net
77A159	147-110-1	Clear	.42
77A160	147-110-2	Red	.42
77A161	147-110-3	Green	.42
77A162	147-110-4	Amber	.42
77A163	147-110-5	Blue	.42
77A164	147-110-6	Opal	.42

E Jewel Assembly. 1/2" Jewel-Faceted. Nickel plated internally threaded panel bushing fits 11/16" hole. Furnished with nut. Shipping weight is 4 oz.

Cat. No.	Mfg. No.	Color	Net
77A195	147-410-1	Clear	.33
77A196	147-410-2	Red	.33
77A197	147-410-3	Green	.33
77A198	147-410-4	Amber	.33
77A199	147-410-5	Blue	.33
77A200	147-410-6	Opal	.33

F G H J Dial Light Brackets.
Both terminals insulated on all types. Many other styles and combination including wire leads, can be furnished from available tools. Sh. wt. 3 oz.

Miniature Screw			
Cat. No.	Type	Fig.	Each
77A209	147-600	F Down	.10
77A210	147-601	F Up	.10
77A217	147-640	G Down	.12
77A218	147-641	G Up	.12
Miniature Bayonet			
77A211	147-610	H Down	.12
77A212	147-611	H Up	.12
77A215	147-630	J Down	.14
77A216	147-631	J Up	.14
Candelabra			
77A213	147-620	F Down	.11
77A214	147-621	F Up	.11

EASY TIME PAYMENTS-NAME YOUR OWN TERMS

PANEL METERS



25, 35, 55, 125, 155



27, 37, 57, 157



29



227T-DC, 327T-DC
237S-AC, 337S-AC



321T-DC, 221T-DC
331S-AC, 331S-AC

SIMPSON PANEL METERS

Models 125 and 155, 2 1/2" round case—open face style. Flange dia., 2 1/2"; overall depth, 2-5/16"; body dia., 2-1/16". Models 127 and 157, 2 1/2" rectangular case. Width, 2-3/8"; height, 2-3/8". Mounts in round hole. Body dia., 2-3/16". Models 27, 37, 47, & 57, 3 1/2" rectangular case. Width, 3"; height, 3-1/8". Mounts in round hole. Body dia., 2 1/2". Models 25, 35, and 55, 3 1/2" round case—open face style. Flange dia., 3 1/2"; overall depth, 2 1/2"; body dia., 3 1/4". Model 29, 4 1/4" rectangular case. Width, 4-21/32"; height 4-13/64". Mounts in round hole. Body dia., 2 1/2". Bakelite cases. Av. sh. wt. 1 lb.

DC VOLT METERS

Range	Ohms/Volts	Mod. 25	Mod. 27	Net	Mod. 127	Net
0-3	100	78A033	78A019	8.67	...	...
0-5	100	78A034	78A020	8.67	...	...
0-10	100	78A035	78A021	8.67	78A003	7.50
0-25	100	78A036	78A022	8.67	...	...
0-50	500	78A037	78A023	8.67	78A005	7.50
0-150	500	78A038	78A024	8.67	78A006	7.50
0-250	1000	78A039	78A025	8.67	...	...
0-300	1000	78A040	78A026	8.67	...	...
0-500	2000	78A041	78A027	8.67	...	...

AC VOLT METERS

Range	Mod. 155	Mod. 157	Net	Mod. 55	Mod. 57	Net
0-5	...	...	...	78A150	78A143	7.94
0-10	78A134	78A125	7.35	78A151	78A144	7.94
0-15	78A135	78A126	7.35	78A152	78A145	7.94
0-50	...	...	...	78A153	78A146	7.94
0-150	78A136	78A127	8.67	78A154	78A147	9.41
0-300	...	78A128	8.67	78A155	78A148	9.41

DC MILLIAMMETERS

Range	Mod. 125	Mod. 127	Net	Mod. 25	Mod. 27	Net
0-1	78A056	78A047	7.50	78A079	78A065	8.53
0-5	...	...	...	78A080	78A066	8.53
0-10	78A057	78A048	7.50	78A081	78A067	8.53
0-25	...	78A049	7.50	78A082	78A068	8.53
0-50	78A060	78A050	7.50	78A083	78A069	8.53
0-100	78A061	78A051	7.50	78A084	78A070	8.53
0-150	...	...	...	78A085	78A071	8.53
0-200	78A062	78A052	7.50	78A086	78A072	8.53
0-300	...	78A053	7.50	78A087	78A073	8.53
0-500	...	78A054	7.50	78A088	78A074	8.53
78A217, (Model 29) 0-1 Ma. Net. 9.55						

DC AMMETERS

Range	Mod. 25	Mod. 27	Net	Mod. 55	Mod. 57	Net
0-1	78A118	78A111	8.53	78A182	78A175	7.94
0-5	78A119	78A112	8.53	...	...	...
0-10	78A120	78A113	8.53	78A183	78A176	7.94
0-25	...	...	...	78A184	78A177	7.94
0-50	78A121	78A114	8.53	78A185	78A178	7.94
0-100	78A122	78A115	8.53	...	78A179	8.23
0-500	78A123	78A116	8.53	...	...	...

DC MICROAMMETERS

Range	Model 25	Model 27	Net	Model 29	Net
0-50	78A194	78A189	11.61	78A218	12.79
0-100	78A195	78A190	11.03	78A219	12.35
0-200	78A196	78A191	9.41	78A220	10.73
0-500	78A197	78A192	8.97	78A221	10.14

R. F. AMMETERS

Range	Model 35	Model 37	Net
0-1	78A210	78A203	10.29
0-2	78A211	78A204	10.29
0-3	78A212	78A205	10.29
0-5	78A213	78A206	10.29

DC GALVANOMETERS

No.	Model	Scale	Microamperes	Ohms	Net
78A225	27	75-0-75	50-0-50	2000	10.29
78A226	27	50-0-50	500-0-500	40	8.53

GENERAL PURPOSE DB METER

Model 47. Zero power level: 6mw. 500 ohm line. Range: minus 10 to plus 6 db 5000 ohms. Shpg. weight is 1 1/4 lbs. 78A224, Net. 12.05

TRIPLETT METERS

Meters have selected jewel bearings and highly polished pivots, molded zero adjusters and are supplied with pointer stops. Molded bakelite cases. The average shpg. wt. is 2 lbs.

Mod.	Flange	Dia.	Depth
221T	2-11/16	2-7/32	1-5/16
231S	2-11/16	2-7/32	1-13/16
321T	3-1/2	2-3/4	1-5/8
331S	3-1/2	2-3/4	1-13/16
227T	2-3/8 sq.	2-5/32	1-11/16
237S	2-3/8 sq.	2-5/32	1-7/8
327T	3 x 3	2-3/4	1-11/16
337S	3 x 3	2-3/4	1-7/8

DC MILLIAMMETERS

Ma.	221T	227T	Net	321T	327T	Net
0-1	58A001	58A002	7.35	58A003	58A004	8.33
0-10	58A017	58A018	7.35	58A019	58A020	8.33
0-15	58A021	58A022	7.35	58A023	58A024	8.33
0-25	58A025	58A026	7.35	58A027	58A028	8.33
0-50	58A029	58A030	7.35	58A031	58A032	8.33
0-75	58A033	58A034	7.35	58A035	58A036	8.33
0-100	58A037	58A038	7.35	58A039	58A040	8.33
0-150	58A041	58A042	7.35	58A043	58A044	8.33
0-200	58A045	58A046	7.35	58A047	58A048	8.33
0-250	58A049	58A050	7.35	58A051	58A052	8.33
0-300	58A053	58A054	7.35	58A055	58A056	8.33
0-400	58A057	58A058	7.35	58A059	58A060	8.33
0-500	58A061	58A062	7.35	58A063	58A064	8.33
0-750	58A065	58A066	7.35	58A067	58A068	8.33
0-1000	58A069	58A070	7.35	58A071	58A072	8.33

R. F. AMMETERS

Amps	241T	247T	Net	341T	347T	Net
0.5	58A117	58A118	8.33	58A119	58A120	9.31
0-1	58A121	58A122	8.33	58A123	58A124	9.31
0-1.5	58A125	58A126	8.33	58A127	58A128	9.31
0-2.5	58A129	58A130	8.33	58A131	58A132	9.31
0-5	58A133	58A134	8.33	58A135	58A136	9.31

DC VOLT METERS (1000 OHMS PER VOLT)

Range	221T	227T	Net	321T	327T	Net
0-50	58A085	58A086	9.70	58A087	58A088	10.68
0-100	58A089	58A090	10.09	58A091	58A092	11.07
0-300	58A097	58A098	12.35	58A099	58A100	13.33
0-500	58A101	58A102	13.82	58A103	58A104	14.80
0-1000	58A109	58A110	11.86	58A111	58A112	12.84
0-2000	58A113	58A114	11.86	58A115	58A116	12.84

A.C. VOLT METERS

Range	231S	237S	Net	331S	337S	Net
0-5	58A173	58A174	7.35	58A175	58A176	8.33
0-10	58A177	58A178	7.35	58A179	58A180	8.33
0-25	58A185	58A186	7.35	58A187	58A188	8.33
0-50	58A189	58A190	7.35	58A191	58A192	8.33
0-100	58A193	58A194	7.35	58A195	58A196	8.33
0-150	58A197	58A198	8.33	58A199	58A200	9.31
0-250	58A201	58A202	9.31	58A203	58A204	10.29

D.C. MICROAMMETERS

Range	221T	227T	Net	321T	327T	Net
0-50	58A213	58A214	10.29	58A215	58A216	11.27
0-100	58A217	58A218	9.80	58A219	58A220	10.78
0-200	58A221	58A222	8.33	58A223	58A224	9.31
0-500	58A225	58A226	7.84	58A227	58A228	8.82

SIMPSON VU METERS

Model 142 VU Meters. Show level in both VU & percentage modulation. D'Arsonval movement.

Reference level: 1 mw. 600 ohm line. 3900 ohm internal impedance. Bakelite case. Size: 4 1/2 x 1-15/16 x 3 1/4" scale. Sh. wt. 1 1/4 lbs.

78A222, (A Scale) Net 16.46

78A223, (B Scale) Net 16.46



SHURITE METERS — TEST EQUIPMENT

SHURITE PANEL METERS

These panel meters are attractive, rugged, dependable instruments with accuracy well within 5%. All models have metal cases, telephone-black front; all require 2-5/32" hole. Sturdy design—with husky new coil frames designed to prevent leakage, rigidly mounted in *Indicates meter with zero adjust. Av. sh. wt. 1 lb.



Model 550



Model 650



Model 950

DC VOLTMETERS

Volts	Model 550	Net	Model 550*	Net	Model 650	Net	Model 650*	Net	Model 950	Net
0-1	5A159	1.50	5A160	1.85	5A161	1.50	5A162	1.85	5A163	1.55
0-3	5A164	1.55	5A165	1.90	5A166	1.55	5A167	1.90	5A168	1.60
3-0-3	5A169	1.55	5A170	1.90	5A171	1.55	5A172	1.90	5A173	1.60
0-8	5A184	1.55	5A185	1.90	5A186	1.55	5A187	1.90	5A188	1.60
0-10	5A189	1.60	5A190	1.95	5A191	1.60	5A192	1.95	5A193	1.65
0-15	5A194	1.70	5A195	2.05	5A196	1.70	5A197	2.05	5A198	1.75
0-25	5A199	1.75	5A200	2.10	5A201	1.75	5A202	2.10	5A203	1.80
0-75	5A214	1.90	5A215	2.25	5A216	1.90	5A217	2.25	5A218	1.95
0-150	5A229	2.10	5A230	2.45	5A231	2.10	5A232	2.45	5A233	2.15
0-300	5A239	3.05	5A240	3.40	5A241	3.05	5A242	3.40	5A243	3.10
0-500	5A244	4.00	5A245	4.35	5A246	4.00	5A247	4.35	5A248	4.05
0-750	5A249	4.75	5A250	5.10	5A251	4.75	5A252	5.10	5A253	4.80

AC VOLTMETERS

Volts	Model 550	Net	Model 650	Net	Model 950	Net
0-10	5A265	2.65	5A266	2.65	5A267	2.70
0-15	5A268	2.65	5A269	2.65	5A270	2.70
0-50	5A271	3.15	5A272	3.15	5A273	3.20
0-150	5A274	3.40	5A275	3.40	5A276	3.45
0-300	5A277	3.80	5A278	3.80	5A279	3.85

AC AMMETERS

Volts	Model 550	Net	Model 650	Net	Model 950	Net
0-1	5A081	2.65	5A082	2.65	5A083	2.70
0-3	5A084	2.65	5A085	2.65	5A086	2.70
0-5	5A087	2.65	5A088	2.65	5A089	2.70
0-10	5A090	2.65	5A091	2.65	5A092	2.70
0-30	5A093	2.95	5A094	2.95	5A095	3.00
0-50	5A096	3.15	5A097	3.15	5A098	3.20

DC AMMETERS

Amps	Model 550	Net	Model 550*	Net	Model 650	Net	Model 650*	Net	Model 950	Net
0-1	5A001	1.55	5A002	1.90	5A003	1.55	5A004	1.90	5A005	1.60
0-3	5A006	1.55	5A007	1.90	5A008	1.55	5A009	1.90	5A010	1.60
0-5	5A011	1.55	5A012	1.90	5A013	1.55	5A014	1.90	5A015	1.60
0-8	5A016	1.55	5A017	1.90	5A018	1.55	5A019	1.55	5A020	1.60
0-10	5A021	1.55	5A022	1.90	5A023	1.55	5A024	1.90	5A025	1.60
0-15	5A026	1.65	5A027	2.00	5A028	1.65	5A029	2.00	5A030	1.70
0-25	5A031	1.95	5A032	2.30	5A033	1.95	5A034	2.30	5A035	2.00
0-50	5A036	2.25	5A037	2.60	5A038	2.25	5A039	2.60	5A040	2.30
20-0-20	5A066	1.85	5A067	2.20	5A068	1.85	5A069	2.20	5A070	1.90
30-0-30	5A071	1.95	5A072	2.30	5A073	1.95	5A074	2.30	5A075	2.00
50-0-50	5A076	2.10	5A077	2.45	5A078	2.10	5A079	2.45	5A080	2.15

DC MILLIAMMETERS

Ma.	Model 550	Net	Model 550*	Net	Model 650	Net	Model 650*	Net	Model 950	Net
0-3	5A099	2.25	5A100	2.60	5A101	2.25	5A102	2.60	5A103	2.30
0-5	5A104	2.05	5A105	2.40	5A106	2.05	5A107	2.40	5A108	2.10
0-10	5A109	1.95	5A110	2.30	5A111	1.95	5A112	2.30	5A113	2.00
0-15	5A114	1.60	5A115	1.95	5A116	1.60	5A117	1.95	5A118	1.65
0-25	5A119	1.55	5A120	1.90	5A121	1.55	5A122	1.90	5A123	1.60
0-50	5A124	1.55	5A125	1.90	5A126	1.55	5A127	1.90	5A128	1.60
0-100	5A129	1.55	5A130	1.90	5A131	1.55	5A132	1.90	5A133	1.60
0-150	5A134	1.55	5A135	1.90	5A136	1.55	5A137	1.90	5A138	1.60
0-200	5A139	1.55	5A140	1.90	5A141	1.55	5A142	1.90	5A143	1.60
0-300	5A144	1.55	5A145	1.90	5A146	1.55	5A147	1.90	5A148	1.60
0-400	5A149	1.50	5A150	1.85	5A151	1.50	5A152	1.85	5A153	1.55
0-500	5A154	1.50	5A155	1.85	5A156	1.50	5A157	1.85	5A158	1.55

A Sprague Tel-Ohmike Model TO-4. Capacitance Bridge measures up to 2000 mf. in five overlapping ranges. Special 1 mmf. to 100 mmf. range. Insulation Resistance directly read on large meter up to 20000 megohms for paper, ceramic, and mica capacitors. Leakage Current of electrolytics measured directly on meter, with exact rated voltage up to 600 V. applied from continuously adjustable power supply. Two ranges: 0-6-60 Ma. Power Factor: 55%. Resistance Bridge measures from 2.5 ohms to 25 megohms at line frequency. Push-Buttons for instant range selection. Power supply self contained for 115 V., 50-60 cy. AC operation. Size: 8-5/8" H., 14-5/8" W., 6-1/8" D. Sh. wt. 15 lbs.

114A066, Net. 72.03

B Sprague Kwik-Test Capacitor Checker Model KT-1. Tests capacitors while they're wired in a set. Magic eye tube tells you if a capacitor is open, shorted, or intermittent. Checks by-pass, blocking, and coupling capacitors from 30 mmf. to 2000 mmf. Capacitors between .1 mf. and 2000 mf. may be tested even when in parallel with resistance as low as 2 ohms. For 115 VAC., 50-60 cy. Size: 9x6x5 1/4". Sh. wt. 8 lbs.

115A003, Net. 33.81

EASY TIME PAYMENTS — NAME YOUR OWN TERMS

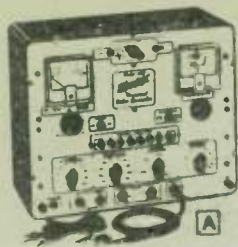


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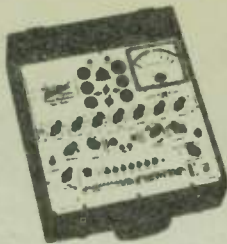


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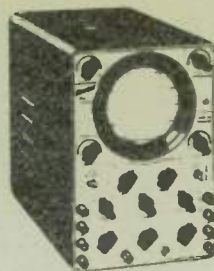
HICKOK TEST EQUIPMENT



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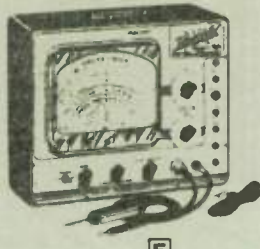
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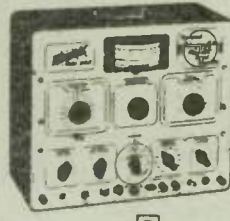
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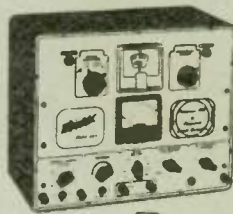
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H

A TV Videometer Model 650C. Compatible for color or black & white. This tester is a must for accurate registration adjustment of the three color guns in color TV receivers. Features of the new model 650C include: Quickly localizes and accurately identifies trouble in any section of a TV receiver. Provides electronically accurate bar or dot pattern on the screen of any TV receiver—Independent of station operation. R.F. output is metered at all times from 1 to 10,000 microvolts with calibrated attenuation and variable percentage modulation. Substitute Video Amplifier with gain of 0 to 10. Crystal controlled timer. Attractive, steel portable case: 16½x13½x7". Test leads included. Shpg. wt. 40 lbs.
114A083, Net 318.90

B Portable Tube Tester Model 533-AP. The new portable 533-AP, with true Dynamic Mutual Conductance, is designed for on-location or shop-bench servicing. Specifications: New Bias Fuse prevents accidental damage to bias potentiometer. New lucite meter window has static-free coating. Tube readings in microhmhos -0-3000, 6000, 15000. Contains the Hickok Tube Gas Test and Tube Noise test. Incorporates the new test feature that forecasts future life of a tube. Larger, 5" easy-to-read meter scale and calibrated GM circuit. Tests all the latest tubes including miniature and subminiature types. Size: 16½x18-3/8x7½". For 110-130 VAC., 40 watts. Shpg. wt. 33 lbs.
114A081, Net 185.80

C Oscilloscope Model 670. Designed with DC amplifiers to provide excellent square wave response—even down to DC. Extreme sensitivity: 10 mv per inch. Wide band vertical amplifier useful beyond 2 mc. Direct-coupled, balanced push-pull amplifiers for both vertical and horizontal deflection. Line phasing control, approximately 180 degrees. Provision for X-axis modulation. Sweep oscillator: 3 to 50 kc. For 105-125 VAC, 50-70 cycles, 65 watts at 115 VAC. Size: 9½x12½x18". Shpg. wt. 35 lbs.
114A084, Net 268.00

D Portable Electronic Voltmeter-Ohmmeter Model 215. Handy size. Has zero-center scale for discriminator alignment and other galvanometer applications. Large 5" meter. Resistance measurements 0.2 ohms to 1,000 megohms. 0-3,200 V. AC peak-to-peak in 7 ranges. 0-1,200 V. AC-DC in 7 ranges. Ideal for quick, accurate measurement of sine or complex waves of TV or industrial devices. 5½x8-3/8x4¼" D. 105-125 V., 50-1,200 cy. 20 w. Includes AC-DC single unit Dual-Probe and leads. Sh. wt. 7 lbs.
114A079, Net 67.50

E 5" Oscilloscope Model 675. Compatible for color or black & white TV. Vertical Amplifier—frequency response: 1 cps to 4.5 mc (within 3db); flat through the color burst frequency (3.58mc); excellent pulse response with a rise time of .08 microseconds; sensitivity: 20 mv rms per inch; switch provided for reversing polarity of vertical trace. Horizontal Amplifier—frequency response: 1 cps to 450 KC (within 3db); sensitivity: 250 mv rms per inch; phaseable (180°) line frequency signal available. Time Base Generator—frequency: frequency coverage from 10 cps to 100 KC, in 4 calibrated decade ranges; time base expansion of 10 times full screen (40") with complete positioning of expanded trace; writing speeds variable from 25,000 microseconds per inch (based on 4") or 10,000 microseconds per cm (based on 10 cm) to 0.25 microseconds per inch (based on 40") or 0.1 microseconds per cm (based on 100 cm). Input provided for intensity (Z-axis) modulation. Size: 13x10x16". 105-125 V., 50-400 cps.
114BF077, Net 249.00

F Volt-Ohm-Capacity Millimeter Model 209A. Extra long easy-to-read 9" meter scale. Peak to peak voltmeter—measures peak to peak or RMS values of AC. New zero-center scale on DC for faster alignment. Low capacity, high frequency probe and all leads. Flat frequency response to 300 megacycles. Resistance: 1/10 ohm to 10000 megohms. Voltages to 1200 AC and DC. Capacity: 1 Mmf to 1000 Mt. 115 VAC. Steel portable case. 13½x16½x7". Shpg. wt. 25 lbs.
114B071, Net 132.50

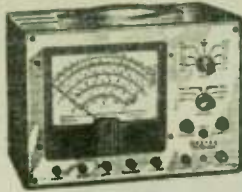
G Alignment Generator Model 610A. Visually aligns a TV receiver to any of the 13 channels. Crystal controlled frequency, modulated or unmodulated from 0 to 216 Mc. Fully attenuated, self contained markers can be set to .05 Mc. (Crystal, Oscillator, Absorption.) Extra large scale, 10 divisions per Mc. 115 VAC. 13-3/8x16½x7". Portable steel case. Shpg. wt. 35 lbs.
114A075, Net 219.00

H Sweep Alignment Generator Model 695. Features a sweep signal that is absolutely linear and without amplitude modulations. High .3 volt output. Triple shielded. Signal can be attenuated from 3 to 300,000 mv. 0-12 volts variable bias voltage with continuous tuning. Three RF oscillators provide complete VHF coverage on fundamentals and heterodyned output IF 0-50 mc. 16½x13½x8". Shpg. wt. 31 lbs.
114B072, Net 265.00
CRT Plug-In Adapter. Used with Hickok tube testers. Checks cathode ray tubes. Shpg. wt. 2 lbs.
114A078, Net 9.90

RCA TEST EQUIPMENT



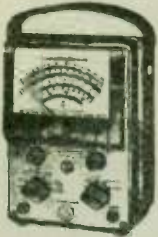
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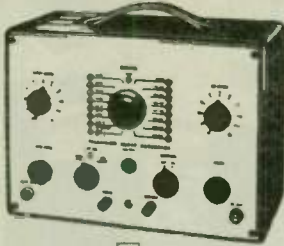
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A 5" Oscilloscope Model WO-88A. The WO-88A features direct-coupled, push-pull vertical amplifier to provide a response flat from 0 cycles to 500 Kc within -3 db; 0 to 1 Mc within -10 db. Deflection sensitivity: vertical amplifier—25 mv rms per 1". Input resistance: 1 megohm shunted by 30 mmf; with WG-218 direct probe, 1 megohm shunted by 75 mmf; with WG-216 B low-capacitance probe, 10 megohms shunted by 9.5 mmf. Sweep circuit frequency: 15 cps to 30 kc. Internal adjustments are easily accessible without removing the case. Size: 9x13½x16½". For 105-125 V., 50-60 cycles. Complete with tubes, 2—218, and WG-216A probe, clip and leads. Shpg. wt. 34 lbs. 115A078, Net. 169.50

B Master Voltohmmyst Model WV-87A. Readily portable, also well suited to permanent or rack mounting. Measures practically all wave-shapes in TV circuits. Measures: VDC from .02 to 1500; resistance over range of 0.2 ohms to 1000 megohms; small currents from 10 microamperes to 500 milliamperes, dc; large currents from 500 ma to 15 amps, dc. Large 8½" meter for ease of reading. Size: 10x13½x7". Complete with direct probe and cable, dc probe, ohms probe and cable, positive current cable, negative current cable and ground cable. Shpg. wt. 8 lbs. 115A069, Net. 112.50

C Voltohmmyst Model WV-77A. High impedance on all ranges: DC, 11 megohms; AC, 0-2 to 2 megohms. Flat frequency response (30 cps to 3 Mc) 50 Kc to 250 Mc with WG-264 Probe (available as accessory). 4½" meter case. Zero centering facilities. Used as a DC Voltmeter: measures DC from 50 millivolts to 1200 volts. AC Voltmeter: measures AC from 100 millivolts to 1200 volts rms. Wide Range Ohmmeter: measures resistance from 0.2 to 1-billion ohms. Power supply: 105 to 125 volts, 50 to 60 cps. 5 watts, (approx). Sh. wt. 6 lbs. 115A070, Net. 47.50

D Senior Voltohmmyst Model WV-97A. Reads peak-to-peak directly; measures DC voltages in high impedance circuits, even with AC present. Reads the RMS values of sine waves and the peak-to-peak values of complex waves or recurrent pulses, even in the presence of DC. Its electronic ohmmeter has a range of ten billion to one. Features high input resistance, electronic protection from meter burn-out, zero-center, scale for discriminator alignment, molded plastic meter case, a 1-megohm isolating resistor in the DC probe, and sturdy metal case for good RF shielding. Complete with AC probe, DC probe, and leads. For 115-125 V. 50-60 cycles AC. Size: 7½x5½x3¼". Sh. wt. 9 lbs. 115A071, Net. 67.50

E TV Sweep Generator Model WR-59C. Frequency modulated. Used with WR-39C and WO-88A, it provides accurate measurement of TV bandwidths. Continuous IF coverage from 300 Kc to 50 Mc. Covers 12 TV channels with pre-set switch positions. Output: flat within plus-minus 1.5 db. Sweep width, 10 mc, continuously variable. Output .1 volt to 5 mv. RF output impedance: 300 ohms. Dual piston attenuator has maximum ratio of 20000 to 1. Complete with tubes and cables. Steel case: 13½x10x7½". Shpg. wt. 36 lbs. 115A077, Net. 274.50

F Marker Generator Model WR-89A. Features continuous tuning. For use in alignment & trouble-shooting TV and FM receivers and other equipment operating in the frequency range from 19 to 260 mc. Internal crystal-controlled oscillator, also provides a separate output signal at 4.5 mc. Harmonic crystal oscillator provides highly accurate calibrating beats at 96 different check points, spaced at 2.5 mc. intervals. Output—0.1 V. rms. VFO signal may be modulated with both a 4.5 mc. marker and 600 cps for adjustment and alignment of IF amplifiers and detectors. Power consumption: 55 watts. Finish: Blue-gray hammeroid case, satin-aluminum panel. Dimensions: 10" high, 13½" wide, and 7½" deep. Sh. wt. 19 lbs. 115B076, Net. 242.50

G RCA PROBES

Direct Probe and Cable Model WG-218. Used with WO-56A, WO-57A, WO-57B, WV-77A, WV-87A, WO-88A, WV-97A. With mike-type connector. Approx. sh. wt. 1½ lbs. 115A110, Net. 3.75
Crystal Diode Probe Model WG-264. For WG-218. Used with WV-77A, WV-87A, WV-97A. Sh. wt. 1½ lbs. 115A073, Net. 7.75
High Voltage Probe Model WG-289. With mike-type connector. Less resistor. Sh. wt. 1½ lbs. 115A075, Net. 7.15
Crystal-Diode Demodulator Probe Model WG-291. For WG-218 and WG-220. Used with oscilloscopes. Sh. wt. 1½ lbs. 115A111, Net. 7.95
DC/Direct Probe Model WG-222. For WG-218. Used with WV-77A, WV-87A, WV-97A. Sh. wt. 1½ lbs. 115A112, Net. 3.50

MULTIPLIER RESISTORS

Model WG-206. For RCA WV-65A, 75A, 165-A, 95A, 77A, 162A, 87A, and 97A volt meters. 1090 meg. Sh. wt. 8 oz. 115A072, Net. 2.80
Model WG-208. For Simpson non-electronic volt-meters. 400 meg. Sh. wt. 8 oz. 115A074, Net. 2.80

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55

115A141, Net. 38.71
Model 639 Carrying Case. Black leather strap handle. Snap-over-cover. Sh. wt. 1½ lbs.
 115A146, Net. 8.33

115A144, Net. 29.97
Model 669 Case. Suitable for either 666-HH or 666-R. Black leather, strap handle, snap cover. Sh. wt. 1 lb.
 115A147, Net. 5.39

LEO GIVES TERMS TO SUIT YOUR BUDGET

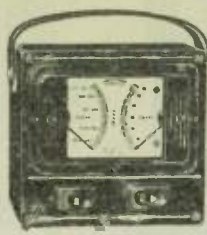
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SIMPSON TEST EQUIPMENT

POPULAR TEST EQUIPMENT



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A Triplet Portable VTVM Model 650. One selector switch for all ranges. DC volts: 0-1-5-10-50-100-500-1000. AC volts: 0-1-5-Peak-to-peak volts: 0-2.8-14-28-140-280-700 (read on 0-1400 scale). Ohms: 0-1000-10,000-100,000. Megohms: 0-1-100-1000. Freq. range: AC-RF: 15 cps to 110 mc at 30%. Size: 3-3/4"x5-1/2"x7-1/2". With tubes and battery. 110 VAC, 60 cy. Sh. wt. 8 lbs.

115A154, Net. 87.71

115A157, (Leather Carrying Case) Net. 9.31

115A158, (HV Probe) 14.21. 115A159, 45° stand. .49

B Triplet Load-Check Model 660. Combination Wattmeter-Voltmeter. Services by power consumption measurements, long proven by auto-radio servicemen as a rapid method of localizing troubles in auto radios. Locates shorts easy and quick. Just plug power cord of chassis into the Load-Check (no loose ends to connect or be in the way). Also makes easy replacing burned out resistors. Ranges: AC-DC watts—0-500-1000; AC-DC volts—0-130. Size: 6x5 1/2"x2 1/4". Sh. wt. 5 lbs.

115A155, Net. 28.91

C Precision VTVM Model 88. Compact, wide range for modern electronic circuit checking. Many advanced features. Six true-zero-center DC voltage ranges: 0-±1.2-±6-±12-±60-±300-±1200 volts. Six + and six - DC voltage ranges: 0-1.2-6-12-60-300-1200 volts. Six high impedance RMS AC voltage ranges: 0-1.2-6-12-60-300-1200 volts. Six high impedance peak-to-peak AC voltage ranges: 0-3.2-16-32-160-800-3200 volts. Five electronic ohmmeter ranges: 0-1000-10,000 ohms. 0-1-100-1000 megohms. Peak-to-peak "re-set" push-button for rapid "zero" return of special, electronically damped test circuit. Extra-large 5 1/2" meter. 1% multipliers and shunts. Custom-moulded phenolic case and panel. Complete with battery, coaxial VTVM probe and instructions. Size: 5-3/8"x3-1/8". Shpg. wt. 7 lbs.

115B025, Net. 68.35

RF-10A. High frequency vacuum tube probe for use with Model 88 above. Shpg. wt. 2 lbs.

115A032, Net. 14.11

D Precision Multi-Range Test Set Model 120. 44 ranges. Extra-large 5 1/2" meter with full 4 1/2" window for greater flexibility. 18-position, positive-detenting, master range selector with low resistance, dependable, silver-plated contacts. 8 DC voltage ranges: 20,000 ohms per volt. 0-1.2-3-12-60-300-600-1200-6000 volts. 8 AC voltage ranges: 5000 ohms per volt. 0-1.2-3-12-60-300-600-1200-6000 V. 8 AC output ranges: same as VAC ranges. 7 DC current ranges: 0-60-300 microampers. 0-1.2-12-120-600 ma. 0-12 amps. 5 resistance ranges: self-contained batteries. 0-200-2000-200,000 ohms. 0-2-20 megohms. 8 decibel ranges: from minus 20 to plus 77 db. 0 db = 1 milliwatt, 600 ohms. Complete with batteries, test leads and operating manual. Size: 5-3/8"x3-1/8". Sh. wt. 8 lbs.

115B026, Net. 39.15

E Precision 5" Oscilloscope Model ES-520. Push-Pull vertical drive. 20 mv. per inch sensitivity. 3-Step, frequency-compensated, vertical input attenuator. Vertical frequency response 20 cycles to 500 Kc. within 2 DB. 1 volt, peak-to-peak, built-in vertical voltage calibrator. Excellent vertical square wave response from 20 cycles to 50 Kc. Push-pull horizontal drive. 50 mv. per inch sensitivity. "H" frequency response 20 cps. to 200 Kc. within 3 DB. (at full gain). Internal linear sweep 10 cycles to 30 Kc. Neg. and pos. sweep synch. Built-in 60 cycle sine-sweep phasing control. Beam modulation input terminal at front of panel. All 4 deflection plates directly accessible at rear. Size: 8 1/4"x14 1/2"x16 1/2". With tubes, including SUP1 CR tube. Sh. wt. 30 lbs.

115B029, Net. 127.50

F Precision Signal Generator Model E-200-C. Excellent for all AM, FM, and TV receivers. Covers 88 kc to 120 mc on 8 bands. Fundamentals: 88 kc to 30 mc. 1% accuracy. Uses ECO circuit. Outputs: Unmodulated RF, 400 cycle modulated RF, externally modulated RF, (AM or FM) and 400-cycle audio output. 6 1/2" direct reading dial. Supplies 0-volts AVC-AGC voltage. With coaxial cable, dual Low-High cable connectors, all tubes and 103 page book, "Servicing by Signal Substitution". Portable steel case. 12x10 1/2"x6 1/2". Operates from 110-120 volts. 50-60 cy. Sh. wt. 17 lbs.

115A027, Net. 82.50

E-200-C Deluxe Model. Same as above except housed in blue-grey, ripple-toned finished cabinet. 17 lbs.

115B028, Net. 88.00

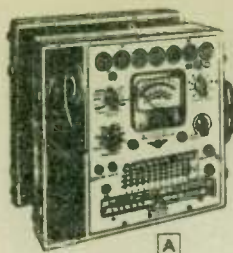
G Cornell-Dubilier Capacitor Checker Model BF-90. Checks capacitors from 30 mmfd. to 2000 mfd. for open circuited, short circuited or intermittent conditions without removing them from the circuit even though they be connected in parallel with a resistance as low as 50 ohms. Checks capacitors from 0.1 mfd. to 2000 mfd. for short circuited or intermittent circuit conditions even though they be connected in parallel with resistances as low as 1 ohm. An oscillator circuit operating at a frequency of approximately 20 megacycles and incorporating an electron-ray indicator tube is employed. Portable. Size: 5 1/2" Deep x 7" High x 10" Wide. With tubes. 110-125 VAC, 50-60 cycles. Sh. wt. 7 1/2 lbs.

114A068, Net. 33.81

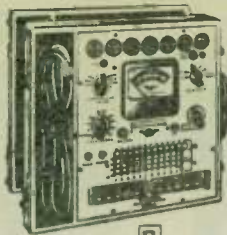
H C-D Capacitor-Resistor Bridge Model BF-60. Quickly and accurately measures important characteristics of all types capacitors and resistors. Detects defects of capacitors such as shorts, opens, intermittents. Checks power factor of electrolytics. Checks capacitance from .00001 to 1000 mfd. in 4 ranges—.00001-.005, .001-.5, 1-50.0, 20.0-1000 mfd. 2 resistance scale ranges: 100 ohms to 50,000, 10,000 ohms to 5 megohms. Self-contained power supply. Size: 7x5 1/2"x10". Sh. wt. 14 lbs.

114B067, Net. 41.99

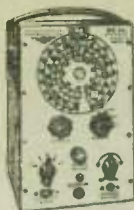
POPULAR TEST EQUIPMENT



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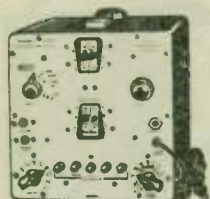
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A RCP Servishop Model 8873 A. An up-to-date tube tester for testing and rejuvenating Cathode Ray Tubes as well as testing all modern, miniature, noval base and sub-miniature tubes. Speedy Rolindex Tube Chart. A complete 17 range VTVM (25 megohm input impedance). Check AC and DC volts with negligible loading of circuit. Measures ohms from .2 to 1000 megohms. Includes High Voltage probe. The signal generator is a fixed frequency AM, FM generator and audio oscillator. Complete with tubes, batteries, leads. Housed in beautifully finished oak portable case, ready to operate on 50-60 cycle. 105 to 125 VAC. Size: 16 $\frac{1}{2}$ x 12 $\frac{1}{2}$ x 5 $\frac{1}{2}$ ". Shpg. wt. 20 lbs. **115B051, Net. 139.95**

B RCP Tube and Battery Tester Model 324P. Sockets for all standard 4, 5, 6, 7, octal, loctal, miniature and sub-miniatures are provided. Tests transmitting, hearing aid, ballast, pilot light, gaseous rectifiers and tuning indicator types. All readings are indicated on a large easily read meter. Checks all magnetic deflection type Cathode Ray Tubes right in the set or carton. Will locate and isolate all shorts or leaks. Tests popular portable battery types under load. Indicates true condition of battery under check. Also has CRT reactivator. Combination portable-counter model. Size: 16 $\frac{1}{2}$ x 14 $\frac{1}{4}$ x 5". Sh. wt. 14 lbs. **115A056, Net. 79.50**

C TV Signal Generator Model 750. Completely covered in one instrument—Signal, Marker, Pattern generator for UHF and VHF. Can check and test alignment of front ends, IF's, sound and pix traps, linearity, syncs, sweeps, positioning, focus and deflection. Designed for portable or bench use. Inductotuner insures accuracy of within $\frac{1}{2}$ of 1% over the entire range of 9 Mc to 900 Mc. All VHF frequencies are on fundamentals. RF's and IF's are clearly calibrated on a large etched aluminum dial. Steady horizontal bass, vertical bars and crosshatch pattern individually produced on all channels. Bands: 9-11 Mc, 21-47 Mc, 54-220 Mc, 465-690 Mc, 650-900 Mc. Modulation: 360 cycles and 141.75 Kc internal modulation has been provided—unmodulated carrier signal is also available. Size: 10 $\frac{1}{2}$ x 6 $\frac{1}{2}$ x 5-9/16". Sh. wt. 10 lbs. **115A057, Net. 79.50**

D RCP TV Generator Model 740 A. The only single, easily portable instrument that provides for alignment of Front ends, IF'S, Horizontal, linearity, Vertical linearity, Picture size, Picture position, Focus coil, Ion Trap. Range: 9 megacycles to 220 megacycles with skips. All Fundamentals—Bands 9-11 megacycles, 21-47, and 54 to 220 megacycles. Audio output: Both 540 cycles and 220.5 KC are available. Attenuation: Complete variation through 200 ohm control. Dial continuously calibrated through 300°. Sh. wt. 9 lbs. **115A055, Net. 69.50**

E RCP Electronic Sweep Generator Model 780. Compatible for color and black & white TV. Electronically regulated Power-Supply—individual push button additive attenuator—thoroughly shielded 0 DB-78 DB. Detector Comparator output permits constant monitoring of sweep signal and comparison of sweep output on any oscilloscope. Range—3.2 mc. to 900 mc. Provides for marker or external color dot or bar insertion. For 105-125 V., 50-60 cy. Size: 9 $\frac{1}{2}$ x 9 $\frac{1}{2}$ x 12 $\frac{1}{2}$ ". Shpg. wt. 16 $\frac{1}{2}$ lbs. **115B051, Net. 189.50**

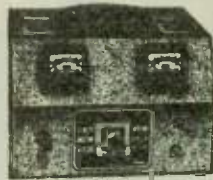
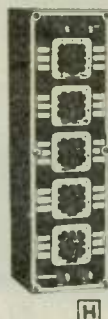
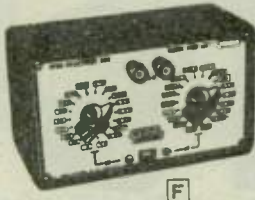
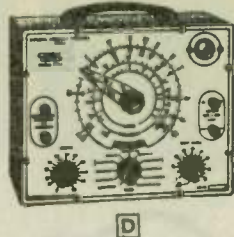
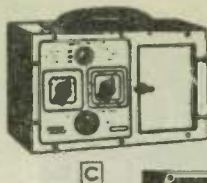
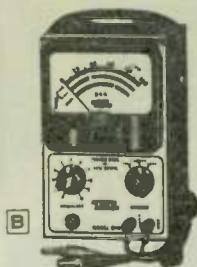
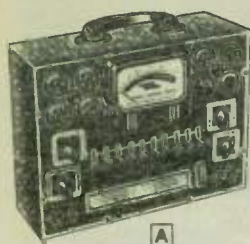
F RCP Multitester Model 480. A rugged universal tester that is a must for every lab and shop as well as a serviceman's kit. 3" square meter 800 microampere D'Arsonval movement, giving 1000 ohms per volt sensitivity on DC and AC is used. Excellent rectifier characteristics. Ranges: DC volts: 0-5-50-250-500-1000. AC volts: 0-10-100-500-1000. Output volts: 0-10-100-500-1000. DC milliamperes: 1-10-100-1000. Ohmmeter: 0-10,000 ohms-100,000 ohms-1 megohm and 1-megohm external. DB meter: -10 to +55db. Size: 7x4-3/8x2-5/16". Complete with battery. Sh. wt. 2 $\frac{1}{2}$ lbs. **115A058, Net. 14.85**

G RCP Flybacker Model 123. Accurately and speedily trouble-shoots horizontal circuits of all TV receivers in the shop or in the home. Extremely sensitive and immediately shows up a single shorted turn in a flyback transformer or yoke. These tests are applicable to inductive windings on any transformer, choke speaker, solenoid, relays, etc., where the impedance is not relatively low. 3 "Good Bad" scales. Operates at approximately 155 cy. freq. with an interruption freq. of 60 cycles. Complete with test leads, alligator clips and tube and instructions. Operates on 105-125 VAC, 60 cy. Size 6x9-3/8x4 $\frac{1}{4}$ ". Shpg. wt. 8 lbs. **115B054, Net. 39.75**

H Amprobe Jr. Snap-Around Volt-Ammeter. Designed to fill a specific job at low cost. This tool now makes it possible for every man who formerly carried an ordinary voltage tester to work with much greater accuracy, and with the added convenience of a real snap-around ammeter. Comes complete with voltage test leads. Conductor capacity: 1/2". Size: Body; 2-1/2" wide, 4-3/4" long, 1-3/8" thick. Scale length: 1.8 inches. Sh. wt. 1 lb.
Model 500. 1 ammeter range: 0-100 amps AC. 2 volt-meter ranges: 0-150/600 volts AC. **114B057, Net. 19.85**
Model 525. 1 ammeter range: 0-25 amps AC. 2 volt-meter ranges: 0-150/600 volts AC. **114B058, Net. 19.85**
Model 550. 1 ammeter range: 0-50 amps AC. 2 volt-meter ranges: 0-150/600 volts AC. **114B059, Net. 19.85**

GET A GOOD DEAL FROM LEO ON YOUR PRESENT TEST EQUIPMENT

EICO TEST EQUIPMENT



A Tube Tester Model 625. Tests conventional and TV tubes including 9-pin miniatures. Large $4\frac{1}{2}$ " meter. New lever action switches, tests every tube element. Illuminated "Speed Roll Chart". 2 grid caps. Short and open-element tests. Spare socket for new tubes. Protective overload bulb. Electronic rectifier. $12\frac{1}{2} \times 9\frac{1}{2} \times 4\frac{1}{2}$ ". Sh. wt. 14 lbs.
114A030, (Kit) Net. 34.95
114A115, (Wired) Net. 49.95

Model 625 CK. With counter display case.
114A008, (Kit) 44.95 114A093, (Wired). 59.95
TV Picture Tube Test Adapter—CRA. For use with Model 625. Gives a quantitative measurement of Cathode emission, and tests for filament continuity and shorts between elements. With 12-pin tube socket, octal connector and 4 ft. cable. Sh. wt. 2 lbs.
114A039, Net. 4.50

B Flyback and Yoke Tester Model 944. Positive check of all types flyback and yokes, in or out of set—in just seconds. Operates on the extremely sensitive grid-dip principle—shows up even 1 shorted turn. Exclusive separate calibration for air core and iron core flybacks for accurate testing of all types. Checks any induct. whose impedance is not too low. 3 separate colored scales. Tests continuity of yokes, coils, speakers, switches, etc. Large $4\frac{1}{2}$ " meter. Size $7 \times 5 \times 4$ ". Attractive styling. Sh. wt. 5 lbs.
114B027, (Kit) Net. 23.95
114A094, (Wired) Net. 34.95

C Eico Cathode Ray Tube Checker Model 630. Easy, fast, reliable testing of all types and sizes of TV picture and scope type CR tubes—in set or carton. Bridge measurement of peak beam current (proportional to screen brightness) using neon lamp as sensitive balance indicator. Balancing control calibrated directly in terms of tube condition. Detects open and shorted elements. Size: $3 \times 6 \times 9\frac{1}{2}$ " high. Sh. wt. 8 lbs.
114A002, (Kit) Net. 17.95
114A118, (Wired) Net. 24.95

D Bridge and R-C-L Comparator Model 950. Measures and tests all resistors from 0.5 ohms to 500 meg ohms; and every type condenser, 10 mfd. to 5000 mfd. Special built-in Precision Comparator Range. Exceptional wide range of 400:1. Bridge-type circuit. 110 V.—60 cy. transformer and rectifier. Rugged steel case. $10 \times 8 \times 4\frac{1}{2}$ ". Sh. wt. 10 lbs.
114A031, (950K, Kit) Net. 19.95
114A097, (950 Wired) Net. 29.95

E Electronic Switch Model 488. Simultaneously observe 2 patterns on 1 scope: compare voltage and current amplitudes, waveforms freqs. and phase relationships; set up voltage reference level or zero base line; check amplifier distortion. Continuously variable switching rates from less than 10 cps. to over 2000 cps. Useful as sq. wave gen. over same range. Size: $6 \times 8 \times 6\frac{1}{2}$ ". Sh. wt. 7 lbs.
114A006, (Kit) Net. 23.95
114A122, (Wired) Net. 39.95

F RTMA Resistance Substitution Box Model 1100. Enables rapid substitution of wide range of RTMA resistance values from 15 ohms to 10 megohms in decade multiples of 15, 22, 33, 47, 68, 100 ohms. Uses standard 1 W., $\pm 10\%$ RTMA resistors. $3\frac{1}{2} \times 6\frac{1}{2} \times 3\frac{1}{2}$ ". Sh. wt. 3 lbs.
114B035, (Kit) Net. 5.50
114A116, (Wired) Net. 9.95

G RETMA Capacitance Substitution Box Model 1120. Enables rapid substitution of a wide range of RETMA capacitance values from 0.0001 to 0.22 mfd. in 18 steps to determine value needed for optimum performance and to find the value of badly damaged or illegible capacitors. Minimum accuracy $\pm 10\%$. Uses silver-mica and molded plastic capacitors, most rated at 600 volts. Convenient 5-way, jack-top binding posts. Sh. wt. 3 lbs.
114B043, (Kit) Net. 5.95
114A092, (Wired) Net. 9.95

H Decade Resistance Box Model 1171. Exceptionally accurate, wide-range versatile instrument. Supplies resistance values from 0 to 99,999 ohms with $\frac{1}{2}\%$ precision. Has 5 separate switches, with 10 positions on each. All resistors have $\frac{1}{2}\%$ accuracy. Sturdy steel case. Size: $3\frac{1}{2} \times 12 \times 3\frac{1}{2}$ ". Sh. wt. $4\frac{1}{2}$ lbs.
114A007, (Kit) Net. 19.95
114A123, (Wired) Net. 24.95

H Decade Condenser Box Model 1180. Precision silver-mica capacitors (plus-minus 1% accuracy, 500 VDC rated) arranged in 3 decades for extremely wide range of 100 mfd. to 0.111 mfd. in steps of 100 mfd. Positive detent ceramic wafer switches, silver-plated contacts. Size: $9 \times 3\frac{1}{2} \times 3\frac{1}{2}$ ". Sh. wt. $4\frac{1}{2}$ lbs.
114C042, (Kit) Net. 14.95
114A108, (Wired) Net. 19.95

J Eliminator, Charger and Booster Model 1040. For all auto radio testing. Full-wave bridge circuit, 4-stack manganese copper-oxide rectifiers. Specially designed transformer, variable from 0 to 15 Volts. Continuous: 5-8 V., 10 amps. Intermittent: 20 amps. 10,000 mfd. filter condenser. Meter measures current and voltage output. Steel case. 115 V., 60 cycle AC. $10\frac{1}{2} \times 7\frac{1}{2} \times 8\frac{1}{2}$ ". Sh. wt. 15 lbs.
114A032, (Kit) Net. 25.95
114A107, (Wired) Net. 34.95

J 6 And 12 Volt Battery Eliminator Model 1050. DC output: 0-8 V. or 0-16 V. Current rating: continuous—10 A. at 6 V., 6 A. at 12 V. Intermittent—20 A. at 6 V., 12 A. at 12 V. Two meters 0-20 V., 0-20 A. Continuous voltage adjustment with Variac-type transformer. 6 V.—12 V. toggle switch. For 105-125 VAC, 50-60 cy. Power consumption 150 watts. Size: $10\frac{1}{2} \times 7\frac{1}{2} \times 8\frac{1}{2}$ ". Sh. wt. 15 lbs.
114B040, (Kit) Net. 29.95
114A106, (Wired) Net. 38.95

RCA TEST EQUIPMENT



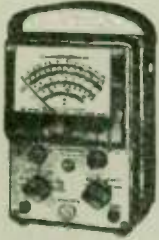
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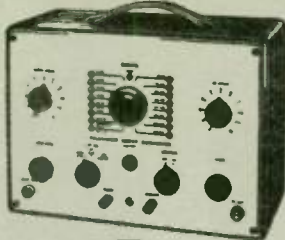
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A 5" Oscilloscope Model WO-88A. The WO-88A features direct-coupled, push-pull vertical amplifier to provide a response flat from 0 cycles to 500 Kc within -3 db; 0 to 1 Mc within -10 db. Deflection sensitivity: vertical amplifier—25 mv rms per 1". Input resistance: 1 megohm shunted by 30 mmf; with WG-218 direct probe, 1 megohm shunted by 75 mmf; with WG-216 B low-capacitance probe, 10 megohms shunted by 9.5 mmf. Sweep circuit frequency: 15 cps to 30 kc. Internal adjustments are easily accessible without removing the case. Size: 9x13½x16½". For 105-125 V., 50-60 cycles. Complete with tubes, 2—218, and WG-216A probe, clip and leads. Shpg. wt. 34 lbs. 115A078, Net. 169.50

B Master Volttohymyst Model WV-87A. Readily portable, also well suited to permanent or rack mounting. Measures practically all wave-shapes in TV circuits. Measures: VDC from .02 to 1500; resistance over range of 0.2 ohms to 1000 megohms; small currents from 10 microamperes to 500 milliamperes, dc; large currents from 500 ma to 15 amps, dc. Large 8½" meter for ease of reading. Size: 10x13½x7". Complete with direct probe and cable, dc probe, ohms probe and cable, positive current cable, negative current cable and ground cable. Shpg. wt. 8 lbs. 115A069, Net. 112.50

C Volttohymyst Model WV-77A. High impedance on all ranges: DC, 11 megohms; AC, 0-2 to 2 megohms. Flat frequency response (30 cps to 3 Mc) 50 Kc to 250 Mc with WG-264 Probe (available as accessory). 4½" meter case. Zero centering facilities. Used as a DC Voltmeter: measures DC from 50 millivolts to 1200 volts. AC Voltmeter: measures AC from 100 millivolts to 1200 volts rms. Wide Range Ohmmeter: measures resistance from 0.2 to 1-billion ohms. Power supply: 105 to 125 volts, 50 to 60 cps. 5 watts, (approx). Sh. wt. 6 lbs. 115A070, Net. 47.50

D Senior Volttohymyst Model WV-97A. Reads peak-to-peak directly; measures DC voltages in high impedance circuits, even with AC present. Reads the RMS values of sine waves and the peak-to-peak values of complex waves or recurrent pulses, even in the presence of DC. Its electronic ohmmeter has a range of ten billion to one. Features high input resistance, electronic protection from meter burn-out, zero-center, scale for discriminator alignment, molded plastic meter case, a 1-megohm isolating resistor in the DC probe, and sturdy metal case for good RF shielding. Complete with AC probe, DC probe, and leads. For 115-125 V. 50-60 cycles AC. Size: 7½x5¼x3¼". Sh. wt. 9 lbs. 115A071, Net. 67.50

E TV Sweep Generator Model WR-59C. Frequency modulated. Used with WR-39C and WO-88A, it provides accurate measurement of TV bandwidths. Continuous IF coverage from 300 Kc to 50 Mc. Covers 12 TV channels with pre-set switch positions. Output: flat within plus-minus 1.5 db. Sweep width, 10 mc, continuously variable. Output .1 volt to 5 mv. RF output impedance: 300 ohms. Dual piston attenuator has maximum ratio of 20000 to 1. Complete with tubes and cables. Steel case: 13½x10x7½". Shpg. wt. 36 lbs. 115A077, Net. 274.50

F Marker Generator Model WR-89A. Features continuous tuning. For use in alignment & trouble-shooting TV and FM receivers and other equipment operating in the frequency range from 19 to 260 mc. Internal crystal-controlled oscillator, also provides a separate output signal at 4.5 mc. Harmonic crystal oscillator provides highly accurate calibrating beats at 36 different check points, spaced at 2.5 mc. intervals. Output—0.1 V. rms. VFO signal may be modulated with both a 4.5 mc. marker and 600 cps for adjustment and alignment of IF amplifiers and detectors. Power consumption: 55 watts. Finish: Blue-gray hammeroid case, satin-aluminum panel. Dimensions: 10" high, 13½" wide, and 7½" deep. Sh. wt. 19 lbs. 115B076, Net. 242.50

G RCA PROBES
Direct Probe and Cable Model WG-218. Used with WO-56A, WO-57A, WO-57B, WV-77A, WV-87A, WO-88A, WV-97A. With mike-type connector. Approx. sh. wt. 1½ lbs. 115A110, Net. 3.75
Crystal Diode Probe Model WG-264. For WG-218. Used with WV-77A, WV-87A, WV-97A. Sh. wt. 1½ lbs. 115A073, Net. 7.75
High Voltage Probe Model WG-289. With mike-type connector. Less resistor. Sh. wt. 1½ lbs. 115A075, Net. 7.15
Crystal-Diode Demodulator Probe Model WG-291. For WG-218 and WG-220. Used with oscilloscopes. Sh. wt. 1½ lbs. 115A111, Net. 7.95
DC/Direct Probe Model WG-222. For WG-218. Used with WV-77A, WV-87A, WV-97A. Sh. wt. 1½ lbs. 115A112, Net. 3.50

MULTIPLIER RESISTORS
Model WG-206. For RCA WV-65A, 75A, 165-A, 95A, 77A, 162A, 87A, and 97A volt meters. 1090 meg. Sh. wt. 8 oz. 115A072, Net. 2.80
Model WG-208. For Simpson non-electronic volt-meters. 400 meg. Sh. wt. 8 oz. 115A074, Net. 2.80

GET A GOOD DEAL FROM LEO ON YOUR PRESENT TEST EQUIPMENT

SIMPSON TEST EQUIPMENT



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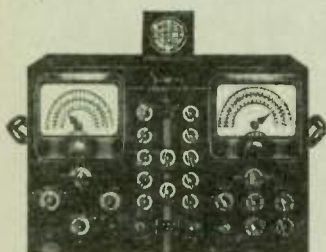
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A Simpson Cross-Match Generator Model 485. The 485 provides a synchronized signal, modulated on carrier frequencies of channels 2, 3, 4, 5, and 6 which can be tuned and sent through receiver under test. When the receiver is properly adjusted, signal will show equally spaced lines in horizontal, vertical or cross-hatch patterns on the picture tube. Portable gray case: $1\frac{1}{2} \times 8\frac{1}{2} \times 9\frac{1}{2}$ ". For 105-125 VAC. Sh. wt. 15 lbs. 115A087, Net. 144.55

B Simpson Genescope Model 480. Combination AM marker generator, FM sweep generator, crystal calibrator, and oscilloscope in one instrument. Provides all frequencies needed to align RF, Oscillator, IF and trap circuits. Includes a high sensitivity 3" oscilloscope equipped with a high frequency crystal probe for signal tracing. Direct connection to vertical and horizontal deflection plates is provided. Range: AM, 3.2-15.6 mc., 15-76 mc., 75-250 mc. (30% modulated at 400 cycles or unmodulated); FM, 2-120 mc. and 142-260 mc. Sweep width, 0 to 15 mc. at 60 cycles. With 5 mc. crystal, leads, and manual. For 110-120 V. 60 cycles. Size: $22 \times 14 \times 7\frac{1}{2}$ ". Sh. wt. 48 lbs. 115AF095, Net. 465.50

C Simpson VOM Model 262. 33 ranges. 7" dial. Compact 7" meter. DC voltage ranges: 0-1.6, 8, 40, 160, 400, 1600, 4000-20,000 ohms per volt sensitivity. AC voltage range: 0-3, 8, 40, 160, 800-5,000 ohms per volt sensitivity. DC current: 0-80, 160 microamperes, 0-1.6, 16, 160 milliamperes, 0-1.6, 16 amps. DC resistance: 0-500, 5,000, 50,000 500,000 ohms, 0-5, 50 megohms. With leads, clips, and multiplier. Wt. 6 lbs. 115A088, Net. 58.31

D Simpson Field Strength Meter Model 488. Provides means for the measurement of TV signals in any locality. Location of maximum signal areas, antenna orientation, adjustment of boosters and checking antenna and lead-in installations are only a few of the many functions available. Full scale sensitivity of the lowest range is approximately 50 microvolts and is an outstanding feature for those concerned with fringe area installations where maximum efficiency must be attained. Three additional ranges of approximately 500, 5000, and 50000 microvolts extends its usefulness into areas of higher signal strength. Large easy to read $4\frac{1}{2}$ " meter, and controls and connections are arranged for greatest accessibility. Housed in a beautiful gray hammerloid finished case with heavy leather handle for greater portability. Line voltage: 105-125 volts, 50-60 cycles, 45 watts. Size: $8 \times 11 \times 8\frac{1}{2}$ ". Sh. wt. 15 lbs. 115A086, Net. 112.70

E Simpson Midgettester Model 355. A volt-ohmmeter you can carry in your shirt pocket. Although it measures only $2\frac{1}{2} \times 4\frac{1}{2} \times 1\frac{1}{2}$ " over-all, it's a practical working instrument with the ruggedness and accuracy of testers many times larger. The compactness and sensitivity of this tester are made possible by the new Simpson 100 microamp self-shielded core meter movement. This movement also permits the Midgettester to be used any place without adverse interference from metals or strong magnetic fields. Accuracy: 3% DC & 5% AC of full scale voltages. 10,000 ohms per volt-AC & DC. AC & DC voltages: 0-3, 12, 60, 300, and 1200 volts. DC resistances: 0-10,000 ohms (120 ohms center), 0-100,000 ohms (1200 ohms center), 0-1 megohm (12,000 ohms center), 0-10 megohms (120,000 ohms center). With operator's manual & set of probes. Sh. wt. $\frac{3}{4}$ lbs. 115A089, Net. 29.45

F Simpson Pocket Tester Model 230. Same size and appearance as Model 240. Heavy bakelite case. Full 3" meter. Handy pocket size for easy portability. DC volts: 0-15-50-250-1000 at 1000 ohms/volt. AC volts: 0-10-250-1000 at 400 ohms/volt. DC Ma.: 0-10-50-250. Ohms: 0-100000 (2 ranges). Complete with battery and test leads. Shpg. wt. 3 lbs. 115A081, Net. 24.45

G Simpson Hammeter Model 240. Wide range, self contained VOM. Housed in a heavy molded bakelite case. Full 3" meter. AC volts: 0-15-150-750-3000. DC volts: 0-15-75-300-750-3000. AC and DC volts at 1000 ohms/volt. DC Ma.: 0-15-150-750. Ohms: 0-300000 (2 ranges). Complete with battery and test leads. Size: $3 \times 5\frac{1}{2} \times 7\frac{1}{2}$ ". Sh. wt. $2\frac{1}{2}$ lbs. 115A082, Net. 25.82

H Simpson Set Tester Model 260. Most popular tester for TV and radio. Sensitivity: 20000 ohms/volt DC. 1000 ohms/volt AC. Volts AC and DC: 2.5-10-50-250-1000-5000. Output volts: 2.5-10-50-250-1000. DC Ma.: 10-100-500. DC Microamps: 100. DC Amps: 10. DE (5 ranges): -12 to +55. Ohms: 0 to 20 meg. With battery and test leads. Size: $5\frac{1}{2} \times 7 \times 3\frac{1}{8}$ ". Sh. wt. 5 lbs. 115A083, Net. 38.17
Leather carrying case for Model 260. Shpg. wt. 1 lb. 115A099, Net. 6.61
Model 260RT. Same as Model 260 but housed in plastic roll top case. Has compartment for leads. Size: $5\frac{1}{2} \times 8 \times 3\frac{1}{4}$ ". Shpg. wt. 9 lbs. 115A084, Net. 45.96
HV-Probe. Extends the DC range to 25000 volts. 8 oz. 115A098, Net. 9.75

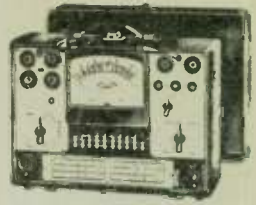
TRIPLITT TEST EQUIPMENT



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A TV-FM Sweep Generator Model 3434A. With 2 built-in markers. Continuous tuning over all TV, FM and IF ranges. Sweep center freq.: 0-60, 60-120, 120-240 mc. Sweep width: 0.1-12 mc. (continuously variable). Marker freq. 3.5-4.9, 19.5-29.3, 29-48.6 mc. (fundamentals). Usable to 241 mc. on harmonics. Xtal freq. to 20 mc. (fundamental). (Less plug-in xtals). Mod: 600 cy. Ladder type attenuator. Sweep standby switch. Line filter. Regulated pwr. sply. Copper plate construction. Size: 15-11/32x11-1/32x8-1/4". With 2 coax cables, grounding strap, test leads and instructions. For 105-115 VAC, 50-60 cy. Sh. wt. 45 lbs.
115A153, Net. 234.71

B Test Oscillator Model 3432A. Complete frequency coverage from 160 Kc to 110 Mc (220 Mc using harmonics) with no skips in frequency for AM-FM radio, monochrome and color TV servicing. Range selector: 7 position follow-up coil switching with complete shielding. RF selector: provides high and low RF output. Circuit selector: provides for internally modulated signal (variable 0 to 100% at 400 cy.). Variable amplitude of external modulation 40 to 15,000 cy., unmodulated signal or variable audio 0-4 V. at 400 cy. All RF and audio circuits double shielded. Electrostatic shielded transformer. For 115 VAC, 50/60 cy. Size: 15-11/32x11-1/32x6-1/8". Sh. wt. 20 lbs.
115A152, Net. 77.91

C Tube Tester Model 3413A. Checks any type radio receiving tube, miniature hearing aid tubes, pilot lamps, flashlight bulbs and TV picture tubes. Gives both short and open circuit check of each element of every tube. TV picture tubes may be checked without removing them from receiver, by use of BV adapter (listed below). Built-in speed, roll chart. 6" meter, has 3-color easy-to-read Good-Bad scale. Portable metal case—15-1/32x11-1/32x6-1/8". With instructions. For 115 VAC, 60 cy. Sh. wt. 26 lbs.
115A150, Net. 77.91
BV Adapter for above. Shipping weight is approx. 1 lb.
115A151, Net. 4.41

D Volt-Ohm-Milliammeter Model 630. One switch, completely enclosed and protected, selects both circuit and range. Large 5 1/2" meter. Ranges: DC and AC Volts, 0-3-12-60-300-1200-6000. DC at 20,000 ohms per volt. AC at 5000 ohms per volt. DC Current: 0-60 microamps, 0-120 Ma. and 0-12 Amps. Ohms 0-10,000, Megohms: 0-100. Db: -30 to +70. Output Volts: 0-6000. Molded black case 3-7/32x5 1/4x7 1/4". Complete with batteries and test leads. Sh. wt. 4 1/2 lbs.
115A141, Net. 38.71

Model 639 Carrying Case. Black leather strap handle. Snap-over-cover. Sh. wt. 1 1/2 lbs.
115A146, Net. 8.33

E VOM-VTVM Model 631. Combined VOM and VTVM. VTVM very stable, battery operated. Modern streamlined styling. Simplified switching. Large 5 1/2" meter. Ranges—AC/DC Volts: 0-3-12-60-300-1200. DC Volts 20,000 ohms/volt, AC Volts 5000 ohms/volt. DC Ua: 0-60. DC Ma: 0-1.2-12-120-1200. DC Amps: 0-12. DB: -30 to +56. Ohms: 0-1500-15,000. Megohms: 0-1.5-150. VTVM DC Volts: 0-1.2-6-30-120. Heavy black molded case 3-7/32x5 1/4x7 1/4". Complete with leads, rubber feet, alligator clips, batteries and instruction manual. The approximate shipping weight is 6 lbs.
115A148, Net. 58.31

F Volt-Ohm-Milliammeter Model 666-HH. A precision-manufactured marvel of compactness that provides a complete miniature laboratory for DC and AC Voltage, Direct Current and Resistance analyses. Its many ranges, attractive appearance and other unique features provide an answer to the Volt-Ohm-Milliammeter requirements of radio servicemen and amateurs, industrial engineers, laboratory technicians, etc. 3" meter. Simplified switching. Ranges: AC & DC Volts, 0 to 5000. DC Ma. 0 to 500. Ohms: 0 to 400,000. Attractive, streamlined black molded case 3-1/16x5-7/8x2-9/16". Supplied with leads. Shipping weight 3 lbs.
115A143, Net. 24.01

G Miniature VOM Model 310. Selector switch speeds circuit and range settings. Assures quick, fool-proof selection of all ranges. Self-shielded for checking in strong magnetic fields. Strong plastic meter window. Ranges: Volts—0-3-12-60-300-1200 (20,000 ohms/volt DC) (5,000 ohms/volt AC. DC Microamperes—0-600 at 250 mv. DC Milliamperes—0-6-60-600 at 250 mv. Ohms—0-20,000-200,000 (200,000 at center scale). Megohms—0-2-20 (20,000-200,000 ohms at center scale). 24" leads. With leads, batteries and instruction manual. Sh. wt. 1 1/4 lbs.
115B149, Net. 28.91

H Volt-Ohm-Milliammeter Model 666-R. Pocket-Size Volt-Ohm-Milliammeter. For AC and DC Voltage, Direct Current and Resistance analyses to 3 megohms. Enclosed selector switch of molded construction keeps dirt out. Retains contact alignment permanently. All resistors, shunts, rectifier and batteries housed in a molded base integral with the switch. Eliminates chance for shorts. Direct connections. No cabling. All precision film or wire-wound resistors, mounted in their own compartment. 3" meter. Ranges: AC-DC Volts; 0 to 5000. DC Current: 0 to 100 Ma., 0 to 1 Amp. Ohms: 0 to 300,000, Meg.: 0 to 3. Black molded case 3-1/16x5-7/8x2-9/16". With leads. Shpg. wt. 3 lbs.
115A144, Net. 25.97

Model 669 Case. Suitable for either 666-HH or 666-R. Black leather, strap handle, snap cover. Sh. wt. 1 lb.
115A147, Net. 5.39

LEO GIVES TERMS TO SUIT YOUR BUDGET

POPULAR TEST EQUIPMENT



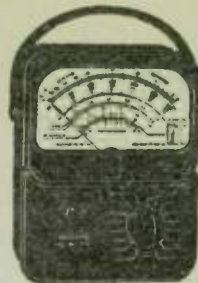
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A Triplet Portable VTVM Model 650. One selector switch for all ranges. DC volts: 0-1-5-10-50-100-500-1000. AC volts: 0-1-5-Peak-to-peak volts: 0-2.8-14-28-140-280-700 (read on 0-1400 scale). Ohms: 0-1000-10,000-100,000. Megohms: 0-1-100-1000. Freq. range: AC-RF: 15 cps to 110 mc at 30%. Size: 3-3/4"x5-1/2"x7-1/2". With tubes and battery. 110 VAC, 60 cy. Sh. wt. 8 lbs.

115A154, Net. 87.71

115A157, (Leather Carrying Case) Net. 9.31

115A158, (HV Probe) 14.21. 115A159, 45° stand. 4.49

B Triplet Load-Check Model 660. Combination Wattmeter-Voltmeter. Services by power consumption measurements, long proven by auto-radio servicemen as a rapid method of localizing troubles in auto radios. Locates shorts easy and quick. Just plug power cord of chassis into the Load-Check (no loose ends to connect or be in the way). Also makes easy replacing burned out resistors. Ranges: AC-DC watts—0-500-1000; AC-DC volts—0-130. Size: 6x5x2 1/4". Sh. wt. 5 lbs.

115A155, Net. 28.91

C Precision VTVM Model 88. Compact, wide range for modern electronic circuit checking. Many advanced features. Six true-zero-center DC voltage ranges: 0-±1.2-±6-±12-±60-±300-±1200 volts. Six + and six - DC voltage ranges: 0-1.2-6-12-60-300-1200 volts. Six high impedance RMS AC voltage ranges: 0-1.2-6-12-60-300-1200 volts. Six high impedance peak-to-peak AC voltage ranges: 0-3.2-16-32-160-800-3200 volts. Five electronic ohmmeter ranges: 0-1000-10,000 ohms. 0-1-100-1000 megohms. Peak-to-peak "re-set" push-button for rapid "zero" return of special, electronically damped test circuit. Extra-large 5 1/2" meter. 1% multipliers and shunts. Custom-moulded phenolic case and panel. Complete with battery, coaxial VTVM probe and instructions. Size: 5-3/8x7x3-1/8". Shpg. wt. 7 lbs.

115B025, Net. 68.35

RF-10A. High frequency vacuum tube probe for use with Model 88 above. Shpg. wt. 2 lbs.

115A032, Net. 14.11

D Precision Multi-Range Test Set Model 120. 44 ranges. Extra-large 5 1/2" meter with full 4 1/2" window for greater flexibility. 18-position, positive-detenting, master range selector with low resistance, dependable, silver-plated contacts. 8 DC voltage ranges: 20,000 ohms per volt. 0-1.2-3-12-60-300-600-1200-6000 volts. 8 AC voltage ranges: 5000 ohms per volt. 0-1.2-3-12-60-300-600-1200-6000 V. 8 AC output ranges: same as VAC ranges. 7 DC current ranges: 0-60-300 microamperes. 0-1.2-12-120-600 ma. 0-12 amps. 5 resistance ranges: self-contained batteries. 0-200-2000-200,000 ohms. 0-2-20 megohms. 8 decibel ranges: from minus 20 to plus 77 db. 0 db = 1 milliwatt, 600 ohms. Complete with batteries, test leads and operating manual. Size: 5-3/8x7x3-1/8". Sh. wt. 8 lbs.

115B026, Net. 39.15

E Precision 5" Oscilloscope Model ES-520. Push-Pull vertical drive. 20 mv. per inch sensitivity. 3-Step, frequency-compensated, vertical input attenuator. Vertical frequency response 20 cycles to 500 Kc. within 2 DB. 1 volt, peak-to-peak, built-in vertical voltage calibrator. Excellent vertical square wave response from 20 cycles to 50 Kc. Push-pull horizontal drive. 50 mv. per inch sensitivity. "H" frequency response 20 cps. to 200 Kc. within 3 DB. (at full gain). Internal linear sweep 10 cycles to 30 Kc. Neg. and pos. sweep synch. Built-in 60 cycle sine-sweep phasing control. Beam modulation input terminal at front of panel. All 4 deflection plates directly accessible at rear. Size: 8 1/4x14 1/2x16 1/2". With tubes, including SUP1 CR tube. Sh. wt. 30 lbs.

115B029, Net. 127.50

F Precision Signal Generator Model E-200-C. Excellent for all AM, FM, and TV receivers. Covers 88 kc to 120 mc on 8 bands. Fundamentals: 88 kc to 30 mc. 1% accuracy. Uses ECO circuit. Outputs: Unmodulated RF, 400 cycle modulated RF, externally modulated RF, (AM or FM) and 400-cycle audio output. 6 1/2" direct reading dial. Supplies 0-volts AVC-AGC voltage. With coaxial cable, dual Low-High cable connectors, all tubes and 103 page book, "Servicing by Signal Substitution". Portable steel case. 12x10 1/2x6 1/2". Operates from 110-120 volts. 50-60 cy. Sh. wt. 17 lbs.

115A027, Net. 82.50

E-200-C Deluxe Model. Same as above except housed in blue-grey, ripple-toned finished cabinet. 17 lbs.

115B028, Net. 88.00

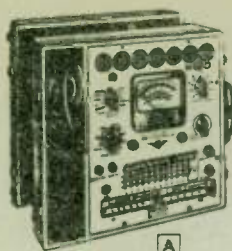
G Cornell-Dubilier Capacitor Checker Model BF-90. Checks capacitors from 30 mmd. to 2000 mfd. for open circuited, short circuited or intermittent conditions without removing them from the circuit even though they be connected in parallel with a resistance as low as 50 ohms. Checks capacitors from 0.1 mfd. to 2000 mfd. for short circuited or intermittent circuit conditions even though they be connected in parallel with resistances as low as 1 ohm. An oscillator circuit operating at a frequency of approximately 20 megacycles and incorporating an electron-ray indicator tube is employed. Portable. Size: 5 1/2" Deep x 7" High x 10" Wide. With tubes. 110-125 VAC, 50-60 cycles. Sh. wt. 7 1/2 lbs.

114A068, Net. 33.81

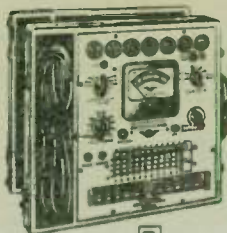
H C-D Capacitor-Resistor Bridge Model BF-60. Quickly and accurately measures important characteristics of all types capacitors and resistors. Detects defects of capacitors such as shorts, opens, intermittents. Checks power factor of electrolytics. Checks capacities from .00001 to 1000 mfd. in 4 ranges—.00001-.005, .001-.5, 1-50.0, 20.0-1000 mfd. 2 resistance scale ranges: 100 ohms to 50,000, 10,000 ohms to 5 megohms. Self-contained power supply. Size: 7x5 1/2x10". Sh. wt. 14 lbs.

114B067, Net. 41.99

POPULAR TEST EQUIPMENT



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A RCP Servishop Model 8873 A. An up-to-date tube tester for testing and rejuvenating Cathode Ray Tubes as well as testing all modern, miniature, novol base and sub-miniature tubes. Speedy Rolindex Tube Chart. A complete 17 range VTVM (25 megohm input impedance). Check AC and DC volts with negligible loading of circuit. Measures ohms from .2 to 1000 megohms. Includes High Voltage probe. The signal generator is a fixed frequency AM, FM generator and audio oscillator. Complete with tubes, batteries, leads. Housed in beautifully finished oak portable case, ready to operate on 50-60 cycle. 105 to 125 VAC. Size: 16½x12½x5¼". Shpg. wt. 20 lbs. 115B053, Net. 139.95

B RCP Tube and Battery Tester Model 324P. Sockets for all standard 4, 5, 6, 7, octal, locast, miniature and sub-miniatures are provided. Tests transmitting, hearing aid, ballast, pilot light, gaseous rectifiers and tuning indicator types. All readings are indicated on a large easily read meter. Checks all magnetic deflection type Cathode Ray Tubes right in the set or carton. Will locate and isolate all shorts or leaks. Tests popular portable battery types under load. Indicates true condition of battery under check. Also has CRT reactivator. Combination portable-counter model. Size: 16½x14½x5". Sh. wt. 14 lbs. 115A056, Net. 79.50

C TV Signal Generator Model 750. Completely covered in one instrument—Signal, Marker, Pattern generator for UHF and VHF. Can check and test alignment of front ends, IF's, sound and pix traps, linearity, syncs, sweeps, positioning, focus and deflection. Designed for portable or bench use. Inductotuner insures accuracy of within ½ of 1% over the entire range of 9 Mc to 900 Mc. All VHF frequencies are on fundamentals. RF's and IF's are clearly calibrated on a large etched aluminum dial. Steady horizontal bass, vertical bars and crosshatch pattern individually produced on all channels. Bands: 9-11 Mc, 21-47 Mc, 54-220 Mc, 465-690 Mc, 650-900 Mc. Modulation: 360 cycles and 141.75 Kc internal modulation has been provided—unmodulated carrier signal is also available. Size: 10½x6½x5-9/16". Sh. wt. 10 lbs. 115A057, Net. 79.50

D RCP TV Generator Model 740 A. The only single, easily portable instrument that provides for alignment of Front ends, IF's, Horizontal, linearity, Vertical linearity, Picture size, Picture position, Focus coil, Ion Trap. Range: 9 megacycles to 220 megacycles with skips. All Fundamentals—Bands 9-11 megacycles, 21-47, and 54 to 220 megacycles. Audio output: Both 540 cycles and 220.5 KC are available. Attenuation: Complete variation through 200 ohm control. Dial continuously calibrated through 300°. Sh. wt. 9 lbs. 115A055, Net. 69.50

E RCP Electronic Sweep Generator Model 780. Compatible for color and black & white TV. Electronically regulated Power-Supply—individual push button additive attenuator—thoroughly shielded 0 DB-78 DB. Detector Comparator output permits constant monitoring of sweep signal and comparison of sweep output on any oscilloscope. Range—3.2 mc. to 900 mc. Provides for marker or external color dot or bar insertion. For 105-125 V., 50-60 cy. Size: 9½x9½x2½". Shpg. wt. 16½ lbs. 115B051, Net. 189.50

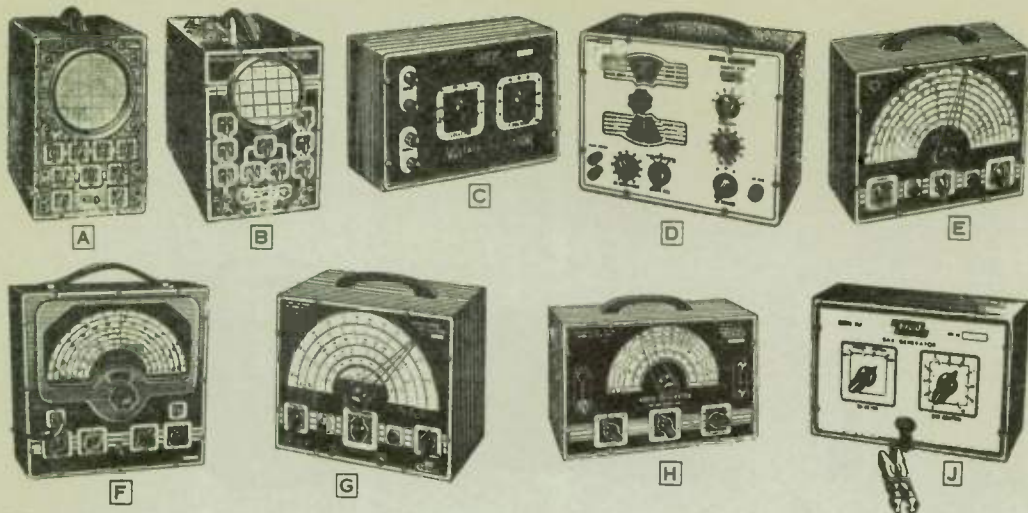
F RCP Multitester Model 480. A rugged universal tester that is a must for every lab and shop as well as a serviceman's kit. 3" square meter 800 microampere D'Arsonval movement, giving 1000 ohms per volt sensitivity on DC and AC is used. Excellent rectifier characteristics. Ranges: DC volts: 0-5-50-250-500-1000. AC volts: 0-10-100-500-1000. Output volts: 0-10-100-500-1000. DC milliamperes: 1-10-100-1000. Ohmmeter: 0-10,000 ohms-100,000 ohms-1 megohm and 1-megohm external. DB meter: -10 to +55db. Size: 7x4-3/8x2-5/16". Complete with battery. Sh. wt. 2½ lbs. 115A058, Net. 14.85

G RCP Flybacker Model 123. Accurately and speedily trouble-shoots horizontal circuits of all TV receivers in the shop or in the home. Extremely sensitive and immediately shows up a single shorted turn in a flyback transformer or yoke. These tests are applicable to inductive windings on any transformer, choke speaker, solenoid, relays, etc., where the impedance is not relatively low. 3 "Good Bad" scales. Operates at approximately 155 cy. freq. with an interruption freq. of 60 cycles. Complete with test leads, alligator clips and tube and instructions. Operates on 105-125 VAC, 60 cy. Size 6x9-3/8x4¼". Shpg. wt. 8 lbs. 115B054, Net. 39.75

H Amprobe Jr. Snap-Around Volt-Ammeter. Designed to fill a specific job at low cost. This tool now makes it possible for every man who formerly carried an ordinary voltage tester to work with much greater accuracy, and with the added convenience of a real snap-around ammeter. Comes complete with voltage test leads. Conductor capacity: 1/2". Size: Body; 2-1/2" wide, 4-3/4" long, 1-3/8" thick. Scale length: 1.8 inches. Sh. wt. 1 lb.
Model 500. 1 ammeter range: 0-100 amps AC. 2 volt-meter ranges: 0-150/600 volts AC. 114B057, Net. 19.85
Model 525. 1 ammeter range: 0-25 amps AC. 2 volt-meter ranges: 0-150/600 volts AC. 114B058, Net. 19.85
Model 550. 1 ammeter range: 0-50 amps AC. 2 volt-meter ranges: 0-150/600 volts AC. 114B059, Net. 19.85

GET A GOOD DEAL FROM LEO ON YOUR PRESENT TEST EQUIPMENT

EICO TEST EQUIPMENT



A Push-Pull Oscilloscope Model 470. Frequency response: Vert. Ampl. Flat plus-minus 2 db 10 cps to 1 mc. Horizontal Ampl. — 10 cps to 500 kc. Sensitivity: Vert. — .01 volts rms-per inch. Horizontal Ampl. — .3 volts rms per inch. Wide range of gain control without frequency distortion in both amplifiers. Wide range, multivibrator type, sweep frequency generator—15 cps to 100 kc. Balanced and linear sweep. Internal voltage calibrator for peak-to-peak voltage measurement. Phasing control of internal line frequency sine sweep. Selection of positive or negative internal, external, or line sync. Intensity modulation, external sync inputs; sawtooth and line freq. outputs—all on front panel. Sh. wt. 35 lbs.

114AF015, (Kit) Net. 79.95
114AF104, (Wired) Net. 129.50

B 5" Push-Pull Oscilloscope Model 425. For precise servicing of TV, FM and AM sets. Push-pull undistorted vertical and horizontal amplifiers. Boosted sensitivity. .05 to .1 RMS-volts/inch. Useful to 2.5 Mc. TV-type multivibrator sweep circuits. 15 cps—75 Kc. Z-axis intensity modulation feature. Dual positioning controls move trace anywhere on screen. Complete with 2-6J5, 3-6SN7, 2-5Y3, 5BP1-CRT. 3-color etched rubproof panel; steel case. 115 V. 60 cy. AC. 8½x17x13". Sh. wt. 30 lbs.

114AF026, (Kit) Net. 44.95
114A105, (Wired) Net. 79.95

C Oscilloscope Voltage Calibrator Model 495. Square wave output at power-line frequency with full scale readings of .1, 1, 10 or 100 volts peak-to-peak. Amplitude is variable from zero on each range. Accuracy of output reading dial plus-minus 5% of full scale on each range. Four direct signal positions on range selector, facilitate switching from observation of unknown signal to calibrated signal. 3 tubes. For 105-125 VAC, 50-60 cy. Power consumption 5 watts. 7-5/8x5¼x4". Sh. wt. 4 lbs.

114B041, (Kit) Net. 12.95
114A095, (Wired) Net. 17.95

D Signal Generator Model 324. Expanded frequency range: 6 fundamental bands: 150-400 Kc., 400-1200 Kc., 1.2-3.5 mc., 3.5-11 mc., 11-37 mc., 37-145 mc., 1 harmonic band 111 mc.-435 mc. ±1.5% frequency accuracy; 6:1 vernier tuning knob & excellent spread at most important alignment frequencies. Variable depth of int. mod. 0 to 50% by 400 cps. Colpitts osc. Variable gain ext. mod. ampl.; approx. 3 V. for 30% modulation. Turret-mounted, slug-tuned coils. Fine and coarse (3-step) RF attenuators; 50-ohm output 100,000 uv; AF output to 10 V. With shielded output cable. Size: 8x10x4½". Sh. wt. 12 lbs.

114A035, (Kit) Net. 26.95
114A034, (Wired) Net. 39.95

E Signal Generator Model 320. For FM-AM precision alignment and TV marker frequencies. Vernier Tuning Condenser. Highly stable RF oscillator, range: 150 Kc.—102Mc. with fundamentals to 34 Mc. Separate audio oscillator supplies 400-cycle pure sine wave voltage. Pure RF, modulated RF or pure AF for external testing. Attractive three-color etched rub-proof panel; rugged hammerstone steel case. 115 V., 60 cy. AC. 10x8x4½". Sh. wt. 10 lbs.

114A023, (Kit) Net. 19.95
114A100, (Wired) Net. 29.95

F Signal Generator Model 315. A laboratory-precision EICO Service-Engineered with 1% accuracy. Extremely stable, frequency 75 Kc.—150Mc. in 7 calibrated ranges. Illuminated hairline vernier tuning. VR stabilized line supply. 400-cycle pure sine wave with less than 5% distortion. Tube complement: 6X5, 7F7, 6C4, VR-150. 3-color etched panel; rugged steel case. 115 V., 60 cy. AC. 12x13x7". Sh. wt. 10 lbs.

114A022, (Kit) Net. 39.95
114A101, (Wired) Net. 59.95

G Sweep Generator Model 360. Covers all TV-FM alignment frequencies, 500 Kc.—228 Mc. Vernier driven dial, center of each of 13 TV channels marked on front panel. Sweep-width variable 0-30 Mc. with mechanical inductive sweep—permits gain comparison of an adjacent RF TV channel. Crystal marker oscillator, variable amplitude. Provides for injection of external marker. Phasing control. Complete with HF tubes: 6X5GT, 12AU7 (dual-triode), 2-6C4. Less crystal. 10x8x6½". Sh. wt. 12 lbs.

114A025, (Kit) Net. 34.95
114A102, (Wired) Net. 49.95
114A036, (5 Mc. crystal for above). 3.95

H Sine and Sq. Wave Audio Generator Model 377. Sine wave coverage from 20-200,000 cycles in 4 ranges individually calibrated on panel. Large 4-gang tuning condenser for increased accuracy and wider frequency coverage across each of the 4 calibrated bands. Continuously variable power output: 100 mw. into rated load (10 volts across 1000 ohm load). 5 tubes. Power supply rating: 115 V., 50-60 cy. 50 W. Sh. wt. 20 lbs.

114A038, (Kit) Net. 31.95
114A103, (Wired) Net. 49.95

J Elco Bar Generator Model 352. Reliable, accurate, portable, easy-to-use—a wonderful time saver. Operates on channels 2-6, 16-23 vertical bars (int. adj.) to check horizontal linearity. 13-22 horizontal bars (panel adj.) to check vertical linearity. Shows picture size and V&H sync circuit stability. Output: 400,000 uv. Connects to antenna terminals of any set with special antenna clip. Entirely independent of station-transmitted signals. Very useful for TV service work when all stations are off the air. 7½x4½x5" high. Sh. wt. 6 lbs.

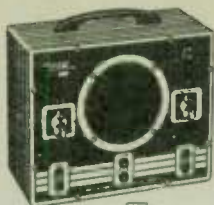
114A001, (Kit) Net. 14.95
114A117, (Wired) Net. 19.95

SEE PAGE 63 FOR EICO SCOPE PROBES

EICO TEST EQUIPMENT



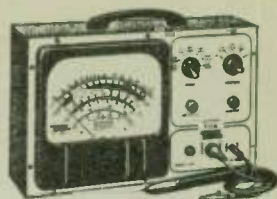
A



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J

A Deluxe Signal Tracer Model 147. New 5-tube, transformer-operated instrument. Permits direct observation of actual transmitted signal. Ideal for TV, FM, and AM circuit troubleshooting. Low gain audio channel for all audio circuit investigation. Visual and aural monitoring of both RF and AF channels with electron-ray tube and 5" speaker. Seven 5-way binding posts on panel for connection as test speaker, amplifier, or output transformer, and connection to VTVM or oscilloscope. One fully shielded probe and ground lead serves for all RF, audio, and noise tracing to eliminate probe-changing and lead tangle. Size: 9x10x5". Sh. wt. 10 lbs.
114A005, (Kit) Net. 24.95
114A121, (Wired) Net. 39.95

B Multi-Signal Tracer Model 145. Highest gain and flexibility in low-cost field. Audibly traces all IF, RF, Video and Audio from ANT to SPKR or CRT without switching. Response well over 200 Mc. Integral test speaker. Provision for visual tracing with VT-VM. Complete with 6SJ7, 6K6, 6X5. Germanium crystal diode. 3-color etched panel; rugged steel case. 115 V., 60 cy. AC 10x8x4 1/2". Sh. wt. 9 lbs.
114A020, (Kit) Net. 19.95
114A096, (Wired) Net. 28.95

C Peak-To-Peak VTVM Model 232. Measures direct P-P voltage of complex and sine waves: 0-4, 14, 42, 420, 1400, 4200 volts. P-P. DC/RMS sine voltage ranges: 0-1.5, 5, 15, 50, 150, 500, 1500 volts. Reads up to 30,000 V. with HVP probe. Resistance ranges: 0.2 ohms to 1000 meg in 7 ranges. 7 non-skip ranges on every function. 4 functions: + DC volts, - DC volts, AC volts, Ohms. Large 4 1/2" meter in can't-burn-out circuit. Zero-center for TV-FM discriminator alignment. Freq. response: 30 cps.-3 Mc. (up to 250 Mc. with PRF probe). Compact in size and smart styling. Size: 7x5x4". Complete with dual-purpose AC-DC Uni-Probe. Sh. wt. 7 lbs.
114A003, (Kit) Net. 29.95
114A119, (Wired) Net. 49.95

D Peak-To-Peak VTVM Model 249. Same features as the model 232 except has large 7 1/2" meter. Sh. wt. 9 lbs.
114A004, (Kit) Net. 39.95
114A120, (Wired) Net. 59.95

E Vacuum Tube Voltmeter Model 221. 15 different ranges, large 4 1/2" meter, zero center for TV and FM discriminator alignment. Electronic AC-DC ranges: 0.5, 10, 100, 500, 1000 V. (30000 V. and 200 Mc. with HVP and PRF probes). Ohmmeter ranges: .2 ohms to 1000 meg. DB scale. New bridge circuit. 26 meg input impedance. 3-color etched rubproof panel; steel case. 115 V., 60 cy. AC. 5x6x9-7/16". Sh. wt. 10 lbs.
114A021, (221-Kit) Net. 25.95
114A098, (221 Wired) Net. 39.95

F Vacuum Tube Voltmeter Model 214. Features include: 15 ranges; large 7 1/4" meter; rugged meter movement: 1% multiplier resistors; AC/DC ranges: 0-5, 10, 100, 500, 1000 V. (30 KV with HVP-1 probe). Measures up to 200 Mc. with PRF probe. 5 ohms ranges from .2 ohms to 1000 meg. DB scale. Double-triode balanced bridge circuit. 26 meg DC input impedance. Tubes 6SN7, 6H6, 6X5. 3-color rubproof panel; steel case. 110-130 V., 50-60 cy. 13 1/4x9x6". Sh. wt. 11 lbs.
114A037, (214-Kit) Net. 34.95
114A099, (214-Wired) Net. 54.95

G Multimeter Model 536. 31 different full scale ranges. DC/AC volts: 0 to 1, 5, 10, 50, 100, 500, 5000. DC/AC current: 0-1 ma., 10 ma.; 0.1 A. 1 A. Ohms: 0-500, 100 K, 1 meg. 6 DB ranges: -20 to +69. Large 3" 400 ua. meter movement. Low minimum battery-drain ohm ranges. Dual rectifier has separate low and high voltage calibration in AC ranges. High-impact bakelite case. 6 1/2x3 1/2x2". Sh. wt. 2 lbs.
114A016, (Kit) Net. 12.90
114A113, (Wired) Net. 14.90

H Multimeter Model 526. As above except with 1% precision resistors. Sh. wt. 2 lbs.
114A028, (Kit) Net. 13.90
114A114, (Wired) Net. 16.90

I Multimeter Model 566. 1000 ohms/volt multimeter. 38 different full scale ranges. DC/AC output volts: 0-1, 5, 10, 50, 100, 500, 5000. DC/AC current: 0-1 ma., 10 ma., 0.1 amp, 1 amp. Ohms: 0-500, 100K, 1 meg. 6 DB ranges: -20 to +69. Large 4 1/2" 400 ua meter movement. Low minimum battery-drain ohm ranges. Dual rectifier has separate low and high voltage calibration in AC ranges. 6 1/2x5 1/2x3". Shpg. wt. 3 lbs.
114A019, (Kit) Net. 14.90
114A111, (Wired) Net. 18.95

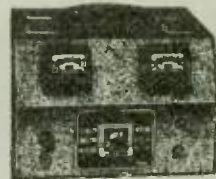
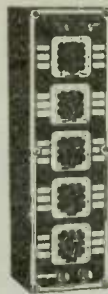
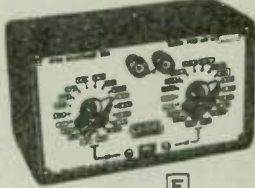
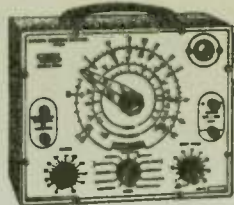
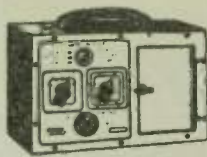
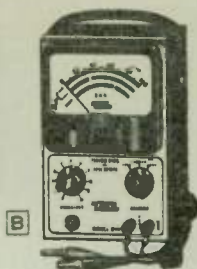
J Multimeter Model 556. Same as Model 566 except with 1% precision resistors. Sh. wt. 3 lbs.
114A017, (Kit) Net. 16.90
114A112, (Wired) Net. 23.50

J Multimeter Model 565. 20,000 ohm-volt multimeter featuring the greatest ranges, accuracy and ruggedness of construction for its types in the electronics industry. 31 different full scale ranges. DC/AC output volts: 0-2.5, 10, 50, 250, 1000, 5000. DC current: 0-100 ua. 10 ma., 100 ma., 500 ma.; 10 A. Ohms: 0-2000, 200K, 20 meg. 5 DB ranges: -12 to +55. Large 4 1/2" 50 ua. mtr. movement. Hand-calibrated and tested rectifier. High-impact bakelite case. Size: 6 1/2x5 1/2x3". Sh. wt. 3 lbs.
114A018, (565-Kit) Net. 24.95
114A109, (565-Wired) Net. 29.95
Multimeter Model 555. Same as Model 565 except with 1% precision resistors. Sh. wt. 3 lbs.
114A029, (Kit) Net. 29.95
114A110, (Wired) Net. 34.95

SEE PAGE 63 FOR EICO VTVM PROBES

GET A GOOD DEAL FROM LEO ON YOUR PRESENT TEST EQUIPMENT

EICO TEST EQUIPMENT



A Tube Tester Model 625. Tests conventional and TV tubes including 9-pin miniatures. Large $4\frac{1}{2}''$ meter. New lever action switches, tests every tube element. Illuminated "Speed Roll Chart". 2 grid caps. Short and open-element tests. Spare socket for new tubes. Protective overload bulb. Electronic rectifier. $12\frac{1}{2} \times 9\frac{1}{2} \times 4\frac{1}{2}''$. Sh. wt. 14 lbs.

114A030, (Kit) Net. 34.95
114A115, (Wired) Net. 49.95

Model 625 CK. With counter display case.
114A008, (Kit) 44.95 114A093, (Wired). 59.95
TV Picture Tube Test Adapter—CRA. For use with Model 625. Gives a quantitative measurement of Cathode emission, and tests for filament continuity and shorts between elements. With 12-pin tube socket, octal connector and 4 ft. cable. Sh. wt. 2 lbs.
114A039, Net. 4.50

B Flyback and Yoke Tester Model 944. Positive check of all types flyback and yokes, in or out of set—in just seconds. Operates on the extremely sensitive grid-dip principle—shows up even 1 shorted turn. Exclusive separate calibration for air core and iron core flybacks for accurate testing of all types. Checks any induct, whose impedance is not too low. 3 separate colored scales. Tests continuity of yokes, coils, speakers, switches, etc. Large $4\frac{1}{2}''$ meter. Size $7 \times 5 \times 4''$. Attractive styling. Sh. wt. 5 lbs.

114B027, (Kit) Net. 23.95
114A094, (Wired) Net. 34.95

C Elco Cathode Ray Tube Checker Model 630. Easy, fast, reliable testing of all types and sizes of TV picture and scope type CR tubes—in set or carton. Bridge measurement of peak beam current (proportional to screen brightness) using neon lamp as sensitive balance indicator. Balancing control calibrated directly in terms of tube condition. Detects open and shorted elements. Size: $3 \times 6 \frac{1}{2} \times 9 \frac{1}{2}''$ high. Sh. wt. 8 lbs.

114A002, (Kit) Net. 17.95
114A118, (Wired) Net. 24.95

D Bridge and R-C-L Comparator Model 950. Measures and tests all resistors from 0.5 ohms to 500 meg ohms; and every type condenser, 10 mfd. to 5000 mfd. Special built-in Precision Comparator Range. Exceptional wide range of 400:1. Bridge-type circuit. 110 V.—60 cy. transformer and rectifier. Rugged steel case. $10 \times 8 \times 4\frac{1}{2}''$. Sh. wt. 10 lbs.

114A031, (950K, Kit) Net. 19.95
114A097, (950 Wired) Net. 29.95

E Electronic Switch Model 488. Simultaneously observe 2 patterns on 1 scope: compare voltage and current amplitudes, waveforms freqs. and phase relationships; set up voltage reference level or zero base line; check amplifier distortion. Continuously variable switching rates from less than 10 cps. to over 2000 cps. Useful as sq. wave gen. over same range. Size: $6 \times 8 \times 6\frac{1}{2}''$. Sh. wt. 7 lbs.

114A006, (Kit) Net. 23.95
114A122, (Wired) Net. 39.95

F RTMA Resistance Substitution Box Model 1100. Enables rapid substitution of wide range of RTMA resistance values from 15 ohms to 10 megohms in decade multiples of 15, 22, 33, 47, 68, 100 ohms. Uses standard 1 W., $\pm 10\%$ RTMA resistors. $3\frac{1}{2} \times 6\frac{1}{2} \times 3\frac{1}{2}''$. Sh. wt. 3 lbs.

114B035, (Kit) Net. 5.50
114A116, (Wired) Net. 9.95

G RETMA Capacitance Substitution Box Model 1120. Enables rapid substitution of a wide range of RETMA capacitance values from 0.0001 to 0.22 mfd. in 18 steps to determine value needed for optimum performance and to find the value of badly damaged or illegible capacitors. Minimum accuracy $\pm 10\%$. Uses silver-mica and molded plastic capacitors, most rated at 600 volts. Convenient 5-way, jack-top binding posts. Sh. wt. 3 lbs.

114B043, (Kit) Net. 5.95
114A092, (Wired) Net. 9.95

H Decade Resistance Box Model 1171. Exceptionally accurate, wide-range versatile instrument. Supplies resistance values from 0 to 99,999 ohms with $\frac{1}{2}\%$ precision. Has 5 separate switches, with 10 positions on each. All resistors have $\frac{1}{2}\%$ accuracy. Sturdy steel case. Size: $3\frac{1}{2} \times 12 \times 3''$. Sh. wt. $4\frac{1}{2}$ lbs.

114A007, (Kit) Net. 19.95
114A123, (Wired) Net. 24.95

H Decade Condenser Box Model 1180. Precision silver-mica capacitors (plus-minus 1% accuracy, 500 VDC rated) arranged in 3 decades for extremely wide range of 100 mmf. to 0.111 mf. in steps of 100 mmf. Positive detent ceramic wafer switches, silver-plated contacts. Size: $9 \times 3\frac{1}{2} \times 3\frac{1}{2}''$. Sh. wt. $4\frac{1}{2}$ lbs.

114C042, (Kit) Net. 14.95
114A108, (Wired) Net. 19.95

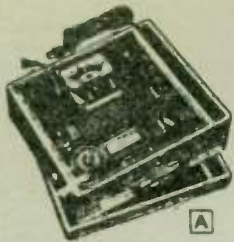
J Eliminator, Charger and Booster Model 1040. For all auto radio testing. Full-wave bridge circuit, 4-stack manganese copper-oxide rectifiers. Specially designed transformer, variable from 0 to 15 Volts. Continuous: 5-8 V., 10 amps. Intermittent: 20 amps. 10,000 mfd. filter condenser. Meter measures current and voltage output. Steel case. 115 V., 60 cycle AC. $10\frac{1}{2} \times 7\frac{1}{2} \times 8\frac{1}{2}''$. Sh. wt. 15 lbs.

114A032, (Kit) Net. 25.95
114A107, (Wired) Net. 34.95

J 6 And 12 Volt Battery Eliminator Model 1050. DC output: 0-8 V. or 0-16 V. Current rating: continuous—10 A. at 6 V., 6 A. at 12 V. Intermittent—20 A. at 6 V., 12 A. at 12 V. Two meters 0-20 V., 0-20 A. Continuous voltage adjustment with Variac-type transformer. 6 V.—12 V. toggle switch. For 105-125 VAC, 50-60 cy. Power consumption 150 watts. Size: $10\frac{1}{2} \times 7\frac{1}{2} \times 8\frac{1}{2}''$. Sh. wt. 15 lbs.

114B040, (Kit) Net. 29.95
114A106, (Wired) Net. 38.95

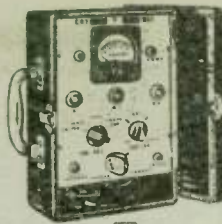
POPULAR TEST EQUIPMENT



A



C



E



G



B



D



F



H

A Superior Tube Tester Model TV-11. Checks all types of receiving tubes, FM, and TV miniature, sub-miniature and novals. Shows shorts and leakages up to 5 meg. Built-in Roll chart. Uses new self-clearing lever action switches for individual element testing. Oak cabinet. 11½x13x6". Shpg. wt. is 15 lbs. 115A122, Net. 47.50

B New Superior Super-Meter Model 670-A. Includes a special Good-Bad scale for checking electrolytic condensers at a test potential of 150 watts. Specifications—VDC: 0-7.5/15/75/150/750/1500/7500. VAC: 0-15/30/150/300/1500/3000. Output volts same as VAC. DC current: 0-1.5/15/150 ma., 0-1.5/15 amps. Resistance: 0-1000/100,000 ohms, 0-10 megs. Capacity: .001-1 mfd., 1-50 mfd. Reactance: 50-2500 ohms, 2500 ohms-2.5 megs. Inductance: .15 to 7 henries, 7 to 7000 henries. Decibels: minus 6 to plus 58 in 3 ranges. With test leads and instructions. 6½x9½x4½". Sh. wt. 5 lbs. 115B120, Net. 28.40

C Superior Volt-Ohm Milliammeter Model 770A. Compact—measures 3-1/8x5-7/8x2¼". Uses full view 2% accurate, 850 microampere D'Arsonval type meter. 6 AC voltage ranges: 0-15/30/150/300/1500/3000. 6 DC voltage ranges: 0-7.5/15/75/150/750/1500. 2 resistance ranges: 0-10,000 ohms, 0-1 megohm. 3 DC current ranges: 0-15/150 ma., 0-1.5 amps. 3 decimal ranges: minus 6 db to plus 18, plus 14, plus 38, plus 34 db to plus 58 db. Complete with self-contained batteries, test leads and instructions. Shpg. wt. 2½ lbs. 115B121, Net. 15.85

D Elco Probes for VTVM's and Scopes. Features include: Fully shielded, shock-mounted terminal board, swivel action, all parts accessible, color coded. Average sh. wt. 1½ lbs.

Cat. No.	Type	Probe Descript.	Net
75A012	PSD Kit	Scope Demodulator	3.75
75A013	PSD Wired	Scope Demodulator	5.75
75A014	PLC Kit	Low Capacity	3.75
75A015	PLC Wired	Low Capacity	5.75
75A016	PD Kit	Direct	2.75
75A017	PD Wired	Direct	3.95
75A018	PRF-11 Kit	VTVM-RF 11 meg.	3.75
75A019	PRF-11 Wired	VTVM-RF 11 meg.	4.95
75A022	PRF-25 Kit	VTVM-RF 25 meg.	3.75
75A023	PRF-25 Wired	VTVM-RF 25 meg.	4.95
75A020	PTP-11 Kit	Peak-to-Peak 11 meg.	4.95
75A021	PTP-11 Wired	Peak-to-Peak 11 meg.	6.95
75A024	PTP-25 Kit	Peak-to-Peak 25 meg.	4.95
75A025	PTP-25 Wired	Peak-to-Peak 25 meg.	6.95
114B053	HVP-1 Wired	H-V Probe	6.95
114B054	HVP-2 Wired	H-V Probe	4.95

E B&K Cathode Rejuvenator Tester. Tests picture tube for all important factors. Checks for continuity between base pins and the elements of the tube; for shorts or leakage between elements in the tube (up to several megohms). Indicates exactly which elements are shorted together. Checks for amount of cathode emission and grid bias necessary to cut the tube off. Repairs most common troubles that arise in television picture tubes—removes shorts between elements, repairs open connections to elements and low emission—reactivates cathode of picture tube and restores emission. Checks gas content and also predicts the probable useful life expectancy of picture tube. Portable and simple to operate. Size: 11x7½x5". With 6X4, selenium rectifier, cord and plug. Durable carrying case. Sh. wt. 7 lbs. 115C002, Net. 53.85

F Teletest Rejuvenator Model RT-203. Combination CRT tester and rejuvenator. Checks CRT for interelement shorts in both hot and cold conditions. Removes contamination from surface of the cathode. Corrects gassy (soft) picture tubes. Reactivates cathode. Restores normal CRT performance in 75% of cases. Test CRT right in the home to save time. Sh. wt. 5 lbs. 115A007, Net. 49.95

F Teletest Flyback Tester Model FT-100. Teletest flyback tester is 100% accurate. Checks not only continuity but tests yokes, width coils and linearity coils for shorted turns. Checks flybacks under full operating voltage without danger of shock. Needs no reference flyback. Tests color flybacks without a reference unit. Requires no calibration adjustment. Saves time and money. Sh. wt. 5 lbs. 115A008, Net. 44.95

G Seco Tube Tester Model GCT-5. Easily portable. Developed to detect positive grid condition in RF and IF tubes in critical TV circuits in the AGC chain. Video and Sync tubes can also be checked. Makes 4-way check without use of a selector switch: 1-Control Grid emission. 2-Grid to Cathode shorts. 3-Gaseous condition in tube. 4-Cathode to Heater shorts. Tracks down poor picture contrast; vertical jitter or bounce; grainy picture, sync buzz in sound; twisting, bending or pulling of picture and all symptoms caused by sync pulse compression. Sh. wt. 5 lbs. 115C005, Net. 29.35

H Seco Flyback Checker Model FB-4. Operates on very sensitive Q meter principle. No calibration procedure necessary. Transformers, yokes and other inductances can be checked for inductance by comparison method. Shows up a single shorted turn. Not necessary to disconnect unit under test. Reveals horizontal circuit troubles. Eliminates substitution checking. Sh. wt. 6 lbs. 115B021, Net. 38.17

GET A GOOD TRADE-IN DEAL FROM LEO ON YOUR PRESENT TEST EQUIPMENT

World Radio History

IRC CONTROLS — ACCESSORIES



STANDARD AND TAPPED "Q" CONTROLS

Controls are knurled, flattened and slotted to fit most knob requirements. Diameter: 15/16", bushing: 1/4", shaft: 3" long. *Includes 270 ohm 1/2 w. wire-wound resistor. Less switch. Taper is explained in "Explanation of Tapers". Average shipping weight is 3 oz.

STANDARD "Q" CONTROLS

Cat. No.	Type	Ohms	Taper
4B110	Q11-201	250	A
4A001	Q11-103	500	A
4B111	Q11-105	750	A (rev)
4B112	Q17-105	750	B
4A002	Q11-108	1000	A
4B113	Q17-108	1000	B (rev)
4B114	Q11-109	1500	A
4B115	Q17-109	1500	C (rev)
4A003	Q11-110	2000	A
4B116	Q11-111	2500	C
4B117	Q17-111	2500	C (rev)
4A004	Q11-112	3000	A
4B118	Q17-112	3000	C (rev)
4A005	Q11-114	5000	A
4B119	Q13-114	5000	C
4B120	Q17-114	5000	C (rev)
4A006	Q11-115	7500	A
4A007	Q11-116*	10,000	A
4A008	Q13-116	10,000	C
4A009	Q14-116*	10,000	D
4B121	Q17-116	10,000	C (rev)
4A010	Q11-119	20,000	A
4A011	Q16-119*	20,000	Spec.
4A012	Q11-120	25,000	A
4B122	Q13-120	25,000	C
4A013	Q14-120*	25,000	D
4A014	Q11-121	30,000	A
4B123	Q11-122	35,000	A
4A015	Q11-123*	50,000	A
4A016	Q13-123	50,000	C
4A017	Q14-123	50,000	D
4B124	Q11-125	75,000	A
4A018	Q11-128	100,000	A
4A019	Q13-128	100,000	C
4B125	Q11-228	125,000	A
4B126	Q13-328	150,000	C
4B127	Q11-129	200,000	A
4A020	Q11-130	250,000	A
4A021	Q13-130	250,000	C
4B128	Q11-131	300,000	A
4A025	Q13-132	350,000	C
4B129	Q17-133	500,000	C (rev)
4B130	Q11-134	600,000	A
4B131	Q11-136	750,000	A
4A028	Q11-133	1/2 meg	A
4A029	Q13-133	1/2 meg	C
4A031	Q14-133	1/2 meg	D
4A036	Q11-137	1 meg	A
4A037	Q13-137	1 meg	C
4A039	Q14-137	1 meg	D
4A046	Q11-138	1 1/2 meg	A
4A047	Q11-139	2 meg	A
4A048	Q13-139	2 meg	C
4B132	Q17-139	2 meg	A
4A055	Q11-239	2 1/2 meg	A
4A056	Q11-140	3 meg	A
4A057	Q13-140	3 meg	C
4B133	Q17-140	3 meg	C (rev)
4A058	Q11-141	5 meg	A
4B134	Q12-141	5 meg	Spec.
4B135	Q13-141	5 meg	C
4B136	Q17-141	5 meg	C (rev)
4B137	Q11-142	7.5 meg	A
4A059	Q11-143	10 meg	A
Net Each. ....			.73

TAPPED "Q" CONTROLS

Cat. No.	Type	Ohms	Tap	Taper
4B138	Q17-105X	750	250	Spec.
4B139	Q13-118XX	1500	5000/10,000	Spec.
4B140	Q17-118X	15000	5,000	Spec.
4B141	Q17-118XX	15000	5000/10,000	Spec.
4B142	Q17-326XX	150000	19,000/38,000	Spec.
4A143	Q18-130XX	250000	60,000/12,000	Spec.
4A022	Q13-130X	250000	125000	Spec.
4A023	Q18-130X	250000	60,000	H
4A026	Q17-132X	350000	35,000	Spec.
4A027	Q18-132X	350000	75,000	H
4A030	Q13-133X	1/2 meg.	125,000	H
4A032	Q17-133X	1/2 meg.	25,000	Spec.
4A033	Q18-133X	1/2 meg.	50,000	Spec.
4A034	Q19-133X	1/2 meg.	250,000	Spec.
4A035	Q18-133XX	1/2 meg.	100000/200000	Spec.
4A144	Q13-138X	1/2 meg.	250,000	Spec.
4A038	Q13-137X	1 meg.	250,000	H.
4A040	Q17-137X	1 meg.	35,000	Spec.
4A041	Q17-137XX	1 meg.	50,000/100,000	Spec.
4A042	Q18-137X	1 meg.	10,000	Spec.
4A043	Q18-137XX	1 meg.	250,000/1/2 meg.	Spec.
4A044	Q19-137X	1 meg.	1/2 meg.	Spec.
4A045	QVC-539X	1 meg.	1/2 meg.	Spec.
4B145	Q13-139XX	2 meg.	500,000/1.0 meg.	Spec.
4A049	Q13-139X	2 meg.	1/2 meg	H.
4A050	Q13-139XX	2 meg.	1/2 meg/1/2 meg	Spec.
4A051	Q17-139X	2 meg.	150,000	Spec.
4A052	Q18-139X	2 meg.	1 meg.	Spec.
4A053	Q18-139XX	2 meg.	250,000/1/2 meg.	Spec.
4A054	Q19-139X	2 meg.	50,000	Spec.
Net Each.			1.09	

EXPLANATION OF TAPERS

A — For potentiometer or rheostat where uniform resistance change is required.

B — Semi-logarithmic curve for tone control or audio circuit control.

B Reverse — Semi-logarithmic curve — reverse taper for use in contrast and picture control circuits in television.

C — Logarithmic curve for audio circuit control or antenna shunt control.

C Reverse — Semi-logarithmic curve — reverse taper for use in contrast and picture control circuits in television.

D — Tapered at both ends to provide control of grid bias and antenna circuit. Used where control of grid bias is important in controlling volume.

H — Tapped logarithmic curve for audio level control for automatic bass compensation.

IRC SWITCH—TYPE 76

Specially designed for the "Q" control. Available in two types. 76-1 is SPST, and 76-2 is DPST. Blue bakelite enclosure is precision molded. Easily and quickly attached. One piece terminal has elongated hole for convenience. Shipping weight is 2 oz.

4A064, (76-1) Net.35
4A065, (76-2) Net.35



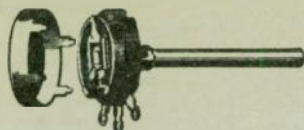
LOUDNESS CONTROL — LC-1

A continuously compensated control that boosts lows and highs as volume is decreased — maintains depth and brilliance even at whisper level. Replaces make-shift compensating units — tapped volume controls, stepped-type loudness controls, bass and treble boost circuits. Automatically maintains proper balance of all frequencies in the audio spectrum at any listening level. As easy to wire into an audio circuit as any standard 3-terminal volume control. Sh. wt. 5 oz.

4A105, Net.5.97



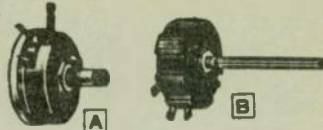
Type WQ. Special tongued shaft—
15/16" long from mtg. face, tongue
¼" wide, ½" long, .062 thick. For
Zenith TV. 4B263. Net21



Net Each 73

Net Each 1.09

Cat. No.	Type	Descript.	Net
4A060	51	SPST	.35
4A061	52	DPST	.44
4A062	53	SPDT	.44
4A063	54	3 point	.44
4A066	55	4 point	.44
4A067	+56	SPDT	.44
4A068	+57	SPST	.44



4WS. Husky, universal 4 watt wire-wound controls equipped with short, knurled and slotted shaft. Designed for replacement without shaft alteration of TV controls mounted at chassis rear or under front panel concealment. Size: dia. 1 3/4", depth behind panel 1 1/16", bushing 1/4", shaft 3". Av. sh. wt. 4 oz.

Net Each 1.18

2-watt carbon element. For use in TV receivers using picture tubes requiring electrostatic focus. With Knob Master Shaft, 2-11/64" dia. Shaft 3" long. Sh. wt. 4 oz.

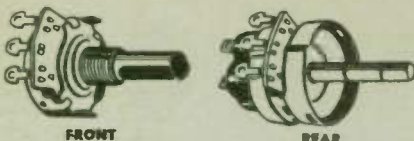
Net Each 1.76



For designing special, dual, triple and quadruple controls. Can be added to any Q, PQ, or RQ control. Duals assembled from IRC Multi-sections will accommodate type 76 switches. Sh. wt. 4 oz.

Not Each.	73
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CONTROLS — ACCESSORIES



FRONT

REAR

CENTRALAB FASTATCH CONTROLS

New replacement system for custom controls. Front and rear units snap together for quick, simple assembly. No lugs to bend, no loose parts. Cut shafts to length as required. Front units have 3/5/16" universal type hollow shaft. Rear Unit shafts .187" dia., .156" flat. Fits .187" and .202" push on knobs. Supplied with adapter spring for split knurl and slotted type knobs. Front and rear units must be purchased separately. Av. Shipping weight 4 oz.

Cat. No. Front Unit	Type	Cat. No. Rear Unit	Type	Ohms	Taps, Ohms	Taper
90A001	F1-0	.....	.....	300	.....	C1
90A002	F1-1	.....	.....	500	.....	C1
90A004	F1-2	.....	.....	750	.....	C1
90A005	F3-2	.....	.....	750	.....	C5
90A006	F1-3	.....	.....	750	500	Spec.
90A009	F1-4	90A010	R2-4	1000	.....	C1
90A011	F1-5	90A012	R2-5	1000	.....	C5
90A015	F1-6	90A016	R2-6	1500	.....	C1
90A017	F1-7	90A019	R2-7	1500	.....	C5
90A020	F1-8	.....	.....	1500	187-375	Spec.
90A022	F1-9	90A023	R2-9	2000	.....	C1
90A024	F1-10	90A025	R2-10	2000	.....	C5
90A026	F1-11	.....	.....	2000	1500	Spec.
90A027	F3-11	.....	.....	2000	250-500	Spec.
90A029	F1-12	.....	.....	2500	.....	C1
.....	.....	90A030	R2-13	2500	.....	C2
.....	.....	90A031	R2-14	2500	.....	C3
90A032	F1-15	.....	.....	2500	.....	C5
90A033	F1-16	.....	.....	2500	500	Spec.
90A034	F1-17	.....	.....	2500	825	Spec.
.....	.....	90A039	R2-18	3500	.....	C5
90A040	F1-19	90A041	R2-19	5000	.....	C1
90A042	F1-20	.....	.....	5000	.....	C3
90A043	F1-21	.....	.....	5000	.....	C5
.....	.....	90A046	R2-22	7500	.....	C1
90A047	F1-23	90A048	R2-23	10000	.....	C1
90A049	F1-24	.....	.....	10000	.....	C2
90A050	F1-25	90A051	R2-25	10000	.....	C5
90A055	F1-26	.....	.....	15000	5K-10K	Spec.
90A056	F1-27	90A057	R2-27	25000	.....	C1
90A058	F1-28	.....	.....	35000	.....	C1
90A059	F1-29	90A060	R2-29	50000	.....	C1
90A061	F1-30	90A062	R2-30	75000	.....	C1
90A063	F1-31	90A064	R2-31	100K	.....	C1
90A065	F1-32	90A066	R2-32	125K	.....	C1
90A067	F1-33	90A068	R2-33	200K	.....	C1
90A069	F1-34	90A070	R2-34	250K	.....	C1
.....	.....	90A071	R2-35	250K	.....	C2
.....	.....	90A073	R2-36	250K	.....	C4
90A074	F1-37	90A075	R2-37	250K	.....	C5
.....	.....	90A076	R2-38	350K	86K	C12
90A077	F1-39	.....	.....	350K	.....	C2
90A078	F1-40	90A079	R2-40	4meq.	.....	C1
90A080	F1-41	90A081	R2-41	4meq.	.....	C2
90A082	F1-42	90A083	R2-42	4meq.	.....	C4

EXPLANATION OF TAPERS

C1—Linear. C2—Semi-log (audio). C3—Reverse taper of C2. C4—Modified log (20% center). Used principally as Vol. control. C5—Reverse taper of C4. C6—Modified log with 40% center. Used as Vol. control or Antenna shunt. C7—Tone control. C11—Taper tapped at 50% rotation, 50% resistance. C12—Taper tapped at 37% rotation, 20% resistance. C13—Taper tapped at 50% rotation, 30% resistance. C14—Taper tapped at 62% rotation, 30% resistance. C15—Taper tapped at 50% rotation, 10% resistance. C16—Taper tapped at 62% rotation, 50% resistance. C17—Taper tapped at 37% rotation, 10% resistance.

LINE SWITCHES

For use on above controls. Shipping weight is 2 oz.

Cat. No.	Type	Contacts	Amps	Net
90A139	KB-1	SPST	5	.29
90A160	KB-2	DPST	5	.35
90A163	KB-3	SPDT	5	.44
90A164	KB-4	SPDT	8	.49

CENTRALAB SNAP-TITE RADIONIMS

New controls with time and cost saving features. 10 values below replace 75% of current "screw-and" or "hidden" TV controls. No mounting nuts required. Push control into mounting hole and turn until locating lugs engage in holes provided in chassis. Finger tip knurl and screwdriver slot shafts. Not designed for attachable switches. Shipping weight is 2 oz.

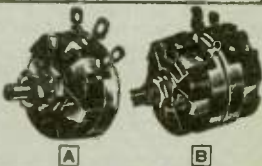
Cat. No.	Type	Ohms	Taper	Net
90A018	BX-10	5000	C1	.44
90A036	BX-31	50K	C1	.44
90A054	BX-40	100K	C1	.44
90A072	BX-46	200K	C1	.44
90A090	BX-59	500K	C1	.44
90A108	BX-60	1meq	C1	.44
90A126	BX-742	1.5meq	C1	.44
90A144	BX-75	2meq	C1	.44
90A161	BX-83	2.5meq	C1	.44
90A162	BX-94	3meq	C1	.44

Cat. No. Front Unit	Type	Cat. No. Rear Unit	Type	Ohms	Taps, Ohms	Taper
90A084	F1-44	90A085	R2-44	1/2meq	100K	C12
.....	.....	90A086	R2-45	1/2meq	150K	C14
.....	.....	90A087	R2-46	1/2meq	250K	C16
90A088	F1-47	90A089	R2-47	1/2meq	50K	C17
.....	.....	90A091	R2-48	1/2meq	150K	Spec.
90A092	F1-49	.....	.....	750K	.....	C7
90A093	F1-50	.....	.....	850K	.....	C1
90A094	F1-51	90A095	R2-51	1meq	.....	C1
90A096	F1-52	90A097	R2-52	1meq	.....	C2
90A098	F1-53	90A099	R2-53	1meq	.....	C3
90A100	F1-54	90A101	R2-54	1meq	.....	C4
90A102	F1-55	.....	.....	1meq	.....	C7
.....	.....	90A103	R2-56	1meq	500K	C11
.....	.....	90A104	R2-57	1meq	200K	C12
.....	.....	90A105	R2-58	1meq	259K	C13
90A106	F1-59	90A107	R2-59	1meq	300K	C14
.....	.....	90A109	R2-60	1meq	500K	C16
.....	.....	90A110	R2-61	1meq	100K	C17
.....	.....	90A111	R2-62	1meq	300K	Spec.
90A112	F1-63	.....	.....	1meq	200K-500K	Spec.
90A113	F1-64	90A114	R2-64	1.5meq	.....	C1
90A115	F1-65	.....	.....	1.5meq	.....	C7
.....	.....	90A116	R2-66	1.5meq	250K-500K	Spec.
90A117	F1-67	90A118	R2-67	2meq	.....	C1
90A119	F1-68	90A120	R2-68	2meq	.....	C2
90A121	F1-69	.....	.....	2meq	.....	C4
.....	.....	90A122	R2-70	2meq	.....	C5
90A123	F1-71	.....	.....	2meq	.....	C7
.....	.....	90A124	R2-72	2meq	1meq	C11
90A125	F1-73	90A127	R2-73	2meq	400K	C12
90A128	F1-74	90A129	R2-74	2meq	200K	C13
.....	.....	90A130	R4-74	2meq	600K	C14
90A131	F1-75	90A132	R2-75	2meq	1meq	C16
90A133	F1-76	90A134	R2-76	2.5meq	.....	C1
90A135	F1-77	90A136	R2-77	2.5meq	.....	C7
90A137	F1-78	90A138	R2-78	3meq	.....	C1
90A139	F1-79	90A140	R2-79	3meq	.....	C2
.....	.....	90A141	R2-80	3meq	1.5meq	C16
90A142	F1-81	90A143	R2-81	3meq	900K	Spec.
90A145	F1-82	.....	.....	4meq	.....	C7
90A146	F1-83	90A147	R2-83	5meq	.....	C7
.....	.....	90A148	R2-84	5meq	.....	C3

FRONT UNITS, NET EACH. 94
REAR UNITS, NET EACH. 94

CLAROSTAT CONTROLS

A Clarostat Wire-Wound Controls. Noiseless in operation. Moving element insulated from mounting bushing and shaft, & is tested at 500 VAC. Shaft: 1 1/2 x 3/8". 12 oz.



Cat. No.	Type	Ohms	Net	Cat. No.	Type	Ohms	Net
4A200	S8-1	1	.73	4A216	S8-400	400	.73
4A201	S8-2	2	.73	4A217	S8-500	500	.73
4A202	S8-4	4	.73	4A218	S8-750	750	.73
4A203	S8-6	6	.73	4A219	S8-1000	1000	.73
4A204	S8-10	10	.73	4A220	S8-2000	2000	.73
4A205	S8-15	15	.73	4A221	S8-2500	2500	.73
4A206	S8-20	20	.73	4A222	S8-5000	5000	.73
4A207	S8-25	25	.73	4A223	S8-7500	7500	.73
4A208	S8-30	30	.73	4A224	S8-10K	10000	.73
4A209	S8-40	40	.73	4A225	S8-15K	15000	.94
4A210	S8-50	50	.73	4A226	S8-20K	20000	.94
4A211	S8-60	60	.73	4A227	S8-25K	25000	.94
4A212	S8-75	75	.73	4A228	S8-30K	30000	1.32
4A213	S8-100	100	.73	4A229	S8-40K	40000	1.32
4A214	S8-200	200	.73	4A230	S8-50K	50000	1.32
4A215	S8-300	300	.73	4A231	10-75K	75000	2.06
.....	.....	.....	.....	4A232	10-100K	100000	2.06

B Clarostat Constant Impedance Controls. L-pads & T-pads essential in eliminating distortion arising from mis-match of impedances. Rated 2 1/2 W. Sh. wt. 12 oz.

Cat. No.	Type	Ohms	Net	Cat. No.	Type	Ohms	Net
4A239	CIT-8	8	2.50	4A244	CIL-8	8	2.21
4A240	CIT-15	15	2.50	4A245	CIL-15	15	2.21
4A241	CIT-250	250	2.50	4A246	CIL-250	250	2.21
4A242	CIT-500	500	2.50	4A247	CIL-500	500	2.21

RHEOSTATS — RESISTORS



OHMITE RHEOSTATS

Insures smooth, gradual, close-control. Wire is wound over a porcelain core, bonded to porcelain base, and permanently locked in place by special Ohmite Vitreous Enamel. Dissipates heat rapidly. Copper graphite contacts. Av. wt. 8 oz.

Model "H" 25 Watt

Diameter 1-9/16". Depth behind panel 1-3/8".

Cat. No.	Type	Ohms	Each	Cat. No.	Type	Ohms	Each
9A249	0140	1	4.14	9A261	0152	125	3.66
9A250	0141	2	3.66	9A262	0153	175	3.66
9A251	0142	3	3.66	9A263	0154	250	3.66
9A252	0143	6	3.66	9A264	0155	350	3.66
9A253	0144	8	3.66	9A265	0156	500	3.66
9A254	0145	10	3.66	9A266	0157	750	3.66
9A255	0146	15	3.66	9A267	0158	1000	4.14
9A256	0147	25	3.66	9A268	0159	1500	4.14
9A257	0148	35	3.66	9A269	0160	2500	4.14
9A258	0149	50	3.66	9A270	0161	3500	4.34
9A259	0150	75	3.66	9A271	0162	5000	4.34
9A260	0151	100	3.66				

Model "J" 50 Watt

Diameter 2-5/16". Depth behind panel 1-3/8".

Cat. No.	Type	Ohms	Each	Cat. No.	Type	Ohms	Each
9A276	0308	0.5	4.60	9A289	0321	150	4.14
9A277	0309	1	4.60	9A290	0322	225	4.14
9A278	0310	2	4.60	9A291	0323	300	4.14
9A279	0311	4	4.14	9A292	0324	500	4.14
9A280	0312	6	4.14	9A293	0325	800	4.34
9A281	0313	8	4.14	9A294	0326	1000	4.34
9A282	0314	12	4.14	9A295	0327	1600	4.34
9A283	0315	16	4.14	9A296	0328	2500	4.34
9A284	0316	22	4.14	9A297	0329	3500	4.60
9A285	0317	35	4.14	9A298	0330	5000	4.60
9A286	0318	50	4.14	9A299	0331	8000	4.60
9A287	0319	80	4.14	9A300	0332	10000	4.60
9A288	0320	125	4.14				

Model "K" 100 Watt

Diameter 3-1/8". Depth behind panel 1 1/2".

Cat. No.	Type	Ohms	Each	Cat. No.	Type	Ohms	Each
9A303	0440	0.5	6.88	9A315	0452	200	6.44
9A304	0441	1	6.88	9A316	0453	300	6.44
9A305	0442	2	6.88	9A317	0454	400	6.44
9A306	0443	3	6.88	9A318	0455	500	6.44
9A307	0444	5	6.88	9A319	0456	750	6.44
9A308	0445	7.5	6.44	9A320	0457	1000	6.88
9A309	0446	10	6.44	9A321	0458	1500	6.88
9A310	0447	16	6.44	9A322	0459	2000	6.88
9A311	0448	25	6.44	9A323	0460	2500	6.88
9A312	0449	50	6.44	9A324	0461	5000	7.33
9A313	0450	75	6.44	9A325	0462	7500	7.81
9A314	0451	100	6.44	9A326	0463	10000	8.25

CALCULATOR



Solves any problem concerning Ohm's Law with only one setting of the slide. No decimal points to cause confusion. Shpg. wt. 5 oz.

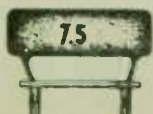
52A073, Net 25

IRC RESIST-O-CABINET NO. 4



4 non-spill drawers with 28 identified compartments, attractive blue, yellow and silver finish. Designed for stacking. Contains 100 BW-1/4 and BTS 1/4 watt resistors ranging from 47 ohms to 10.0 megohms. Cabinet size; 5-3/8 x 5-5/16 x 10-7/8". Sh. wt. 4 1/2 lbs.

4A500, Net 11.76



FUSE RESISTOR

This special 7 1/2 ohm resistor replaces any fuse resistor used in television. Leads soldered to handy plug-in mounting strip for easy installation. Shpg. wt. is 3 oz.

9A341, Net 33

IRC TYPE BT

INSULATED COMPOSITION RESISTORS

Supplied in 3 miniature units from 1/2 to 2 watts. They are particularly suited to television requirements. Extremely low operating temperature and excellent power dissipation are assured. All types are clearly stamped with value and wattage, plus color code. Average shipping weight is 3 oz.



Ohms	Ohms	Ohms	Ohms	Megohms	Megohms
*2.7	39	560	8200	0.12	1.8
*3.3	47	680	10000	0.15	2.2
*3.9	56	820	12000	0.18	2.7
*4.7	68	1000	15000	0.22	3.3
*5.6	82	1200	18000	0.27	3.9
*6.8	100	1500	22000	0.33	4.7
*8.2	120	1800	27000	0.39	5.6
10	150	2200	33000	0.47	6.8
12	180	2700	39000	0.56	8.2
15	220	3300	47000	0.68	10.0
18	270	3900	56000	0.82	12.0
22	330	4700	68000	1.00	15.0
27	390	5600	82000	1.2	18.0
33	470	6800	0.1 Meg.	1.5	22.0

*Available in 1 watt size only.

Stock No.	Type	Length	Dia.	Max. Volts	Net
9A001	1/2 Watt	1 1/8"	13/32"	350	.10
9A002	1 Watt	1 1/4"	23/32"	500	.15
9A003	2 Watt	1 1/2"	1 1/4"	500	.20

IRC WIRE-WOUND RESISTORS

Engineered for dependable heavy duty performance. Special IRC cement coating is noted for its rapid heat dissipation, & protection against humidity.



Ohms	Ohms	Ohms	Ohms	Ohms	Ohms	Ohms
1	30*	300	900*	2750\$	10000	22500*
2*	35*	350	1000	3000	11000	25000
3*	40*	400	1100*	3500	12000	30000\$
4*	50	450*	1200	4000	12500	35000\$
5	75	500	1250	4500	13500*	40000\$
7.5*	100	600*	1500	5000	14300*	45000\$
10	125*	650\$	1750	6000	15000	50000\$
12*	150	700	2000	7000	16000*	
15*	200	750	2250	7500	17500*	
20*	225*	800	2400\$	8000	18000*	
25	250	850\$	2500	8500	20000	

10 Watt Size

Not available in those marked \$.

20 Watt Size

Not available in those marked \$.

Cat. No.	Ohms	Net	No.	Ohms	Net
9A004	1 to 1000	.44	9A005	1 to 1000	.56
9A004	1100 to 5000	.47	9A005	1200 to 5000	.57
9A004	6000 to 10000	.54	9A005	6000 to 10000	.66
9A004	11000 to 20000	.61	9A005	11000 to 20000	.71
9A004	22500 to 25000	.64	9A005	25000 to 40000	.80
			9A005	45000 to 50,000	.93

5 WATT FIXED RESISTORS

Core: 5/16x3/16x1 1/2". Terminal No. 10-L std. Av. sh. wt. 3 oz.



Ohms	Ohms	Ohms	Ohms	Ohms	Ohms	Ohms
1	12	75	350	900	2250	7000
1.5	15	100	400	1000	2500	7500
2	20	125	450	1100	2000	8000
3	25	150	500	1200	3500	9000
4	30	200	600	1250	4000	10000
5	35	225	700	1500	4500	
7.5	40	250	750	1750	5000	
10	50	300	800	2000	6000	

9A342, 1 to 1000 ohms, Net each40


9A342, 1100 to 5000 ohms, Net each43

9A342, 6000 to 10,000 ohms, Net each47

HIGH QUALITY — LARGE STOCKS — FAST DELIVERY

IRC RESISTORS — ACCESSORIES

IRC ADJUSTABLE RESISTORS

 Adjustable wire wound resistors. Tolerance: plus-minus 10%. Contact made by metal band, which when power is off can be adjusted to any position along the resistor. Type X band furnished with all types except 1½AA which has special band.

10 watt rating. Type 1½AA. Size: 1½x5/16". Mtg. ctrs: 2-9/32". Sh. wt. 8 oz.

No.	Ohms	Mils.	Net	No.	Ohms	Mils.	Net
9A006	1	3150	.86	9A024	750	115	.86
9A007	2	2235	.86	9A027	800	111	.86
9A008	3	1825	.86	9A028	1000	100	.86
9A009	5	1415	.86	9A029	1250	89	.90
9A010	7.5	1155	.86	9A030	1500	79	.90
9A011	10	1000	.86	9A031	2000	69	.90
9A012	15	816	.86	9A032	2250	64	.90
9A013	20	707	.86	9A033	2500	63	.90
9A014	25	632	.86	9A034	3000	56	.90
9A015	50	447	.86	9A035	3500	51	.90
9A016	75	365	.86	9A036	4000	47	.90
9A017	100	316	.86	9A037	4500	45	.90
9A018	150	258	.86	9A038	5000	43	.90
9A019	200	223	.86	9A039	6000	38	.96
9A020	250	200	.86	9A040	7000	34	.96
9A021	300	182	.86	9A041	7500	33	.96
9A022	350	169	.86	9A042	8000	31	.96
9A023	400	158	.86	9A043	8500	29	.96
9A024	500	141	.86	9A044	9000	28	.96
9A025	600	129	.86	9A045	10000	26	.96

25 watt rating. Type 2½DA. Size: 2½x9/16". Mtg. ctrs: 3-3/16". Sh. wt. 8 oz.

No.	Ohms	Mils.	Net	No.	Ohms	Mils.	Net
9A052	1	5000	1.10	9A073	1250	141	1.11
9A053	2	3535	1.10	9A074	1500	129	1.11
9A054	3	2885	1.10	9A075	2000	111	1.11
9A055	5	2235	1.10	9A076	2250	105	1.11
9A056	7.5	1825	1.10	9A077	2500	100	1.11
9A057	10	1580	1.10	9A078	3000	91	1.11
9A058	15	1290	1.10	9A079	3500	84	1.11
9A059	20	1117	1.10	9A080	4000	79	1.11
9A060	25	1000	1.10	9A081	4500	74	1.11
9A061	50	707	1.10	9A082	5000	70	1.11
9A062	75	577	1.10	9A083	6000	64	1.20
9A063	100	500	1.10	9A084	7000	60	1.20
9A064	150	408	1.10	9A085	7200	59	1.20
9A065	200	353	1.10	9A086	7500	57	1.20
9A066	250	316	1.10	9A087	8000	55	1.20
9A067	300	288	1.10	9A088	9000	52	1.20
9A068	400	250	1.10	9A089	10000	50	1.20
9A069	500	223	1.10	9A090	12000	42	1.23
9A070	750	182	1.10	9A091	15000	34	1.23
9A071	800	176	1.10	9A092	20000	26	1.23
9A072	1000	158	1.10	9A093	25000	21	1.34

50 watt rating. Type 4½EA. Size: 4½x¾". Mtg. ctrs: 5¼". Sh. wt. 1 lb.

No.	Ohms	Mils.	Net	No.	Ohms	Mils.	Net
9A100	5	3160	1.39	9A120	3500	119	1.45
9A101	10	2235	1.39	9A121	4000	111	1.45
9A102	25	1414	1.39	9A122	4500	105	1.45
9A103	50	1000	1.39	9A123	5000	100	1.45
9A104	75	816	1.39	9A124	6000	91	1.55
9A105	100	707	1.39	9A125	7000	84	1.55
9A106	150	577	1.39	9A127	7500	81	1.55
9A107	200	500	1.39	9A128	8000	79	1.55
9A108	250	447	1.39	9A130	10000	70	1.55
9A109	300	408	1.39	9A131	12000	64	1.67
9A110	400	353	1.39	9A132	15000	57	1.67
9A111	500	316	1.39	9A133	20000	48	1.67
9A112	750	258	1.39	9A134	25000	41	1.81
9A113	1000	223	1.39	9A135	30000	36	1.81
9A114	1250	200	1.45	9A136	40000	28	1.81
9A115	1500	182	1.45	9A137	50000	23	1.94
9A116	2000	158	1.45	9A138	60000	19	1.94
9A117	2250	149	1.45	9A139	80000	15	2.16
9A118	2500	141	1.45	9A140	100000	12	2.31
9A119	3000	129	1.45				

75 watt rating. Type 6½EA. Size: 6½x¾". Mtg. ctrs: 7¼". Sh. wt. 1 lb.

No.	Ohms	Mils.	Net	No.	Ohms	Mils.	Net
9A152	5	3870	2.08	9A172	5000	122	1.67
9A153	10	2735	1.62	9A173	6000	111	1.76
9A154	15	2236	1.62	9A174	7000	103	1.76
9A155	25	1732	1.62	9A175	7500	100	1.76
9A156	50	1224	1.62	9A176	8000	96	1.76
9A157	100	866	1.62	9A177	9000	91	1.76
9A158	200	612	1.62	9A178	10000	86	1.76
9A159	250	547	1.62	9A179	12000	79	1.88
9A160	300	500	1.62	9A180	15000	70	1.88
9A161	400	433	1.62	9A181	20000	61	1.88
9A162	500	387	1.62	9A182	25000	49	2.08
9A163	750	316	1.62	9A183	30000	42	2.08
9A164	1000	273	1.67	9A184	35000	36	2.08
9A165	1250	245	1.67	9A185	40000	32	2.08
9A166	1500	223	1.67	9A186	45000	29	2.13
9A167	2000	193	1.67	9A187	50000	26	2.13
9A168	2500	173	1.67	9A188	60000	22	2.13
9A169	3000	158	1.67	9A189	80000	17	2.33
9A170	3500	146	1.67	9A190	100000	13	2.55
9A171	4000	136	1.67				

100 watt rating. Type 6½HA. Size: 6½x1-1/8". Mtg. ctrs: 7-9/32". Sh. wt. 1 lb.

No.	Ohms	Mils.	Net	No.	Ohms	Mils.	Net
9A201	5	4470	2.11	9A211	5000	141	2.16
9A202	10	3160	2.11	9A212	10000	100	2.27
9A203	25	2000	2.11	9A213	15000	81	2.42
9A204	50	1414	2.11	9A214	20000	70	2.42
9A205	100	1000	2.11	9A215	25000	53	2.57
9A206	250	632	2.11	9A216	30000	47	2.57
9A207	500	447	2.11	9A217	40000	36	2.57
9A208	1000	316	2.11	9A218	50000	29	2.67
9A209	1500	258	2.16	9A219	75000	19	2.79
9A210	2500	200	2.16	9A220	100000	15	2.91

200 watt rating. Type 10½HA. Size: 10½x1-1/8". Mtg. ctrs: 11-9/32". Sh. wt. 1 lb.

No.	Ohms	Mils.	Net	No.	Ohms	Mils.	Net
9A227	5	6320	3.33	9A237	5000	200	2.61
9A228	10	4470	2.57	9A238	10000	141	2.76
9A229	25	2828	2.57	9A239	15000	115	2.89
9A230	50	2000	2.57	9A240	20000	100	2.89
9A231	100	1414	2.57	9A241	25000	89	2.96
9A232	250	894	2.57	9A242	30000	81	2.96
9A233	500	632	2.57	9A243	40000	61	2.96
9A234	1000	447	2.57	9A244	50000	49	3.06
9A235	1500	365	2.61	9A245	75000	33	3.19
9A236	2500	283	2.61	9A246	100000	25	3.33



A IRC Type X Bands. Adjustable bands feature stainless steel spring with silver contact button. Cannot corrode-constant pressure is assured. Wt. 2 oz.

Cat. No.	Type	Fit	Net
9A331	Spec. A	1½AA	.19
9A332	X2	2½DA	.15
9A333	X3	4½EA, 6½EA	.15
9A334	X4	6½HA, 10½HA	.25

B Sprague Non-Inductive Resistors.

Cat. No.	Watts	Ohms	Av. Lbs.	Net
9A339	120	75	¼	5.53
9A310	120	390	¼	5.64
9A302	120	600	¼	5.64

C Temperature Globar Resistors. Resistors used in Filament leads on G.E. TV sets. Sh. wt. is 2 oz.

Cat. No.	Type	Cold	Hot	Ma.	Net
9A146	RRW-041	1100	75	300	.99
9A147	RRW-051	250	20	600	1.05
9A148	RRW-054	460	35	590	1.05
9A149	RRW-094	130	31	600	1.14
9A151	RRW-097	260	31	300	1.05

CORNELL-DUBILIER CAPACITORS



SELENIUM RECTIFIER CAPACITORS TYPE UPE

Especially engineered to prevent capacity drop due to high cripple and surge currents normally encountered in selenium rectifier circuits. Av. shpg. wt. 5 oz.

UPE SINGLE SECTION UNITS

No.	Type	Cap./Volts	Net
7A530	XA001	40/150	.94
7A531	XA002	80/150	1.09
7A532	XA003	100/150	1.18
7A533	XA004	150/150	1.27
7A534	XA005	300/150	1.64
7A535	XA006	80/200	1.15
7A536	XA007	150/200	1.64
7A537	XA008	40/250	1.06
7A538	XA009	60/300	1.24
7A539	XA010	80/300	1.50
7A540	XA011	80/350	1.67
7A541	XA012	125/350	2.15
7A542	XA013	30/500	1.18

UPE Dual Section Units

No.	Type	Cap./Volts	Net
7A548	XB001	20-20/150	1.00
7A549	XB002	40-40/150	1.12
7A550	XB003	50-50/150	1.27
7A551	XB004	80-40/150	1.35
7A552	XB005	80-80/150	1.56
7A553	XB006	100-100/150	1.91
7A554	XB007	150-150/150	2.06
7A555	XB008	200-150/150	2.21
7A556	XB009	200-200/150	2.35
7A557	XB010	100-100/200	2.06
7A558	XB011	40-40/250	1.50
7A559	XB012	80-40/250	1.76
7A560	XB013	40-40/300	1.76
7A561	XB014	80-40/300	2.09

UPE Triple Section Units

No.	Type	Cap./Volts	Net
7A567	XC001	20-20-20/150	1.38
7A568	XC002	40-20-20/150	1.41
7A569	XC003	50-50-50/150	1.76
7A570	XC004	80-80-80/150	2.21
7A571	XC005	120-80-40/150	2.18
7A572	XC006	20-20-150/20/25	1.29
7A573	XC007	40-20-150/20/25	1.35
7A574	XC008	40-40-150/20/25	1.41
7A575	XC009	40-20-300/20/25	1.82
7A576	XC010	100/300 60-20/250	2.88
7A577	XC011	200/300 20-60/250	3.21

DYKANOL TRANSMITTING CAPACITORS TYPE T



Finest and most dependable units obtainable for amateur, broadcast and commercial equipment. Thoroughly impregnated and filled with Dykanol "G", a non-inflammable compound which provides a high factor of safety and exceptionally long

life at high temperatures. Av. wt. 5 lbs.

1000 W.V.D.C.

Cat No.	Mfd.	Size	Net
7C175	2	4x1-13/16x1-1/16"	4.85
7C176	4	4-5/8x2 1/2x1-3/16"	6.15
7C177	8	4 1/2x3 1/2x1 1/4"	8.91

1500 W.V.D.C.

Cat No.	Mfd.	Size	Net
7C178	2	4-1/8x2 1/2x1-3/16"	6.14
7C179	4	4-5/8x3 1/2x1 1/4"	8.26

2000 W.V.D.C.

Cat No.	Mfd.	Size	Net
7C180	2	4x3 1/2x1 1/4"	6.32
7C181	4	3-13/16x3 1/2x2 1/4"	8.91

3000 W.V.D.C.

Cat No.	Mfd.	Size	Net
7C182	2	4-1/8x3 1/2x3-3/16"	14.73
7C183	4	4 1/2x3 1/2x4-9/16"	21.67

5000 W.V.D.C.

Cat No.	Mfd.	Size	Net
7C184	1	4 1/2x3 1/2x4-9/16"	24.58
7C185	2	6x3 1/2x4-9/16"	31.55



SCREW-NECK TYPE CAPACITORS

Single-hole, compact etched foil type dry electrolytic capacitors in aluminum cans. Available in single, dual and triple sections with color-coded leads. Used in AC-DC or voltage-doubler midgets and AC operated sets. All 450 W.V. except those marked * which are 600 W.V. Av. wt. is 6 oz.

TYPE KR

No.	Type	Mfd.	Size	Net
7C001	504	4	1x2 1/2"	1.21
7C002	508	8	1x2 1/2"	1.29
7C003	512A	12	1x2 1/2"	1.41
7C004	516A	16	1x3 1/2"	1.44
7C005	520	20	1-3/8x2 1/2"	1.62
7C006	530	30	1-3/8x3 1/2"	1.76
7C007	540	40	1-3/8x4-3/8"	1.85
7C008	604*	4	1-3/8x4 1/2"	1.74
7C009	608*	8	1-3/8x4 1/2"	1.85
7C010	616*	16	1 1/2x4 1/2"	2.21

TYPE KRC Common Negative Units

No.	Type	Mfd.	Size	Net
7C021	588	8-8	1-3/8x2 1/2"	1.76
7C022	5116	16-16	1-3/8x3 1/2"	2.09
7C023	5220	20-20	1-3/8x4-3/8"	2.24
7C024	5888	8-8-8	1-3/8x4 1/2"	2.94

TYPE KR Separate Section Units

No.	Type	Mfd.	Size	Net
7C016	588A	8-8	1-3/8x3"	2.21
7C017	5816A	8-16	1-3/8x4 1/2"	2.41



TYPE WR-VOLT D.C. REPLACEMENT CAPACITORS

Aluminum can dry electrolytic substitute for wet types which have been discontinued. Capacities listed cover nearly all applications. Sh. wt. 6 oz.

No.	Type	Replaces	Size	Net
7C026	10	4-12mfd.	1-3/8x2 1/2"	1.35
7C027	20	16-29 mfd.	1-3/8x2 1/2"	1.59
7C028	30	20-30 mfd.	1-3/8x3 1/2"	1.74
7C029	40	30-40 mfd.	1-3/8x3 1/2"	1.85



SPRAGUE HYPASS CAPACITORS

Feed thru VHF bypass capacitors perform efficiently up to 150 Mc. Reduce harmonic radiation & eliminate TVI in AC & HV leads on ham transmitters. Current ratings: 47P15-47P16, 2 amps; 47P14, 3 amps; 47P12, 4 amps; 48P9 & 80P3, 20 amps; and 48P18, 40 amps. Sh. wt. 3 oz.

Cat. No.	Type	Mfd.	W.V.	Net
36A202	48P18	.5	50 DC	2.23
36A157	48P9	.1	250 AC	1.53
36A201	46P12	.002	600 DC	1.26
36A203	80P3	.1	600 AC	1.73
36A158	46-P8	.005	600 DC	1.26
36A159	47P6	.01	600 DC	1.38
36A160	47P12	.005	1000 DC	1.41
36A161	47P13	.01	1000 DC	1.53
36A162	47P14	.005	2500 DC	1.76
36A163	47P15	.01	2500 DC	1.82
36A164	47P16	.002	5000 DC	1.88

INDUSTRIAL CAPACITOR USERS

WRL can supply your needs with any industrial type capacitors made by the capacitor manufacturers represented on these pages. Quotations upon request. Please indicate manufacturer, manufacturers type and part number and quantity desired.



TYPE BRH METAL CAPACITORS

For applications requiring high capacity at low voltage. Same construction as "BR" units with addition of mounting strap. *Type BRHV high voltage type. Sh. wt. 6 oz.

No.	Type	Mfd.	V.	Net
7C146	605A	500	6	.91
7C147	610	1000	6	1.12
7C148	620	2000	6	1.35
7C149	121A	100	12	.70
7C150	125A	500	12	1.00
7C151	1210	1000	12	1.32
7C152	1220	2000	12	1.56
7C153	151A	100	15	.73
7C154	1525A	250	15	.91
7C155	155A	500	15	1.03
7C156	1510	1000	15	1.35
7C157	1520	2000	15	1.88
7C158	251A	100	25	.79
7C159	2525A	250	25	1.00
7C160	255A	500	25	1.35
7C161	501	100	50	.82
7C162	5015	150	50	.91
7C163	5025	250	50	1.03
7C164	5050	500	50	1.41
7C167	728*	8700		.88



CENTRALAB CERAMIC TRIMMERS

Type 882. Medium weight statite body. Numbers ending in Z are of zero temperature coefficient (NPO); those ending in N are negative temperature coefficient. Both rotor and stator plates are of metallic silver fired to ceramic rotor and stator. Mounting holes are clearance for No. 4 machine screws. Body size: approximately 27/32" x 21/32". Av. sh. wt. 3 oz.

Cat. No.	Type	Net
63B028	822-DZ	.88
63A029	822-EZ	.88
63A030	822-CZ	.88
63A031	822-BZ	.88
63A032	822-FZ	.88
63A033	822-AZ	.88
63A034	822-DN	.88
63B069	822-EN	.88
63B070	822-CN	.88
63B071	822-BN	.88
63B073	822-AN	.88



MOTOR GENERATOR AND AMMETER UNITS

Ignition and Interference Filter capacitors insure against damage in applications where high temperatures and excessive vibration exist. Av. sh. wt. 3 oz.

Generator Units			
No.	Type	Mfd.	Net
7A204	IC2P5C	.5	.53
7A205	INH2P5-7	.5	.53
7A206	INS2W1	1.0	1.03
Ammeter Unit			
7A207	HC870E	.5	.53

LEO GIVES TERMS TO SUIT YOUR BUDGET

CORNELL-DUBILIER CAPACITORS

BLUE BEAYER CAPACITORS

Small in physical size and self-supporting by means of strong bare tinned-copper leads. Sealed in moistureless aluminum cans and insulated by a cardboard sleeve. *Multi-section units. Av. sz. wt. 4 oz.

Type BR Single Section

Cat. No.	Type	Mfd.	W.V.	Size	Net
7C030	102	10	25	5/8x1-1/16"	.59
7C031	202	20	25	5/8x1-1/16"	.59
7C032	252	25	25	5/8x1-1/16"	.59
7C033	502	50	25	5/8x1-1/16"	.71
7C034	550	5	50	5/8x1-1/16"	.59
7C035	105	10	50	5/8x1-1/16"	.59
7C036	205	20	50	5/8x1-1/16"	.59
7C037	255	25	50	5/8x1-1/16"	.62
7C038	505	50	50	5/8x1-1/16"	.71
7C039	415	4	150	5/8x1-1/16"	.59
7C040	815	8	150	5/8x1-1/16"	.62
7C041	1015	10	150	5/8x1-1/16"	.62
7C042	1215	12	150	5/8x1-7/16"	.65
7C043	1615	16	150	5/8x1-7/16"	.68
7C044	2015	20	150	5/8x1-7/16"	.71
7C045	3015	30	150	3/4x1-7/16"	.76
7C046	4015	40	150	3/4x1-11/16"	.79
7C047	5015	50	150	7/8x1-11/16"	.82
7C048	6015	60	150	7/8x2"	.88
7C049	8015	80	150	7/8x2"	.94
7C050	10015	100	150	1x2-1/2"	1.03
7C051	15015	150	150	1x3"	.72
7C052	1225	12	250	5/8x1-11/16"	.74
7C053	1625	16	250	3/4x1-11/16"	.76
7C054	2025	20	250	3/4x1-11/16"	.79
7C055	3025	30	250	7/8x1-11/16"	.85
7C056	4025	40	250	7/8x2"	.91
7C057	5025	50	250	1x2"	1.00
7C058	435	4	350	5/8x1-7/16"	.62
7C059	835	8	350	5/8x1-11/16"	.71
7C060	1235	12	350	3/4x1-11/16"	.76
7C061	1635	16	350	7/8x1-11/16"	.82
7C062	2035	20	350	7/8x1-11/16"	.85
7C063	3035	30	350	1x2"	.97
7C064	4035	40	350	1x2-1/2"	1.03
7C065	145	1	450	5/8x1-1/8"	.65
7C071	245	2	450	5/8x1-1/8"	.65
7C072	445	4	450	5/8x1-7/16"	.68
7C073	845	8	450	3/4x1-7/16"	.74
7C074	1045	10	450	3/4x1-11/16"	.76
7C075	1245	12	450	3/4x1-11/16"	.79
7C076	1645	16	450	7/8x2"	.82
7C077	2045	20	450	7/8x2"	.91
7C078	3045	30	450	1x2-1/2"	1.00
7C079	4045	40	450	1x1-1/2"	1.06
7C080	8045	80	450	1-3/8x2-5/8"	1.38
7C081	8045	80	450	1-3/8x3-1/8"	1.65
7C082	450	4	500	5/8x1-11/16"	.71
7C083	850	8	500	3/4x1-11/16"	.76
7C084	1650	16	500	1x2"	.88
7C085	2050	20	500	1x2"	.94
7C086	3050	30	500	1x2-1/2"	1.03

*Type BBRD Dual Section

Cat. No.	Type	Mfd.	W.V.	Size	Net
7C088	2202	20-20	25	3/4x1-1/16"	.82
7C089	2215	20-20	150	3/4x1-11/16"	.97
7C090	3315	30-30	150	7/8x1-11/16"	1.06
7C091	4215	40-20	150	7/8x1-11/16"	1.03
7C092	4415	40-40	150	7/8x2"	1.09
7C093	5315	50-30	150	7/8x2"	1.15
7C094	5515	50-50	150	1x2"	1.24
7C095	8415	80-40	150	1x2-3/8"	1.38
7C096	2225	20-20	250	1x1-11/16"	1.09
7C097	8045	8-8	450	7/8x1-11/16"	1.00
7C098	16D45	16-16	450	1x2-1/2"	1.32
7C099	2245	20-20	450	1x3"	1.47
7C100	4445	40-40	450	1x4-1/16"	2.00

*Type BBRT-Triple-Common Negative

Cat. No.	Type	Mfd.	W.V.	Net
7C106	2215C	20-20-20	150, 25	1.29
7C107	3315C	30-30-30	150, 25	1.21
7C108	4215C	40-20-20	150, 25	1.26
7C109	5315C	50-50-20	150, 25	1.28
7C110	22215	20-20-20	150	1.29
7C111	42215	40-20-20	150	1.32
7C112	32V215	30-25-20	150	1.32
7C113	33315	30-30-30	150	1.38
7C114	43215	40-30-30	150	1.38
7C115	44415	40-40-40	150	1.44

*Type BBRC-Quadriple-Common Negative

Cat. No.	Type	Mfd.	W.V.	Net
7C121	33215C	30-30-20-20	150, 25	1.72
7C122	53215C	50-30-20-20	150, 25	1.79
7C123	44315C	40-40-30-20	150, 25	1.76
7C124	55515	50-50-50-20	150, 25	2.03

*Type EDL-Dual Separate Section

Cat. No.	Type	Mfd.	W.V.	Size	Net
7C129	2215SD	20-20	150	15/16x2-5/8"	.97
7C130	3315SD	30-30	150	1x2-5/8"	1.08
7C131	4215SD	40-20	150	1x2-5/8"	1.03
7C132	4415SD	40-40	150	1-1/16x2-7/8"	1.09
7C133	5315SD	50-30	150	1-1/16x2-7/8"	1.15
7C134	5515SD	50-50	150	1-1/8x3-1/8"	1.24
7C135	8415SD	80-40	150	1-1/8x3-8/8"	1.32

TYPE CUB CAPACITORS

Molded plastic tubulars especially for use in TV sets, auto radios, etc. where high temperatures are encountered. Wt. 4 oz.

200 V.D.C.

Cat. No.	Type	Mfd.	Size	Net
36B168	2S2	.02	3/8x1"	.15
36B169	2S47	.047	7/16x1-1/4"	.15
36B170	2S5	.05	7/16x1-1/4"	.15
36B171	2P1	.1	7/16x1-1/4"	.21
36B172	2P15	.15	9/16x1-1/2"	.21
36B173	2P22	.22	11/16x1-7/8"	.24
36B174	2P25	.25	11/16x1-7/8"	.24
36B175	2P47	.47	11/16x1-7/8"	.35
36B176	2P5	.5	11/16x1-7/8"	.35
36B177	2W1	1.0	3/4x2-1/4"	.53

450 V.D.C.

Cat. No.	Type	Mfd.	Size	Net
36B178	4S1	.01	3/8x1"	.15
36B179	4S2	.02	7/16x1-1/4"	.15
36B180	4S22	.022	7/16x1-1/4"	.15
36B181	4S47	.047	7/16x1-1/4"	.18
36A182	4S5	.05	7/16x1-1/4"	.18
36B183	4S68	.068	9/16x1-1/2"	.21
36A184	4P1	.1	9/16x1-1/2"	.21
36B185	4P15	.15	11/16x1-7/8"	.24
36A186	4P22	.22	11/16x1-7/8"	.24
36B187	4P25	.25	11/16x1-7/8"	.24
36A188	4P47	.47	3/4x2-1/4"	.35
36A189	4P5	.5	3/4x2-7/8"	.35

600 V.D.C.

Cat. No.	Type	Mfd.	Size	Net
36A001	6D1	.001	3/8x1"	.15
36A190	6D15	.0015	3/8x1"	.15
36A002	6D2	.002	3/8x1"	.15
36A191	6D22	.0022	3/8x1"	.15
36A003	6D3	.003	3/8x1"	.15
36A192	6D33	.0033	3/8x1"	.15
36A004	6D4	.004	3/8x1"	.15
36A193	6D47	.0047	3/8x1"	.15
36A005	6D5	.005	3/8x1"	.15
36A006	6D6	.006	7/16x1-1/4"	.18
36A195	6D68	.0068	7/16x1-1/4"	.18
36A007	6S1	.01	7/16x1-1/4"	.18
36A196	6S15	.015	7/16x1-1/4"	.18
36A008	6S2	.02	7/16x1-1/4"	.18
36A197	6S22	.022	7/16x1-1/4"	.18
36A009	6S3	.03	7/16x1-1/4"	.21
36A198	6S33	.033	9/16x1-1/2"	.21
36A010	6S4	.04	9/16x1-1/2"	.21
36A011	6S47	.047	9/16x1-1/2"	.24
36A012	6S5	.05	9/16x1-1/2"	.24
36A199	6S6	.06	11/16x1-7/8"	.24
36A200	6S68	.068	11/16x1-7/8"	.24
36A012	6P1	.1	11/16x1-7/8"	.27
36A013	6P25	.25	3/4x2-1/4"	.33
36A014	ST6P5	.5	1x2-7/8"	.47

1600 V.D.C.

Cat. No.	Type	Mfd.	Size	Net
36A017	16D1	.001	7/16x1-3/8"	.38
36A018	16D2	.002	7/16x1-3/8"	.38
36A019	16D3	.003	7/16x1-3/8"	.38
36A020	16D4	.004	1x2x1-3/8"	.21
36A021	16D5	.005	9/16x1-15/16"	.21
36A022	16D55	.0055	1x2x1-3/8"	.21
36A023	16D6	.006	1/2x1"	.21
36A024	16D7	.007	9/16x1-9/16"	.21
36A025	16D75	.0075	9/16x1-9/16"	.21
36A026	16D8	.008	9/16x1-9/16"	.21
36A027	16S1	.01	9/16x1-9/16"	.21
36A028	16S15	.015	9/16x1-9/16"	.35
36A029	16S2	.02	11/16x1-15/16"	.41
36A030	16S25	.025	11/16x1-15/16"	.41
36A031	16S3	.03	11/16x1-15/16"	.41
36A032	16S4	.04	11/16x1-15/16"	.41
36A033	...	.05	3/4x1-15/16"	.41

TYPE "CUB" MOLDED TUBULAR CONDENSERS
For general replacement work. Molded in extra hard, non-inflammable bakelite—tough, durable and resistant to moisture, high temperatures and shock. 6900 VDC, except *10,000 V.; *12,500 V. Sh. wt. 2 oz.

Cat. No.	Type	Mfd.	Size	Net
36A204	60T5	.0005	9/16x1 1/4"	.68
36A205	60D1	.001	9/16x1 1/4"	.71
36A206	60D5	.005	11/16x1-7/8"	.79
36A015	100T5*	.0005	11/16x1-7/8"	.88
36A034	125T25*	.0025	11/16x1-7/8"	1.00

SPRAGUE RESONANT PAPER CAPACITORS

Prevents IF regeneration & self oscillation. Special inductive design for series resonance at 455 kc. Shipping weight is 4 oz.

Cat. No.	Type	Mfd.	W.V.	Size	Net
36A165	72P51	.05	400	1/2x1-1/8"	.29
36A166	72P52	.1	400	1/2x1-5/8"	.38
36A167	72P53	.2	400	9/16x1-7/8"	.41

MICA CONDENSERS

Suitable for many electronic uses. Adapted to serve many important functions in low voltage radio receiving circuits. Rated at 1000 VDC test, 500 VDC working. *600 VDC test, 300 VDC working. Shipping weight 2 oz.

Type 5W

No.	Type	Mfd.	Net
36A035	SV5	.000005	.15
36A036	SO1	.00001	.15
36A037	SO2	.00002	.15
36A038	SO25	.000025	.15
36A039	SO3	.00003	.15
36A040	SO4	.00004	.12
36A041	SO5	.00005	.12
36A042	SO7	.00007	.12
36A043	ST1	.0001	.12
36A044	ST15	.00015	.12
36A045	ST2	.0002	.12
36A046	ST25	.00025	.15
36A047	ST3	.0003	.15
36A048	ST4	.0004	.15
36A049	ST5	.0005	.15

Type 1W

No.	Type	Mfd.	Net
36A050	SV7	.00007	.15
36A051	ST7	.00007	.15
36A052	ST8	.00008	.15
36A053	ST9	.00009	.15
36A054	SD1	.0001	.18
36A055	SD15	.00015	.18
36A056	SD2	.0002	.24
36A057	SD25	.00025	.27
36A058	SD3	.0003	.29

Type 1D

36A059	SD4	.004	.32
36A060	SD5	.005	.35
36A061	SD6	.006	.44
36A062	3D7*	.007	.53
36A063	3D8*	.008	.59
36A064	3D9*	.009	.59
36A065	3S1*	.01	.71

CORNELL-DUBILIER CAPACITORS



CORNELL-DUBILIER "UP" CAPACITORS

These Cornell-Dubilier Type UP Capacitors are small, conveniently mounted, round can-type electrolytic units. They are furnished with bakelite and metal mounting washers. Average shipping weight is 5 oz.



MICA TRANSMITTER CAPACITORS

Cornell-Dubilier Mica Capacitors Types 4 and 9 are designed to meet the requirements of power amplifiers and low-power transmitters. They are principally employed for grid and plate blocking purposes and R. F. by-pass functions. The av. sh. wt. is 3 oz.

TYPE 4

1200 V.D.C. Test 600 V.D.C. Working			
Cat. No.	Mfd.	Net	
36A091	.00005	.70	
36A092	.0001	.70	
36A093	.0002	.70	
36A094	.0005	.70	
36A095	.001	.70	
36A096	.003	.85	
36A097	.005	.91	
36A098	.01	1.27	
36A099	.015	1.56	
36A100	.02	1.79	
36A102	.03	2.62	

2500 V.D.C. Test 1200 V.D.C. Working			
Cat. No.	Mfd.	Net	
36A117	.00005	.94	
36A118	.0001	.94	
36A119	.0002	.94	
36A120	.0005	.94	
36A121	.001	1.06	
36A122	.002	1.41	
36A123	.003	1.79	
36A124	.005	1.94	
36A125	.01	3.00	

5000 V.D.C. Test 2500 V.D.C. Working			
Cat. No.	Mfd.	Net	
36A138	.00005	1.12	
36A139	.0001	1.12	
36A140	.0002	1.12	
36A141	.0005	1.47	
36A142	.001	1.65	
36A143	.002	2.44	
36A144	.003	2.88	
36A145	.005	3.72	

TYPE 9

1200 V.D.C. Test 600 V.D.C. Working			
Cat. No.	Mfd.	Net	
36A103	.00005	.85	
36A104	.0001	.85	
36A105	.00025	.85	
36A106	.0005	.85	
36A107	.001	.85	
36A108	.002	.97	
36A109	.003	1.09	
36A110	.005	1.24	
36A111	.01	1.64	
36A112	.015	1.80	
36A113	.02	2.09	
36A115	.03	2.67	
36A116	.05	4.18	

2500 V.D.C. Test 1200 V.D.C. Working			
Cat. No.	Mfd.	Net	
36A126	.00005	.94	
36A127	.0001	.94	
36A128	.00025	.94	
36A129	.0005	.94	
36A130	.001	1.12	
36A131	.002	1.47	
36A132	.003	1.74	
36A133	.005	1.94	
36A134	.01	2.76	
36A135	.015	3.41	
36A136	.02	4.18	
36A137	.03	4.76	

5000 V.D.C. Test 2500 V.D.C. Working			
Cat. No.	Mfd.	Net	
36A146	.00005	1.12	
36A147	.0001	1.12	
36A148	.00025	1.26	
36A149	.0005	1.50	
36A150	.001	1.71	
36A151	.002	2.50	
36A152	.003	3.00	
36A153	.005	3.65	
36A154	.01	4.29	
36A155	.015	4.72	

Single Section				
Cat. No.	Type	Mfd.	W.V.	Net
7C250	A004	2000	6	1.50
7C251	A006	1000	15	1.50
7C252	A007	2000	15	2.05
7C253	A010	100	25	.94
7C254	A012	500	25	1.50
7C255	A013	1000	25	2.09
7C256	A014	100	50	.97
7C257	A016	500	50	1.57
7C258	A017	1000	50	2.21
7C259	A018	30	150	.91
7C260	A019	40	150	.94
7C261	A020	50	150	.97
7C262	A023	80	150	1.09
7C263	A024	100	150	1.18
7C264	A025	120	150	1.23
7C265	A026	150	150	1.26
7C266	A027	20	250	.94
7C267	A029	40	250	1.06
7C268	A034	100	300	1.71
7C269	A037	30	350	1.12
7C270	A040	80	350	1.68
7C271	A041	125	350	2.15
7C272	A042	80	400	1.73
7C273	A043	10	450	.91
7C274	A044	10	450	.91
7C275	A045	15	450	1.00
7C276	A046	20	450	1.06
7C277	A047	40	450	1.15
7C278	A048	40	450	1.21
7C279	A049	50	450	1.38
7C280	A050	60	450	1.53
7C281	A051	80	450	1.79
7C282	A052	100	500	.94
7C283	A053	20	500	1.09
7C284	A054	30	500	1.18
7C285	A055	40	500	1.47
7C286	A056	80	500	1.88
7C287	A057	95	500	2.06

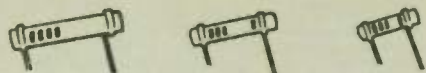
Dual Section Units				
Cat. No.	Type	Mfd.	W.V.	Net
7A310	B034	1000-1000	15	2.59
7A311	B006	40-40	25	.94
7A312	B009	25-25	150	1.00
7A313	B010	30-30	150	1.03
7A314	B011	30-30	150	1.09
7A315	B012	40-40	150	1.06
7A316	B013	40-40	150	1.09
7A317	B014	40-40	150	1.12
7A318	B015	50-50	150	1.18
7A319	B016	50-50	150	1.26
7A320	B018	80-40	150	1.35
7A321	B021	20-20	250	1.12
7A322	B022	30-30	250	1.35
7A323	B024	40-40	250	1.50
7A324	B027	80-80	300	2.40
7A325	B028	15-15	350	1.32
7A326	B030	20-20	350	1.35
7A327	B031	30-30	350	1.71
7A328	B034	60-60	400	2.59
7A329	B037	10-10	450	1.12
7A330	B038	15-15	450	1.32
7A331	B039	20-10	450	1.32
7A332	B040	20-20	450	1.50
7A333	B041	30-10	450	1.47
7A334	B042	30-10	450	1.41
7A335	B043	30-30	450	1.79
7A336	B044	40-20	450	1.76
7A337	B045	40-40	450	2.03
7A338	B047	80-10	450	2.12
7A339	B048	80-40	450	2.26
7A340	B050	20-20	500	1.68
7A341	B052	30-10	500	1.53
7A342	B053	40-40	500	2.53
7A343	B054	60-40	500	2.70
7A344	B055	250/1000	10/6	1.68
7A345	B068	20/80	450/350	2.15
7A346	B071	40/10	450/350	1.53

Triple Section Units				
Cat. No.	Type	Mfd.	W.V.	Net
7A366	C001	20-20-20	25	1.15
7A367	C002	40-40-40	25	1.27
7A368	C003	20-20-20	150	1.38
7A369	C004	40-20-10	150	1.33
7A370	C007	40-20-20	150	1.41
7A371	C008	40-30-20	150	1.47
7A372	C009	40-40-40	150	1.53
7A373	C010	40-70-40	150	1.73
7A374	C011	60-40-20	150	1.62
7A375	C012	80-40-20	150	1.71
7A376	C014	30-20-10	250	1.59
7A377	C016	40-20-20	250	1.71
7A378	C021	10-10-10	350	1.41
7A379	C024	10-10-10	450	1.53
7A380	C025	15-15-10	450	1.73
7A381	C026	20-10-10	450	1.70
7A382	C027	20-20-20	450	2.12
7A383	C028	30-20-20	450	2.26

Triple Section Units (Cont.)				
No.	Type	Mfd.	W.V.	Net
7A384	C029	30-30-20	450	2.41
7A385	C030	30-30-30	450	2.56
7A386	C031	30-60-10	450	2.65
7A387	C032	40-10-10	450	1.97
7A388	C033	40-30-20	450	2.50
7A389	C034	40-40-10	450	2.88
7A390	C035	40-40-40	450	2.88
7A391	C036	60-20-20	450	3.70
7A392	C037	80-40-20	450	2.18
7A393	C041	40-40-10	500	2.97
7A394	C042	15-15/1200	150/1.5	1.79
7A395	C043	20-20/20	150/25	1.29
7A396	C046	30-30/20	150/25	1.38
7A397	C048	40-20/20	150/25	1.35
7A398	C049	40-20/100	150/25	1.46
7A399	C051	40-20/20	150/25	1.59
7A400	C052	40-20/20	150/10	1.47
7A401	C054	40-30/20	150/25	1.38
7A402	C055	40-40/20	150/25	1.41
7A403	C056	50-10/20	150/25	1.47
7A404	C057	50-10/100	150/25	1.59
7A405	C058	50-10/20	150/25	1.56
7A406	C061	80-40/20	150/25	1.65
7A407	C065	15-15/20	250/25	1.38
7A408	C067	30-30/20	250/25	1.65
7A409	C071	20-20/20	300/25	1.62
7A410	C075	10-10/20	300/25	1.32
7A411	C076	10-15/20	300/25	1.46
7A412	C077	15-10/20	300/25	1.46
7A413	C078	20-10/20	350/25	1.90
7A414	C080	20-20/20	350/25	1.65
7A415	C083	30-30/20	350/25	1.82
7A416	C084	30-30/20	350/25	1.80
7A417	C085	10-10/20	450/25	1.41
7A418	C086	15-15/20	450/25	1.62
7A419	C087	20-10/20	450/25	1.62
7A420	C087	20-10/50	450/50	1.68
7A421	C089	30-20/20	450/25	1.79
7A422	C102	30-30/20	450/25	2.09
7A423	C103	30-50/40	450/50	2.15
7A424	C105	40-10/80	450/200	2.29
7A425	C106	40-20/20	450/25	2.05
7A426	C107	40-40/20	450/25	2.32
7A427	C108	40-40/40	450/25	1.44
7A428	C111	80-40/100	450/25	3.00
7A429	C112	10-10/100	500/50	1.68
7A430	C118	40-40/100	500/200	3.44
7A431	C121	120/15-10	100/150	2.67
7A432	C124	40/80-50	400/150	2.35
7A433	C128	80/40-50	250/150/50	1.94
7A434	C131	30/30-20	350/300/25	1.85
7A435	C136	10/40-10	450/300/150	1.81
7A436	C141	200/80-100	450/350/50	2.65
7A437	C143	40/40-100	450/400/50	2.15
7A438	C147	80/40-100	500/350/50	2.57

Quadrate Section Units				
No.	Type	Mfd.	W.V.	Net
7A470	D081	40-40-40-30	150	1.97
7A471	D084	80-10-10-10	250	2.78
7A472	D089	10-10-10-10	450	1.91
7A473	D020	20-20-20-20	450	2.76
7A474	D015	35-15-15-15	450	2.73
7A475	D017	40-20-10-10	450	2.63
7A476	D021	40-20-30-30	450	3.26
7A477	D018	10-10-10-15	500	2.06
7A478	D019	20-20-30/20	150/25	1.71
7A479	D021	30-30-30/40	150/25	1.70
7A480	D021	40-40-20/20	150/10	1.91
7A481	D024	40-40-10/20	150/25	1.87
7A482	D025	40-40-40/20	150/25	1.95
7A483	D026	40-40-40/100	130/75	1.87
7A484	D027	40-40-40/160	150/75	2.09
7A485	D028	50-30-30/100	150/25	2.03
7A486	D029	50-30-50/20	150/25	2.03
7A487	D030	60-40-20/250	130/10	2.06
7A488	D031	75-75-75/30	150/25	2.53
7A489	D032	80-40-40/30	150/25	2.20
7A490	D033	80-40-40/160	130/25	2.09
7A491	D036	100-40-100	250/30	3.03
7A492	D043	40-40-20/20	330/25	2.76
7A493	D044	40-40-20/25	380/25	2.90
7A494	D046	40-40-40/40	330/25	3.06
7A495	D047	40-40-40/150	350/50	3.35
7A496	D048	100-20-20/20	450/25	3.03
7A497	D052	20-20-20/20	450/25	2.44
7A498	D054	30-15-15/40	450/25	2.44
7A499	D055	30-20-20/20	450/25	2.59
7A500	D058	10-30-10/20	450/25	2.56
7A501	D063	40-20-20/40	450/25	2.73
7A502	D064	40-30-10/20	450/25	2.65
7A503	D065	40-40-10/25	450/50	2.76
7A504	D071	20-50-150/100	300/150/50	3.12
7A505	D075	10-10-10/20	450/350/50	3.06
7A506	D076	20/80-20/20	300/200/50	3.02
7A507	D084	15-15/80-40	475/300/50	2.82
7A508	D086	40-20-20/100	150/25	1.97
7A509	D089	20-20-20/20	450/25	2.12
7A510	D096	80-10/40-40	450/400/300/150	3.09

CENTRALAB — ERIE CAPACITORS



CENTRALAB HI-KAP TUBULAR CAPACITORS

Type TCZ. Type TCZ units are of the negative-positive-zero (NPO) type, and display no appreciable change in capacity over the extremely wide temperature range of minus 20° C. to plus 85° C. Voltage rating—600 volts d.c. working, 1200 v.d.c. flash test. *Tolerance plus-minus .25 mmf. **Tolerance plus-minus .5 mmf. †Tolerance plus-minus 2½%. ††Tolerance plus-minus 5%. Av. sh. wt. 2 oz.

Cat. No.	Cap. Mmf.	Net	Cat. No.	Cap. Mmf.	Net
63A035	.5*	.30	63A052	33.†	.29
63A036	.68*	.30	63A053	36.†	.29
63A037	1.*	.30	63A054	39.†	.29
63A038	1.5*	.30	63A055	47.†	.29
63A039	2.2*	.30	63B057	50.†	.29
63A040	3.3*	.30	63B058	56.†	.29
63A041	4.7**	.30	63A059	62.†	.29
63A042	6.8**	.30	63A060	68.†	.29
63A043	10.**	.30	63A061	75.†	.29
63A044	12.**	.30	63A062	82.†	.29
63A045	15.**	.30	63A063	91.†	.29
63A046	18.**	.30	63A064	100.†	.29
63A047	20.**	.30	63A065	110.††	.29
63A048	22.†	.29	63A066	120.††	.29
63A049	24.†	.29	63A067	130.††	.29
63A076	25.†	.29	63A068	150.††	.29
63A050	27.†	.29	63A072	220.††	.29
63A051	30.†	.29	63A075	300.††	.29

Type TCN. Negative temperature compensating units N750 rating. Voltage rating—600 volts d.c. working. *Tolerance plus-minus .5 mmf. **Tolerance plus-minus 2½%. †Tolerance plus-minus 5%. Av. wt. 2 oz.

Cat. No.	Cap. Mmf.	Net	Cat. No.	Cap. Mmf.	Net
63A078	3.3*	.30	63A101	91.**	.29
63A081	10.*	.30	63A102	100.**	.29
63A082	12.*	.30	63A103	110.**	.29
63A083	15.*	.30	63A104	120.†	.29
63A084	18.*	.30	63A105	130.†	.29
63A085	20.*	.30	63A106	150.†	.29
63A086	22.**	.29	63A107	160.†	.29
63A087	24.**	.29	63A108	180.†	.29
63A124	25.**	.29	63A109	200.†	.29
63A088	27.**	.29	63A110	220.†	.29
63A089	30.**	.29	63A111	240.†	.29
63A090	33.**	.29	63A112	270.†	.29
63A091	36.**	.29	63A113	300.†	.29
63A092	39.**	.29	63A114	330.†	.29
63A093	43.**	.29	63A115	360.†	.29
63A094	47.**	.29	63A116	390.†	.29
63A125	50.**	.29	63A117	430.†	.29
63A095	51.**	.29	63A118	470.†	.29
63A096	56.**	.29	63A119	510.†	.29
63A097	62.**	.29	63A120	560.†	.29
63A098	68.**	.29	63A121	620.†	.29
63A099	75.**	.29	63A122	680.†	.29
63A100	82.**	.29	63A123	750.†	.29

ERIE SILVER MICA BUTTONS—TYPE FA



Midget silver mica capacitors for use where compact size, minimum series inductance and high leakage resistance are essential. Unmatched for UHF work. 10% tolerance. Fasten to chassis with 3-48 screw. Shipping weight is approximately 4 oz.

Cat. No.	Mmf.	Net	Cat. No.	Mmf.	Net
63A016	15	.91	63A022	250	.91
63A017	25	.91	63A023	300	.97
63A018	50	.91	63A024	400	1.00
63A019	100	.91	63A025	500	1.06
63A020	150	.91	63A026	750	1.53
63A021	200	.91	63A027	1000	1.85

CENTRALAB HI-VO DISC CAPACITORS—SERIES DD60

Highly efficient for by-pass-coupling in high frequency circuits where conditions of extreme humidity or temperature. Maintain high capacity and performance at 850 C. Tolerances—all units, plus-minus 20%. 6000 WVDC, 12,000 VDC test. Sizes: (A—3/16x5/8") (B—5/16x3/4"). Sh. wt. 3 oz.



Cat. No.	Type	Mmf.	Size	Cat. No.	Type	Mmf.	Size
63A126	4R7	4.7	A	63A145	121	120	B
63A127	6R8	6.8	A	63A146	151	150	B
63A128	8R2	8.2	A	63A147	181	180	B
63A129	100	10	B	63A148	201	200	B
63A130	120	12	B	63A149	221	220	B
63A131	150	15	B	63A150	251	250	B
63A132	220	22	B	63A151	271	270	B
63A133	250	25	B	63A152	301	300	B
63A134	270	27	B	63A153	331	330	B
63A135	300	30	B	63A154	391	390	B
63A136	330	33	B	63A155	401	400	B
63A137	390	39	B	63A156	471	470	B
63A138	470	47	B	63A157	501	500	B
63A139	500	50	B	63A158	561	560	B
63A140	560	56	B	63A159	681	680	B
63A141	680	68	B	63A160	751	750	B
63A142	750	75	B	63A161	102	1000	B
63A143	820	82	B	63A162	122	1200	B
63A144	101	100	B	63A163	152	1500	B

Net Each29

CENTRALAB BUFFERS—SERIES DD16

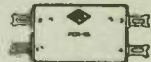
1600 WVDC. 3000 VDC test. Originally designed for use in electric shavers, these units have wide acceptance for use as buffers in auto radio sets, as they are totally unaffected by heat, humidity or vibration. Tolerance: GMV; *—20%+80%. Size: 7/8x5/32" except DD16-153 which is 7/8x1/4". Sh. wt. 3 oz.



Cat. No.	Type	Mmf.	Net
62A049	DD16-302	3000	.21
62A050	DD16-402	4000	.21
62A051	DD16-502	5000	.21
62B052	DD16-602	6000	.21
62A053	DD16-702	7000	.21
62B054	DD16-752	7500	.21
62B055	DD16-802	8000	.21
62B056	DD16-103	10000	.21
62B057	DD16-153*	15000	.35

TELEVISION H-PADS

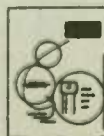
Designed for use in television antenna installations where signal strength needs attenuation to secure optimum performance. The H-Pad has four terminals, and is for installation in series with the standard 300 ohm antenna. *Set of 4 H-Pads. One of each. Sh. wt. 3 oz.



Cat. No.	Type	Rating	Net
62A071	PCH-10	10 db	.47
62A072	PCH-20	20 db	.47
62A073	PCH-30	30 db	.47
62A074	PCH-40	40 db	.47
62A075	*PCH-100	....	1.76

FREE PRINTED ELECTRONIC CIRCUIT GUIDE

A practical working manual that saves you time and money. Shows circuit schematics that guide you in using P.E.C.'s to replace standard components. Gives other useful information.



SERVICEMEN!

See Page 66 for Centralab Fastach TV Controls.

CENTRALAB CAPACITORS



TUBULAR BC HI-KAPS

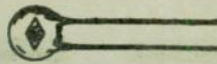
Type D6 Capacitors. The most trouble-free type of capacitor. Compact, moisture-proof. 600 WVDC 1000 VDC flash test. Phenolic insulation. Tolerance—plus-minus, 20% for values of 10 mmf. through 2200 mmf. For 2500 mmf. through 10000 mmf. the capacities are Guaranteed Minimum. Leads: No. 22 tinned copper, silver soldered to electrodes. Length 1½ inch minimum. Sh. wt. 2 oz.

Cat. No.	Type	Mfd.	Mmf.
62A001	100	.00001	10
62A002	120	.000012	12
62A003	150	.000015	15
62A004	180	.000018	18
62A005	220	.000022	22
62A006	250	.000025	25
62A007	270	.000027	27
62A008	330	.000033	33
62A009	390	.000039	39
62A010	470	.000047	47
62A011	500	.00005	50
62A012	560	.000056	56
62A013	680	.000068	68
62A014	750	.000075	75
62A015	101	.0001	100
62A016	121	.00012	120
62A017	151	.00015	150
62A018	181	.00018	180
62A019	201	.0002	200
62A020	221	.00022	220
62A021	251	.00025	250
62A022	271	.00027	270
62A023	301	.0003	300
62A024	331	.00033	330
62A025	391	.00039	390
62A026	401	.0004	400
62A027	471	.00047	470
62A028	501	.0005	500
62A029	561	.00056	560
62A030	601	.0006	600
62A031	681	.00068	680
62A032	751	.00075	750
62A033	102	.001	1000
62A034	122	.0012	1200
62A035	152	.0015	1500
62A036	182	.0018	1800
62A037	202	.002	2000
62A038	222	.0022	2200
62A039	252	.0025	2500
62A040	272	.0027	2700
62A041	302	.003	3000
62A042	332	.0033	3300
62A043	402	.004	4000
62A044	472	.0047	4700
62A045	502	.005	5000
62A047	682	.0068	6800
62A048	103	.01	10000
Net Each12			



C-D DOORKNOB CERAMIC

Type MMU-20T5. With interchangeable terminals. Has asst. of 6 different screw-in connections. 500 mmf. 20,000 WVDC. 1x1½". Sh. wt. 4 oz.
7C140, Net. 1.09
Type MMU-30T5. As above except 30,000 WVDC. Sh. wt. 4 oz.
7C141, Net. 1.76



CENTRALAB DISC HI-KAPS

The most complete line of standard ceramic disc capacitors available. All units 1000 WVDC, tested at 2000 VDC. All units through .005 mmf. built to U.L. test specifications for use in AC lines. Close tolerances—smallest available sizes. *Mfd. Sh. wt. 2 oz.

Type DD Single-Discs

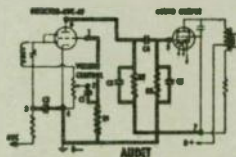
Cat. No.	Type	Mmf.
63A164	DD-3R3	3.3
63A165	DD-050	5
63A166	DD-6R8	6.8
63A167	DD-100	10
63A168	DD-200	20
63A169	DD-250	25
63A170	DD-330	33
63A171	DD-390	39
63A172	DD-500	50
63A173	DD-560	56
63A174	DD-680	68
63A175	DD-750	75
63A176	DD-101	100
63A177	DD-121	120
63A178	DD-151	150
63A179	DD-181	180
63A180	DD-201	200
63A181	DD-221	220
63A182	DD-251	250
63A183	DD-271	270
63A184	DD-301	300
63A185	DD-331	330
63A186	DD-391	390
63A001	DD-471	470
63A187	DD-501	500
63A188	DD-561	560
63A189	DD-681	680
63A190	DD-751	750
63A002	DD-801	800
63A003	DD-102	.001*
63A004	DD-152	.0015*
63A005	DD-202	.002*
63A191	DD-302	.003*
63A192	DD-472	.0047*
63A006	DD-502	.005*
63A007	DD-103	.001*
Net Each12		

Type DD-2 Standard Dual Discs

Cat. No.	Type	Mfd.	Net
63A008	DD-2-102	2x.001	.24
63A009	DD-2-152	2x.0015	.24
63A010	DD-2-502	2x.005	.27

Type DD-3 Shielded Dual Discs

Cat. No.	Type	Mfd.	Net
63A011	DD-3-102	2x.001	.27
63A012	DD-3-152	2x.0015	.27
63A013	DD-3-202	2x.002	.27
63A014	DD-3-502	2x.005	.29
63A015	DD-3-103	2x.01	.29



Audet Output Stage, Type PC-151. Size: 7/8x15/16x1/16". R1-6.8 meg; R2 & R3-470k; C1-5000 mmf; C2-220 mmf; C3 + C5-250 mmf; C4-5000 mmf. (use for added base response). Sh. wt. 2 oz.

62A069, Net.68

SEE LEO WAGFQ FOR THE BEST TRADE-IN DEAL

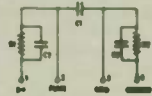
PRINTED CIRCUITS

Av. sh. wt. 2 oz.



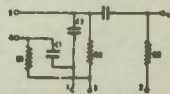
Midget No. 2 Couplate, Type PC-70. Plate size: 13/16"x9/16"x5/32" thick max. Capacitors, 450 WVDC. Resistors, 1/5 watt. C1-.005 mfd. C2 and C3-250 mmf. R1-500000 ohms. R2-500,000 ohms. **62A061, Net.**41

Midget No. 2 Couplate, Type PC-71. C1-.01 mfd. C2 and C3-250 mmf. R1-250000 ohms. R2-500000 ohms. **62A062, Net.**41



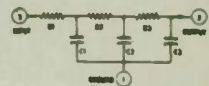
Standard Couplate, Type PC-80. Plate size: 1-3/32"x13/16"x7/32 inches thick max. Capacitors: 450 WVDC. Resistors: 1/5 watt. C1-.01 mfd. C2 & C3-250 mmf. R1-500000 ohms. R2-500000 ohms. **62A063, Net.**44

Standard Couplate, Type PC-81. C1-.01 mfd. C2 & C3-250 mmf. R1-250000 ohms. R2-500000 ohms. **62A064, Net.**44

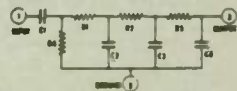


Pentode Couplate, Type PC-90. Plate size: 1-17/64x7/8x.045" Capacitors: 450 WVDC. Resistors: 1/5 watt. C1-.005 mfd. C2-50 mmf. C3-2000 mmf. R1-4.7 megohms. R2-1 megohm. R3-2.2 megohms. **62A065, Net.**53

Pentode Couplate, Type PC-91. C1-.005 mfd. C2-100 mmf. C3-.005 mfd. R1-4.7 megohms. R2-1 megohm. R3-2.2 megohms. **62A066, Net.**53



Vertical Integrator Plates, Type PC-100. Size: 1-3/32x13/16x1/8" thick max. Capacitors: 450 WVDC. Resistor: 1/5 watt. C1-.002 mfd. C2-.005 mfd. C3-.005 mfd. R1-22000 ohms. R2-8200 ohms. R3-8200 ohms. **62A067, Net.**65



Vertical Integrator Plates, Type PC-101. Size: 1-9/16x1-1/16x1/8" Capacitors: 450 WVDC. Resistor: 1/5 watt. C1-.01 mfd. C2-.002 mfd. C3 & C4-.005 mfd. R1-22000 ohms. R2 & R3-8200 ohm. R4-22000 ohm. **62A068, Net.**74

THORDARSON TRANSFORMERS



FGV



PUV



RTV



RAV



CAV



GGV



KTV

AUDIO INPUT TRANSFORMERS

Average shipping weight 1 lb.

Stk. No.	Mfr's Type	Fig.	Application	Turns Ratio	Mtg. Ctrs.	Net Price
12A001	20A00	BAH	Mic. or line to Sgl. or PP gr.	1:10	2"	2.06
12A002	20A01	FGV	Mic. or line to Sgl. or PP gr.	1:20	2-3/8"	3.53
12A003	20A02	FGV	Mic. or line to Sgl. or PP gr.	1:20	2-3/8"	3.82
12A004	20A05	RTV	Mic. or line to Sgl. or PP gr.	1:10	1-9/16"	8.82
12A005	20A06	RTV	Mic. or line to line	1:1	1-9/16"	8.82
12A006	20A03	BAH	Transceiver	1:35	2-3/8"	2.94
12A007	20A04	BAH	Lo imp. Mic. or VC to grid	1:80	2"	1.76

AUDIO INTERSTAGE TRANSFORMERS

Single Plate to Single or PP Grids

Average shipping weight 1 1/4 lbs.

Stock No.	Mfr's Type	Fig.	Turns Ratio	Mtg. Ctrs.	Net
12A010	20A16	BAH	1:2	2"	1.76
12A011	20A17	RAV	1:2	1-7/16"	3.82
12A012	20A22	BAH	1:3	2-7/8"	2.94
12A013	20A23	FGV	1:3	2-3/8"	3.82
12A014	20A27	RTV	1:2	2-7/8"	8.82
PP Plates to PP Grids					
12A015	20A24	FGV	1:3	2-3/8"	4.12
Single or PP Plates to Single or PP Grids					
12A016	20A19	BAH	1:3	2-3/8"	2.35
12A017	20A25	RTV	1:1.41	1-9/16"	7.35

MICROPHONE CABLE TRANSFORMERS

Average shipping weight 1 1/4 lbs.

Stock No.	Mfr's Type	Fig.	Ohms Pri.	Impedance Sec.	Turns Ratio	Dia.	Net Price
12A018	20A40	Z	30-60	50000	1:31.6	1"	17.64
12A019	20A41	Z	200-250	50000	1:42.2	1"	17.64

UNIVERSAL CHOKES

One reactor may be used in a single section filter with all the advantages of the radical swinging type. Two similar units may be employed in a two section filter more satisfactorily than the obsolete swing and smoothing system.

Stock No.	Mfr's Type	Fig.	Ind. DC Ma.	Rated Res.	Test Volts	Wt. Lbs.	Net
12A022	20C50	BAH	350	5	5500	2000	1 1/4 2.94
12A023	20C51	BAH	35	15	1850	1200	1/2 1.47
12A024	20C52	BAH	8	40	450	1200	1/2 1.47
12A025	20C59	BAH	7	55	200	1600	1/2 1.76
12A026	20C53	BAH	12	80	375	2000	1 1/4 2.06
12A027	20C64	BAH	4	130	100	1600	1/2 2.65
12A028	20C54	GGV	8	150	145	2700	2 3/8 3.82
12A029	20C54P	WTV	8	150	145	2700	3 3/8 6.86
12A030	20C55	GGV	6	200	75	2700	3 3/8 4.70
12A031	20C55CHT	WTV	6	200	75	2700	5 7/8 7.64
12A032	20C56	GGV	7	300	60	3500	6 1/4 6.47
12A020	20C56P	WTV	7	300	60	3500	8 1/2 10.58
12A021	20C57	PUV	10	500	65	7500	26 26.46

TUNED AUDIO CIRCUIT REACTOR

12A035	20C58	BAH	.75	0-10	30	1100	1/2 1.76
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DUAL TONE CONTROL COMPONENTS

12A036	20C74CHT	RAV	22 (Humbuck 220 500 and core)	1/2	3.53
12A037	R1068-X		Dual Tone Control Potentiometer		2.35
No.	Type	Fig.	Application	Lbs.	Net
12A038	20C73	RTV	200 to 3500 cy. band pass fil.	1/2	14.70

MULTI-MATCH MODULATION TRANSFORMERS

Stock No.	Mfr's Type	Fig.	Pri. Ea. Side	Secondary Series Per	Audio Power	Wt. Lbs.	Net Price
12A041	21M60	KTV	50	50	100	15	3% 12.35
12A042	21M60A	GGV	50	50	100	15	2 8.24
12A043	21M61	PUV	125	125	250	60	8% 19.41
12A044	21M61A	GGV	125	125	250	60	6% 12.94
12A028	21M62	PUV	210	160	320	125	16% 25.40
12A027	21M62A	GGV	210	160	320	125	15 16.46
12A029	21M64	PUV	250	250	500	300	20 40.48
12A030	21M65	PUV	320	320	640	500	55 67.62
12A049	21M66	KTV	500 ohms	5M, 6M, 7M, 8M, 9M, 10M			18.82

Sec. Max. 200 Ma. 50W. Wt. 1 1/2 lbs.



Z



BAH



WTV

DRIVER TRANSFORMERS

Stock No.	Mfr's Type	Fig.	Input Tubes	Output Tubes	Ratio	Wt. Lbs.	Net Price
12A052	20D75	BAH	6CS	2-30	2.4:1	1/2	2.06
12A053	20D76	BAH	6N7, 6A6, 6J5 (Sgl. Plt.)	6N7, 6A6, (Class B)	5.2:1	1/2	2.06
12A054	20D77	FGV	6F6, 6CS, (Sgl. Plt.)	2-46, 59 (Class B) 2-6F6, 2516 (Class AB2) 2-807 (Cl. B)	2.5:1	1 1/4	3.24
12A055	20D78	GGV	2-6F6 Triode.		4:1	2 1/2	5.00
12A056	20D79	FGV	6N7 or 6N7 triode, Triode 6V6 or 6F6 (Sgl. or PP Pri.)	2-6N7 (Cl. AB2)	5.2:1	1 1/4	4.12
12A057	20D80	GGV	45 (PP Pri.)	T20, T55, 80S, 100th etc. (Cl. B)	3.2:1 2:1	2 1/2	5.30
12A058	20D81	GGV	PP845, etc. (PP Pri.)	PP805, 833 (PP Cl. B Grids)	5:1	4 1/4	7.06
12A059	20D82	GGV	2-2A3, 45 (PP Pri.)	PP805, 833 etc. (Cl. B Grid)	5:1 4:1	2 1/4	5.88
12A060	20D83	PUV	500 ohm line	Multi-Match 20 W Cap. (Cl. B Grid)		8	22.35
12A061	20D84	GGV	500 ohm line	Multi-Match 20 W Cap.		3 1/2	12.94

FILAMENT TRANSFORMERS

Stock No.	Mfr's Type	Fig.	Volts	Secs	Ins. Rms	Wt. Lbs.	Net Price
12A064	21F00	BAV	2.5 CT	5	1600	1	2.94
12A065	21F01	BAV	2.5 CT	10	1600	1 1/4	3.53
12A066	21F02	CAV	2.5 CT	10	7500	2 1/4	4.70
12A067	21F02F	WTV	2.5 CT	10	7500	8 1/2	8.82
12A068	21F03	BAV	5 CT	3	1600	1	2.94
12A069	21F04	CAV	5 CT	8	1600	2 1/4	4.41
12A070	21F20	CAV	5 CT	15	10080	6 1/4	6.76
12A023	21F20P	WTV	5 CT	15	10000	13	14.11
12A072	21F05	CAV	5 CT	3	10000	2	4.70
12A073	21F06	CAV	5 CT	13	1600	2 1/4	4.41
12A074	21F07	CAV	5 CT	21	1600	5 1/4	7.06
12A075	21F08	BAV	6.3 CT	1	1600	1	2.06
12A076	21F10	BAH	6.3 CT	3	1600	1	2.94
12A077	21F11	CAV	6.3 CT	6	1600	2 1/4	4.70
12A078	21F12	CAV	6.3 CT	10	1600	2 1/4	4.41
12A079	21F14	BAH	6.3-5-2.5 (Tap Sec.)	2.5	1600	1	2.94
12A080	21F15	BAV	7.5 CT	4	1600	1 1/4	3.82
12A081	21F16	CAV	7.5 CT	8	1600	2 1/4	4.70
12A082	21F17	CAV	7.5 CT	12	1600	4	6.18
12A083	21F18	CAV	10 CT	5	1600	2 1/4	4.70
12A084	21F19	CAV	10 CT or 11 CT (Tap Pri.)	12	1600	5 1/4	7.06
12A085	21F22	GGV	7.5-6.3-5-2.5 (Sec No. 2 Tap)	3	1600	4 1/4	7.06

EXPANDER-COMPRESSOR FEEDBACK CONTROL TRANSFORMER

12A089	20A26	RTV	Feedback Trans.	1-5/16"	1/2	8.82
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MODULATION TRANSFORMERS

Stock No.	Mfr's Type	Fig.	Impedance Pri.	Sec DC Max	Audio Power	Wt. Lbs.	Net Price
12A091	21M50	BAH	10000 CT	4500 .03 A	3	1/2	2.35
12A092	21M52	FGV	10000 CT	4500 .08 A	10	1 1/4	3.53
			3750 3000				
12A093	21M54	GGV	6600 CT	4000 .1 A	25	2 1/2	5.00
12A025	21M56	GGV	10000 CT	6600 .2 A	75	6 1/4	9.70
			3750				
12A026	21M58	KTV	15000 CT	6250 .2 A	100	13	18.23

THORDARSON TRANSFORMERS



BHH



BAH



BAV



GGV



AGF

PLATE TRANSFORMERS

Stock No.	Mfr's Type	Fig.	Pri. Volts	Sec. Volts	DC CC's	Wt. Lbs.	Net Price
42A031	21P75	PUV	115-230	2500	500	135	108.72
				2030			
				1250			
42A032	21P77	PUV	115-230	2500	300	77	73.50
				2000			
42A033	21P79	PUV	115-230	1580	400	60	51.74
				1250			
42A034	21P81	PUV	115*	1250	300	57	52.92
				1000			
42A035	21P82	PUV	115*	2000	220	58	52.92
				1500			
43A001	21P83	PUV	115*	1250	200	33	29.40
				1000			
12A104	21P85	PUV	115*	600	300	19	22.05
				500			
12A105	21P87	GGV	115*	650	220	10	12.86
				500			
12A106	21P89	GGV	115	400	175	8%	8.12
43A032	21P91	PUV	115	1200	150	22	37.04
				750	110		
12A108	21P93	GGV	115	1000	96	10	13.24
				400	12%		

*Secondary voltage change by means of primary taps.

Fig. JUV-AMATEUR SPECIAL PLATE TRANSFORMER

Stock No.	Mfr's Type	Pri. Volts	Sec. Volts	DC CC's	Wt. Lbs.	Net Price
43A003	21P96	115	LO 2450-0-2450	2000	500 1600	63 78.79
			HI 3000-0-3000	2500		

UNIVERSAL REPLACEMENT POWER TRANSFORMERS

Stock No.	Mfr's Type	Plate Fig.	Volts	Ma	Rect. V.	Fl. A.	Wt. Lbs.	Net
12A112	22R00	AGF	500 CT	40	5	2 6.3 2.0	2 1/2	4.70
12A113	22R01	AGF	550 CT	50	5	2 6.3 2.5	3	4.70
12A114	22R02	AGF	600 CT	70	5	2 6.3 3.0	3 1/2	5.88
12A115	22R04	AGF	600 CT	90	5	2 6.3 3.5	3 1/2	6.18
12A116	22R05	AGF	800 CT	120	5	3 6.3 5.0	5 1/2	6.86
12A117	22R06	AGF	650 CT	150	5	3 6.3 5.0	6 1/2	7.06
12A118	22R07	AGF	700 CT	200	5	3 6.3 6.0	8 1/2	8.82
12A119	22R08	AGF	500 CT	40	5	2 2.5 4.0	2 1/2	4.70
12A120	22R09	AGF	550 CT	50	5	2 2.5 7.5	3	5.29
12A121	22R10*	AGF	650 CT	85	5	2 2.5 9.0	4 1/2	8.24
12A122	22R11**	AGF	650 CT	120	5	3 2.5 12.5	6 1/2	8.82
12A123	22R12*	BAH	150 V.	50	6	3 1.5	1 1/2	3.24

*Has additional 2.5V-3.5A winding. **Has additional 2.5V-5A winding. +For use with selenium rectifier. Either half wave or voltage doubler.

12A124	22R30	GGV	550 CT	50	5	2 6.3 2.5	4	5.82
12A125	22R31	GGV	720 CT	80	5	2 6.3 2.5	4 1/2	7.06
12A126	22R32*	GGV	700 CT	110	5	2 6.3 3.0	6 1/2	7.94
12A127	22R33	GGV	750 CT	160	5	3 6.3 5.0	8	9.41
12A128	22R34	GGV	770 CT	225	5	3 6.3 5.0	11	11.76
12A129	22R35	GGV	800 CT	340	5	6 6.3 7.0	13	12.94
12A130	22R36	GGV	1200 CT	200	5	3 6.3 5.0	9	10.59

*Has additional 6.3V-3A winding.

43A004	22R14	WTV	650 CT	135	5	24 6.3 4.0	16	19.99
		CHT*			5	3		
43A005	22R15	WTV	700 CT	110	5	2 6.3 3.0	9 1/2	14.70
		CHT+						
43A006	22R16	WTV	700 CT	90	5	2 6.3 2.25	9	10.58
		CHT						
43A007	22R17	WTV	750 CT	160	5	3 6.3 3.5	13	16.46
		CHT						

*Has 77V bias tap and additional 6.3V-2A winding. +Has additional 6.3V-3A winding.

"24" SERIES REPLACEMENT POWER

Stock No.	Mfr's Type	Plate Fig.	Volts	Ma	Rect. V.	Fl. A.	Wt. Lbs.	Net
12A138	24R00	AGF	480 CT	40	5	2 6.3 2.0	2	4.41
12A139	24R00U	GGV	480 CT	40	5	2 6.3 2.0	2	4.41
12A140	24R01	AGF	650 CT	40	5	2 6.3 2.0	2 1/2	4.70
12A141	24R01U	GGV	650 CT	40	5	2 6.3 2.0	2 1/2	4.70
12A142	24R02	AGF	700 CT	70	5	2 6.3 2.5	4	5.29
12A143	24R02U	GGV	700 CT	70	5	2 6.3 2.5	4	5.29
12A144	24R04	AGF	700 CT	90	5	3 6.3 3.5	4 1/2	5.88
12A145	24R04U	GGV	700 CT	90	5	3 6.3 3.5	4 1/2	5.88
12A146	24R05	AGF	700 CT	120	5	3 6.3 4.7	5 1/2	6.47
12A147	24R05U	GGV	700 CT	120	5	3 6.3 4.7	5 1/2	6.47
12A148	24R06	AGF	750 CT	150	5	3 6.3 4.7	6 1/2	7.06
12A149	24R06U	GGV	750 CT	150	5	3 6.3 4.7	6 1/2	7.06
12A150	24R07	AGF	800 CT	200	5	3 6.3 5.0	9	8.24
12A151	24R07U	GGV	800 CT	200	5	3 6.3 5.0	9 1/2	8.24

OUTPUT TRANSFORMERS

*Fig. BAH. IFig. GGV. +Fig. WTV. Type 22S90 in fig. PGV, and Type 22S92CHT in fig. RTV. Average shipping weight is 3 lbs.

No.	Type	Pri. Imp.	Sec. Imp.	Watt	Net
12A154	*22S45	1500-3000	3.2-4	3	1.76
12A155	*22S46	3000-6000	3.2-4	3	2.06
12A156	*22S47	6000-12000 CT	3.2-4	3	2.06
12A157	*22S48	12000-25000 CT	3.2-4	3	2.06
12A158	*22S56	8000/10000 CT	3.2-4, 6-8	8	2.94
12A159	*22S58	5000/7000 CT	3.2-4, 6-8	8	2.94
12A160	*22S60	2500/4000 CT	3.2-4, 6-8	8	2.94
12A161	12S64	10000 CT	3.2-4, 6-8, 15-250-500	25	5.59
12A162	12S66	8000 CT	3.2-4, 6-8, 15-250-500	25	5.59
12A163	12S68	6500 CT	3.2-4, 6-8, 15-250-500	25	5.29
12A164	12S70	5000 CT	3.2-4, 6-8, 15-250-500	25	5.29
12A165	12S72	3000 CT	3.2-4, 6-8, 15-250-500	25	5.29
12A166	12S78	3300 CT	3.2-4, 6-8, 15-250-500	60	7.64
12A167	12S93	10000 CT	3.2-4, 6-8, 15	16	6.47
12A168	12S94	10000 CT	3.2-4, 6-8, 15	10	8.82
	CHT				
12A169	12S95	5000 CT-3000 CT	3.2-4, 6-8, 15	15	7.06
12A170	12S96	5000 CT-3000 CT	3.2-4, 6-8, 15	15	9.41
	CHT				
12A171	12S97	6000 CT	3.2-4, 6-8, 15-250-500	25	7.35
12A172	12S98	6000 CT	3.2-4, 6-8, 15-250-500	25	10.58
	CHT				
12A173	*22S74	Universal CT	1 to 30	25	4.70
12A174	*22S62	4000-1500	1 to 30	8	2.94
12A175	*22S86	14000-2000	3.2-4, 6-8	3	2.35
12A176	*22S87	14000-2000	3.2-4, 6-8	6	2.65
12A177	*22S88	14000-2000	3.2-4, 6-8	8	2.94
12A178	*22S76	Universal CT	500 to 800	25	4.41
12A179	22S90	20000 CT	125-200-500 to 600	3	3.53
12A180	22S92	20000 CT	125-200-500 to 600	...	7.35
	CHT				
12A181	*22S80	500-600	3.2-4, 6-8, 15	8	3.23
12A182	*22S82	2000-500	3.2-4, 6-8, 15	25	5.00
12A183	*22S83	2000-500	3.2-4, 6-8, 15	15	3.53
12A184	*22S84	2000-500	3.2-4, 6-8, 15	5	3.23
12A185	*22S85	2000-500	3.2-4, 6-8, 15	3	3.23

"24" SERIES OUTPUT TRANSFORMERS

Stock No.	Mfr's Type	Fig.	Pri. Imp.	Max. Watts	Mtg. Ctr.	Wt. Lbs.	Net
12A188	24S48	BAH	4-5000	1	1 1/2	1	1.18
12A189	24S49	BAH	7-8000	1	1 1/2	1	1.18
12A190	24S50	BAH	2000	5	2	1	1.18
12A191	24S51	BAH	5000	5	2	1	1.18
12A192	24S52	BAH	7/10000	5	2	1	1.18
12A193	24S54	BAH	15/25000	5	2	1	1.18

"24" SERIES UNIVERSAL OUTPUT

12A194	24S60	BHH	4M, 7M, 8M, 10M, 14MCT	4	2	1 1/2	2.06
12A195	24S61	BHH	4M, 7M, 8M, 10M, 14MCT	8	2-3/8	1 1/2	2.35

SPLATTER SUPPRESSOR CHOKE

Stock No.	Mfr's Type	Fig.	Application	DC Res.	Rms Test	Wt. Lbs.	Net
12A197	20C60	KTV	Ind. .2 to 1.5H at 300Ma DC	30	9000	7 1/2	14.70
42A022	20C61	KTV	Ind. .2 to 1.5H at 300Ma DC	27	9000	9 1/2	17.64

PHOTO-FLASH TRANSFORMERS—Fig. BAV

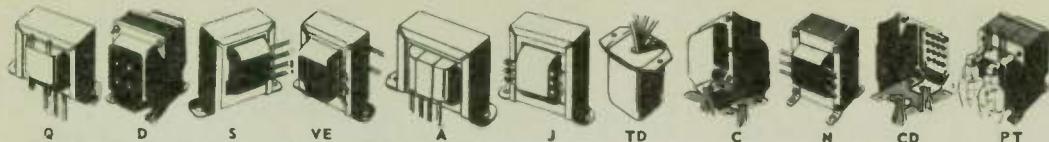
Average shipping weight is 2 lbs. *Fig. BAH

No.	Type	Application	Net
12A201	22R41	Pwr. Trans. Pri. 4V Vib. (115 Cy. or higher) Sec. 450V DC or 900V DC at 15Ma.	3.23
12A202	22R42	Pwr. Trans. Pri. 117 v 60 Cy. Sec. 2250 VDC 1.5Ma. -2.5V at 1.75A	5.30
12A203	22R43	Pwr. Trans. Pri. 117V 60 Cy. or 4V Vib. Snc. 1100V AC-1/5Ma. DC	7.35
12A204	22R44*	Ignition Trans. Pri. 200V cond. Dis. Sec. 1500V Peak	3.82

VIBRATOR POWER TRANSFORMERS

Stock No.	Mfr's Type	Fig.	Pri. VDC	Sec. VDC	No. 2	Wt. Lbs.	Net
12A207	22R25	TTV	6-8	150	40	2 1/2	4.41
12A208	22R27	TTV	6-8	250	50	2 1/2	4.70
12A209	22R20	CAV	6-8	250	50	3 1/2	4.70
12A210	22R22	CAV	6-8	325	75	3 1/2	5.29
12A211	22R24	GGV	6-8	325 135	6.3V CT, 4.75 A	8 1/2	9.70

STANCOR TRANSFORMERS



MICROPHONE OR LINE TO LINE (Pri. & Sec. 500/333/200/125/50)									
No.	Type	Fig.	H.	W.	D.	Lbs.	Net		
13A001	A-4350	Q	2"	3 1/2"	1 1/2"	1	3.82		
13A002	A-4407	D	3-3/16"	2-5/8"	3 1/4"	2 1/2	7.70		

*Has a dual primary—when properly connected, the 500 and 200 ohm sections are center tapped.

→Has a static shield between primary & secondary windings.

MICROPHONE PICKUP OR LINE TO GRID (S.B. Mic to PP Grids)									
No.	Type	Pri.	Sec.	Fig.	H.	W.	D.	Lbs.	Net
13A003	A-4742	100	400000 CT	S	2-5/16"	2-7/8"	1 1/2"	1 1/2	2.76
13A004	A-4743	100	400000 CT	VE	2-5/16"	2-7/8"	2-1/8"	1 1/2	3.79

INTERCOMMUNICATOR AND TRANSCIVER

Type A-4744 has a primary of 4 & secondary of 25000 ohms. Type A-3833 has a primary of 200 & 5000 & a secondary of 60000 ohms. Average shpg. wt. 1 lb.

No.	Type	Application	Watts	Fig.	H.	W.	D.	Lbs.	Net
13A005	A-4744	Intercom. Input	...	VE	1-3/8"	2-3/8"	1 1/2"	1.64	
13A006	A-3833	Transceiver In-	5	A	1-5/8"	2-7/8"	1 1/2"	2.53	

put mic & plate to grid

PUSH-PULL INPUT

Single Plate (7000 to 15000 Ohms) To Push-Pull Class "A" Grids Recommended for use in super-regenerative circuits. Has a static shield between primary and secondary windings. Max. pri. DC: 10 ma.

No.	Type	Ratio	Fig.	H.	W.	D.	Lbs.	Net
13A009	A-4745	2:1	TD	2-1/16"	2 1/2"	2-3/16"	2	5.00

PUSH-PULL INTERSTAGE

Push-Pull Plates (7000 to 15000 ohms) To Push-Pull Class A Grids									
No.	Type	Ratio	Fig.	H.	W.	D.	Lbs.	Net	
13A011	A-4711	1:1	A	1-5/8"	2-7/8"	1-1/2"	3/4	2.15	

Push-Pull Plates (7000 to 20000 ohms) To Parallel or Push-Pull Grids This unit has a pie-wound split secondary.

13A014	A-4774	3:1	S	2-5/16"	2-7/8"	1-3/4"	1 1/2	2.70	
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SINGLE DRIVERS (Single Plate To Push-Pull Grid)

Pri.									
No.	Type	Ohms	Ratio	Ma.	Fig.	H.	W.	D.	Lbs. Net
13A015	A-4723	10000	3:1	30	A	1-5/8"	2-7/8"	1 1/2"	1.76

SINGLE PLATE TO VOICE COIL

Types A-3885 and A-3310 are Fig. A. Type A-3310 is Fig. C.

No.	Type	Application	Ohms	Watts	Ma.	W.	D.	Lbs.	Net
13A020	A-3310	5M-500/15/8/4	20	3-1/8x2-5/8x2-5/8"	2 1/2	4.73			
13A021	A-3878	7M-4	5	1-3/8x1-3/8x1-3/8"	1 1/2	1.15			

PUSH-PULL PLATES TO VOICE COIL

All types are Fig. C except types A-3831 & A-3857 which are Fig. A. *This unit has a tertiary winding to provide 100% inverse feedback.

No.	Type	Applications-Ohms	Watts	Ma.	W.	D.	Lbs.	Net
13A023	A-3802	3.8M-3.3M-500/250/8/4	75	4 1/2x4x3-7/8"	8	6.38		
13A024	A-3851	4M-500/250/15/8/4	30	3-5/8x3x3-1/8"	3 1/2	6.35		
13A025	A-3800	5M-500/250/15/8/30	30	3-5/8x3x3-3/8"	3 1/2	5.12		
13A026	A-3801	6.8M-500/250/15/8/4	35	4x3 1/2x3-3/8"	6	6.15		
13A027	A-3311	10M-500/15/8/4	25	3-5/8x3x3-1/8"	3 1/2	5.35		
13A028	A-3831	10M-8/4/2	5	1-5/8x2-7/8x1 1/2"	1 1/2	1.97		
13A029	A-3303	14M-500/15/8/4	20	3-3/16x2-5/8x2-5/8"	2 1/2	5.76		
13A030	A-3857	25M-4	5	1-3/8x2-3/8x1-3/8"	1 1/2	1.50		

UNIVERSAL OUTPUT

All types are Fig. Q except type A-3830 which is Fig. J.

No.	Type	App.-Ohms	Watts	H.	W.	D.	Lbs.	Net
13A031	A-3856	4-14M CT	4	1-3/8x2-3/8x1-3/8"	1 1/2	1.70		
13A032	A-3822	7-10M	4	1-3/8x2-3/8x1-3/8"	1 1/2	1.62		
13A033	A-3848	7-16M	5	1-3/8x2-3/8x1-3/8"	1 1/2	2.29		
13A034	A-3823	4-14M CT	8	1-5/8x2-7/8x1-1/2"	1 1/2	1.82		
13A035	A-3825	1.5-4.5M	8	2x3-1/4x1-5/8"	1 1/2	2.32		
13A036	A-3824	6-10M CT	8	2x3-1/4x1-5/8"	1 1/2	2.91		
13A037	A-3830	3-10M CT	20	2-1/16x3-5/16x2 1/2"	1 1/2	3.18		

LINE TO VOICE COIL

Type A-3837 is auto-transformer and is designed to operate one or more speakers in parallel across a 500 ohm line. Av. sh. wt. 2 lbs. *Sec.: 8/4/2.5/2.35/2.1/5/0.7/0.5/0.3/0.2/0.1/0.05.

No.	Type	Pri.	Sec.	Watts	Fig.	Size	Net
13A045	A-3818	1500/1000/500	15/8/4	25	J	3-1/8x3-5/8x2 1/2"	3.21
13A046	A-3882	500/333/250	15/8/4	25	D	3-1/8x2-5/8x3 1/4"	5.47
13A047	A-3837	500	"	15	J	2-5/16x2-7/8x2 1/2"	3.24

EASY TIME PAYMENTS—NAME YOUR OWN TERMS

TUBE TO LINE (Single Plate or Push-Pull Plates to Line)									
No.	Type	Pri.	Sec.	Ma.	Fig.	Size	Lbs.	Net	
13A043	A-3250	20M/10M/5M	500/333/200/125/50	15 Q	2x3 1/2x1 1/2"	1	2.91		

VIBRATOR TRANSFORMERS

6 volt DC primary. *6 volt DC and 117 volt AC primary. All types are Fig. N except type P-6166 which is Fig. C.

No.	Type	AC Volts	Sec. DC to Filter	Ma.	Size	Lbs.	Net
13A196	P-4062	300-0-300	260	65	3-1/8x2 1/2x2-5/8"	2	4.21
13A197	P-4063	320-0-320	285	75	3-1/8x2 1/2x2 1/2"	3	5.35
13A198	P-6131	370-0-370	330	100	3 1/2x2-7/8x2-7/8"	4	5.91
13A199	P-6166	350-0-350	.....	135	4 1/2x3-5/8"	7	9.91

PLATE MODULATION *Secondary used as primary.

No.	Type	Pri.	Sec.	Output Tubes	Watt Fig.	Lbs.	Net
13A048	A-3812	10MCT	4M	Sq1-38, 37, 41, 5 A	6K6, 19	2.15	
13A050	A-3845	10MCT	8M/6.5M/5M/3M	Sq1-53, 79, 8A6, 25 C	6N7, 6Y7, 42, 2A5, 6F6, 6V6.	4.91	
13A053	A-3808	3.8M/3.3MCT	10M/7.5M/5M/4M	PP-6L6, 807, PP-Par-6L6	60 D	7 1/2	11.03
13A056	A-3829	9M/6.9MCT	6.25M/5M/4M/3.3M	PP-RK12, 35T, T40, T24u, 809, 100TL	175 D	11	13.97
13A064	A-3871	4.5MCT	8.5M	Sq1-6L6, HY69, 10	6N6, 6B5, 6F6,	10 TD	1 1/2 3.91

POLY-PEDANE DRIVER

Multi-tapped units for use in circuits where the optimum ratio cannot be predetermined. Match driver tubes to any Class B modulator grid circuit. Types A-4761 & A-4762 have a capacity of 15 watts. Type A-4763 has a capacity of 30 watts. All are Fig. CD. Approx. shpg. wt. 3 1/2 lbs.

No.	Type	Application & Ratio	Dimensions	Net
13-59	A-4761	1.25/1.41/1.6/1.8/2.1/2.25/1/2.4/1/2.6/1/3/1.3/2.1/3.4/1/4/1.4/5/1/5/1	3-3/16x2-5/8x3-5/8"	9.79
13-60	A-4762	2.6/1/3/1.3/2.1/3.4/1/4/1.4/5/1/5/1	3-3/16x2-5/8x3-1/8"	9.23
13-61	A-4763	1.25/1.5/1.7/1.75/1/2/1.25/1/3/2.1	3-5/8x3x4"	11.43

POLY-PEDANE MODULATOR

Multi-tapped. Will match all common impedances of class "B" modulator (2,000 to 20,000 ohms) to class "C" load impedances of 2,000 to 20,000 ohms.

No.	Type	Max. Watt	Pri.	Sec.	Fig.	Size	Lbs.	Net
13A202	A-3891	15	100 ma	D	3-3/16x2-5/8x2-7/8"	2 1/2	8.00	
13A203	A-3892	30	150 ma	D	4x3 1/2x3-5/8"	4 1/2	10.11	
13A204	A-3893	60	180 ma	D	4x3 1/2x4-1/8"	6 1/2	10.94	
13A205	A-3894	125	225 ma	D	4 1/2x4-5/8"	9 1/2	13.23	

FIG. C. PLATE TRANSFORMERS

All primary windings for 117V., 60 cycle operation. DC output rated CCS at load terminals of single-section reactor-input filter, ICAS with single-section capacitor-input filter. *Reactor input. +Capacitor input (rating is for intermittent duty). PC8306 is tapped for use with dual rectifier-filter systems to deliver 2 rated outputs simultaneously.

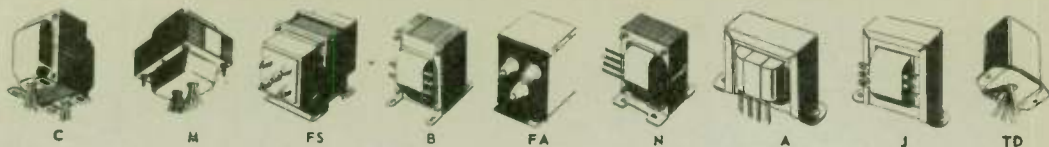
No.	Type	PC	DC output	DC output	Ma.	Volts	Ma.	Volts	Size	Lbs.	Net
44A001	8301	415-0-415	300	200	425	180	4x3 1/2x3-7/16"	5	7.09		
44A002	8302	515-0-515	385	235	500	200	4-5/16x3-5/8x4-1/8"	7	9.08		
44A003	8303	665-0-665	500	250	500	200	4 1/2x4-5/8x4-7/8"	10	11.50		
44A004	8304	750-0-750	600	265	650	200	4 1/2x4-5/8x4-7/8"	12	12.88		
44A005	8305	920-0-920	750	250	1000	200	4 1/2x4-5/8x4-7/8"	12	13.44		
44A006	8306	500-0-500	380	150	500	125	4x4x4x5"	12	13.64		

STANCOR PLATE TRANSFORMERS

PT mounting. Provides direct, protected path to anodes (insulated plate caps required) of rectifier tubes with heavily insulated, HV leads out of top of transformer. Primarily brought out bottom for concealed sub-chassis wiring. DC output rated at load terminals of single-section, reactor-input filter with full-wave mercury vapor rectification. Primaries for 117 volts, 60 cycles. Average shpg. wt. is 24 lbs., except for type PT8311 which is 13 lbs.

No.	Type	VDC	DC Ma.	CCS ICAS	Size	Net
44A011	PT8311	1000	225	280	4x4x5-1/8"	14.82
44A012	PT8312	1000	325	405	5-3/8x4-5/8x6-5/8"	24.52
44A013	PT8313	1250	250	310	5-3/8x4-5/8x6 1/2"	23.49
44A014	PT8314	1500	225	280	6x4x6-5/8"	27.11
44A015	PT8315	1750	200	250	6x4x6 1/2"	27.34

STANCOR TRANSFORMERS



POWER TRANSFORMERS

All secondaries are center tapped except type PC-8414 which has extra winding: 6.3 V at 3 A, and voltages marked *. **80V bias. Plate voltages listed in AC. Ma. In DC. Primaries 117 VAC, 60 cy.

FIG. C. 6.3 VOLT AMPLIFIER FILAMENT SUPPLY

Stk. No.	Mfr's Type	Plate V	Rect. V	Fil. I	Overall Size	Wt. Lb.	Net
13A146	PC-8406	650	40	5 2 6.3	2.0 3-3/16x2-5/8x2 3/4"	2 1/2	4.06
13A147	PC-8407	650	50	5 2 6.3	2.6 3-3/16x2-5/8x3-1/8 3/4"	2 3/4	4.47
13A148	PC-8408	680	70	5 3 6.3	3.0 3-5/8x3-3/8 3/8"	4	5.06
13A149	PC-8409	700	90	5 3 6.3	3.5 3-5/8x3-3/8 3/8"	4 1/4	5.64
13A150	PC-8410	720	110	5 3 6.3	4.5 4x3 1/4x1 1/4"	5 1/2	6.23
13A152	PC-8411	750	160	5 3 6.3	4.5 4x3 1/4x1 1/4"	6	7.47
13A153	PC-8412	800	200	5 3 6.3	5.0 4x4x4 1/4"	8 1/2	8.41
13B155	PC-8413	800	250	5 4 6.3	5.0 4x4x4 1/4"	10	10.55
13A154	PC-8414	1200	200	5 3 6.3	3.0 4x4x4 1/4"	8 1/2	10.61

FIG. C. 2.5 & 6.3 OR 7.5 VOLT AMPLIFIER FILAMENT SUPPLY

13A158	P-3005	720	125	5 3 2.5	1.0 4x4x3-7/8"	8	11.94
				5 2 6.3			
13A159	P-4004	800	175	5 3 2.5	1.75 4x4x3-7/8"	8 1/4	10.49
				6.3 2.5			
				6.3 2.5			

FIG. M. 6.3 VOLT AMPLIFIER FILAMENT SUPPLY

13A163	PM-8401	740	40	5 2 6.3	2.0 2-5/8x2 3/4x3"	2 1/2	3.97
13A164	PM-8406	650	40	5 3 6.3	2.0 2 1/2x2 3/4x3"	2 1/2	4.06
13A165	PM-8408	680	70	5 3 6.3	2.5 3 1/2x2-7/8x3-3/8 3/4"	3 1/4	5.06
13A166	PM-8404	520	90	5 3 6.3	2.8 3-5/8x2-7/8x3-3/8 3/4"	4 1/4	5.55
13A167	PM-8409	700	90	5 3 6.3	3.5 3 1/2x2-7/8x3-3/8 3/4"	4 1/4	5.64
13A168	PM-8410	720	120	5 3 6.3	4.7 3 1/2x3-1/8x3 3/4"	5 1/2	6.23
13A169	PM-8405	540	125	5 3 6.3	4.5 3 1/2x3-1/8x3 3/4"	5	6.15
13A170	PM-8411	750	150	5 3 6.3	5.0 3-7/8x3 1/2x4-1/8 3/4"	5 1/2	7.47
13A171	PM-8412	800	200	5 4 6.3	5.5 3-7/8x3 1/2x4 1/4"	8 1/2	8.39
13A172	P-6315	740	275	5 3 6.3	7.0 4 1/2x3 1/2x4 1/4"	9 1/4	11.46

PLATE SUPPLY TRANSFORMERS

Designed to deliver the rated DC voltage and current outputs when used with full-wave mercury-vapor rectifier tubes in conjunction with a two section filter employing choke input and two mfd. condensers working into a resistive load. Assured protection from voltage breakdowns.

No.	Type	DC Volts	Ma.	Fig.	Size	Lbs.	Net
13A178	P-8040	400, 40	300	C	4 1/2x4x4 1/4"	9	11.20
13A179	P-8041	500, 400, 40	250	C	4-3/8x4x5-1/8"	13	12.14
13A180	P-8042	600, 400, 40	300	C	4 1/2x4x6-3/8"	18	17.91
42A004	P-8043	750, 600, 40	300	FS	7-5/8x6-1/8x8"	29	33.35
42A007	P-8025	1000, 750	400	FS	7-5/8x6-1/8x8"	35	42.35
42A009	P-8028	1500, 1250	300	FS	7 1/2x7-3/8x8 1/2"	29	42.52
42A010	P-8029	1500, 1250	500	FS	11 1/2x7-3/8x8 1/2"	65	66.09
42A012	P-8035	2500, 2000	500	FS	11 1/2x7-3/8x9 1/2"	80	86.38

FILTER CHOKES (Smoothing Chokes For DC Power Supplies)

No.	Type	Hy.	Mo.	Ohms	Fig.	Size	Lbs.	Net
13A070	C-1515	20.0	15	900	A	1-5/8x2-7/8x1 1/4"	1	1.30
13A071	C-1706	4.5	50	300	A	1-3/8x2-3/8x1-3/8"	1/2	1.09
13A072	C-1707	7.0	50	550	A	1-3/8x2-3/8x1-3/8"	1/2	1.15
13A073	C-1003	16.0	50	580	A	2x3 1/2x1 1/4"	1 1/4	1.44
13A074	C-1002	15.0	75	400	A	2 1/2x3 1/2x1 1/4"	1 1/4	1.91
13A075	C-1420	16.0	80	360	C	3-3/16x2-5/8x2-5/8"	2 1/2	3.18
13A076	C-2305	5.0	100	300	TD	2-11/16x2 1/2x2-1/16"	1 1/2	2.76
13A068	C-1001	10.5	110	225	A	2-5/8x4x2 1/4"	2 1/2	2.61
13A067	C-2303	2.5	130	100	A	2x3 1/2x1 1/4"	1	1.82
13A077	C-1421	7.0	140	165	C	3-3/16x2-5/8x2-5/8"	2 1/2	3.61
13A078	C-1710	7.0	150	200	A	2-5/8x4x2 1/4"	2 1/2	2.91
13A079	C-1410	4.0	175	100	C	3-3/16x2-5/8x2-5/8"	2 1/2	3.70
13A080	C-1411	4.5	200	80	C	3-5/8x3-3/8x1-3/8"	3 1/2	4.21
13A081	C-1721	8.5	200	120	N	3-7/8x3-1/8x3 1/4"	4 1/2	4.82
13A082	C-1412	4.0	250	60	C	3-5/8x3-3/8x1 1/4"	4 1/2	6.15
13A083	C-1722	8.0	300	80	N	4-5/8x3-3/8x3 1/4"	7 1/2	8.00
13A084	C-2308	8.0	300	80	C	4 1/2x4x3-7/8"	7 1/2	8.09
13A085	C-1413	8.0	300	80	D	4 1/2x4x4-1/8"	7 1/2	8.09
13A086	C-1414	7.5	400	65	D	4 1/2x4x5-1/8"	11 1/4	11.64
42A001	C-1415	6.0	500	75	FS	7-5/8x6-1/8x7"	23 1/2	26.93

SWINGING CHOKES

(Varying Inductance For Input Section Of DC Power Supplies)

No.	Type	Hy.	Mo.	Ohms	Fig.	Size	Lbs.	Net
13A088	C-1718	13.5-3.5	150	130	C	3-3/16x2-5/8x2 1/4"	2 1/2	3.73
13A089	C-1400	12-2	175	100	C	3-3/16x2-5/8x2-5/8"	2 1/2	4.18
13A090	C-1401	12-2	200	80	C	3-5/8x3-3/8x1-3/8"	3 1/2	4.76
13A091	C-1402	12-2	250	60	C	3-5/8x3-3/8x1 1/4"	4 1/2	6.15
13A092	C-1720	20-4	300	80	N	4-5/8x3-3/8x3 1/4"	7 1/2	8.82
13A093	C-2307	20-4	300	80	C	4 1/2x4x3-7/8"	8	7.91
13A094	C-1403	20-4	300	80	D	4 1/2x4x4-1/8"	8	7.94
13A095	C-1404	17-3	400	60	D	4 1/2x4x5-1/8"	11 1/4	11.64
42A002	C-1405	16-4	500	75	FS	7-5/8x6-1/8x7 1/2"	24 1/2	23.93

FILTER CHOKES (For Use In DC-DC Power Supplies)

13A097	C-1325	5.0	50	250	A	1-5/8x2-7/8x1 1/4"	1	1.35
13A099	C-1227	7.0	50	350	A	1-5/8x2-7/8x1 1/4"	1	1.47
13A100	C-1333	8.0	50	450	A	1-5/8x2-7/8x1 1/4"	1	1.32

FILAMENT SUPPLY TRANSFORMERS WITH SINGLE SECONDARY

All have center tapped secondaries. *117/107 volt primaries. All others have 117 volt primaries.

No.	Type	V.	A.	Insul.	Fig.	Dimensions	Lbs.	Net
13A107	P-3024	2.5	10	2500	C	3-3/16x2-5/8x2-5/8"	2 1/2	4.41
13A108	P-3060	2.5	10	10000	B	3 1/2x2-7/8x2 1/4"	2 1/2	4.06
13A110	P-3026	5.0	3	2500	C	3-3/16x2-5/8x2-5/8"	2 1/2	4.41
13A111	P-4088	5.0	3	2500	B	3-1/8x2 1/2x2 1/4"	1 1/2	3.21
13A112	P-3062	5.0	6	2500	B	3-1/8x2 1/2x2 1/4"	2 1/2	3.73
13A113	P-5000	5.0	6	2500	C	3-3/16x2-5/8x2-7/8"	3	5.12
13A114	P-6135	5.0	10	2500	N	3-1/8x2 1/2x2-7/8"	3	4.15
42A014	P-6302	5.0	22	10000	FA	5-1/8x4 1/2x8 1/2"	13 1/2	16.34
13A119	P-6134	6.3	1.2	2500	A	1-5/8x2-7/8x1-5/8"	1	1.70
13A120	P-5014	6.3	3	2500	B	3-1/8x2 1/2x2 1/4"	2	3.03
13A121	*P-4019	6.3	4	2500	C	3-3/16x2-5/8x2-5/8"	2 1/2	4.23
13A122	P-3064	6.3	6	2500	B	3-1/8x2 1/2x2-7/8"	2 1/2	3.67
13A123	*P-6308	6.3	10	2500	N	3 1/2x2-7/8x3 1/4"	3 1/2	4.41
13A124	*P-6309	6.3	20	2500	N	4-5/8x3 1/2x3 1/4"	6 1/2	8.35
13A125	P-5015	7.5	4	2500	B	3-1/8x2 1/2x2-7/8"	2 1/2	3.73
13A126	*P-4091	7.5	5	2500	C	3-5/8x3 1/2x3 1/4"	3 1/2	5.91
13A127	P-6138	7.5	8	2500	N	3-7/8x1-1/8x2-7/8"	4 1/4	5.41
13A128	*P-4096	10.0	5	2500	C	4x3 1/2x3-1/8"	4	5.35
13A129	P-6139	10.0	8	2500	N	3-7/8x3-1/8x3-1/8"	5	5.47
42A016	*P-5002	10.0	12	7500	FA	5-1/8x4 1/2x8 1/2"	14 1/2	15.73

FILAMENT SUPPLY WITH MULTIPLE SECONDARY

All have 2500 volt insulation. Type P-5009 and P-4022 have 117/107 volt primaries; the rest have 117 volt primaries. All voltages center *apped except those marked *.

No.	Type	V.	A.	Fig.	Size	Lbs.	Net
13A133	P-6144	2.5	3.5	C	3-5/8x3x3-1/8"	3 1/4	6.88
		5.0	3.0				
		6.3	3.0				
13A134	P-6338	2.5*	3.0	N	3 1/2x2-7/8x2 1/4"	3 1/4	6.52
		5.0*	3.0				
		5.0	2.0				
		6.3	3.0				
13A135	P-5009	5.0	3.0	C	4x3 1/2x3 1/4"	4 1/2	7.85
		6.3	6.0				
13A136	P-4022	5.0	6.0	C	3-3/8x3-3/8x4 1/4"	4 1/2	7.38
		6.3	6.0				
13A137	P-6333	5.0*	3.0	B	3 1/2x2-7/8x3-7/8"	4 1/2	7.50
		5.0*	3.0				
		6.3	4.0				
		7.5/6.3	3.0				



MERIT A-3104 15 WATT MODULATION TRANSFORMER

Primary Current 50 Ma. Per Side. *Series/Parallel
No. Pri. & Sec. Imp. Max. Sec. Ma. Dimensions Fig. Lbs. Net
18A052 2000-20000 50/100* 3-3/16x2-5/8x2 1/4" A 3 1/2 6.76

THORNDARSON SPLITTER CHOKES-T-20C62
No. Inductance DC Res. Test V. Mfg. Ctrs. Fig. Lbs. Net
12A199 10 to 1.5H 95ohms 2700 2-13/16" B 2 3.23

600 WATT KENYON MODULATION TRANSFORMER-T-442
No. Pri. Imp. Sec. Imp. Max. VDC Size Fig. Lb. Net
43A013 500-18000 200-19000 3000 7x8x8 1/2x10-5/8" C 47 52.98



SUPERIOR VARIABLE VOLTAGE CONTROLS

Movable brush top which rotates to deliver a continuously adjustable output voltage from AC power lines. All are for 115 VAC sources except type 1256 which requires 230 volts. Will operate at 50 cycles when "L" connected so output voltage does not exceed the input.

No.	Type	Fig.	Output V.	Output A.	Freq.	KVA	Lbs.	Net
43A019	10	A	0-132	1.3	60	0.2	3	8.50
43A008	20*	B	0-135	3.0	60	0.4	6	12.50
43A009	116	B	0-135	7.5	50/60	1.0	12	23.00
43A010	116U	B	0-135	7.5	50/60	1.0	12	18.00
43A012	1256	C	0-270	28.0	50/60	7.6	80	118.00

LEO GIVES TERMS TO SUIT YOUR BUDGET

CAF CAG CAE CAD CAA CAV CSY BAH BAV TAV RAS OC

Write for Thordarson TV Guide which gives complete replacement data. Average shpg. wt. 2½ lbs.

DEFLECTION YOKES

All yokes have leads and network installed. Cosine wound for anti-astigmatic focusing. *Exact replacement for RCA74952, with plug. **Exact replacement for Motorola 24K700694. †Exact replacement for Sylvania 100-003,5,6,7. ‡Exact replacement for Motorola 24K733239B, with plug. Av. sh. wt. 1½ lbs.

WIDTH AND LINEARITY CONTROLS

*Units specially designed for use in "Double Action" width control circuits—one coil in parallel with flyback transformer, the other in series with deflection yoke. Type WC-21 and WC-24 are PR type mounting—others are IF type mounting. Av. sh. wt. $\frac{1}{2}$ lb.

HORIZONTAL BLOCKING OSCILLATOR TRANSFORMERS

Type 24A89. Turns ratio: 2:1. BAH mounting type. 2" mtg. ctrs.
Sh. wt. $\frac{1}{2}$ lbs.

14A373, Net 1.76

14A374, Net 2.65

*Autoformer type. Average shpg. wt. 2¼ lbs.

HIGH VOLTAGE OSCILLATOR COILS

Type HVO-50. 10KV at 50UA with recommended circuit. 8KV at 400UA. OC mounting type. 1 1/4" mtg. ctrs. Sh. wt. approx. 1 1/4 lbs.

14A243, Net	4.70
Type HVO-51, 30KV at 50UA with recommended circuit. OC mount-	

14A244, Net	7.35
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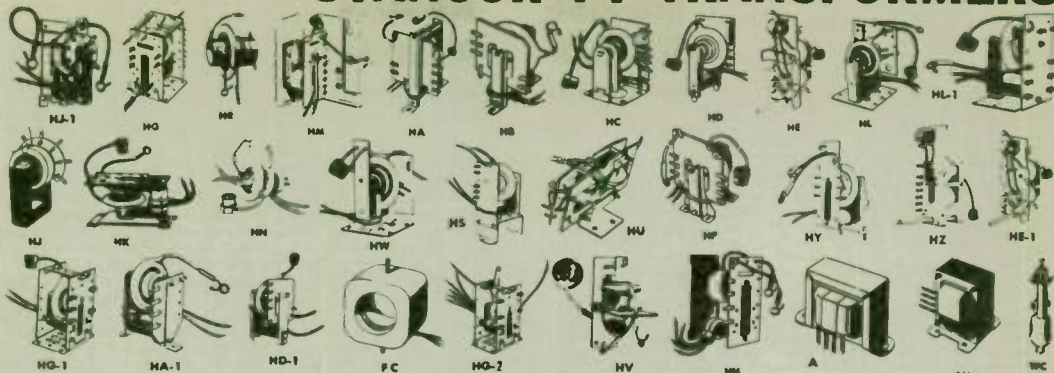
Cat. No.	Type	Flg.	DC Ohms	Max. MADC	Lbs.	Net
14A250	FC-1	RCS	245	200	2½	4.70
14A251	FC-2	RCS	360	140	2½	4.85
14A252	FC-3	RAS	470	100	3½	6.17
14A253	FC-4	RCS	1000	75	2½	6.17

VERTICAL BLOCKING OSCILLATOR TRANSFORMERS

*Constructed with two isolated secondaries. Av. sh. wt. is 1 1/4 lbs.

Cat. No.	Type	Fig.	Mtg. Chrs.	Size	Net
14A375	24A87	BAH	2"	1-3/8x2-3/8xi-3/4"	1.47
14A376	24A88	TAV	2"	1-3/4x2-3/8xi-1/2"	2.35
14A377	26A01	BAH	2-3/8"	1-5/8x2-7/8xi-5/8"	2.35
14A378	26A02	BAV	1-3/4"	1-3/4xi-1/4x2"	1.47

STANCOR TV TRANSFORMERS



STANCOR HORIZONTAL OUTPUTS (FLYBACKS)

Exact duplicates electrically and physically. No chassis or circuit alterations. Write for Stancor TV Guide which gives complete replacement data. Av. shpg. wt. 1 lb.

Cat. No.	Type	Fig.	Replacement In	Net
18A043	A-8119	HJ-1	Arvin, Crosley, RCA	6.82
18A042	A-8127	HJ-1	Airline, Arvin, Sentinel	5.67
18A100	A-8128	HJ-1	Airline, Sentinel, Silvertone	6.41
18A144	A-8129	HJ-1	Muntz	1.23
18A044	A-8130	HG	Silvertone	5.88
18A047	A-8131	HF	Packard-Bell, RCA	3.82
18A145	A-8132	HW	Muntz TO-0031	6.17
18A146	A-8133	HA	Admiral 79C30-1/-3	6.17
18A088	A-8134	HA	Admiral 79D38-1	5.88
18A071	A-8135	HB	Admiral 79D41-1/-2	6.32
18A072	A-8136	HP	Apeex, Ambassador, AMC	5.88
18A147	A-8137	HC	Hoffman 5035	5.88
18A101	A-8138	HC	Emerson 738079/84	5.88
18A115	A-8220	HD	Philco 32-8565	6.26
18A116	A-8221	HD	Philco 32-8555	6.61
18A117	A-8222	HD	Philco 32-8533/34	6.29
18A118	A-8223	HC	Philco 32-8572	5.67
18A119	A-8224	HE	Motrola 24C721290	7.70
18A120	A-8225	HE	Motrola 24K712193	7.70
18A121	A-8226	HE	Motrola 24K721301/C	7.70
18A122	A-8227	HJ	Sylvania 241-0003	4.23
18A123	A-8228	HJ	Sylvania 241-0005/-0006	4.53
18A124	A-8229	HJ	Sylvania 241-0007	4.76
18A125	A-8230	HK	Airking 10104/07/08/10/26/35	6.17
18A126	A-8331	HK	CBS-Columbia	6.17
18A127	A-8332	HL	Emerson 738087/88	6.17
18A128	A-8333	HC	RCA 76430, 76795	6.17
18A129	A-8334	HN	HCA 76501	3.70
18A130	A-8335	HN	RCA 75519, 75585	4.03
18A148	A-8236	HW	Westinghouse V-1548-1	6.61
18A149	A-8237	HW	Westinghouse V-9904-1	5.73
18A150	A-8238	HW	Westinghouse V-10214-1	5.73
18A151	A-8239	HV	Motrola 24K792753	5.88
18A154	A-8241	HU	Crosley 157820	4.76
18A152	A-8243	HN	RCA 77633	3.70
18A153	A-8244	HS	Ducart 78201, 78910	5.88
18A155	A-8245	HY	Sentinel 22E57	5.88
18A156	A-8246	HY	Sentinel 22E67	5.88
18A157	A-8247	HZ	Sentinel 22E75	7.20
18A158	A-8248	HE-1	Crosley 154069/-1	8.20
18A159	A-8249	HL	Dumont 20050521	5.29
18A160	A-8250	HN	Dumont 20054361	5.29
18A161	A-8251	HC	Dumont 2006731	5.73
18A163	A-8253	HD-1	Admiral 79D48-1	5.73
18A164	A-8254	HA-1	Admiral 79C60-1	4.03
18A165	A-8255	HA-1	Admiral 79C60-2/-3	4.76
18A166	A-8256	HG-1	G-E RTO-101	5.88
18A167	A-8257	HG-1	G-E RTO-104	5.88
18A168	A-8258	HG-2	G-E RTO-125/6/7	5.44
18A099	A-8259	HG-2	G-E RTO-129/30	5.29
18A169	A-8260	HG-1	G-E RTO-106	6.03
18A170	A-8261	HG-1	Majestic C9.253/1/-2-E	5.88
18A172	A-8262	HL-1	G-E RTO-131/-141/-163-3	5.73

STANCOR DEFLECTION YOKES

Fig. DY. Ferrite cores and cosine distributed windings for anti-astigmatism focusing. Have networks and extra long leads. Av. sh. wt. 1 lb.

Cat. No.	Type	Coil Induct. (mh)	Coil Resist. (ohms)	Net
18A047	DY-1A	8.3	50	13.5
18A047	DY-2A	10.3	50	14.5
18A041	DY-3A	8.5	50	14.5
18A046	DY-9A	13.5	50	17.5
18A046	DY-10A	30	3.5	45
18A056	DY-11A	20	50	31
18A056	DY-12A	30	50	41
18A033	DY-13A	12.5	48	15
18E041	DY-14A	30	3.5	45
18A001	DY-15A	25	50	35
18A002	DY-16A	20	44	26

STANCOR FOCUS COILS

Size: FC-10 & FC-12 1/2" x 1 1/2" x 29/64"; FC-11 4 1/4" dia., 1-1/8" deep. Av. sh. wt. 2 1/2 lbs.

Cat. No.	Type	Fig.	DC Ohms	DC Ma.	Lbs.	Net
18A049	FC-10	FC	247	200	2	5.03
18A051	FC-11	FC	470	140	3	6.41
18A050	FC-12	FC	370	165	2	5.03

FILAMENT TRANSFORMER (SEE ALSO PAGE 77)

Fig. A-190. Secondary: 6.3 V. at 1.2 amps. Pri. 117 V. 5000 rms volt insulation. Fig. A. Size: 2 1/2" x 1 1/2" x 1 1/2". Sh. wt. 1 lb.

18A080, Net 2.24

STANCOR WIDTH AND LINEARITY CONTROLS

Fig. WC. "Width coil, tapped linearity control. "Width coil or linearity coil. "Width coil with keyed winding. "Width coil with AGC. Av. sh. wt. 1/4 lb.

Cat. No.	Type	Fig.	Induct. (mh.)	Res. Ohms	Net
18B021	WC-1*		.050-.50	9.53	.73
18B022	WC-2*		.55-4.6	8.8	.73
18B024	WC-4*		.170-61C	1	.71
18A070	WC-5*		4-39	33	1.23
18B025	WC-6*		1.3-4.1	5.8	.76
18B026	WC-7*		5-3.5	2.9	.73
18B027	WC-8*		1-10	8	.88
18B028	WC-9*		3-2.9	28	.88
18A029	WC-10*		4-28	32	1.03

STANCOR FILTER CHOKES (SEE ALSO PAGE 77)

Rated with maximum DC in winding. 1,500 V. rms.

Cat. No.	Type	Fig.	H.	Ma.	Ohms	Lbs.	Net
18A073	C-2325	A	2.0	200	60	2	2.26
18A074	C-2326	A	1.0	300	43	1 1/2	2.56
18A075	C-2327	A	1.5	200	85	1	1.44

STANCOR VERTICAL DEFLECTION OUTPUTS

*Autoformer type.

Cat. No.	Type	Fig.	DC Res. (Ohms)	Lbs.	Net
18A038	A-8112	A	1300	10	1
18A064	A-8113	A	700	12	1
18A037	A-8115	NV	600	2 1/2	3.88
18A065	A-8116	NV	525	7	2
18A066	A-8123*	A	1200	11	1
18A068	A-8140	NV	400	0.3	1 1/2
18A069	A-8141*	A	1650	4.5	1 1/2
18A135	A-8142	NH	540	10.5	2 1/2
18A136	A-8143	A	625	14	2
18A137	A-8144	A	540	15	1 1/2
18A138	A-8145	NI	540	14	2
18A139	A-8146*	A	375	10	1 1/2
18A140	A-8147*	A	300	9	1
18A141	A-8148*	A	375	6.5	1 1/2
18A142	A-8149*	A	330	8.5	1

STANCOR VERTICAL BLOCKING-OSCILLATOR

*Sec. No. 1=10.48; Sec. No. 2=1.1; Av. shpg. wt. 1/2 lbs.

Cat. No.	Type	Fig.	Turns Ratio	Size	Net
18A036	A-8111	A	1:4.2	1-1/2x1-1/2x2-1/2"	1.59
18A039	A-8121	TD	1:4.2	1-3/4x1-1/2x2-5/16"	2.03
18A085	A-8122	TS	1:4.2	1-9/16x1-3/16x1-3/16"	2.47
18A086	A-8124	A	* 1:4.2	1-5/8x1-5/8x2-7/8"	2.44
18A087	A-8125	A	* 1:4.2	1-3/16x2-3/16x1-1/4"	1.59
18A134	A-8126	S	1:1.5	1-3/4x1-1/2x2"	1.62

STANCOR HORIZONTAL BLOCKING-OSCILLATOR

Turns ratio pri./sec. 2:1. Mg. ctrs.: A-8110-2", A-8120-1 1/2" x 1 1/2".

Cat. No.	Type	Fig.	Size	Lbs.	Net
18A143	A-8110	A	1-1/2x1-1/2x2-1/2"	1/4	1.79
18A040	A-8120	TD	1-3/4x1-1/2x2-5/16"	1/4	2.53

STANCOR POWER TRANSFORMERS

With copper starting band to reduce external magnetic field. *Not center tapped, for use in voltage doubler circuits. All others are CT. *Fig. C3, *Fig. M3. Others are Fig. M. Primary: 117V. 60 cycles. Av. sh. wt. 14 lbs.

Cat. No.	Type	V. Ma.	Rect.	V. Ma.	Fil.	Net
18A108	P-8338	117*	280	8.3/6.3/	9.5/6/	9.41
18A106	P-8353*	530	300	5	6.3/6.3/	15.29
18A107	P-8334	530	305	5	6.3/6.3/	13.38
18A110	P-8337*	630	225	5	6.3/6.3/	11.82
18A111	P-8338	630	310	5	6.3/6.3/	12.00
18A112	P-8340	710	270	5	6.3/6.3/	12.00
18A113	P-8350	700	270	5	6.3/6.3/	12.48
18A082	P-8160	720	185	3	6.3/6.3/	12.00
18A105	P-8349	720	260	6	6.3/6.3/	11.91
18A081	P-8159	720	250	3	6.3/6.3/	13.82
18A109	P-8351	720	240	4	6.3/6.3/	14.05
18A089	P-8158	730	295	5	6.3/6.3/	17.14
18A083	P-8169	760	220	5	6.3/6.3/	13.91



QUICK DELIVERY ON ALL YOUR RADIO NEEDS

UTC - WRL TRANSFORMERS

UTC SPECIAL SERIES POWER EQUIPMENT

Designed for amateur and PA service. Ratings are based on such applications and recommended for ICAS intermittent use.

CASE SIZES

	Type	H.	W.	D.	Lbs.
	G-2	2-5/16"	3-3/8"	3-15/16"	1 1/4
	G-3	2-1/2"	3-3/4"	2-5/16"	2
	G-4	2-15/16"	4-1/8"	2-5/16"	3
	G-5	3-3/4"	3-1/8"	4-1/2"	4 1/4
	G-7	4-5/8"	4-5/8"	5-1/2"	8
	G-8	4-5/8"	5-3/8"	5-3/8"	12
	G-9	5-7/8"	5-3/8"	6-3/4"	21
	G-10	5-7/8"	6-1/8"	6-5/8"	24
	G-11	5-7/8"	6-1/2"	7-3/8"	31
	G-12	10-1/4"	7-3/8"	9-1/4"	52

UNIVERSAL DRIVER TRANSFORMERS

No.	Type	Application	Case	Net
17A008	S-8	Sgl. driver ppt. to pp grids	G-3	5.35
17A009	S-9	PP ppt. to grids of cl. B tubes	G-4	6.37
17A010	S-10	PP to 45's, 2A3's or 6L6's	G-3	5.39

UNIVERSAL OUTPUT TRANSFORMERS—CASE G-2

To Line & Voice Coil—Sec. Imped.: 500, 15, 8 ohms

No.	Type	Primary Impedance	Watts	Net
17A014	S-14	Sgl. 2500, 4000, 7000, 10000	10	5.88
17A015	S-15	PP tubes, 4000, 5000, 10000	12	5.39

UNIVERSAL MODULATION TRANSFORMERS

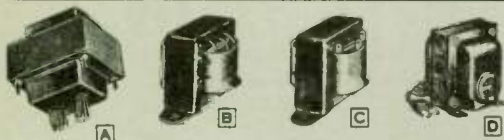
No.	Type	Audio Power	Case	Net
17A018	S-18	12 watts	G-3	5.88
17A019	S-19	30 watts	G-4	7.84
17A020	S-20	55 watts	G-5	12.74
17A021	S-21	110 watts	G-7	17.64
17A022	S-22	250 watts	G-9	27.44

Varimatch Modulation Transformers. Will match any modulator tubes to fit any RF load. Pri. imped. from 500 to 20000 ohms. Sec. imped. from 3000 to 300 ohms.

No.	Type	Watts	Mod. Tubes	Lbs.	Net
17A078	CVM-0	12	6A6, 2A3, 6B5	5	8.32
17A080	CVM-2	60	8C1, 809, 6L6	12	14.70
17A081	CVM-3	125	800, 807, RK-30	20	17.64
17A082	CVM-4	300	50-T, 203A, 805	30	32.36
17A083	CVM-5	600	805, HF-300, etc.	88	78.40

CG Varimatch Outputs For P.A. Designed to match any tubes within the rated output power, to line or voice coil. Output impedance: 500, 200, 50, 16, 8, 5, 3, 1.5 ohms. Pri. Imped.: 3000, 5000, 6000, 7000, 8000, 10000, 14000 ohms.

No.	Type	Watts	Mod. Tubes	Lbs.	Net
18A010	CVP-1	12	42, 43, 45, etc.	8	9.31
18A011	CVP-2	30	2A3, 6L6, etc.	12	10.78
18A012	CVP-3	60	300A, 801, etc.	20	16.66
18A013	CVP-4	125	800, 801, etc.	30	20.58
18A014	CVP-5	300	211, 203A, etc.	88	35.28



WRL QUALITY TRANSFORMERS

REPLACEMENT POWER TRANSFORMERS

Ideal for the set builder and experimenter. Low cost, high quality units. Color coded leads. 117 V. primaries. Plate and Fil. 2 winding centers tapped.

Cat. No.	Plate	V.	Ma.	Fil. 1	V.	A.	Fil. 2	V.	A.	Lbs.	Net
60A001	480	40	5	2	6.3	2	3	3.16			
60A002	650	40	5	2	6.3	2	3	3.26			
60A003	650	70	5	3	6.3	3.5	5	3.76			
60A004	700	90	5	3	6.3	3.5	5 1/2	4.04			
60A005	700	120	5	3	6.3	4.7	7	4.92			
60A006	750	150	5	3	6.3	5.0	7 1/2	6.16			
60A007	800	200	5	3	6.3	6.0	10	6.96			

FILAMENT TRANSFORMERS

Primaries 117 V. AC. Secondaries CT.

Cat. No.	Pri.	Sec.	Amps	Mtg. Centers	Lbs.	Net
60A045	117	6.3	1	2-3/8"	1 1/4	1.42
60A046	117	6.3	3	2-13/16"	2 1/4	2.18
60A047	117	5.0	5	3-1/8"	2 1/2	2.54

STANDARD OUTPUTS

Cat. No.	Primary Imp.	Ma.	Sec. Imp.	Audio Watts	Ctrs.	Lbs.	Net
60A017	5,000	40	3.2	3	1 1/4	1/2	.79
60A018	2,500	50	3.2	3	1 1/4	1/2	.79
60A019	8,000	20	3.5	3	1 1/4	1/2	.79
60A020	2,000	50	3.4	5	2	1/2	.89
60A021	5,000	40	3.5	5	2	1/2	.92
60A022	25,000	10	3.5	5	2	1/2	1.17
60A023	7,000	30	3.5	5	2	1/2	.92

FILTER, SWINGING, AND AUDIO CHOKES

No.	Type	Hys.	Ma.	Ohms	Inslul.	Case	Net
17A023	S-23	500	5	6000	1500	G-2	3.72
17A027	S-27	30	75	350	1500	G-4	4.41
17A028	S-28	20	100	350	1500	G-4	4.41
17A029	S-29	10	175	95	1500	G-4	4.41
17A030	S-30	5/25	175	95	1500	G-4	4.41
17A031	S-31	20	225	120	2700	G-5	5.88
17A032	S-32	5/25	225	120	2700	G-5	5.88
17A033	S-33	20	300	90	4000	G-7	8.33
17A034	S-34	5/25	300	90	4000	G-7	8.33
17A036	S-36	5/25	400	85	5000	G-8	11.76
17A037	S-37	20	550	60	6000	G-8	13.72
17A038	S-38	5/25	550	60	6000	G-8	13.72

CG VARIMATCH DRIVER TRANSFORMERS

No.	Type	Primary Sgl. tubes like	Output tubes	Case	Net
18A003	51AX	30, 49, 53, 79, 2A3, 45, 46, etc.		RC-87	7.64
18A005	59AX	50, 200, 500 ohm line	805, 838, 203A, 100TH, 800, etc.	RC-122	8.82
18A006	238AX	4-2A3, 4-45, 4-50, 2-211A,	4-805's, 4-838's, 4-203A's, etc.	RC-150	20.58

PLATE AND FILAMENT—Pri. 115V. 50/60 Cycles

S-42, High voltage: 600-525-0-525-600 at 300 ma. DC voltage: 480/400. Rect. Fil.: 5V-3A. Fil. No. 1: 7.5V. tapped. 6.3V.-3A. Fil. No. 2: 6.3VCT-3A. Case No. G-8: 17A042, Net..... 16.66

PLATE-BIAS TRANSFORMERS—Pri. 115V 50/60 Cycles

No.	Type	High Voltage	DC Ma.	Case	Net
17A045	S-45	900-750-0-750-900	200	G-8	16.66
17A046	S-46	1000-750-0-750-1000	300	G-9	20.58
17A048	S-47	1500-1250-1000-0-1000-1250-1500	500	G-10	26.46
17A049	S-48	1500-1250-1000-0-1000-1250-1500	500	G-11	33.32
17A051	S-50	3000-2500-0-2500-3000	300	G-12	49.00
17A053	S-52	Will supply any bias voltage from 75 to 400 volts DC with 6%.	200	G-9	13.72

FILAMENT TRANSFORMERS—Pri. Tapped 1.5, 115V, 50/60 Cy.

No.	Type	Sec. VCT	Pri. A.	Inslul.	Case	Net
17A054	S-53	2.5	10	1500	G-3	4.61
17A055	S-54	5	4	2500	G-3	4.61
17A056	S-55	6.3	3	1500	G-3	4.61
17A058	S-57	2.5	10	10000	G-5	7.35
17A060	S-59	5 to 5.25	13	5000	G-5	7.35
17A061	S-60	5 to 5.25	22	10000	G-7	10.78
17A063	S-62	10	10	3000	G-5	7.35

MULTIPLE SECONDARY FILAMENT TRANSFORMERS

Insulation 3000V. except S-72 which has 5000V. All have G-5 case.

No.	Type	Fil. 1	Fil. 2	Fil. 3	Net
17A065	S-64	2.5VCT-5A	2.5VCT-5A	5VCT-6A	8.33
17A066	S-65	2.5VCT-5A	5VCT-4A	6.3VCT-3A	8.33
17A068	S-67	5VCT-6A	6.3VCT-5A		8.33
17A071	S-70	6.3VCT-5A	6.3VCT-5A		8.33
17A073	S-72	5VCT-3A	5VCT-3A	5VCT-6A	8.82

AUDIO TRANSFORMERS

Cat. No.	Description	Ctrs.	Lbs.	Net
60A039	Sgle.-Dble. Button Carbon Mic. to grid	2-3/8"	1	1.85
60A040	1-3 step up. Sgle. Plate to Sgle. grid	2"	1	1.34

FILTER CHOKES

Cat. No.	Hys.	Ma.	Ohms	Mtg. Centers	Lbs.	Net
60A050	5.5	50	330	2"	1/2	.90
60A051	5.5	50	400	2-3/16"	1	1.08
60A052	16	50	550	2-13/16"	1 1/4	1.20
60A053	15	75	400	3-1/8"	2	1.58
60A054	10.5	110	220	3-9/16"	2 1/2	2.10

UNIVERSAL OUTPUTS

Primaries CT. Sgl. plate on PP tubes to VC. *500-3,000 ohms to 1, 2, 8, 16 ohm VC.

Cat. No.	Primary Impedance	Watts	Mtg. Ctrs.	Lbs.	Net
60A025	4,000-14,000 CT	4	2"	1	1.34
60A026	4,000-14,000 CT	8	2-3/9"	1	1.46
60A027	4,000-14,000 CT	18	2-3/8"	1 1/4	1.94
60A028	Line-VC* 500-3,000 to 3.2, 8, 16 ohms	20	3-1/8"	2 1/2	3.31

70.7 VOLT LINE TO VC

Secondaries 4, 8, 16 except *3.2-4, 6-8.

Cat. No.	Watt Taps	Watts	Ctrs.	Lbs.	Net
60A033	5, 2.5, 1.25, .62, .31	5	2"	1/2	1.58
60A034	10, 5, 2.5, 1.25, .62	10	2-3/8"	1	1.80
60A035	18, 9, 4.5, 2.25, 1.12, .56	18	2-3/8"	1 1/4	2.46
60A036	24, 12, 6, 3, 1.5, .75	24	3-1/8"	1 1/2	2.98

STEP-DOWN TRANSFORMERS

For reduction of 230 VAC to 117 VAC. Will operate radios, amplifiers, small appliances, etc. Fully shielded. Output socket mounted on case.

Cat. No.	Pri. Volts	Sec.	Watts	Mtg. Centers	Lbs.	Net
60A057	230	115	80	2 1/4"x1-7/8"	4	4.87
60A058	230	115	150	2 1/2"x2 1/4"	6	6.68
60A059	230	115	250	3"x3"	9 1/2	8.78
60A060	230	115	500	3"x3 1/4"	11	11.18

G-C CHEMICALS



Radio Service Cement
For repairing speakers & radios. Vibration-proof, water-proof, and fast drying. Brushes attached.

No.	Type	Oz.	Net
0A009	30-2	2	.38
0A010	30-4	4	.65
0A013	30-16	16	2.09

Plastic Cement
For cementing dial and crystal assemblies, broken plastic cabinets, etc. Fast drying. With brush.

No.	Type	Oz.	Net
0A022	32-2A	2	.38

Bakelite Cement
For cementing bakelite to bakelite and bakelite to other materials. For repairing knobs, cabinets, etc. With brush.

No.	Type	Oz.	Net
0A019	32-2	2	.50

Rubber To Metal Cement
Used for cementing rubber drives to shafts, rubber mountings, gaskets, etc.

No.	Type	Oz.	Net
0A026	35-2	2	.38

Cement Thinner
Made of same solvents as service cement.

No.	Type	Oz.	Net
0A004	28-2	2	.32
0A006	28-8	8	.82

Speaker Cement In Tubes
For radio and speaker repairs. Water-proof, vibration proof. Fast drying.

No.	Type	Oz.	Net
0A025	34-2	2	.32

Fabric To Metal Cement
For cementing cloth and felt to metal or plastics. For grille cloth, phono turntable felts, etc. Fast drying, water-proof.

No.	Type	Oz.	Net
0A001	22-4	4	.44
0A002	22-8	8	.79

Wood Glue
New white resin water-proof glue for radio cabinets, furniture, chairs, etc. Will not injure finish. Extra strong.

No.	Type	Oz.	Net
0A038	39-2	2	.38
0A041	39-16	16	1.24

CHAMPION SPRAY-ON ENAMEL

There are hundreds of uses for Sprayon brushless enamel. Paints direct from the can by just pressing a lever—eliminating messy brushes & mixing of paint. A total of 12 colors to choose from. 12 oz. can. Shipping weight is 1½ lbs.

0A120, Chrome Aluminum, Net	1.21
0A121, Gloss Black	
0A122, Gloss White	
0A123, Clear Plastic	
0A124, Brille Gold	
0A125, Copper Plate	
0A126, Royal Blue	

Radio Service Solvent
For loosening cement on speaker cones, frames, etc. Will dissolve all cement on speakers. Brush attached.

No.	Type	Oz.	Net
0A014	31-2	2	.32
0A017	31-8	8	.82
0A018	31-16	16	1.15

LubeRex

Protects against rust and corrosion. For contacts, guns, etc. 2oz. tube, 1206.

0B104, Net	.39
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Corona Dope

Prevents corona shorts on hi-voltage circuits in TV sets. Type 47-2. 2 oz.

0A060, Net	.70
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Q-Dope

Liquid polystyrene ultra low loss coil dope for RF, UHF, and VHF components. Will not change circuit values.

No.	Type	Oz.	Net
0A034	37-2	2	.38
0A035	37-4	4	.70

Q-Dope Thinner

Cuts and dissolves Q-dope and other polystyrene coil dopes and cements.

No.	Type	Oz.	Net
0A042	41-2	2	.32

Liquiddope

All wave nitrocellulose base dope for coils. Dries to tough film that insures toughness. Use for sealing, supporting coils, etc.

No.	Type	Oz.	Net
0A031	36-2	2	.38
0A032	36-8	8	1.21

Coil Dope Kit

For high frequency coils, ultra low loss. Contains 2-oz. bottle polystyrene Q-dope, 2-oz. Thinner & two brushes.

0A090, (888 Kit) Net	.62
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Non-Slip Compound

For treating friction type dial drives such as cords, cables, etc. Powder.

0A098, (1210) 2oz. Net	.32
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Liquid Non-Slip

For radio drive cables & belts. Fast drying. ¼ oz.

0A099, (1211) Net	.18
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Paint Thinner

For Rut-Koat, B-K, Cement and ordinary paints.

No.	Type	Oz.	Net
0A057	67-2	2	.32
0A059	67-8	8	.82

Telephone Black & Gray
Covers well & dries fast.

No.	Type	Pt.	Net
0A052	62-2	1/8	.38
0A054	62-8	1/2	1.12

Gray

0A053	62-2	1/8	.38
0A055	62-8	1/2	1.12

Contact & Crystal Cleaner
For cleaning contacts & crystals. Fast drying. Will not injure delicate parts.

No.	Type	Oz.	Net
0A072	127-2	2	.32
0A073	127-4	4	.53
0A074	127-8	8	.65

Grafoline

Noiseless lubricant for air exposed switch contacts, rheostats. Cleans.

0A068, (120-2) 2oz.	.38
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Carbon Tetra-Chloride
For cleaning and degreasing electrical contacts, etc. Safe—will not burn.

No.	Type	Oz.	Net
0A080	211-2	2	.32
0A082	211-8	8	.65
0A083	211-16	16	1.12

Radio Chassis Cleaner
Clean the chassis and make extra money on repair jobs. A non-explosive cleaner.

No.	Type	Oz.	Net
0A069	123-8	8	.53
0A070	123-16	16	.85

Contact Cleaner
All purpose cleaner. Removes dirt and corrosion. Leaves a protective film on contacts.

No.	Type	Oz.	Net
0A076	210-2	2	.32
0A079	210-16	16	1.18

Insulating And Dipping Varnish
For treating field coils or noisy transformers.

No.	Type	Oz.	Net
0A045	56-2	2	.38
0A046	56-4	4	.65

Wrinkle Varnish
Gives professional looking job. Easy to use.

No.	Type	Oz.	Net
0A048	60-2	2	.38
0A049	60-2	2	.38
0A050	60-8	8	1.12
0A051	60-8	8	1.12

Conrac Tuner-Kleaner
Easily installed on tuner. Cleans both stationary & rotary contacts. Wt. 4 oz.

0A140, Net	1.00
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Silent Kontrol Solution
Service the SKS way. Clean all contact parts on every job. Removes oxidation and corrosion.

Electronic control makes old radios and television sets work like new.

0A110, 1oz. Net	.98
0A111, 2oz. Net	1.72

Krylon Plastic Spray

A liquid plastic spray for sealing TV antennas & lead-ins from weather. When sprayed on TV hi-voltage circuits & components it helps prevent corona & arcing. Also used in home, artwork, etc.



0A116, Clear	1.27
0A115, Aluminum	1.11
0A117, White	1.11

SPRA-KLEEN

Pool! There goes noise. Can't spill, can't break, can't evaporate. Economical to use, easy to apply, and dries quickly. Cleans & lubricates in one application. Used for contact points in TV tuners, and radio & TV equipment. 6 oz. can.



0A142, Net	.97
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915. Scratch Remover Kit. Contains 6 shades of Scratch Crayon fillers & 2 bottles of scratch remover—walnut & clear. Select proper shade of filler & run over scratch. Works on light & dark shades of wood. Sh. wt. 1½ lbs.

0A095, Net	.97
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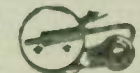
901. Deluxe Cabinet Repair Kit. Comes in handy metal box. Contains ten shades of shellac sticks, bottles of walnut & mahogany stain, bottle of metal shading varnish, bottle of polish, General Scratch Stik, alcohol lamp (with alcohol), spatula, touch-up brushes, steel wool, sandpaper, rubbing felt, shellac stick, rubbing fluid & wiping cloth. Directions included. 3 lbs.

0A091, Net	4.41
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677. R.M.A. Color Coding Kit. Consists of black, brown, red, orange, yellow, green, blue, purple, grey & white. Color chart on box. Brushes furnished. Fast drying. Shpg. wt. 1½ lbs.

0A088, Net	1.27
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No.	Ft.	Descript.	Net
0A062	25	Light	.82
0A064	25	Thin	.82
0A061	25	Heavy	1.14

LEO GIVES TERMS TO SUIT YOUR BUDGET

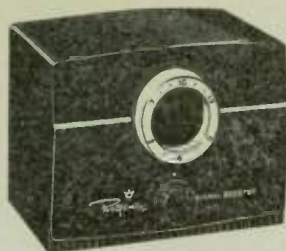
TELEVISION BOOSTERS—ROTATORS



A



C



F



G



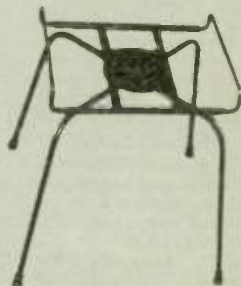
B



D



E



H

A B C-D-R Rotator Model TR-2. Rotates antenna quickly and accurately. Mounts any type structure and fits any style antenna. Remote control unit plugs into 115 VAC outlet and furnishes power to operate the rotor. Control knob controls rotation. Handles antennas weighing up to 150 lbs. Accommodates masts from 7/8" to 2". Lubricated for life. Consists of a compass control and dial. Sh. wt. 14 lbs.
117AF019, Net 26.43

Accessories

Guy Collar Unit Model TA-1. Fits masts up to 2" O.D. Sh. wt. 2 1/2 lbs.
111A097, Net 2.61

Complete Superstructure Model TA-3. Fits masts up to 2" O.D. With guy wire thimbles. Sh. wt. is 1 1/2 lbs.
111A099, Net 11.73

Superstructure Base Plate Only Model TA-4. For platform mountings. Sh. wt. 5 lbs.
111A100, Net 1.74

210A008, (8 conductor cable for TR-2.) Per ft. .08
Per 100 ft. 6.44

A D C-D-R Rotator Model TR-4. Handles up to 150 lbs. with ease. Streamlined weather-proof design and durable construction. Heavily reinforced die cast housing. Heavy duty precision gears. Positive stop at end of rotation. Reversible clamps will handle 7/8" to 2" masts. Motor reverses instantly. Mast, tower or platform mounting. Complete rotor with handsome modern design cabinet with meter control dial. Uses 4 wire cable. Sh. wt. approx. 16 lbs.
117BF021, Net 28.78

4 conductor cable for above. Sh. wt. per 100 ft. is 3 lbs.
201A007, Net Per Ft.035
Per 100 ft. 3.18

C D C-D-R Rotator Model TR-12. Speedy installation. Takes masts up to 1 1/2" O.D. Instant locking—no drift. Instantly reversible—takes complete revolution in 45 seconds. Trouble-free fool-proof operation. Complete rotor including thrust bearing and indicator. Indicator housed in handsome plastic cabinet. Requires 4 wire cable. Sh. wt. approx. 12 lbs.
117AF020, Net 25.25
4 conductor cable for above. Sh. wt. per 100 ft. is 3 lbs.
201A007, Net Per Ft.035
Per 100 ft. 3.18

C E C-D-R Rotator Model AR-2. Completely automatic. No need to hold direction control until antenna reaches desired direction—merely set direction control to desired direction and rotor does the rest automatically. 40% sharper tuning than any other automatic rotator. Mechanical brake is released automatically. Quick mounting antenna mast collet. Speedy installation—no loose parts to assemble. Takes antenna masts up to 1 1/2" O.D.—self-centering sawtooth clamps. Modern design offers minimum wind resistance. High strength with low weight. Fits standard towers. Completely weather sealed and factory lubricated. Complete with thrust bearing and modern design plastic control cabinet. Requires 4-wire cable (listed directly below). Sh. wt. approx.
117BF023, Net 28.19

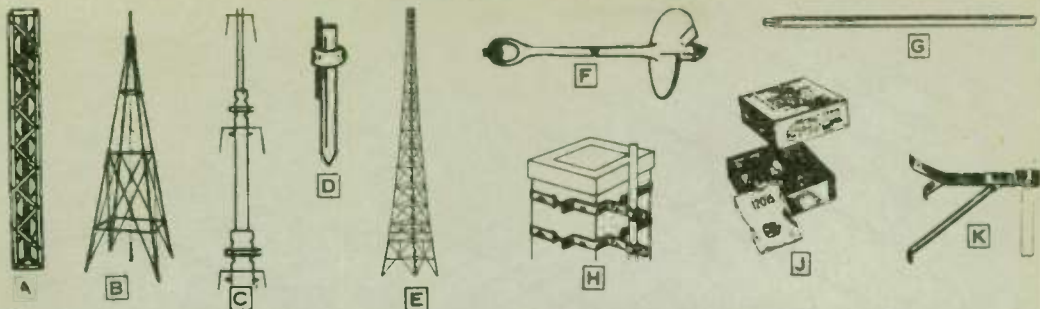
4-wire control cable for AR-2 rotator. Sh. wt. per 100 ft. is 3 lbs.
201A007, Net Per Ft.035
Per 100 ft. 3.18

F Regency All-Channel UHF Converter Model RC-53. All channel UHF converter. Provides conversion from all UHF channels to a wide selection of VHF channels. A conventional AC outlet is provided for control of the TV set by means of the Off-On switch. Uses a TS-2 crystal mixer and 6AF4 oscillator. Housed in an attractive bakelite cabinet. Size: 4-17/32x6x4 1/4". For 105-125 VAC, 50/60 cycles. Sh. wt. 7 lbs.
76A031, Net 14.96

G Astatic "Scanafar" Booster Model CT-1. The new CT-1 incorporates improvements that match the forward strides made in newer model TV Receiver front-ends. Features include: Maximum gain with new minimum noise figure. Uniform gain on all channels. Employs a 6J6 and a 6BQ7 tube—uses both over entire TV frequency range. Two-stage, slug-tuned, push-pull circuit. Band width is over seven megacycles on all channels. Has selenium rectifier. Provides for either 72 or 300 ohm impedance input and output. Receptacle in rear to power TV receiver. Handsome metal cabinet, Mahogany finish. Sh. wt. 6 lbs.
76A023, Net 20.58

H TV Table Model 19. Modern design black satin finish wrought iron. Exceptionally strong and wobbleproof. Safe for children—cannot be toppled over. Swivels complete 360°. Expandable from 18" to 30" to fit most table model TV sets. Rubber feet on legs to prevent marring floors. Height is 20". Wt. 20 lbs.
119AF012, Net 5.97

TOWERS—ACCESSORIES



A Alprodeco Economy Tower Model TP-36. An extremely lightweight aluminum tower. The weight per foot is only 1 pound. Withstands 220 lbs. in a 100 mph wind. Consists of 4 each 6 ft. assembled tower sections, 2 each 6 ft. sections interlocking mast, 1 each hinged base plate, 1 each mast kit, and 3 each guy brackets. 72A147, Net 33.53

AT-6E. Assembled 6 ft. tower section. Sh. wt. 8 lbs. 72A141, Net 6.42

B-1. Hinged base plate. Simplifies installation. Sh. wt. 2 lbs. 91A093, Net 1.40

MK-1. Mast kit including top angles and mast brackets. Sh. wt. 3 lbs. 91A092, Net 1.55

GB-1. Rotating guy ring. Sh. wt. 4 oz. 91A094, Net09

S-5. Stand-off support bracket. Sh. wt. 9 lbs. 91A095, Net 1.60

A Alprodeco Pop-Up Towers. Comes in a package—pre-assembled—one man can easily erect it. Install antenna and rotator on the ground, raise and lower it in seconds. Guaranteed to withstand up to 90 mile wind and storm load when guyed according to factory recommendations. Lower section is hot-dip galvanized steel and the top section is aircraft aluminum joined at the elbow with a strong A-frame. Complete tower includes: hinged base, ground anchors, aluminum and steel towers, winch, cable, A-frame, guy brackets, top trim, mast kit, and 9 ft. telescoping aluminum mast.

Cat. No.	Model	Height	Sh. Wt.	Net
72B152	PM-42-9A	49 ft.	95 lbs.	52.19
72B153	PM-54-9A	61 ft.	110 lbs.	63.16

B Wincharger Roof-Mount Tower. 10 ft. high. Withstands winds up to 100 m.p.h. Adjustable feet permits the mounting on any type roof pitch. Eliminates the danger of pulling over chimneys. Complete with hardware and instructions. Sh. wt. 35 lbs. 72A166, (15-810) Net 17.70

C Tempo Telescoping Masts. Heavy 16 gauge steel telescoping masts. Each section crimped twice, 10" apart, eliminating sway. Each section equipped with a special clamp allowing mast to be extended to desired height. Complete with guy rings and cotter pins.

Cat. No.	Type	Base O.D.	Top O.D.	Ht.	Lbs.	Net
72A171	HD-20	1 1/4"	1-3/16"	20'	17	7.50
72A172	HD-30	1 1/4"	1-3/16"	30'	29	12.45
72A173	HD-40	2"	1-3/16"	40'	44	17.25
72A174	HD-50	2 1/4"	1-3/16"	50'	54	27.75

Guy Ring Model FGR. Fits masts up to 1 1/4" dia. Sh. wt. 6 oz. 91A096, Net68

D Copperweld Ground Rods. Copper-clad steel. RT-34 and RT-36 are 3/8" dia. RT-48 is 1/2" dia. Provide ground for TV installations.

Cat. No.	Type	Length	Sh. Wt.	Net
28A020	RT-34	4 ft.	2 1/4 lbs.	.83
28A021	RT-36	6 ft.	3 1/4 lbs.	1.06
28A022	RT-48	8 ft.	4 1/4 lbs.	2.71

E Aermotor Steel Antenna Towers. Designed for amateur radio beam antennas up to 20 sq. feet of projected area. Easy to erect. Self-supporting 3-post towers. Built of galvanized steel. No guy wires necessary. Safe and resistant to high winds. May be equipped with foot plates instead of anchor posts at no extra charge. (Please specify.) Shipped F. O. B. Factory.

Cat. No.	Height	Sh. Wt.	Net
72B154	30'-3"	470	140.00
72B155	44'-1"	660	195.00
72B156	57'-5"	860	250.00
72B157	70'-9"	1060	307.00
72B158	84'-0"	1320	375.00
72B159	97'-3"	1850	473.00

Accessories			
Cat. No.	Descript.	Lbs.	Net
72B160	Gin Pole	10	6.50
72B161	Swivel	20	20.00
72B162	Rotor Support	20	17.00
72B163	Pipe Flange	5	2.85

F Wincharger Screw Anchor. A big improvement in the installation of guyed towers. A simplified screw anchor. Eliminates work of digging post holes; uncertainty of haphazard anchor posts, trees, and other makeshift anchors. Easy to install—no holes to dig—just screw the anchor into the earth. Gives better installation. Has 4" blade, 4 1/2 ft. long. Sh. wt. 10 1/2 lbs. 72A168, Net 3.50

G 5 Ft. Steel Extension Mast. Swedged. 1 1/4" O.D. Sh. wt. approx. 8 lbs. 120A050, Net96

G 10 Ft. Steel Extension Mast. 1 1/4" O.D. Shpg. wt. 15 lbs. 120A061, Net 1.50

G 10 Ft. Heavy Duty Steel Extension Mast. 1 1/4" O.D. Special joint for stacking. Sh. wt. approx. 16 lbs. 120A054, Net 2.25

H Chimney Mount. Lightning fast installation. No special tools are required. No drilling necessary. Accommodates masts 1/2" to 1 1/4". Complete, ready to install. Sh. wt. 3 lbs. 91A027, Net 1.50

J Penn Replacement Kit Model 12015. Stainless steel strap replacement kit for chimney mounts. Sh. wt. 1 1/4 lbs. 91A113, Net 1.62

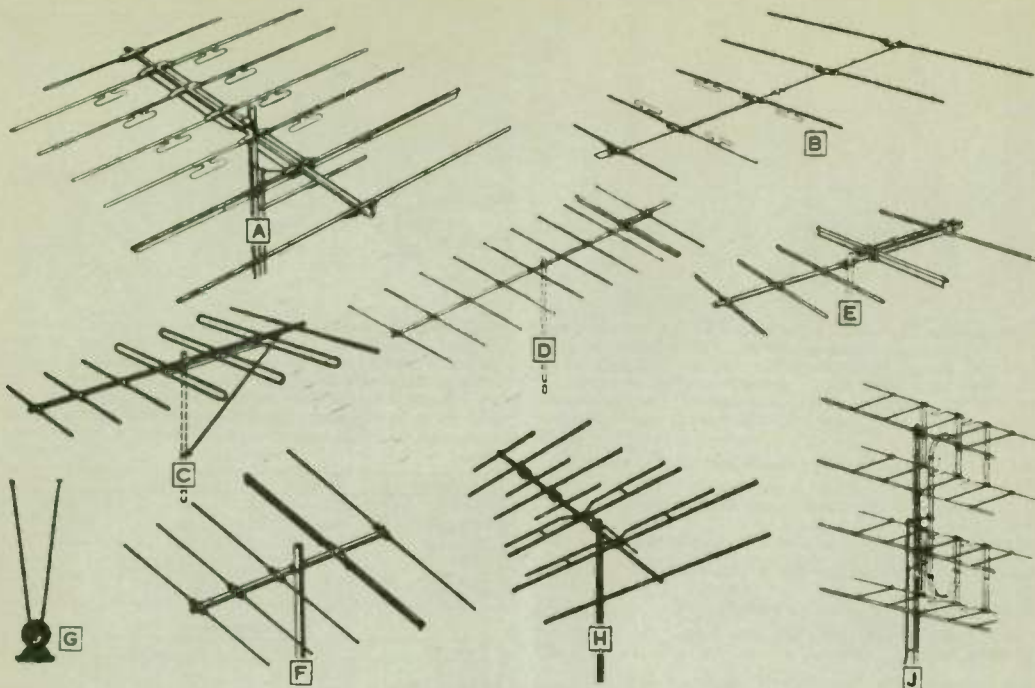
K Wall Brackets Series TVB. Fit all masts and any type wall. Clears overhanging roofs. 5 holes for 1/4" screws. *Roof mount.

Cat. No.	Model	Clearance	Lbs.	Net
91A029	108	8"	2 1/2	2.50
91A030	112	12"	4	2.91
91A031	318	18"	5	3.50
91A032	200*	20"	6	2.32

SEE THE YELLOW PAGES FOR SPECIAL BARGAINS AND LATE RELEASES

SEE LEO FOR ALL YOUR TV NEEDS

TELEVISION ANTENNAS



A Taco Super Trapper Model 1890. A sub-fringe area antenna of unsurpassed gain and stability. Designed for single bay or stacked installations. 8 elements. For all VHF channels 2 through 13 and UHF channels 14 through 83. Fully assembled, with automatic locking. High front-to-back ratio. Sh. wt.

120B025, Net. 19.11

Stacking Line Model 1892. Closed spaced for "inphase" stacking of 2 model 1890 antennas to favor high band channels. Sh. wt.

120B026, Net.88

Stacking Line Model 1893. Wide spaced for "inphase" stacking of 2 model 1890 antennas to favor low band channels. Sh. wt.

120B027, Net. 2.21

B Taco Trapper Model 1880. Covers entire VHF band—2-13. Has excellent gain and directivity. The answer to HI/Lo VHF installations. Sh. wt. 6 lbs.

120B040, Net. 10.70

Model 1882. Stacking kit for Dual Trapper installation. Sh. wt. ½ lb.

120B041, Net.88

Model 1884. Stacking kit for quad stack installation. Sh. wt. 1 lb.

120B042, Net. 3.09

C Taco "Triple-Driven" Broad Band Yagis Model 1840. 7 elements. Covers 5 channels—2 thru 6. Designed for fringe area operation. Sh. wt. 8 lbs.

120A037, Net. 17.49

Model 1836. Same as 1840 except for channels 3 thru 6. Wt. 8 lbs.

120A038, Net. 14.61

Model 1842. Stacking Bars for the 1840 and 1836. Sh. wt. is 1 lb.

120A034, Net. 2.20

D Taco Hi-Band Bazooka Model 1860. Designed to cover channels 7 thru 13 inclusive with an excellent pattern and over-all gain well in excess of 8 db "across the board". Sh. wt. 5 lbs.

120A039, Net. 8.53

E Taco "Bazooka" Combination Yagi Model 1410. Performs the same as two Yagis built into one. Simple installation. Single 300 ohm lead-in. Sh. wt. 7 lbs.

120A035, (Chan. 3-6) Net. . 9.72

120A036, (Chan. 4-5) Net. . 9.72

F 5 Element Yagis. Provides greater gain on specific channels than is possible with all band antennas. Ideal for low-signal and fringe areas. Less mast and lead-in. Av. sh. wt. 3 lbs.

Cat. No.	Channel	Net
120A011	2	5.79
120A012	3	5.64
120A013	4	5.49
120A005	5	5.31
120A014	6	5.16
120A006	7	3.24
120A029	8	3.15
120A007	9	3.11
120A008	10	3.03
120A019	11	3.03
120A009	12	2.95
120A030	13	2.95

G All-Channel Indoor TV Antenna. Fully assembled and complete with 300-ohm line. Mahogany-colored phenolic to harmonize with all dark-wood sets. Three-section tubular dipoles are triple plated. Felt protected base prevents scratching. Adjustable knob in front holds dipoles at any angle. Tubular arms extend to 92". Wt. 4 lbs.

120B049, Net. 2.00

H Wells-Winegard "Interceptor".

With exclusive electro-lens focusing. Completely new...in appearance...in electrical design...in results. Features: electro-lens focusing; highest gain to band widths of any TV antenna; 13 working elements on channels 7-13; all-channel-VHF coverage 2-13; outstanding fringe area reception; multi-resonant driven elements; quality construction withstands all weather; highest signal-to-noise ratio; simple to install. Sh. wt. approx. 7½ lbs.

120A056, Net. 14.97

I Wells-Winegard "Super-Cap".

With electro-lens focusing. A more powerful version of the famous Winegard Interceptor. Makes it possible to have multi-element yagi performance on all channels in the most extreme fringe areas. Increased sensitivity: up to 22% more gain over the standard Interceptor. For channels 2 through 13. Sh. wt. 9½ lbs.

120A057, Net. 20.97

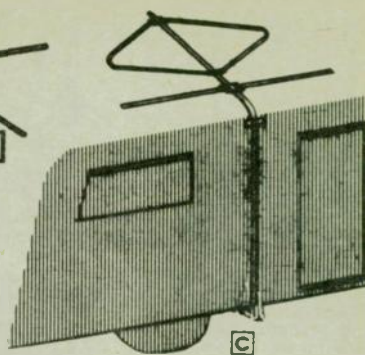
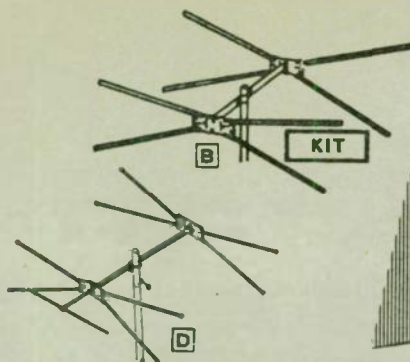
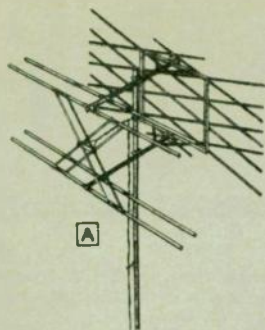
J Finco Antenna Model 400A. For both UHF and VHF. Engineered for extreme fringe areas—clear pictures up to 120 miles and more from station. Gain is maintained over both complete bands, giving the advantage of: one antenna—one transmission line. Sh. wt. 8 lbs.

120A129, Net. 24.70

Finco 14-S Conversion Screen. Addition of screen to Model 400A solves "front-to-back" ratio problems. Eliminates rear signal interference and ghosts. Sh. wt. approximately 4 lbs.

120A128, Net. 8.82

TV ANTENNAS—ACCESSORIES

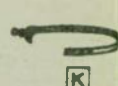


A Tenna "Dragnet". With diamond-back screen reflector for UHF-VHF. For channels 2 thru 83. Your answer to the reception problem in areas where reception has been found most difficult. Consists of 2 bays connected electrically by means of a unique staking arrangement and a diamond-back screen reflector. Very high front-to-back ratio, excellent impedance matching, eliminates ghosts and provides a clean, clear pattern. Provides plus gain on high channels (7 thru 13) where additional gain is most needed. Sh. wt. 14 lbs.
120B015, Net 20.55

B Clearbeam "Do-It-Yourself" Antenna Kit Model C4K. Ideal for those who desire to build their own conical antenna. Kit includes: one conical antenna, one 6 ft. mast, guy ring, pivot base, 30 ft. guy wire, 3 screw-eye roof hooks, 4 standoff insulators, and 50 ft. twin-lead. Complete with simple instructions. Sh. wt. 5 lbs.
120C002, Net 7.12

C Clearbeam "Trailer Tenna" Model T-150. Specially designed for mobile homes. Always ready for use. Eliminates the need for installing an antenna each time trailer is parked and troublesome dismantling for traveling. Raises simply and easily for reception, and lowers for travel. Receives clear sharp pictures from stations up to 100 miles away. Covers all UHF and VHF. Can be installed in minutes. Sh. wt. 19 lbs.
120B053, Net 17.49

D Tenna Bar-X Model R5-751. All band TV antenna. Greatly increases signal strength on high channels. 1" cross boom. Heavy duty construction. Stacking array. Single bay. Sh. wt. 8 lbs.
120A044, Net 4.50
Model RQ-42. Stacking jumper bar. Sh. wt. 1 lb.
120A045, Net41
Model RQ-45. Phasing bar. Sh. wt. 1 lb.
120A046, Net29



Television Mounts And Accessories

E Tee-Vee Swing-Up Junior Model 9-ST. A rugged rust resistant economy roof mount, reduced in size, not in quality. Ideal for small installations. For masts up to 1 1/2" O.D. Sh. wt. approx. 1 1/4 lbs.
91A121, Net41

F Tee-Vee Economy Mount Model 2-LT. Full-size economy mount. Completely electroplated to insure long life. Ideal for average installation. For mast to 2" O.D. Sh. wt. approx. 2 1/4 lbs.
91A067, Net 1.62

F Tee-Vee Lock-Up Mount Model 21-LT. Full-size economy mount. Completely electroplated to insure long life. Has the new lock-up feature for faster installation. For mast to 2" O.D. Sh. wt. approx. 4 lbs.
91A088, Net 1.73

F Tee-Vee Universal Heavy Duty Mount Model 1-SP. Rugged extra heavy gauge steel. Completely electroplated to combat the elements. For mast to 1 1/2" O.D. Sh. wt. approx. 1 1/4 lbs.
91A046, Net 1.32

G Thimble Model EZ-3. Provides a gently rounded "seat" for guy-wires to prevent chafing and wearing where wires are looped on anchoring points. Galvanized steel. Sh. wt. 4 oz.
91A044, Net06

H Rotating Pole Ring Model EZ-10. Inner ring clamps on any pole up to 2" O.D. by means of 3/8" bolts with lock nuts. Outer ring is free to rotate so that antenna can be orientated at will after installation. All steel, heavily zinc plated. Sh. wt. 1 1/4 lbs.
91A047, Net 1.91

H Roller Bearing Pole Ring Model EZ-14. Similar in appearance to the EZ-10 but with stainless steel roller bearing action to permit continuous rotation of antenna, when used with motor rotator. For poles up to 2" O.D. Sh. wt. 1 1/4 lbs.
91B045, Net 2.32

J Clamp Model 8120. C type clamp. Fits pipes up to 1-3/8" dia. Sh. wt. 4 oz.
91A037, Net21

K Clamp Model 8121. Strap type clamp. Fits pipes 3/8" to 2". Sh. wt. 4 oz.
91A038, Net09

L Guy Wire Clamp Model 8372. For fastening guy wires to masts. Fits masts 1/2" to 1 1/4". Complete with screws. Wt. 4 oz.
91A020, Net18

M Mast Clamp Model BR-40. Holds two masts firmly together in powerful U-bolt. Sh. wt. is 4 oz.
91A041, Net24

N Mast Clamp. For supporting floating guy ring. Fit 1 1/4" mast. Sh. wt. 6 oz.
91A073, Net18

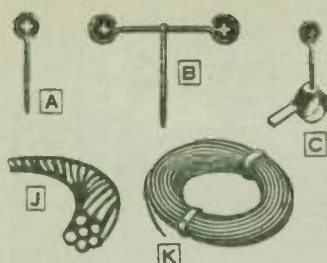
O Formed Guy Ring. Accommodates either 3 or 4 guys. Fits 1 1/4" dia. mast. Steel heavily plated. Sh. wt. 6 oz.
91A074, Net16

P Mast Couplers. Used to extend and couple masts. Steel, zinc plated. For masts 1/2" to 1 1/4". With screws. Sh. wt. 8 oz.
91A085, Net75

ITS EASY TO BUY FROM WRL

TELEVISION

ACCESSORIES



A Wood Screw Insulators. Universal stand-off types. Used for flat, tubular, oval and coax TV lead-in. Av. sh. wt. per 5 is 10 oz.

Cat. No.	Type	Lgth.	5 for	100 for
91A001	8027	3 1/2"	.15	2.62
91A002	8028	5 1/2"	.25	4.71
91A003	8029	7 1/2"	.29	5.29
91A004	8030	12"	.54	10.56

B Double Screw-Eye-Stand-Off Wood Type. For oval, flat, tubular and coax lines. Sh. wt. per 5 is 10 oz.

Cat. No.	Type	Lg.	5 for	100 for
91A005	18TL3	3 1/2"	.70	13.72
91A006	18TL5	5 1/2"	.80	15.68
91A007	18TL7	7 1/2"	.85	16.66
91A008	18TL12	12"	1.40	27.44

C Adjusta Stand-Off Type. Mount on any mast. For oval, flat, tubular and coax line. Sh. wt. per 5 is 10 oz.

Cat. No.	Type	Lg.	5 for	100 for
91A009	UT350	3 1/2"	.55	10.78
91A010	UT550	5 1/2"	.70	13.72
91A011	UT750	7 1/2"	.75	14.70

D Double Adjusta Stand-Off Insulator. Used for oval, flat, tubular and coax line. Sh. wt. per 5 is 12 oz.

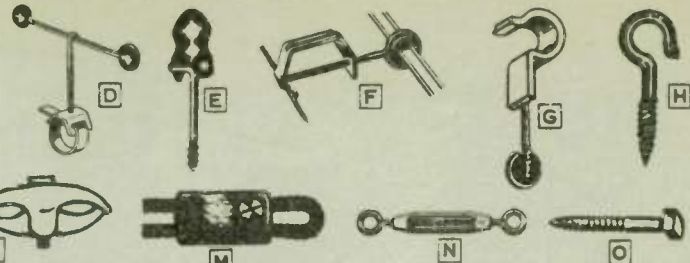
Cat. No.	Type	Lg.	5 for	100 for
91A012	DUT350	3 1/2"	1.05	20.58
91A013	DUT550	5 1/2"	1.15	22.54
91A014	DUT750	7 1/2"	1.20	23.52



P G-C Lightning Arrestor Model 8640. For 300-ohm line. Easy to connect, no wires to strip—easy to install. Sh. wt. 5 oz. 10B043, Net.59

Q G-C Lightning Arrestor Model 8642. Fits all types of lines, UHF, VHF, Hollow, Oval, etc. Fastens to wall or masts & pipes. Sh. wt. 6 oz. 10B044, Net.73

R RCA Lightning Arrestor Model 214X1. For 300-ohm line. Screw type for use with FM and AM antennae. Easily installed. Fits any 1/2-2" pipe. Sh. wt. 5 oz. 10A042, Net.65



E Insulators Series EZ. Universal Types. Fit all types of transmission lines. Sh. wt. 6 oz.

Cat. No.	Type	Lg.	5 for	100 for
91B105	EZ8027	3"	.25	4.71
91B106	EZ8028	5"	.27	5.29

Machine Screw

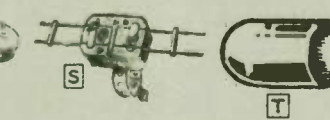
91B107	EZ8032	5"	.27	5.29
91B108	EZ8035	7"	.30	5.88

F Mueller Tenna-Clamp Model 135. Takes any flat twin-lead. Any round or oval coax cable up to 1/2" O.D. Clamp may be applied to any pipe or other object from thin sheet up to 1-3/8" in dia. or thickness. Wt. is approx. 5 oz. 91A015, Ea.14 Per 1008.40

G Snap-On Stand-Offs. New improved snap-on stand-off. Snap and it's on. Easy to use. For UHF and VHF. Fits 1 1/4" masts. Sh. wt. 91A016, (Type 8798) Ea.06 100 for5.88

H Screw Hook. Excellent for fastening TV guy wire. Sh. wt. 6 oz. 91B090, Net.06

J Television Guy Wire. Galvanized steel twisted TV guy wire for tall masts and towers. Extra strength steel completely galvanized to prevent rust and corrosion. Six strands. No. 20. Sh. wt. per 100 ft. is 2 1/2 lbs. 201B009, (8109C-100 ft.) . . .1.03 201A005, (8109M-1000 ft.) . . .6.95



S JFD Open Line Arrestor Model AT-107. For protection of TV sets using open wire transmission line. Eliminates picture smearing, & grounds lightning & static charges. With 4 ft. aluminum ground wire, screws & mtg. strap. 15 oz. 10A040, Net.2.06

T UHF Line Caps. For sealing round and oval hollow line ends. Easily slipped over the end of line. Sh. wt. 6 lbs. 91A104, (Pkg. of 8) Net.29

U Guide-A-Tube. Simple and safe method of inserting miniature tubes. Shpg. wt. 3 oz. 1A430, 7-pin, per pkg.34 1A432, 9-pin, per pkg.34

K Ground Wire. Number 8 aluminum ground wire. Sh. wt. per 100 ft. is 2 1/2 lbs. 201A006, (Per 100 ft.)1.65

K Ground Wire. Number 10 enameled ground wire. Sh. wt. per 100 ft. is 2 1/2 lbs. 201A027, (Per 100 ft.)3.25

L Ground Wire Coupler Model K-1. For number 10 copper to number 8 aluminum. Sh. wt. 10 oz. 91A109, Net.27

M Guy Wire Clamps. Neat, quick way for fastening ends of guy wire on towers & masts. Galvanized steel. Shpg. wt. 6 oz.

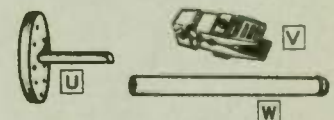
Cat. No.	Type	Wire Size	Net
91A017	8081	1/8"	.32
91A018	8082	3/16"	.32

N Turnbuckles. Extra strong cadmium-plated turnbuckles for guy wire and cables. Make it easy to install tall masts & towers. 6 oz.

Cat. No.	Type	Lgth. Clsd.	Net Pr.
91A022	6150	3"	.26
91A023	EE14	5"	.24
91A024	EE15	6 1/2"	.38

O Zinc Plated Lag Screws. Cat. No's. 111A078 and 111A081 are 1/4" dia.; Cat. No's. 111A079 and 111A080 are 5/16" dia. Lengths given below. Sh. wt. 4 oz.

Cat. No.	Length	Ea.	25 for
91A078	1 1/2"	5 1/2	1.03
91A079	1 1/2"	5 1/2	1.03
91A080	2"	5 1/2	1.08
91A081	2"	5 1/2	1.08



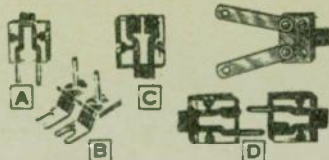
V TV "Clothes Pins" Model 8744. Deluxe line klip can be used three ways—straight, side or plug-in for RCA sets. No soldering. Sh. wt. 2 oz. 1B423, Net.21

V Shorty "Clothes Pin" Model 8899. Same as above but shorter in length. Sh. wt. 2 oz. 1A429, Net.21

W 300 Ohm Feed-Thru Insulator. Convenient way to bring 300 ohm line in through the house wall. Makes a professional installation. Ceramic. Sh. wt. 8 oz. 91A053, Net.29

SEE LOG FOR ALL YOUR TV NEEDS

TELEVISION ACCESSORIES



A Transmission Line Plug Model 301. For use with 300 ohm transmission line. Ideal for connecting antenna lead-in to a booster or converter. Sh. wt. is 2 oz. 10A201, Net.18

B Input Adapter Model 304-PK. Designed for TV sets using a terminal strip at the rear of the chassis. Complete with one type 311 line socket. Sh. wt. 2 oz. 10B203, Net.35

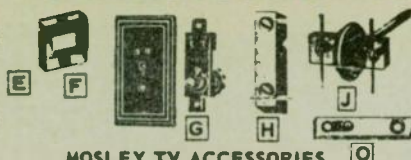
C Transmission Line Socket Model 311. A female socket for 300 ohm transmission line. Sh. wt. 2 oz. 10A205, Net.18

D Polarized Connector Model 321. Similar to 301 & 311, but designed so that transmission line conductors cannot be reversed. Sh. wt. 2 oz. 10A206, (Per Pair) Net.35

E Transmission Line Connector "Y-Ty". Provide low-loss, permanent connection of transmission line and phasing strips to TV antenna elements. Sh. wt. is 5 oz. Model 263-S. For all UHF and most VHF yagis, conicals, etc. where distance between terminals is 4" or less. 10A238, Net.47

Model 263-L. For Trio Zig-Zag & other antennas where distance between terminals is 6" or less. 10A239, Net.47

F Transmission Line Splicer Model 275. For connecting ends of standard 300 ohm line without soldering. Sh. wt. 2 oz. 10A209, Net.11



MOSLEY TV ACCESSORIES
G Single Flush Socket Model F-1PK. For single 300 ohm TV or FM lead-in. For installations utilizing single antenna without rotator. Sh. wt. 5 oz. 10B210, Net.1.15

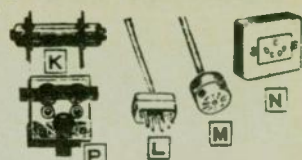
G Lead-In Flush Socket and 3-Way Antenna Switch Model F-10PK. Instant change-over to any one of 3 antennas. With one mating solderless transmission line socket and F-9 mtg. brackets. Wt. 5 oz. 10B211, Net.2.59

G Dual Flush Socket Model F-11PK. For installations where separate high and low channel antennas are used. With solderless transmission line plug, F-9 mtg. brackets, & machine screws. 5 oz. 10B212, Net.1.57

G Lead-In And Rotator Flush Socket Model F-14PK. For single lead-in plus rotator control cable. Complete with F-9 mtg. brackets, one transmission line plug and type 374 solderless polarized 4-wire line plug. Wt. 8 oz. 10B213, Net.2.07

H Spacer Model 450-3. For those who like to make their own. Maintains a constant 1" spacing all along the line. Imped. approx. 420 ohms. Sh. wt. 5 oz. 10A230, Net.0.06

J Anchor Bar Model 450-2. Used in combination with any TV screw eye standoffs of any size or shape. Sh. wt. 4 oz. 10A229, Net.1.18



K Splicer Model 450-1. For use with open transmission line such as low loss Gonset line. Sh. wt. 4 oz. 10A228, Net.10

L M N Rotator Plugs and Sockets. For use where 4 & 5 wire flat or round cable is terminated or connected. Sh. wt. 6 oz.

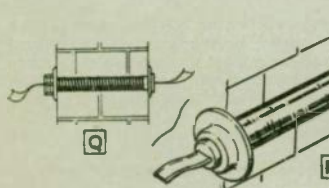
4-Wire				
No.	Type	Fig.	Descript.	Net
10B215	374	L	Plug	.44
10B218	364	M	Line Socket	.57
10B216	354	N	Base Socket	.80
10B217	354 PK		Comb. of 354 and 374	1.25

5-Wire				
No.	Type	Fig.	Descript.	Net
10B219	375	L	Plug	.48
10B222	365	M	Line Socket	.61
10B220	355	N	Base Socket	.88
10B221	355 PK		Comb. of 355 and 375	1.36

O End Insulator Model 251. For 300 ohm line. No soldering. Sh. wt. 3 oz. 10A231, Net.2.9

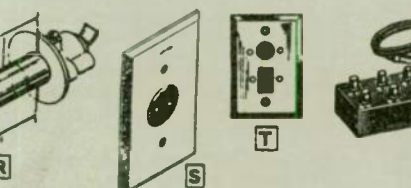
O End Insulator Model 252. As above but for heavy duty, wide, flat 300 ohm transmission line. Sh. wt. 3 oz. 10A232, Net.3.9

P Antenna Connector Model 262. Heavy duty type connector. Sh. wt. 3 oz. 10A234, Net.4.9



Q Walsco Twin-Lead Feed-Thru Bushing Model 1550. Designed to hold line firmly in place with a weather tight seal. Does not affect line impedance. Made of lo-loss polystyrene. Supplied in 8-5/8" length to fit most walls—easily cut off for thinner walls. Sh. wt. 4 oz. 83A015, Net.65

R Walsco Universal Feed-Thru Bushing Model 1551. Fits all standard types of coax or twin-lead wires. Has provision for terminating to open line, enabling you to bring 300 ohm twin-lead through wall and into room. 15" overall—fits walls up to 14" thick. Can easily be cut down to fit with knife or saw. Requires 1/4" hole. Sh. wt. 8 oz. 83A016, Net.1.15



S Javex 300 Ohm TV Wall Plate. For flush mounting anywhere. For antenna distribution, PA communications, etc. Sh. wt. 6 oz. 10A062, (Ivory) Net.76
10A063, (Brown) Net.76
Model XP-1. 300 ohm plug for above. Sh. wt. 6 oz. 10A064, Net.34

T TV Wall Plate Model S-302-8. For antenna lead-in and Rotor lead wires using up to 8 wires. Sh. wt. 8 oz. 27A083, Net.1.48
Model S-302-4. For antenna lead-in and Rotor leads of Rotors using 3 and 4 wires. Sh. wt. is 6 oz. 27A082, Net.1.35
Model S-302. For antenna lead-in only. Sh. wt. 6 oz. 27A081, Net.1.12



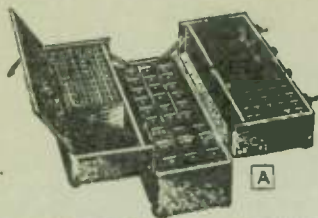
U Mosley Orientor Model 903. Provides fast, accurate one man orientation of any TV antenna. Orients any UHF or VHF antenna for proper direction, lateral position, elevation. Pocket size. Used with any inexpensive rectifier AC voltmeter or portable VOM. Requires no power. Sh. wt. is 1 lb. 10A237, Net.7.35

V TV Porto Mirror Model 8198. An all-TV service mirror for adjusting rear controls and settings of TV sets. Supplied with a rubber-lined spring clamp that can be clamped to a chair. Mirror made of heavy chrome plated metal to prevent distortion of image. 2 lbs. 91A021, Net.2.53

See Yellow Pages for Specials.

SEE WRL FOR ALL YOUR TV NEEDS

TELEVISION ACCESSORIES



A



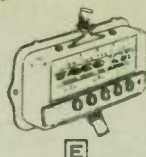
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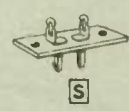
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Q



R



S

A Argo's "Carry-All" Tube Caddy Model TC-4. Specially designed for the TV serviceman. Makes work easier and quicker. Holds up to 262 receiving-type tubes, plus tools and meter. You take inventory at a glance. Missing cartons easily spotted. Heavy two-tone gray scuff-resistant leatherette with handsome brass finish hardware. Solidly built for long service. Size: 8x15x21". Sh. wt. is 16 lbs.
142AF014, Net 13.95

B Argo's Senior Tube Caddy Model TC-1. Durable plywood construction and finished in tough grade leatherette. Metal shields protect corners. Holds over 200 tubes. Drawers are removable. The sh. wt. is 20 lbs.
142AF001, Net 13.50

B Argo's Junior Tube Caddy Model TC-2. Makes work easier and quicker for the TV Serviceman. Shop owners say the Tube Caddy pays for itself in 3 weeks. Extra sturdy, leatherette-wood cabinet in thin, easy-to-carry size. Slip out hinges on cover, with clips inside for price list or mirror. Carries up to 143 tubes, or less with space for tools and meter. Sh. wt. 8½ lbs.
142AF002, Net 8.85

C Penn "Hiloswitch" Model TS-551. 2 Channel TV-FM Antenna Transfer Switch. Permits easy changing from high frequency bands to low frequency bands. No soldering, positive contacts, minimum leakage. Sh. wt. 4 oz.
91A057, Net 1.62

D Penn Jr. "Hiloswitch" Model TS-127. An economy size 2-position switch for easily and correctly switching any two antennas in any combination of UHF, VHF and FM, to a receiver. Easy to install. No soldering. Positive contacts. Sh. wt. 6 oz.
91A114, Net 1.15

E Taco Antenna Selector Switch Model 873. For switching 2 or 3 antennas to a single line; switching a single antenna lead to 2 or 3 sets for store demonstrations; and switching an antenna between sets in the home. Sh. wt. 5 oz.
91A043, Net 1.91

F Penn 2-Set Coupler Model TC-374. Deluxe two set Antenna Coupler permits 2 TV sets with 300 ohm input to be connected to one antenna. Allows simultaneous reception on both sets with no interference from either, on or off. Easy to install, no soldering, positive contacts. Minimum leakage. Has ground connection. Wt. 4 oz.
91A058, Net 2.91

G RCA TV Set Coupler Model 240A1. Permits simultaneous operation of 2 TV receivers from a common antenna. Reduces oscillator radiation between sets and has a flat bandpass response over the VHF bands. Easily installed. Sh. wt. 6 oz.
91A025, Net 1.15

H Taco MI-Lo Switch Model 1425. Provides a perfect match between 2 VHF antennas with maximum energy transfer to a single line. Sh. wt. 10 oz.
91B075, Net 2.32

J Amphonal "Isotnet" Antenna Coupler Model 114-061. Provides low-loss coupling of separate UHF and VHF antennas to a single transmission line. Incorporates highly efficient lumped circuit constants filter network for low-loss. Sh. wt. 8 oz.
83A006, Net 2.21

K Centralab TV Attenuator Switch Model PCM-4. Makes it possible to attenuate each station as much or as little as necessary eliminating the "hit-or-miss" method of installing H-Pads. Installed in series with 300 ohm twin leads. Sh. wt. 12 oz.
4A401, Net 4.41

L Quam Focalizer Unit Kit. Provides sharper focus of TV picture. Ideal for replacement or rebuilding TV sets for larger tubes. Easy to install. Each kit consists of a focalizer unit, a centering handle, an aluminum mounting plate, mounting screws and nuts and instruction sheet. Size: 3-3/8" OD, 1½" thick. Sh. wt. is 2 lbs. Model QF1. For use with most picture tubes operating at anode voltages up to 12 KV.
83A001, Net 2.79
Model QF2. For use with picture tubes operating at anode voltages of 12 KV-15 KV.
83A002, Net 3.50

M Ion Traps. Single magnet for bent gun types. Sh. wt. 5 oz.
10A196, Net59

N Oscillation Eliminator. Fits over horizontal sweep output tube. Brings a concentrated magnetic field near screen grid. Eliminates black lines on picture tube. Sh. wt. 3 oz.
10A195, Net73

O Ion Trap. Dual magnet Ion Trap. Sh. wt. 3 oz.
10A197, Net 1.03

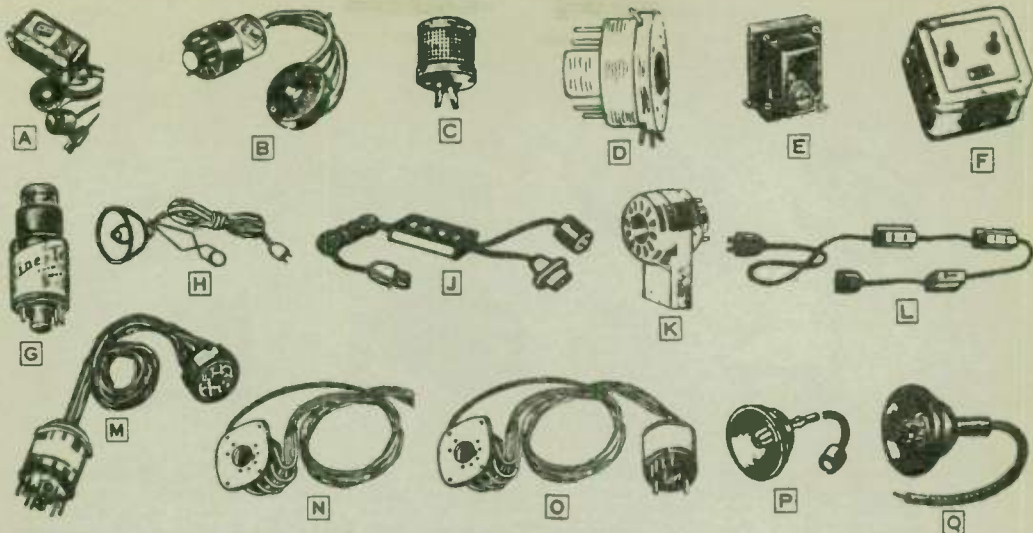
P Beam Adjustor. For centering TV pictures. Fits back cover of any type of standard yoke for any size tube. Sh. wt. is 5 oz.
10A194, Net 1.03

Q TV Cable Cord. Molded plug on one end—rubber plug on other end to fit TV sets. 6 ft. long. Sh. wt. 8 oz.
91A050, (Regular) Net44
91A051, (Zenith) Net59

R Male Receptacle. For connecting type 8200 TV interlock cords. Env. of 2. Sh. wt. 3 oz.
91A052, (Type 8634) Net27

S Interlock Plug. Latest type male interlock plug for TV sets. Sh. wt. 2 oz.
XB035, Net09

TELEVISION ACCESSORIES



A B Perma Power Tube Brighteners. Fully automatic—no switching or wiring; go on and off with TV set. Restore normal screen appearance for extra year or more by increasing electron emission.

A Transformer Type Model C-101. For use in sets with parallel-wired or series-wired filaments. Has 3 boost positions for correct degree of brilliance for particular picture tube. Works on any set—on any picture tube with duo-decal base. Sh. wt. 1½ lbs.
91A072, Net 5.73

B Transformer Type Model C-301. C-101 except has only one position (7.8 V.) in addition to the 6.3 V. position. Sh. wt. 12 oz.
91A066, Net 2.62

B Autoformer Type Model C-201. For use in sets with parallel-wired filaments. Increases filament voltage to 7.8 V. Wt. 10 oz.
91A065, Net 2.03

C TV Line Voltage Regulators. Designed to prevent line voltage surges from reaching TV receiver. Reduces surges up to 140 volts down to approx. 110 volts. Plugs into outlet and provides outlet for receiver.

Model TVA. For TV receivers consuming 200 to 300 watts. Dimensions 1½" dia., 1½" long. Sh. wt. 6 oz.
4A259, Net 1.47

Model TVB. For TV sets having a power consumption of 300 to 375 watts. Size: 1-13/16" dia., 3½" long. Sh. wt. 6 oz.
4A260, Net 1.76

D Picture Tube Test Adapter. Plugs into picture tube. Has test points corresponding to all pins on tube—thus you can check to see if you have right voltages to tube. Sh. wt. 6 oz.
83A022, Net 1.91

E Regency Voltage Booster. Maintains a 117 volt supply to any TV set regardless of voltage variations from 90 to 130 volts. Performs for any TV set or electrical device drawing 350 watts or less. Designed primarily to be used in low line voltage areas. Simple switching and pilot light arrangement indicates when voltage is adjusted correctly. Easy, quick installation. Sh. wt. 7 lbs.
59A020, Net 11.97

F Up-Down Voltage Booster. No need to contend with inadequate picture width, insufficient height, low picture brightness, poor sync and oscillator drift or low sensitivity in fringe areas. Up-Down voltage booster increases or reduces line voltage with a flick of a switch. For use with any TV set up to 300 watts. Installed in seconds. Also a handy unit for use on the service bench. Sh. wt. 3½ lbs.
18A090, Net 5.97

G Vidair "Kine Test". Handy on-the-spot checker for TV picture tube by substitution method. No need to remove either picture tube or chassis from cabinet. Uses 6AF6G electron ray tube to check filament voltage, bias voltage first anode voltage, video signal, contrast and brilliance control action dynamically. Complete with instructions. Sh. wt. 8 oz.
1A399, Net 4.85

H TV Service Lamp. Complete with bracket and 7 watt bulb. Clamps right on chassis. Just the thing for the experimenter, ham or serviceman. Sh. wt. 10 oz.
XA667, Net 1.75

J Double Cheater Cord Model 3344. 6 ft. cord (plugs into 110 volt socket) with double bakelite receptacle and 2 other extension cords attached—one with standard TV socket, the other with Zenith type socket. Sh. wt. 8 oz.
XA621, Net 1.29

K De Ro Juvenators. One compact assembly—No loose ends—No hanging weights. Extends life of old picture tubes. Restores brightness and contrast. Restores sharpness. Easily installed—no tools necessary. Sh. wt. approx. 8 oz.
91B063, (RP-1—For Parallel) .88
91B064, (RS-1—For Series) . . .88

L TV Cheater Extension Cord. Has TV cheater plug on one end—TV cheater socket on other end, thus eliminating the need for additional extension lines. Has 2—110 volt sockets attached in center of line for attaching service lamps, soldering irons, etc. 6 ft. long. Sh. wt. 10 oz.
XA671, Net 1.25

M Eby Deflection Harness Model 49-9H. Universal yoke extension 8 lead connector used in any receiver where an octal connector is used. Sh. wt. 8 oz.
83A018, Net 1.35

N Eby TV Socket Model 49-13DD. Laminated duo-decal TV Socket for CR tubes. Can be used with electrostatic or magnetic tubes. Sh. wt. 8 oz.
83A004, Net47

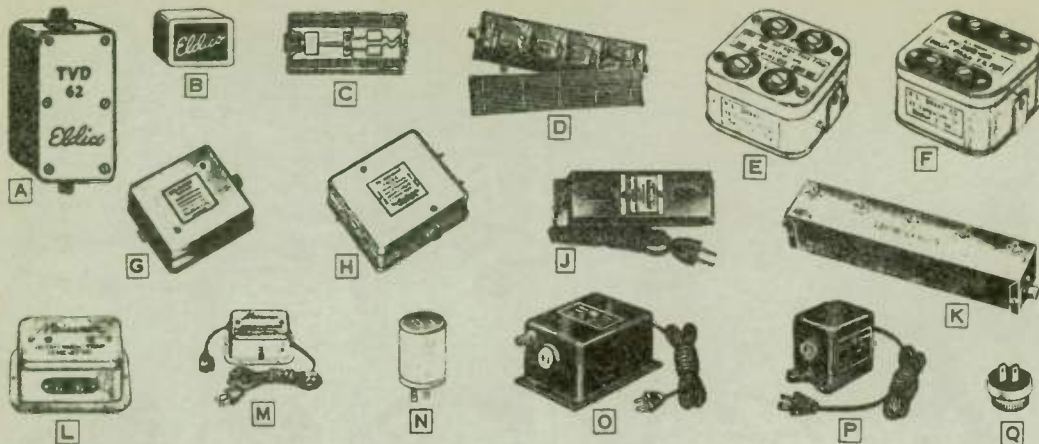
O Eby TV Tube Harness Model 49-13DH. Provides extension of CRT to chassis to facilitate service. Can be used for both electrostatic and magnetic tubes. Sh. wt. 8 oz.
83A019, Net 1.27

P Eby Anode Harness Model 49-10H. Provides extension of high voltage anode for glass tubes to facilitate service. Sh. wt. 8 oz.
83A005, Net94

Q Second Anode Connector. Silver plated snap contacts. 18" wire lead. Sh. wt. 6 oz.
10A193, Net39

ITS EASY TO BUY FROM WRL

INTERFERENCE — TELEVISION FILTERS



A Eldico Low Pass Filters Model TVD-62. Two-section low pass filter, $9\frac{1}{2} \times 4\frac{1}{2} \times 2\frac{1}{8}$ ". Coax connectors for input and output. Cut-off frequency of 40 mc insures maximum performance to 10 meters. Installed directly between the link output of the final and the antenna or tuner. Will handle up to 1 kw AM. For 52 or 72-ohm coaxial feedlines or coaxial feed to antenna tuner. Sh. wt. 3 lbs. 50A110, (Kit) Net. 15.95 50A111, (Wired) Net. 18.95

Eldico Di axial Low-Pass Filters-Model TVD-104. To fill the requirements of amateurs using parallel 52-ohm or 72-ohm coaxial feedlines. Shpg. wt. is 5 lbs. 50A116, (Kit) Net. 22.95 50A117, (Wired) Net. 29.95

B Eldico High-Pass Filters. To be installed directly at the antenna coil of the television receiver. 40-mc cut-off, no attenuation to signals above 40-mc, consequently does not affect picture strength or quality. Sh. wt. 1 lb. TVR-300. 300 ohm high pass fil. 50A106, (Kit) Net. 1.98 50A107, (Wired) Net. 3.98 TVR-62. Coaxial high-pass filter for 52 or 72 ohms. 50A108, (Kit) Net. 1.98 50A109, (Wired) Net. 3.98

C Eldico Brute Force Line Filters. Two section type eliminates RF feed through in AC line. TVL-IKW with line cord and plug and female receptacle. TVL-2.5 KW with BX clamps. TVL-1 KW Kit. For total max. line drain of 1 KW. Sh. wt. $3\frac{1}{2}$ lbs. 50A112, Net. 11.95 50A113, (Wired) Net. 15.95 TVL-2.5 KW Kit. For total max. line drain of 2.5 KW. Wt. is 6 lbs. 50A114, Net. 18.95 50A115, (Wired) Net. 24.95

D B & W Low-Pass Filters. Extremely high attenuation ratios. 4 "K" sections, plus 2 "M" derived end sections. Insertion loss less than .25 db thru entire pass band to .30 mc. Sh. wt. $2\frac{1}{2}$ lbs. 80A023, (425) 52 ohms Net. 14.85 80A024, (426) 75 ohms Net. 14.85

E F Drake Hi-Pass Filters. For use in 300 ohm antenna line. TV-300-50HP for 20mc TV IF's. TV-300-HP for TV sets with both 20 & 40mc IF's. UHF-300-HP attenuates rf interference caused by spurious VHF-TV stations, UHF converters, etc. Wt. $\frac{1}{2}$ lb. Cat. No. Type Fig. Net 50A119 TV-300-50HP E 2.91 50B125 TV-300-HP E 3.50 50A128 UHF-300-HP F 1.91

G Drake Low-Pass Xmttr Filters. The cut off frequency of 44.5 Mc has been chosen for the TV-52-40LP and TV-300LP models to provide maximum attenuation of the 2nd harmonic of 10-meter XMTRS and the 4th harmonic of 20-meter XMTRS. TV-52-20LP has a 22 MC cut-off for attenuation of the 2nd and 3rd harmonics of a 20-meter XMTTR in addition to all harmonics falling in the TV bands. Average attenuation thru-out TV channels is 75 db. Sh. wt. 2 lbs. 50A120, (TV-52-20LP. 52 ohm.) 50A121, (TV-52-40LP. 52 ohm.) 50A122, (TV-300-LP. 300 ohm.) Net Each 12.69

H Drake Half-Wave Harmonic Filters. Band pass type, attenuating all frequencies outside the band for which they are designed. The attenuation of the 2nd harmonic is approximately 30 db., and increases with each succeeding harmonic. Designed for use in 300-ohm twin lead and can be used in open wire lines 200 to 600 ohm with good attenuation. Rated to handle one KW AM phone XMTR in transmission lines having a low standing wave ratio. Sh. wt. 2 lbs. 50A123, (TV-200-10HW. For 10-11 meters.) 50A124, (TV-300-20HW. For 20met. Net Each. 10.73

J Drake Power Line Filter. Incorporates a balanced Pi network circuit. No resonant frequency exists which will limit the filtering action even in the new UHF TV band. Rated at 115 VAC-DC, 500 watts. With cord & plug. Shipping weight is 1 lb. 50A127, (LN-5) Net. 5.70

K Bud Low Pass Filter-LF-601. Minimum attenuation of 85 db on all freq. above 45 mc. & a minimum of 93 db above 70 mc. Cut-off freq: 42mc. Handles full KW. Used with either 52 or 72 ohm coax. Wt. 1 lb. 20B056, Net. 13.24

L Meissner Wave Traps. Reduces unwanted signals. Enclosed in an easily mounted case. Efficient with any balanced or unbalanced line from 50 to 400 ohm impedance. Shpg. wt. 2 lbs. Cat. No. Type Range Net 51A110 15-7510 6-13 MC 3.55 51A111 15-7511 13-27 MC 3.55 51A112 15-7512 27-54 MC 3.55 51A113 15-7513 54-108 MC 3.55 51A114 15-7514 108-216 MC 3.55

M Meissner Line Filters. Grounded and shielded. 300 watt rating. Rejects interference from electric shavers, fans, food mixers, vacuum cleaners, etc. 1 $\frac{1}{2}$ lbs. 51A116, (15-7515) Net. 4.62

CORNELL-DUBILIER QUIETONE INTERFERENCE FILTERS

N Model IF-5. For use with small electrical appliances such as food mixers, hair dryers, etc. Plug type. Rating 110 VAC-DC 5 amps. Shpg. wt. 8 oz. 7C199, Net.73

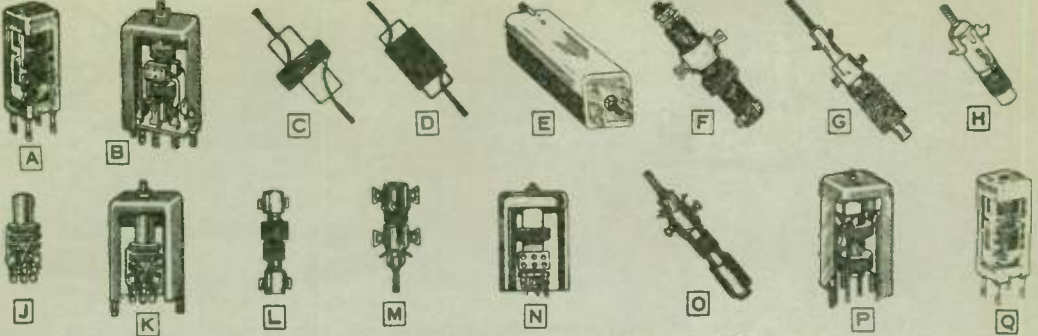
O Model IF-18. For use in connection with all types of electrical appliances where interference conditions are severe. 110 VAC-DC, 5 amps. Bakelite case, walnut finish. Sh. wt. is 5 lbs. 7C200, Net.5.41

P Model IF-20. For use on small electrical appliances where interference is very low. 110VAC-DC. 5 amps. Sh. wt. is 8 oz. 7C201, Net.50

Q Model IF-21. For use on appliances where return lead to the frame of appliance cannot be made, such as shaver, barber clippers, etc. Furnished in bakelite case. 110VAC-DC-1.6 amps. Shipping weight is 2 pounds. 7C202, Net.2.59

LET WRL SOLVE YOUR TV PROBLEMS

COILS - IF TRANSFORMERS



MILLER - THORDARSON - GRAYBURNE - STANWICK

A 4.5 MC Miniature IF's. Shell core permeability tuned transformers with built-in silver mica capacitors. Size: $\frac{1}{2} \times 2$ " high. Shipping weight is 4 oz.

Cat. No.	Type	Description	Net
51B043	6203	Input or Inter.	1.62
51B044	6204	Discriminator	1.94
51B045	6205	Ratio Det.	1.94

B Inter-carrier Sound I.F. Components. 4.5 mc. Single and double tuned circuits. Iron core tuning and high-Q no drift fixed capacitors are used throughout. Mtg. ctrs: $1-1/16$ ". Size: $1-1/8 \times 1-1/8 \times 2-1/8$ " high. Shpg. weight 5 oz.

Cat. No.	Type	Description	Net
51B047	1466	Input or Inter.	1.32
51B048	1467	Discriminator	1.76
51B049	1468	Ratio detector	1.94
51B050	1469	P. O. Coil	.73
51B051	1470	Sound trap	.73

C Video Peaking Coils. For replacement service or for construction of high-quality custom-built television receivers. Size: $3/16 \times 3/8$ ". Av. sh. wt. 5 oz.

Cat. No.	Type	Induct.-uhy	Net
51B081	6176	36	.27
51B082	6172	73	.30
51B083	6177	93	.27
51B084	6178	120	.27
51B085	6179	180	.27
51B086	6180	180	.30
51B087	6173	250	.30
51B088	6181	250	.30
51B089	6174	500	.30

D Filament Choke Type 6175. Inductance: 0.8 uhy. Size: $9/32 \times 7/8$ ". Sh. wt. is 5 oz.

Cat. No.	Net
51B080	.27

E Horizontal Osc. and AFC Discriminator. $1-3/8$ " mtg. ctrs. Size: $1\frac{1}{2} \times 1\frac{1}{2} \times 2\frac{1}{4}$ " high. Wt. 6 oz.

Cat. No.	Net
51B090, (HS-1)	1.62

E Horizontal Osc. and Sync Control. $1-3/8$ " mtg. ctrs. Size: $1\frac{1}{2} \times 1\frac{1}{2} \times 2$ " high. Sh. wt. 6 oz.

Cat. No.	Net
51B091, (HS-2)	1.18

E Horizontal Osc. and Sync Stabilizer. $1-3/8$ " mtg. ctrs. Size: $1\frac{1}{2} \times 1\frac{1}{2} \times 2-5/8$ " high. Wt. is 6 oz.

Cat. No.	Net
51B092, (HS-3)	1.47

F Ringing Coil. 14-28 mh. Mtg. ctrs: $\frac{1}{2}$ " hole. Size: $1" \times 2"$ high. Sh. wt. is 6 oz.

Cat. No.	Net
51B093, (HS-4)	1.29

G Ringing Coil. 10-50 mh. Mtg. ctrs: $7/16$ " hole. Size: $\frac{1}{2}$ " dia., $2-5/16$ " high. Sh. wt. is 6 oz.

Cat. No.	Net
51A094, (HS-5)	1.18

G Horizontal Osc. Coil. 90-130 mh. Mtg. ctrs: $7/16$ " hole. Size: $\frac{1}{2}$ " dia., $2-5/16$ " high. Sh. wt. 6 oz.

Cat. No.	Net
51A095, (HS-6)	1.17

H Stanwick Television Coils Type 957. Width Control. Provides a fine adjustment of picture width without effect on the high voltage supply. Designed to be used with Horizontal Output Transformer No. 948 (similar to RCA 201R1). 6 oz.

Cat. No.	Net
18A062	.57

Type 958. Linearity Control. A variable inductance for use in horizontal deflection circuits for linearity adjustment. (Similar to RCA No. 201R3). Sh. wt. is 6 oz.

Cat. No.	Net
18A063	.57

J Replacement Coils. Permeability tuned. Adjustable for use with variable condenser having maximum capacity between 250-450 mmf. Osc. Coil adjustable to track with i.f. amplifiers between 110-550kc in any type osc. circuit. Tapped pri. & sec. Ant. & r.f. coils cover 500-1800kc. Size: Unshielded: $7/8 \times 2$ "; shielded: $1-3/8 \times 2\frac{1}{4}$ ". Sh. wt. is 5 oz.

Unshielded			
Cat. No.	Type	Stage	Net
51A001	72-A	Antenna	1.29
51A002	72-RF	R.F.	1.29
51A003	72-OSC	Osc.	1.29

Shielded			
Cat. No.	Type	Stage	Net
51A004	73-A	Antenna	1.62
51A005	73-RF	R.F.	1.62
51A006	73-OSC	Osc.	1.62

L Adjustable R.F. Coils. Broadcast band replacement coils. Ant. & R.F. coils have hi imp. pri. & Hi-Q Litz wire sec. Tune with variables having max. cap. between 250-450 mmf. Tapped sec. on osc. coil. Adjustable to track with IF amp. between 100-550Kc. Shipping weight is 4 oz.

Cat. No.	Type	Stage	Size	Net
51B007	70-A	Ant.	$1\frac{1}{2} \times 1\frac{1}{4}$ "	.88
51B008	70-RF	R.F.	$1\frac{1}{2} \times 1\frac{1}{4}$ "	.88
51B009	70-OSC	Osc.	$\frac{1}{2} \times 1-1/8$ "	.88

BFO-112-C5
Tapped winding. Used in cathode-coupled circuits. Knob on top for frequency adjustment. Range: 440-475 KC. $1-1/8 \times 2-1/8$ " H. Wt. 5 oz.

Cat. No.	Net
51A057	1.41

M Adjustable Osc. Coil. 2 tap primary allows 6 feed-back combinations, including cathode coupling. Adjustable between 100-550kc. Tracks with variables having maximum value between 250-450 mmf. in padded circuits and between 100-200 mmf. unpadded. Size: $5/8" \times 1\frac{1}{4}"$. Shpg. weight is 4 oz.

Cat. No.	Net
51A020, (71-OSC)	1.18

N Phono-Oscillator Coil. Used in the construction of radio operated phonograph players. Permeability tuned and assembled in an aluminum shield. Frequency range from 540 to 700 KC. Instructions furnished. Shpg. weight is 4 oz.

Cat. No.	Net
51A056, (522)	1.94

O Grayburne Loopsticks. Ferri. Eliminates need of a loop antenna. Highly ferro-magnetic core. Provides increased gain & signal-to-noise ratio. $2\frac{1}{4}"$ long. Wt. 5 oz.

Cat. No.	Net
10A163	.45

Varl. Similar to above but with micrometer adjustment. Bracket for quick snap-on mtg. Sh. wt. 5 oz.

Cat. No.	Net
10A162	.59

P Iron Core Transformers. Mica compression tuned I.F. transformers. Provide excellent gain and selectivity. Size: $1-1/8 \times 2$ ". 6 oz.

262 KC Transformers-Iron Core			
Cat. No.	Type	Use	Net
51A030	012-H1	Input	1.56
51A031	012-H2	Interstage	1.56
51A032	012-H3	Full-Wave	1.56
51A033	012-H4	Half-Wave	1.56

455 KC Transformers-Iron Core			
Cat. No.	Type	Use	Net
51A036	012-C1	Input	1.56
51A037	012-C2	Interstage	1.56
51A038	012-C3	Full-Wave	1.56
51A039	012-C4	Half-Wave	1.56

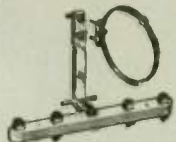
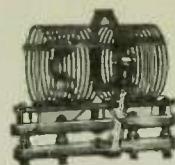
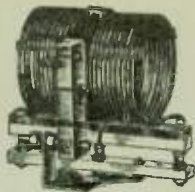
Q Miniature I.F. Transformers. Designed for experimenters and replacement use in "personal" receivers. Moulded plastic frames with silver mica condensers. Tuning from top & bottom. Snap spring mounting. Size: $\frac{1}{4}"$ square, $2\frac{1}{2}"$ H. *With diode fil. cap. Wt. is 5 oz.

262 KC Transformers			
Cat. No.	Type	Descript.	Net
51B013	12-H1	Input	1.47
51B014	12-H2	Output	1.47
51B015	*12-H6	Output	1.56

455 KC Transformers			
Cat. No.	Type	Descript.	Net
51B016	12-C1	Input	1.29
51B017	12-C2	Output	1.29
51A018	*12-C6	Output	1.38

SEE LEO FOR ALL YOUR TV NEEDS

TRANSMITTING COILS — LINKS



A Bud 75 Watt Transmitter Coils. Ceramic mounting base. All coils are air-wound and mount in 5 prong tube sockets. The OEL coils have fixed link and are not tapped. OCL have fixed center link with main winding center tapped. OLS have adjustable center link, main winding center tapped. OES have adjustable end link and are not tapped. OCP have adjustable center link main winding center tapped. Wt. 1 lb.

Band	OEL	OCL	OLS	OES	Net
160	20A017				2.24
80	20A002	20A010	20A018	20A025	1.91
40	20A003	20A011	20A019	20A026	1.88
20	20A004	20A012	20A020	20A027	1.79
15	20A005	20A013	20A021	20A028	1.77
10	20A006	20A014	20A022	20A029	1.71

	OCP	OEP	Net
10	20A032	20A034	1.71
20	20A031	20A033	1.79

B Bud Variable Link Transmitter Coils. Link winding is connected to the jack bar into which the coils are plugged, & this link may be used with any of the coils regardless of band being worked. Shipping weight is 2 1/2 lbs.

RLS No.	Band	Cap. Mmf.	Net
20A049	160	95	3.73
20A050	80	78	3.38
20A051	40	38	2.91
20A052	20	30	2.59
20A053	15	30	2.62
20A054	10	28	2.47

AM-1339 base & link for 150 watt coils.
20A055, Net 3.23

500 Watt Coils

VLS No.	Band	Cap. Mmf.	Net
21A009	160	85	4.26
21A010	80	70	3.88
21A011	40	36	3.41
21A012	20	28	2.94
21A013	15	25	2.90
21A014	10	25	2.85

AM-1352 base & link for 500 watt coils.
21A015, Net 4.88

One Kilowatt Rating

MLS No.	Band	Cap. Mmf.	Net
21A032	80	65	6.76
21A033	40	37	6.03
21A034	20	33	5.88
21A035	15	30	5.73
21A036	10	25	5.23

AM-1340 base & link for kilowatt coils.
21A038, Net 6.47

C Bud Antenna Matching Network Coils. Rated at 500 W. All coils & links have a sufficient number of taps provided to allow both the inductance and the coupling to be varied over a wide range. Coils are supported on statelite insulators, which are mounted on a black crackled base. Sh. wt. is 2 lbs.

21A016, (ACV-1) 160-40 Mtr.	6.18
21A017, (ACV-2) 20-10 Mtr.	4.32

D Johnson Ham Inductors. Polystyrene insulation. Statelite bases and heavier wire sizes insure highest efficiency. HCS types match high voltage, low current tubes. LSC types match low voltage, high current tubes. Wt. is 2 lbs.

Cat. No.	Type	Cap.	Net
35A001	1000HCS160	99	7.35
35A002	1000LCS160	140	7.35
35A003	1000HSC80	46	6.57
35A004	1000LCS80	73	6.57
35A005	1000HCS40	24	5.93
35A006	1000LCS40	55	5.93
35A007	1000HCS20	19	5.44
35A008	1000LCS20	26	5.44
35A009	1000H/LSC14	19	5.10
35A010	1000H/LCS10	18	4.80
35A013	500HCS160	100	3.67
35A014	500LCS160	148	3.67
35A015	500HCS80	45	3.38
35A016	500LCS80	76	3.38
35A017	500HCS40	27	3.09
35A018	500LCS40	50	3.09
35A019	500HCS20	25	2.65
35A020	500LCS20	37	2.65
35A021	500H/LCS14	19	2.21
35A022	500H/LCS10	19	2.06
35A023	500H/LCS6	18	2.06
35A025	150HCS160	102	3.24
35A026	150LCS160	151	3.24
35A027	150HCS80	51	2.94
35A028	150LCS80	68	2.94
35A029	150HCS40	28	2.65
35A030	150LCS40	57	2.65
35A031	150HCS20	21	2.35
35A032	150LCS20	32	2.35
35A033	150H/LCS14	19	2.06
35A034	150H/LCS10	19	1.91
35A035	150H/LCS6	16	1.91

E Bud Add-A-Links. When the circuit you are using requires a different number of turns on the coil link than is furnished with the standard coil, the links below can be used to replace the standard link. Av. sh. wt. 1/4 lbs.

Cat. No.	Type	Used with Turns	Net
21A046	AM-1303	RLS 3	.51
21A047	AM-1304	RLS 4	.53
21A048	AM-1305	RLS 5	.62
21A049	AM-1307	VLS 3	.51
21A050	AM-1308	VLS 4	.53
21A051	AM-1309	VLS 5	.62
21A052	AM-1310	VLS 6	.71
21A053	AM-1311	MLS 3	.79
21A054	AM-1312	MLS 4	.94
21A055	AM-1313	MLS 5	1.03
21A056	AM-1314	MLS 6	1.12

F Bud Shielded Coil Links. These links are made to fit RLS, VLS and MLS series of coils. This link will prevent capacity coupling between the tank coil and the link and would reduce TVI by greatly attenuating harmonics. The links can be used on coax or balanced lines. Sh. wt. is 1/4 lb.

Cat. No.	Type	Used with	Net
21A058	AM-1300	RLS-150W.	2.35
21A059	AM-1301	VLS-500W.	2.50
21A060	AM-1302	MLS-KW.	2.88

G B & W Foraday Shielded Links. These shielded links effectively reduce all harmonic or spurious signal radiations normally transferred by capacity coupling. Adaptable to all conventional link coupled circuits. They may be used with external antenna tuning units or in conjunction with harmonic filters of the low or band pass types. Shipping weight is 1 1/4 lbs.

30A015	3581	1	500	5.10
30A016	3582	2	500	5.10
30A017	3583	3	500	5.10
30A018	3588	Link arm assy.		2.40
31A019	3589	Link arm & hinge		2.70
30A020	3781	1	1000	5.40
30A021	3782	2	1000	5.40
30A022	3783	3	1000	5.40
30A023	3788	Link arm assy		2.70
30A024	3789	Link arm & hinge		3.00

H B & W Plug-In Links. Plug-in links for impedance matching. Adaptable to all B & W Swinging Link Assemblies, these units solve the quick change problem. Just pull out one coil and plug in another with the required number of turns. Old link arm easily replaced with new plug-in type. Sh. wt. is 1 lb.

Cat. No.	Type	Turns	Net
31A037	3550	Arm Only	.90
31A038	3565	Arm & Hinge	1.00
31A026	3551	1	.60
31A027	3553	3	.60
31A030	3554	4	.60
31A031	3555	5	.60
31A028	3556	6	.60
31A029	3560	10	.95
31A041	3562	12	.95

For Type HDV Swinging Link Assemblies

Cat. No.	Type	Turns	Net
31A039	3750	Arm Only	1.40
31A040	3765	Arm & Hinge	1.80
31A032	3751	1	1.25
31A033	3753	3	1.25
31A034	3756	6	1.25
31A035	3760	10	1.75

J Johnson Links & Jock Bar Assemblies. Select the link to match your line, coupler or output filter for optimum transfer. Links have banana plug connections. Available for 150/500 W. or 1000 W. coils. Links, jack bars, & swinging arm assys. available separately as described.

Cat. No.	Type	Turns	Net
34A025	150/500SL12	12	1.76
34A026	150/500SL5	5	1.13
34A027	150/500SL2	2	.98
34A028	1000SL10	10	1.86
34A029	1000SL5	5	1.42
34A030	1000SL2	2	1.08

Cat. No.	Type	Watts	Net
34A039	150JBS	150	.88
34A040	500JBS	500	1.18
34A041	1000JBS	1000	1.76

Cat. No.	Type	Used with type	Net
34A043	150/500SLA	150/500 Ind.	1.13
34A044	1000SLA	1000 Induct.	1.37

EASY TIME PAYMENTS—NAME YOUR OWN TERMS

TRANSMITTING COILS



B & W INDUCTORS

Type B is for use in oscillator and buffer-doubler stages developing up to 100 watts power. Type T is for high powered neutralizing buffer and final tank stages where powers of 500 watts are developed. Type HD is for maximum power, handles a kilowatt with ease. All types are center tapped except types BEL.

Without Link				
Cat. No.	Type	Band	Wt.	Net
33A070	5B	5	9oz.	1.65
33A071	10B	10	10oz.	1.65
33A072	15B	15	10oz.	1.74
33A073	20B	20	10oz.	1.74
33A074	40B	40	10oz.	2.16
33A075	80B	80	10oz.	2.58
33A076	160B	160	10oz.	2.82

End Link				
Cat. No.	Type	Band	Wt.	Net
33A078	5BEL	5	10oz.	2.91
33A079	10BEL	10	9oz.	2.91
33A080	15BEL	15	9oz.	2.97
33A081	20BEL	20	10oz.	2.97
33A082	40BEL	40	10oz.	3.39
33A083	80BEL	80	10oz.	3.81
33A084	160BEL	160	10oz.	4.11

Center Link				
Cat. No.	Type	Band	Wt.	Net
33A086	5BCL	5	10oz.	2.91
33A087	10BCL	10	10oz.	2.91
33A088	15BCL	15	10oz.	2.97
33A089	20BCL	20	10oz.	2.97
33A090	40BCL	40	11oz.	3.39
33A091	80BCL	80	10oz.	3.81
33A092	160BCL	160	11oz.	4.11

Jack Bar Assembly for end or center link type B inductors. Sh. wt. 10oz.

32A009, Net85

Variable Link				
Cat. No.	Type	Band	Wt.	Net
32A001	5BVL	5	10oz.	2.31
32A002	10BVL	10	12oz.	2.31
32A003	15BVL	15	10oz.	2.40
32A004	20BVL	20	10oz.	2.40
32A005	40BVL	40	11oz.	2.73
32A006	80BVL	80	11oz.	3.12
32A007	160BVL	160	11oz.	3.45

Jack Bar and Swinging Link for BVL inductors. Shipping weight is 14 oz.

32A010, Net344

Type T Without Link				
Cat. No.	Type	Band	Wt.	Net
32A011	10T	10	1 lb.	1.80
32A012	15T	15	1 lb.	1.92
32A013	20T	20	1 1/4 lb.	1.92
32A014	40T	40	1 lb.	2.31
32A015	80T	80	1 lb.	2.73
32A016	160T	160	1 lb.	3.06

Jack Bar Assembly for type T inductors. Shipping weight is 1 1/4 lb.

32A031, Net125

Center Linked				
Cat. No.	Type	Band	Wt.	Net
32A018	10TCL	10	1 1/4 lb.	3.45
32A019	15TCL	15	1 1/4 lb.	3.57
32A020	20TCL	20	1 lb.	3.57
32A021	40TCL	40	1 lb.	3.96
32A022	80TCL	80	1 1/4 lb.	4.38
32A023	160TCL	160	1 1/4 lb.	4.71

Jack Bar Assembly for type T inductors. Shipping weight is 1 1/4 lb.

32A031, Net125

Type HD Without Link				
Cat. No.	Type	Band	Wt.	Net
32A041	10HD	10	1 1/4 lb.	3.72
32A042	15HD	15	1 1/4 lb.	4.50
32A043	20HD	20	1 1/4 lb.	4.50
32A044	40HD	40	1 1/4 lb.	4.95
32A045	80HD	80	2 lbs.	5.76
32A046	160HD	160	2 lbs.	7.02

Center Linked				
Cat. No.	Type	Band	Wt.	Net
32A048	10HDCL	10	1 1/4 lb.	7.02
32A049	15HDCL	15	1 1/4 lb.	7.83
32A050	20HDCL	20	1 1/4 lb.	7.83
32A051	40HDCL	40	1 lb.	8.25
32A052	80HDCL	80	1 1/4 lb.	9.06
32A053	160HDCL	160	2 lb.	10.32

Jack Bar Assembly for HD and HDCL inductors. Shipping weight is 3 lbs.

31A025, Net175

Type HDVL Variable Linked				
Cat. No.	Type	Band	Wt.	Net
31A002	10HDVL	10	1 1/4 lb.	5.37
31A003	15HDVL	15	1 1/4 lb.	6.21
31A004	20HDVL	20	1 1/4 lb.	6.21
31A005	40HDVL	40	1 1/4 lb.	6.60
31A006	80HDVL	80	2 lb.	7.41
31A007	160HDVL	160	2 lb.	8.67

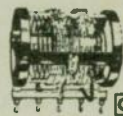
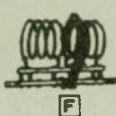
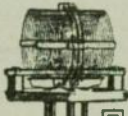
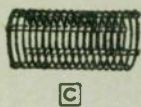
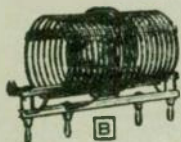
Base Assembly and Swinging Link for HDVL inductors. Sh. wt. 3 1/4 lbs.

31A009, Net688

Type TVL Variable Linked				
Cat. No.	Type	Band	Wt.	Net
32A025	10TVL	10	1 1/4 lb.	2.64
32A026	15TVL	15	1 1/4 lb.	2.73
32A027	20TVL	20	1 lb.	2.73
32A028	40TVL	40	1 1/4 lb.	3.12
32A029	80TVL	80	1 1/4 lb.	3.57
32A030	160TVL	160	1 1/4 lb.	3.72

Base Assembly and Swinging Link for TVL inductors. Shpg. weight is 2 lbs.

32A032, Net550



B & W Antenna Inductors. Wound with tinned copper wire for ease in tapping feeders to coils. Center links are fixed. Two tinned clips come with each coil. Type TA coils for power input up to 500 W. 3 lbs.

Cat. No.	Type	Band	Mmfd.	Net
31A010	10TA	10	20	3.45
31A011	15TA	15	23	3.57
31A012	20TA	20	23	3.57
31A013	40TA	40	34	3.96
31A014	80TA	80	50	4.38
31A015	160TA	160	65	4.71

Jack Bar Assembly for above. 1 1/4 lbs.

32A031, Net125

B & W Miniductors. Can be cut to size. For RF use. 1" & 1/4" diameter coils are 3' long. Others 2' long. Shpg. wt. 3 oz.

4 Turns Per Inch			
Dia. No.	Type	No. Turns	Net
1/2"	33A001 3001	33A002 3002	.36
5/8"	33A005 3005	33A006 3006	.45
3/4"	33A009 3009	33A010 3010	.54
1"	33A013 3013	33A014 3014	.60
32 Turns Per Inch			
1/2"	33A003 3003	33A004 3004	.36
5/8"	33A007 3007	33A008 3008	.45
3/4"	33A011 3011	33A012 3012	.54
1"	33A015 3015	33A016 3016	.60

Standard Air Inductors. For construction of buf., final tank coils, antenna loading coils, etc. 10" long. Turns per inch. 8 oz.

Cat. No.	Type	Dia.	Turns	Net
29A012	3905-1	2 1/2"	6	1.30
29A013	3906-1	2 1/2"	8	1.30
29A014	3907-1	2 1/2"	10	1.50

B & W 25 Watt Baby Air Inductors. Only 1 1/2"x1 1/2". M—Straight coil. MC—has no link, MEL—end link. MCL—center link. Sh. wt. is approx. 3 oz.

Band	M	MC	MEL	MCL
160	33A018	33A025	33A032	33A039
80	33A019	33A026	33A033	33A040
40	33A020	33A027	33A034	33A041
20	33A021	33A028	33A035	33A042
15	33A022	33A029	33A036	33A043
10	33A023	33A030	33A037	33A044

Net Each126

75 Watt Junior Inductors. Fitted with 5 prong steatite base. Rated at 75 watts 85V DC volts. Type JEL is end linked; JCL is center linked; JVL is variable linked. Wt. is 5 oz.

Band	JEL	JCL	JVL	Net
5	33A046	33A054	33A062	1.65
10	33A047	33A055	33A063	1.65
15	33A048	33A056	33A064	1.65
20	33A049	33A057	33A065	1.65
40	33A050	33A058	33A066	1.65
80	33A051	33A059	33A067	1.65
60	33A052	33A060	33A068	1.65

B & W 3400 Series Inductors. For powers up to 500 watts. Each coil has an individual internal center coupling, adjustable over 360 degrees permitting precise impedance matching up to 600 ohms. Sh. wt. is 1 1/4 lbs.

Cat. No.	Type	Band	Cap.	Net
29A001	3401	10	24	9.00
29A002	3402	15	25	9.00
29A003	3403	20	30	9.00
29A004	3404	40	30	9.00
29A005	3405	80	50	9.00

Jack Bar Assembly for above. 1 1/4 lb.

32A031, Net125

B & W Type TVH Inductors. A special group of units with eight contact plug bars which gives greater flexibility than is possible otherwise. For powers up to 500 watts input. Shpg. weight is 2 lbs.

Cat. No.	Type	Band	Mmfd.	Net
32A033	10TVH	10	11	4.71
32A034	15TVH	15	23	4.71
32A035	20TVH	20	23	4.71
32A036	40TVH	40	28	4.71
32A037	80TVH	80	49	4.71
32A038	160TVH	160	67	4.71

Jack Bar & Link for TVH. 1 1/4 lbs.

32A040, Net516

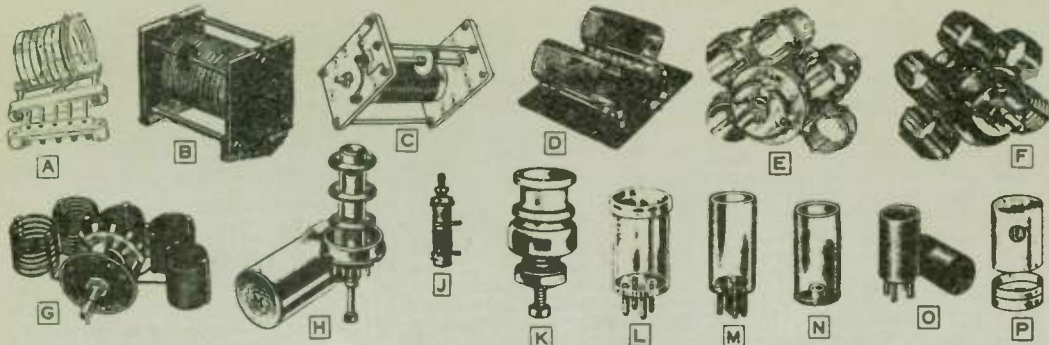
B & W Plug and Jack Bars. Made of high quality steatite. Ample size to insure excellent strength. They provide experimenters with the same units that are used in B & W inductors. They also can be used as spreaders for feeders and other parts of the antenna system. Av. wt. 6 oz.

Cat. No.	Type	Descript.	For series	Net
30A005	3914	Plug	B	.20
30A006	3915	Plug	B	.60
30A007	3916	Plug	T	.45
30A008	3917	Jack	T	1.00
30A009	3918	Plug	TVH	.60
30A010	3919	Jack	TVH	1.10
30A011	3920	Plug	HD	1.10
30A012	3921	Jack	HD	1.25

Look to WRL for the latest in amateur equipment. We will continue to supply all new items as they are released by the factory.

LEO GIVES TERMS TO SUIT YOUR BUDGET

COILS—COIL FORMS



A Millen Transmitting Inductors. Permit symmetrical arrangement of circuits. Average shpg. wt. is 1 lb.

75 Watt Inductors—Center Link			
Cat. No.	Type	Band	Net
24A012	43011	10 Meter	1.41
24A014	43021	20 Meter	1.41
24A016	43041	40 Meter	1.41
24A018	43081	80 Meter	1.41

75 Watt Inductors—End Link			
Cat. No.	Type	Band	Net
24A013	43012	10 Meter	1.41
24A015	43022	20 Meter	1.41
24A017	43042	40 Meter	1.41
24A019	43082	80 Meter	1.41

Type 43001. Quartz Q blank form, 1-5/16" diameter by 2" long. Wt. 8 oz.
24A011, Net 1.05

150 Watt—Split Coil for Swing Link			
Cat. No.	Type	Band	Net
24A024	44010	10 Meter	2.01
24A025	44020	20 Meter	2.01
24A026	44040	40 Meter	2.01
24A027	44080	80 Meter	2.34

Type 44001. Quartz Q blank form, 1-7/8" diam., by 3-3/4" long. 8 oz.
24A023, Net 1.35

500 Watt—Split Coil for Swing Link			
Cat. No.	Type	Band	Net
24A030	42010	10 Meter	3.18
24A031	42020	20 Meter	3.18
24A032	42040	40 Meter	3.18
24A033	42080	80 Meter	3.18

Plugs, Sockets, & Swing Links			
Cat. No.	Type	Band	Net
24A001	40205	5-prg. plug	.51
24A002	41205	5-prg. socket	.69
24A003	40305	5-prg. plug	.69
24A004	41305	5-prg. socket	.84

Type 42500. Large socket and swinging link for use with 42000 series inductors. Shpg. wt. 5 oz.

24A005, Net 4.86

Type 44500. Medium 5-prong seatite socket with 150 watt swinging link for use with 44000 series inductors. Shpg. swt. 5 oz.

24A006, Net 3.06

B Johnson Rotary Inductor Type 229-201. Same as used in the Viking I. May be used in any low & medium power xmt. with bandswitching exciter to provide continuous tuning throughout the range of 3.5 to 30.0 mc. without changing coils. Maximum inductance 10 microhenries. Seatite form & end plates. Size: 2 1/4 x 3/4". 5 lbs. 34A001, Net 8.67

C B & W Rotary Coil Type 3852. Practical method of continuously varying circuit inductance over entire range of the coil. Ideally suited for antenna loading requirements. Rated at 500 W. Inductance 15uh. Size: 4 1/2 x 3 1/2". 3/8" shaft extension. Shpg. wt. 5 lbs. 29A017, Net 14.40

D B & W Bifilar Balun Inductors. Used with Xmt's having unbalanced output. Used in pairs to match 72 ohm unbalanced output to 72 or 300 ohm balanced lines. Can be used in reverse to match balanced output to unbalanced lines. See May 1951 CQ, "The Impedance Matcher". Shipping weight is 12 oz. 29A011, EA. (2 coils required). . 3.75

E B & W Baby Turrets. S-bandswitching units cover amateur bands from 10 to 80 meters. 35 watt rating. Tune with 50 mmf. BTCT is center tapped, and BTM is straight untapped. Shipping weight is 1 1/2 lbs.

Cat. No.	Type	Link	Net
31A042	BTM	None	10.14
31A043	BTCT	None	10.14
31A044	BTCL	End	10.14
31A045	BTCL	Center	10.14

F B & W Turret Assemblies. They make possible fast, positive band switching. All units cover 80, 40, 20, 15 and 10 meter bands. Average shipping weight is 3 lbs.

Type 3121. 75 Watt Band Hoppers may be used for interstage coupling between two beam power tubes, or between beam power tubes and triodes. Sh. wt. 1 lb.
31A047, Net 5.76

75 Watt Turrets. May be used with tubes operating at voltages up to 850. Type JTCL is center linked, center tapped. JH. wt. 2 lb. 30A001, JTCL, Net 11.25
30A002, JTCL, Net 11.25

150 Watt Turrets. Used with tubes operating at voltages up to 1000. BCL is center linked, center tapped. BEL is end linked, & untapped. 2 1/2 lbs. 30A003, BCL, Net 14.01
30A004, BEL, Net 14.01

G Bud Band Switch Assembly ONS-1. 50W., 10-15-20-40-80 mtr. For low pwr. osc. or amp. stages. Size: 5/8 x 2 1/2 x 3" D. Shipping weight is 2 1/2 lbs. 21A041, Net 8.09

H Millen Tunable Coil Forms. Standard octal base of low loss mica-filled bakelite; polystyrene 1/4" dia. coil form; heavy aluminum shield; and iron tuning slug of high frequency type. Suitable for use up to 35 Mc. 74001 is with iron core, 74002 is less iron core. Sh. wt. is 5 oz. 23A069, (74001) Net 2.10
23A070, (74002) Net 1.68

J Cambridge Coils and Forms. For use in broadband R.F. amplifiers. Iron slug, and mount in 1/4" hole. 3/8" dia. 1-1/8" high when mounted. 2 oz.

Cat. No.	Type	Mc.	Net
51A133	LS3	1	.93
51A134	LS3	30	.83
51A135	LSM	1	.93
51A136	LSM	30	.83

Coil Forms Only

Cat. No.	Type	Dia.	Lgth.	Net
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51A139	LSM	3/16"	1-7/16"	.66
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51A140	LS3	3/8"	1-13/16"	.50
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K Millen Permeability Tuned Coil Forms. Winding diameters and lengths of winding space are 13/32 x 7/32 for 69041 and 69042; 1/4 x 3/8 for 69043, 69047, & 69048; 1/2 x 1/16 for 69045 & 69046; 3/16 x 3/16 for 69044. Shpg. wt. is 4 oz.

Cat. No.	Type	Description	Net
23A071	69041	Copper Slug	.84
23A072	69042	Iron Core	.84
23A073	69043	Iron Core	.84
23A074	69044	Copper Slug	.84
23A075	69045	Copper Slug	1.05
23A076	69046	Iron Core	1.05
23A077	69047	Copper Slug	1.05
23A078	69048	Iron Core	1.05

L Amphenol Plug-in Coil Forms. Fits standard tube sockets. Dia. of coil 1 1/4"; length of body 2 1/4". Shipping weight is 1 oz.

Cat. No.	Type	Descript.	Net
10A033	24-4P	4 prong	.24
10A034	24-5P	5 prong	.24
10A035	24-6P	6 prong	.24

M Amphenol Miniature Plug-in Coil Forms. For transceivers, low power transmitters and UHF receivers. 3/4" OD. Sh. wt. 1 oz. 10A037, 24-6H, (6 prong) Net 24

N Amphenol Miniature Coil Forms. Raised hole in center of base for self-tapping screw. 3/4" OD, 1-9/16" long. Shipping weight is 1 oz. 10A039, (Type 24) Net09

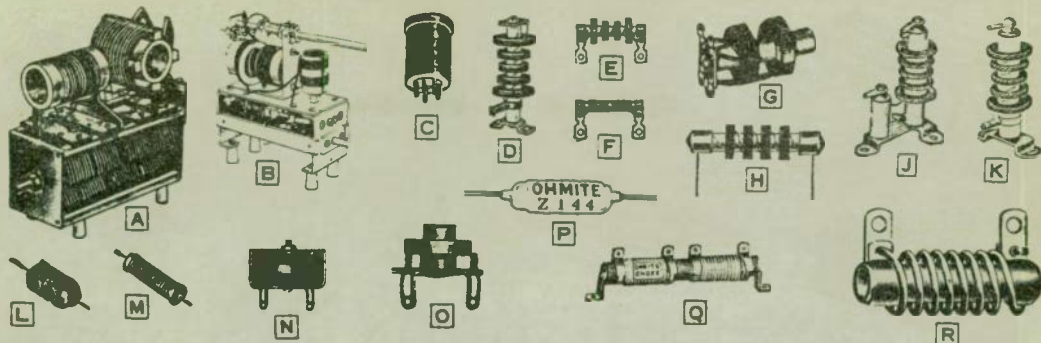
O Millen Midget Coil Forms. Made of low loss mica filled brown bakelite. Guide funnel makes for easy threading of leads thru pins. Shipping weight is 3 oz.

Cat. No.	Type	Dia.	Pins	Net
23A066	45000	1"	0	.39
23A067	45004	1"	4	.51
23A068	45005	1"	5	.51

P ICA Coil Shields. Detachable base. Made of aluminum. Sh. wt. 4 oz.

Cat. No.	Type	Dimensions	Net
10A113	1539	2-1/8 x 3"	.24
10A114	1540	2 1/2 x 3 1/4"	.46
10A115	1549	3 x 3 1/4"	.49

R-F CHOKES - COILS



A National Multi-Band Tank Assembly Type MB-150. Will tune all bands from 80 to 10 meters with a single 180 degree rotation of the capacitor without changing the coils. For use in tank plate circuits with inputs of up to 150 watts (pair of 807's, 809, or single 829-B.) Shipping weight is approx-4 lbs.

49A210, Net.21.56

B National Multi-Band Tank Assembly Type MB-405L. Similar to MB-50 except used in grid circuits with approximately 20 watts input and in final circuits when input to the stage does not exceed 40 watts loaded. Includes swinging link for varying inductance. Shipping weight is approx-4 lbs.

49B209, Net.17.75

C ICA Short Wave and Broadcast Plug-in Coils. Made of genuine bakelite. Diameter is 1 1/4"; height is 2 1/4". Rim handle for easy changing. Uniformly spaced winding. Used with either 140 or 150 mid. tuning condenser. Wound on low-loss bakelite forms. 4 prong-2 windings. Shipping weight is 8 ounces.

Type 1471-Set of 4 short wave coils covering 9 1/2 to 174 meters.

10A159, Net.2.45

Type 1473-Set of two Broadcast coils covering 160 to 550 Meters.

10A160, Net.1.96

D E F Johnson RF Chokes.

Chokes have high reactance over the range for which they are designed. Frequency range: 1.7-30 mc for all except type 101-760 which is ultra-high. Coils are of enameled silk-covered wire impregnated with high grade lacquer and wound on steel cores. Current rating may be increased for intermittent use. Average shpg. wt. is 3 oz. *Uh. Cat. No. Type Fig. Ma. Mh. Net

34A056	102-750	E	150	.83	1.13
34A057	102-752	D	500	1.0	1.76
34A058	102-754	D	750	1.9	2.45
34A055	102-760	F	250	6.8*	.48

G Miller Hash Filters. For mercury vapor rectifier tubes. Approximate shipping weight is 10 oz.

Cat. No.	Type	Description	Net
23A095	77083	"83" filter	1.14
23A096	77866	"866" filter, pr.	1.41
23A097	77872	"872" filter, pr.	1.56

H National RF Chokes. Similar electrically but mtg. provisions differ. R-100 & R-300 have pig-tails. R-100S & R-100S have cotterpin terminals. R-100ST & R-300ST have 6-32 threaded stud at each end. R-100U & R-300U have pig-tails and standoff insulators.

Cat. No.	Type	Mh.	Ma.	Net
49A088	R-100	2.5	125	.40
49B223	R-100S	2.5	125	.48
49B224	R-100S	5.0	125	.48
49B225	R-100S	10.0	125	.48
49B226	R-100ST	0.5	125	.40
49B227	R-100ST	2.5	125	.40
49B228	R-100ST	10.0	125	.40
49B229	R-100U	5.0	125	.48
49B230	R-100U	10.0	125	.48
49A089	R-100U	2.5	125	.48
49A090	R-300	2.5	300	.44
49B231	R-300	0.5	300	.44
49B232	R-300	1.0	300	.44
49B233	R-300	5.0	300	.44
49B234	R-300S	0.5	300	.48
49B235	R-300S	1.0	300	.48
49B236	R-300S	2.5	300	.48
49B237	R-300S	5.0	300	.48
49B238	R-300ST	0.5	300	.40
49B239	R-300ST	1.0	300	.40
49B240	R-300ST	2.5	300	.40
49B241	R-300ST	5.0	300	.40
49B242	R-300U	0.5	300	.48
49B243	R-300U	1.0	300	.48
49B244	R-300U	5.0	300	.48
49A091	R-300U	2.5	300	.48

J K L M National RF Chokes.

Types R-152, R-154, R-154A and R-175A have mounting feet provided for upright mounting. R-33, R-50 and R-60 are pig-tail types. *Microhenries. Av. sh. wt. 4 oz.

Cat. No.	Type	Fig.	Mh.	Ma.	Net
49A092	R-152	J	4	600	2.01
49A093	R-154	J	1	600	2.01
49A094	R-154U	K	1	600	1.61
49A095	R-175	J	225*	800	3.56
49A096	R-33	L	1*	33	.40
49A097	R-33	L	10*	33	.40
49A098	R-33	L	50*	33	.40
49A099	R-33	L	100*	33	.40
49A100	R-33	L	750*	33	.40
49A101	R-50	L	10	50	.61
49A102	R-50	L	.5	50	.40
49B219	R-50	L	1	50	.40
49B220	R-50	L	2.5	50	.40
49B221	R-60	M	2*	500	.40
49B222	R-60	M	4*	500	.40

N O Meissner RF Chokes.

Coils are wound on specially treated dowels, mounted on a bakelite terminal base, and thoroughly moisture proofed. Available in shielded or unshielded types, both single-hole mounting. Shielded chokes have terminals thru top of can so unit can be mounted on inside wall of chassis. Shield cans are bright aluminum finish. 1-3/8" square. Average shipping weight is 3 oz.

N Shielded

Cat. No.	Type	Mh.	Net
51A064	19-5582	2.5	.76
51A065	19-5584	5.5	.76
51A066	19-5588	8.0	.76
51A067	19-1900	10.0	.88
51A068	19-5590	16.0	.88
51A069	19-5592	30.0	.88
51A070	19-5594	60.0	1.18
51A071	19-5596	80.0	1.18

O Unshielded

Cat. No.	Type	Mh.	Net
51A072	19-1994	2.5	.53
51A073	19-4551	5.5	.53
51A074	19-2078	8.0	.53
51A075	19-8770	10.0	.53
51A076	19-1995	16.0	.59
51A077	19-2330	30.0	.76
51A078	19-3247	60.0	.82
51A079	19-2708	80.0	.82

P Ohmite RF Plate Chokes.

All chokes 1000 ma. rating except Z-14 and Z-28, these are rated at 600 ma. non-magnetic brackets furnished with Z-7. Av. shipping weight is 4 oz.

Cat. No.	Type	Mc.	Mh.	Net
9A193	Z-7	3-30	84.0	1.10
9A194	Z-14	7-35	44.0	.48
9A195	Z-28	20-85	21.0	.31
9A196	Z-50	35-110	7.0	.23
9A197	Z-144	80-200	1.8	.23
9A198	Z-235	160-350	0.84	.23
9A199	Z-460	320-520	0.30	.23

Q Ohmite Power Line Chokes.

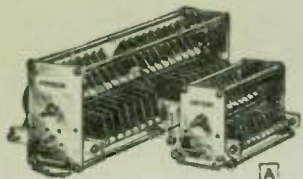
Cat. No.	Type	Mh.	A. Ohms	Lb.	Net
9A223	Z-20	14	.15	1	1.51
9A224	Z-21	15	.10	0.7	1.54
9A225	Z-22	18	.045	2	3.66
9A226	Z-30	46	.085	3	5.51

R Parasitic Suppressor. Consists of a 300-ohm non-inductive resistor. Supports a choke of 0.3 microhenries induct. and .003 ohms DC. Shpg. wt. is 4 oz.

9A200.1.37

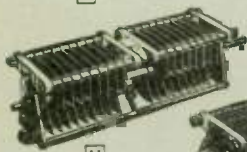
ITS EASY TO BUY FROM WRL

VARIABLE CONDENSERS



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A



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C



D



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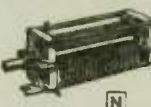
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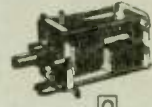
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O

A B Johnson Type C and D Transmitting Condensers. Steatite insulation. Center rotor contacts on dual condensers. $\frac{1}{4}$ " cadmium plated steel shafts. Average shpg. wt. 3 $\frac{1}{2}$ lbs.

Type C Single Section					
Cat. No.	Type	Max.	Min.	Spacing	Net
11A002	100C110	103	30	.350"	10.39
11A004	100C130	102	42	.500"	11.96

Type D Single Section					
Cat. No.	Type	Max.	Min.	Spacing	Net
11A016	150D45	146	23	.125"	8.18
11A019	100D70	98	23	.175"	7.94
11A020	150D70	151	31	.175"	9.46
11A021	250D70	244	45	.175"	11.76
11A022	50D90	53	20	.250"	7.25
11A023	70D90	73	25	.250"	8.04
11A024	100D90	99	30	.250"	8.97
11A025	150D90	149	43	.250"	10.78

Type C Dual Section					
Cat. No.	Type	Max.	Min.	Spacing	Net
11A005	150CD90	147	30	.250"	17.64
11A006	50CD110	50	18	.350"	12.10
11A008	100CD110	103	32	.350"	18.03

Type D Dual Section					
Cat. No.	Type	Max.	Min.	Spacing	Net
11A026	100DD35	95	13	.080"	9.13
11A027	150DD35	147	15	.080"	10.48
11A028	150DD45	155	24	.125"	13.03
11A029	50DD70	52	15	.175"	9.31
11A030	70DD70	72	17	.175"	10.78
11A031	100DD70	97	22	.175"	12.15
11A032	150DD70	151	31	.175"	15.68
11A033	50DD90	52	19	.250"	10.78
11A034	100DD90	97	30	.250"	14.26

C Cardwell Transmitting Capacitor-PL-7006. Compact, light weight and sturdy construction. All aluminum end plates and tie rods. $\frac{1}{4}$ " steel shaft, cadmium plated. Maximum capacity; 365 mmf. Minimum capacity; 16 mmf. Air gap: .030". Size: 3-17/32x2 $\frac{1}{2}$ x3-3/8". Sh. wt. is approx. 10 oz.

19A001, Net 8.82

D E F Johnson Miniature Air Variable Condensers. For VHF and UHF use. Steatite insulation. Panel mounting space: $\frac{1}{2}$ x5/8". Mount in $\frac{1}{4}$ " panel hole. Voltage breakdown: 1250 V. peak. Improved terminal provides dual low inductance path to both stator supports, eliminates possibility of loosening plates when soldering. 3 oz.

Single				
No.	Type	Max.	Min.	Net
11A107	5M11	5.1	1.5	.93
11A108	9M11	8.7	1.7	.98
11A109	15M11	14.6	2.1	1.13
11A110	20M11	19.7	2.6	1.27

Differential				
No.	Type	Max.	Min.	Net
11A111	6MA11	5.6	1.8	1.38
11A112	9MA11	9.3	2.0	1.52
11A113	15MA11	14.8	2.3	1.71
11A114	19MA11	19.3	2.7	1.96

Butterfly				
No.	Type	Max.	Min.	Net
11A115	3MB11	3.3	1.7	1.32
11A116	5MB11	5.3	2.1	1.47
11A117	9MB11	8.3	2.7	1.67
11A118	11MB11	11.0	3.2	1.86

G H Johnson Type E and F Condensers. These condensers have steatite insulation. Aluminum plates are .032" thick. Tie rods $\frac{1}{4}$ " dia. Wt. is 3 $\frac{1}{2}$ lbs.

Type E Single Section					
Cat. No.	Type	Max.	Min.	Spacing	Net
11A035	250E20	244	12	.045"	5.24
11A039	100E30	100	11	.075"	4.85
11A040	150E30	154	14	.075"	5.44
11A042	50E45	53	11	.125"	4.65
11A044	100E45	101	16	.125"	5.34
11A045	150E45	145	20	.125"	6.17

Type F Single Section					
Cat. No.	Type	Max.	Min.	Spacing	Net
11A056	35F20	35	7	.045"	4.41
11A057	50F20	54	8	.045"	4.61
11A058	70F20	66	8	.045"	4.75
11A059	100F20	106	10	.045"	5.19
11A060	150F20	154	12	.045"	5.78
11A062	50F30	52	9	.075"	4.90
11A063	70F30	67	11	.075"	5.24
11A064	100F30	99	14	.075"	5.78
11A065	150F30	148	18	.075"	6.61

Type E Dual Section					
Cat. No.	Type	Max.	Min.	Spacing	Net
11A047	50ED30	52	8	.075"	6.66
11A048	70ED30	72	8	.075"	7.01
11A049	100ED30	99	10	.075"	7.69
11A050	150ED30	153	13	.075"	9.02
11A051	200ED30	196	15	.075"	10.58
11A052	50ED45	52	10	.125"	7.06
11A053	70ED45	74	12	.125"	7.89
11A054	100ED45	100	15	.125"	9.26

Type F Dual Section					
Cat. No.	Type	Max.	Min.	Spacing	Net
11A066	50FD20	53	7	.045"	6.27
11A067	70FD20	66	7	.045"	6.66
11A068	100FD20	104	9	.045"	7.45
11A069	150FD20	153	11	.045"	8.62
11A070	50FD30	51	8	.075"	6.76
11A071	70FD30	68	10	.075"	7.54
11A072	100FD30	99	13	.075"	8.72

J Johnson Neutralizing Condensers. Small mounting space requirements & extremely high voltage rating in proportion to size make these ideal for the modern transmitter. Plates are aluminum cups supported on a steatite frame with cast aluminum mounting bracket. Peak RF breakdown ratings at 2 mc.: N125-8,500, N250-11,500, N375-14,500. Wt. 4 oz.

Cat. No. Type Max. Min. Spacing Net					
11A098	N125	11	1.1	.125"	5.58
11A099	N250	10.6	1.4	.250"	6.61
11A100	N375	10.7	1.7	.375"	8.43

K Bud Compact Neutralizing Condensers. Ideal for neutralizing & high frequency tuning. Sh. wt. 12 oz.

Cat. No. Type Range Lgh. Net					
19A108	NC-1928	.75-4	2-13/16"	.68	
19A109	NC-1929	1-6	2-7/16"	1.27	
19A110	NC-1930	2-12	3-7/16"	1.91	

L Bud Feed-Through and Base Mounted Neutralizing Condensers. Aluminum plates, rounded edges to cut down losses. After proper tuning is attained, movable plate can be locked. Type 890 and 852 are ideal neutralizers for popular low power beam tubes. Type 890 is base mounted only. Shpg. wt. is 1 lb.

Cat. No.	Type	Plt. Dia.	Max. Min. Net
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19A103	NC-852	1"	6 .5 1.47
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19A104	NC-853	1-27/32"	11 1 2.68
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19A105	NC-890	1"	6 .5 1.20
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M B & W Type CX Condensers. Designed for built-in neutralization. Integral mounting of B & W coils reduce lead lengths and resulting lead inductance to an absolute minimum. In normal connection the maximum is approximately doubles. Type A has .500 air gap; B has .375" and C has .250". * Capacity, sections in series. Shipping weight is 5 $\frac{1}{2}$ lbs.

No.	Type	*Max.	*Min.	Net
30A028	CX49A	28	14	27.36
30A029	CX77A	43	20	34.53
30A030	CX58B	33	13	25.80
30A031	CX70B	38	15	28.47
30A032	CX82C	34	11	22.56

ACCESSORIES

Type 3930-1. Single vacuum condenser mount. Shpg. wt. 3 oz.

30A034, Net 1.85

Type 3930-2. Twin vacuum condenser mount. Shpg. wt. 6 oz.

30A035, Net 2.25

Neutralizing Plates. For use with Type CX Condensers. Sh. wt. 12 oz.

No.	Type	Will Neut.	Net
30A037	N1HY114, HK24, RK31, HK54, TW75		5.58
30A038	N275T, 35T, 808, RK35, 852		5.58
30A039	N3801, T220, T240, RK18, HK154, 811, 812, T55, 100TH, 250TH		5.58
30A040	N4833, T200, 805, GL152, 838, 203A, RK52		5.58

N O Johnson Type L Condensers.

Rugged construction. Suitable for portable-mobile operation. Split sleeve tension bearing assures silent operation at highest frequencies. Ceramic end plates 1-3/8" square. Wt. 1 $\frac{1}{2}$ lbs.

Single Section

No.	Type	Max.	Min.	Spacing	Net
11B074	10L15	11	2.8	.030"	1.52
11B075	25L15	27	3.5	.030"	1.62
11B076	50L15	51	4.6	.030"	1.81
11B077	75L15	75	5.7	.030"	2.01

Double End Plate

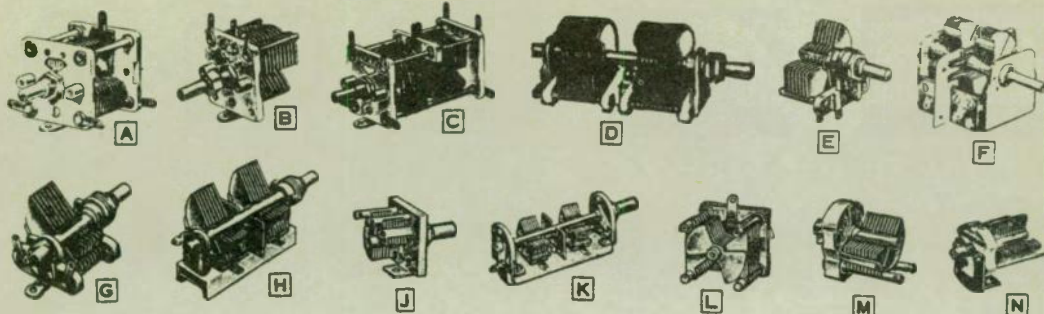
11B078	100L15	99	6.8	.030"	3.09
11B079	200L15	202	11.6	.030"	3.97

Dual Section

S&W SECTION						
11B085	25LD15	27	3.5	.030"		3.43
11B086	50LD15	51	4.6	.030"		3.82
11B088	100LD15	99	6.8	.030"		4.54

QUICK DELIVERY ON ALL YOUR RADIO NEEDS

VARIABLE CONDENSERS



A Bud Midget Condensers Double Bearing. Brass rotor and stator plate stacks are assembled into permanent units by means of electro-soldering. Steatite insulation. Smooth rotation, noise free tuning. Wt. 2 lbs.

Cat. No.	Type	Max.	Min.	Gap	Net
19A048	CE-2000	15	4	.030"	2.15
19A049	CE-2001	35	6	.030"	2.38
19A050	CE-2002	50	7	.030"	2.70
19A051	CE-2003	75	8	.030"	2.97
19A052	CE-2004	100	9	.030"	3.24
19A053	CE-2005	150	10	.030"	3.46
19A087	CE-2006	200	11	.030"	4.12
19A088	CE-2007	250	12	.030"	4.35
19A089	CE-2008	300	15	.030"	4.56
19A055	CE-2011	15	5	.060"	2.24
19A056	CE-2012	35	7	.060"	2.50
19A057	CE-2013	50	8	.060"	2.91
19A058	CE-2014	75	10	.060"	3.38
19A059	CE-2015	100	13	.060"	3.91
19A061	CE-2016	35	9	.095"	3.03
19A062	CE-2017	50	10	.095"	3.35
19A063	CE-2018	75	14	.095"	3.94

B Bud Midget Condensers Single Bearing. Locking nuts on rotor. Screwdriver slot in rotor provides means of adjustment. Either insulated panel mounting or bracket mounting can be used. Wt. 1/2 lbs.

Cat. No.	Type	Max.	Min.	Gap	Net
19A065	CE-2020	15	4	.030"	1.76
19A066	CE-2021	35	6	.030"	2.00
19A067	CE-2022	50	7	.030"	2.24
19A068	CE-2023	75	8	.030"	2.50
19A069	CE-2024	100	9	.030"	2.68
19A070	CE-2025	150	10	.030"	2.85
19A072	CE-2028	15	5	.060"	2.00
19A073	CE-2029	35	7	.060"	2.24
19A074	CE-2030	50	8	.060"	2.50

C Bud Dual Midget Condensers. Features a rotor wiping contact at the center of the assembly to assure maximum efficiency at ultra-high frequencies. Steatite insulation. Shipping weight is 2 lbs.

Cat. No.	Type	Max.	Min.	Air Gap	Net
19A076	CE-2032	35	6	.030"	3.21
19A077	CE-2033	50	7	.030"	3.53
19A078	CE-2034	75	8	.030"	3.91
19A079	CE-2035	100	9	.030"	4.50
19A080	CE-2036	150	10	.030"	5.18
19A083	CE-2039	15	5	.060"	3.71
19A084	CE-2040	35	7	.060"	4.27
19A085	CE-2041	50	8	.060"	4.68

D Bud Midget Condensers Double Gang. Same as other midget condensers. For chassis and panel mounting. Shpg. weight is 1 lb.

Cat. No.	Type	Max.	Min.	Pts.	Net
19A098	MC-929A	50	5	7	3.21
19A099	MC-911A	100	6	14	3.62
19A100	MC-912A	140	7	19	3.91

E Bud Midget Condensers Single Bearing. Construction is the same as other midget condensers, except these have a front bearing only. Av. shipping weight 12 oz.

Cat. No.	Type	Max.	Min.	Pts.	Net
19A091	MC-1870	15	3	3	1.24
19A092	MC-1872	33	4	5	1.38
19A093	MC-1873	50	5	7	1.47
19A094	MC-1875	100	7	14	1.62
19A095	MC-1876	140	8	19	1.79

F ICA Midget Condensers. Mechanical design insures constancy of calibration and uniformity between units. Ball bearings on both ends of shaft insure long life without wear or side play. Heavy brass springs make direct contact with rotor shaft, insuring a clean wiping contact at all times. Sh. wt. 1 1/2 lbs.

No.	Type	Mmfd.	Descpt.	Net
10A152	542	365	Single Gang	1.71
10A153	534	365	Two Gang	2.53
10A154	531	365	Three Gang	3.19

Superheterodyne Type. Designed for 455Kc. IF, RF section is 27 plates, 435 mmd. Oscillator section is 19 plates, 173 mmd. Measurements similar to two gangs above. 1 1/2 lbs.

10A155, (Type 545) Net 2.53

Cat. No.	Type	Max.	Min.	Net
19A003	MC-20-S	20	5.5	2.59
19A004	MC-35-S	35	6.0	2.75
19A005	MC-50-M	50	6.3	2.82
19A006	MC-50-S	50	6.5	2.82
19A007	MC-75-M	80	7.3	3.00
19A008	MC-75-S	80	8.0	3.00
19A009	MC-100-M	100	7.7	3.09
19A010	MC-100-S	100	8.3	3.09
19A011	MC-140-M	140	9.0	3.32
19A012	MC-140-S	140	10.0	3.32
19A013	MC-200-M	200	10.3	3.56
19A014	MC-250-M	250	12.0	3.79
19A015	MC-325-M	320	13.5	4.15
19A016	MC-20-SX	20	6.8	2.76
19A017	MC-35-MX	32	7.8	2.91
19A018	MC-35-SX	32	8.5	2.91
19A019	MC-50-MX	53	10.5	3.09
19A020	MC-50-SX	53	11.5	3.09
19A021	MC-100-SX	100	16.5	3.85

Cat. No.	Type	Max.	Min.	Net
19A022	MCD-50-M	50	5.5	4.35
19A023	MCD-100-M	100	6.3	4.79
19A024	MCD-100-S	100	7.0	4.79
19A025	MCD-140-M	140	7.8	5.18
19A026	MCD-35-MX	31	6.0	4.53
19A027	MCD-35-SX	31	6.8	4.53

J K Hammarlund HF and HFD Capacitors. Ideally suited to high frequency applications. Straight line capacity. Single space types (HF and HFD) have .015" air gap. Wide spaced types (HF-X and HFD-X) have .045" air gap. Shpg. wt. 6 oz.

Cat. No.	Type	Max.	Min.	Net
19A028	HF-15	17.5	2.8	1.24
19A029	HF-35	36	3.2	1.27
19A030	HF-50	52	3.7	1.29
19A031	HF-100	102	5.3	1.50
19A032	HF-140	142	6.3	1.76
19A033	HF-15-X	15	3.6	1.32
19A034	HF-30-X	30	5.2	1.44

Cat. No.	Type	Max.	Min.	Net
19A035	HFD-50	52	3.6	3.56
19A036	HFD-100	102	5.0	4.09
19A037	HFD-140	142	6.0	4.53
19A038	HFD-15-X	16	3.8	3.50
19A039	HFD-30-X	28.5	5.0	3.88

L Hammarlund BFC Capacitor. Butterfly types. May be used in VHF applications as series capacitor with no rotor connection or as dual split-stator capacitor. Straight line capacity. .030" air gap. Shpg. wt. 1 lb.

Cat. No.	Type	Max.	Min.	Net
19A040	BFC-12	14.5	3.4	1.62
19A041	BFC-25	27.3	4.8	1.82
19A042	BFC-38	40.1	6.2	2.15

M Hammarlund Type APC Capacitor. Straight line capacity characteristics. Screwdriver or socket adjustment. .015" air gap. Shpg. wt. is 6 oz.

Cat. No.	Type	Max.	Min.	Net
19A043	APC-25	25	3.0	1.15
19A044	APC-50	50	3.9	1.21
19A045	APC-75	75	4.6	1.29
19A046	APC-100	100	5.5	1.41
19A047	APC-140	140	6.7	1.68

N Johnson Type J Condensers. The type J condenser is a midget with big condenser characteristics. It has wider spacing than most small types (.025") yet occupies little more space and is ideal for oscillator and low power stages. Steatite end plate 1-1/8" wide. Mounting bracket included. Shipping weight is 12 oz.

Cat. No.	Type	Max.	Min.	Net
11A101	7J12	8	2.6	1.62
11A102	15J12	17	3.3	1.71
11A103	25J12	29	3.6	1.86
11A104	50J12	52	4.9	2.11
11A105	75J12	73	6.0	2.35
11A106	100J12	102	7.0	2.64

DIALS & KNOBS



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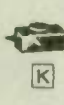
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NATIONAL PRODUCTS

A Type ACN Dial. For the experimenter who builds his own and desires direct calibration. 5" high, 7 1/4" wide. Shpg. wt. 1 lb. 49A128, Net..... 3.80

B Type ICN Dial. Similar to ACN but is illuminated with two dial lights. The dial window has been blanked out in a semi-circular shape to prevent shadow casting. Dial scales the same as on ACN dial. 5-1/8" high, 7 1/4" wide. 3 lbs. 49A129, Net..... 6.90

C Type SCN Dial. Provides same scales as ACN dial but reduced in size. 4-7/16x6 1/4"W. 2 lbs. 49A130, Net..... 3.45

D Type MCN Dial. Used in mobile installations and small converters. May be mounted on standard 3 1/2" rack panel where such mounting may be desirable. The dial provides three calibrating scales and 0-100 logging scale. Shipping weight is 2 lbs. 49A127, Net..... 3.11

E Type O Dial. 3 1/2" dia. scale 2, with HRK knob, fits 1/4" shafts. Shipping weight is 1 lb. 49A137, Net..... 1.15

F Type R Dial. 1-5/8" diameter. Scale calibrated 0-10 in 180 degrees for increased reading with clockwise rotation. Fits 1/4" shaft. Shipping weight is 3 oz. 49A147, Net..... .69

G Type AM Dial. The original Velvet Vernier mechanism in a metal skirted dial 3" in dia. Ratio 5 to 1. Available with 3, 4, 5, or 6 scale and fits 1/4" shaft. Specify scale. Shipping weight is 1 lb. 49B005, 3 scale Net..... 2.59
49B006, 4 scale Net..... 2.59
49B007, 5 scale Net..... 2.59
49B008, 6 scale Net..... 2.59

H Type N Dial. 4" dial has engine divided scale. Decimal vernier. The planetary drive has a ratio of 5 to 1 and is contained within the body of the dial. 2, 3, 4 and 5 scale. Fits 1/4" shaft. 2 lbs. 49B001, 2 scale Net..... 5.18
49B002, 3 scale Net..... 5.18
49B003, 4 scale Net..... 5.18
49B004, 5 scale Net..... 5.18

J Type HRK Knob. Black bakelite knob 2-3/8" diameter. Used on type O and L dials. Fits 1/4" shafts. Shipping weight is 4 oz. 49A144, Net..... .66

K Type HRP-P Knob. Black bakelite knob 1 1/4" long, 1/2" wide. Fits 1/4" shaft. Equipped with pointer. Shipping weight is 3 oz. 49A143, Net..... .28

L Type HRP. Same as HRP-P except it has no pointer. Shpg. wt. 2 oz. 49A142, Net..... .21

M Type HRB. Ideal for bandswitching or other applications where a switch is turned to several index positions, the new HRB lever knob has just the right feel—a bright zinc alloy die casting. Shpg. wt. is 4 oz. 49A136, Net..... .52

N Type SF-4B Knob. Black knob. 1-3/8" diameter. Brass insert. 1/4" shaft. Shipping weight is 2 oz. 10A168, Net..... .18

N Black Bakelite Knobs. Sh. wt. is 4 oz.

Cat. No.	Type	For Shaft	Net
49A149	VD-16A	3/16"	.66
49A154	VD-16	1/4"	.66

O Type ODL. A locking device which clamps the rim of O, K, L, and M Dials. Brass, nickel plated. Shpg. wt. 3 oz. 49A152, Net..... .38



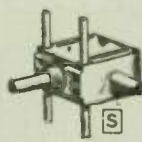
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P Type 10035. Illuminated panel dial 12 to 1 ratio. 8 1/2x6 1/4". Provision for mounting and marking auxiliary controls. Shipping wt. is 3 lbs. 23A002, Net..... 6.75

Q Type 10039. Similar to type 10035 except smaller. Size: 4"x3 1/4". Ratio, 8 to 1. Shipping weight is 2 lbs. 23A003, Net..... 3.00

R Dial Lock. Type 10050. Compact and easy to mount. Positive in action, does not alter dial setting in operation. Single hole mounting. Shpg. wt. 5 oz. 23A010, Net..... .51

S Right Angle Drive-10012. 6 to 1 ratio. Extremely compact, with provisions for many methods of mounting. Ideal for operating potentiometers, switches, etc. that must be located, for short leads, in remote parts of chassis. Shipping weight is 8 oz. 23A011, Net..... 4.20

T Dials. Nickel, silver instrument dials. *Pointer. +Friction drive. Shipping weight is 8 oz.

Cat. No.	Type	Dia.	Net
23A005	10007	1-5/8"	.69
23A006	10008	3-1/2"	1.14
23A007	10009	2-1/2"	.96
23A008	*10021	.....	.18
23A009	+10065	.....	.45

U Shaft Locks. 10061 instantly converts any plain 1/4" shaft volume control, condenser, etc. to "shaft-locked" type. Mounts in place of regular nut. 10060 mounts on condenser end bushing. 5 oz. 23A012, (Type 10060) Net... .42
23A013, (Type 10061) Net... .42

V Direct-Drive Dial. Accurately calibrated. For transmitting and test equipment. Brass inserts fit 1/4" shafts. 0-100 calibration. Shpg. weight is 6 oz.

Cat. No.	Type	Rot.	Dia.	Net
10A164	292	180	4"	3.28
10A165	293	270	4"	3.28
10A166	294	180	2 1/2"	2.62
10A167	295	270	2 1/2"	2.62

ITS EASY TO BUY FROM WRL

[A] Type 1100. Majestic Bakelite Knob. Set screw type. 7/8" dia. 1/4" shaft. Shpg. wt. 2 oz. 1A400, (Walnut) Net.14

[B] Type 1105. Royal Bakelite Knob. Set screw type. 7/8" dia. 1/4" shaft. Shipping weight is 2 oz. 1A401, (Walnut) Net.14

[C] Type 1109. Yankee Bakelite Knob. Set screw type. 1/2" dia. 1/4" shaft. Shipping weight is 2 oz. 1A402, (Walnut) Net.14

[D] Type 1063. Radio Knob Puller. For removing knobs that are hard to pull off. Slip behind knob and pull off. Shpg. wt. is 3 oz. 1A421, Net.29

[E] Type 6751. Knob Bushings. Reduce from 1/4" to 3/16". For auto radios. Shpg. wt. is 3 oz. 1A420, (Env. of 8) Net.27

[F] Pointer Type Plastic Knob. 15/16" dia. 1/4" shank for 1/4" knurled shafts. Shpg. wt. is 2 oz. Cat. No. Type Descpt. Net
1A408 1188 Walnut .09
1A409 1189 Ivory .09

[G] Midget Type Plastic Knob. 23/32" dia. Flush shank for 1/4" knurled shafts. Shpg. wt. is 2 oz. Cat. No. Type Descpt. Net
1A410 1193 Walnut .08
1A411 1194 Ivory .09


[H] Type 1175. Instrument Knob. For communications equipment, instruments. 1/2" brass insert, set screw. 1 1/2"x7/8". Sh. wt. 3 oz. 1B417, Net.32

[J] Auto Radio Knobs. Chrome plated. For 1/4" and 3/16" shafts. Set screw mounting. Shipping weight is 2 oz. Cat. No. Type Shafts Net
1A418 1169 3/16" .21
1A419 1174 1/4" .21

[K] Knob Kit Type 8860. 4 knobs for RCA & other TV receivers. Consists of 1 each: 8861 front dual bar pointer channel knob; 8862 rear channel knob for 8861; 8863 front knob (off-on-volume) & 8864 rear knob for 8863. For flat-ted shaft, with springs. 6 oz. 1B412, Net.97

[L] Midget Bakelite Knobs. For small sets. 11/16" dia. 1/4" shaft. Shpg. wt. 2 oz. Pointer type. Cat. No. Type Descpt. Net
1A404 1115 Walnut .08
1A405 1116 Ivory .10
1A406 1117 Red .10
1A407 1118 Black .08

[M] & [N] Black Bar Knobs. Sh. wt. is 4 oz. Cat. No. Type Fig. Size Net
10A170 24436 M 2" .18
10A169 24435 M 1 1/4" .09
10A171 6420 N 1 1/4" .24
10A172 6423 N 2 1/4" .32

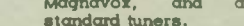


TV KNOB KITS

Replacements for most sets. Shpg. wt. 12 oz.

Kit M-4. Fit 630TS chassis, RCA, Admiral, Magnavox, and all standard tuners.

10A173, Net . . . 1.35



[Q] Black Phenolic Knobs. A distinctive line of knobs suitable for the finest electronic equipment. Av. sh. wt. 8 oz.

Cat. No.	Type	Dia.	Net
35A036	116-220	1-1/8"	.29
35A037	116-260	1-5/8"	.38
35A038	116-280	2-3/8"	.58

[R] Dials. Satin chrome scale with single line indicator 0-100 over 180°. 5 to 1 friction vernier drive. Shipping weight is 8 ounces.

Cat. No.	Type	Dia.	Net
35A047	116-262	2 1/2"	1.37
35A048	116-282	4"	1.96
35A049	116-285	4"	3.53

[S] Spinner Knobs. Black phenolic. For multi-turn devices such as variable inductors, potentiometers, etc. Sh. wt. is 8 oz.

Cat. No.	Type	Dia.	Net
35A050	116-226	1-1/8"	.55
35A051	116-266	1-5/8"	.66
35A052	116-286	2-3/8"	.80

[Q] Dials. 1-1/2" beveled satin chrome scale with 1-1/8" knob.

Kit R-4. Fit late model sets such as Bendix, Silverstone, Columbia, Air King, and RCA. 10A076, Net. . . . 1.25

Assortment of replacement belts.
Contains 25 of the most popular
belts used. Shpg. wt. approximat-
ely 5 lbs.

DIAL PLATES



A

B

C

D

E

F

G

H

[A] Title Plates. These title plates are standard for identifying meters, controls, switches, and terminals on a wide variety of equipment. Letters are black. Each plate measures 3/8" by 1-3/4". Average shipping weight is 3 oz.

Net Each. 12

[B] Identicals. There are hundreds of uses for Identicals. Mark the childrens toys, your tools, etc. Gold background, red and black border. Easy to apply. When ordering, print name or call letters clearly. 3 oz.
 65A035, 50 of one name. 1.00
 65A035, 100 of one name. 1.75
 With city or town—50 cents extra.

[C] Add-A-Title Dial Plates. These dial and switch plates can be used separately or with title plate across the top as illustrated. 2-3/8"x1-3/4". 3 oz.

Cat. No.	Type	Calibrated	Net
64A226	406	0-100 in 180	.24
64A227	407	100-0 in 180	.24
64A228	408	0-10 in 300	.24
64A229	409	5-0-5 in 300	.24

[D] Single Vertical Style. Title attached. 2-5/8"x2-3/16"W. Shipping weight is 3 oz.

Cat. No.	Type	Title	Calibration	Net
64A260	436	Gain	0-10	.29
64A261	437	Gain	5-0-5	.29
64A262	438	Switch	1-2-3	.29
64A263	439	Tone	0-10	.29

[E] Single Horizontal Style. With title attached. 2-3/16"H. by 2-5/8"W. Shipping weight is 3 oz.

Cat. No.	Type	Title	Calibration	Net
64A240	410	No Title	0-10	.29
64A241	411	Tone	0-10	.29
64A242	412	Gain	0-10	.29
64A243	413	Master Gn.	0-10	.29
64A244	414	Record	0-10	.29
64A245	415	Microphone	0-10	.29
64A246	416	Mike 1	0-10	.29
64A247	417	Mike 2	0-10	.29
64A248	422	Gain	5-0-5	.29
64A249	423	Increase—Arrow		.29
64A250	424	Radio-Mike	5-0-5	.29
64A251	425	Record-Mike	5-0-5	.29
64A252	426	Volume	0-10	.29
64A253	427	Fader	5-0-5	.29
64A254	428	Bass	5-0-5	.29
64A255	429	Treble	5-0-5	.29
64A256	430	Expansion	0-10	.29

Double Horizontal, 2-3/16"H. x 5"W. Sh. wt. is 3 oz.

Cat. No.	Type	Title and Calibration	Net
64A270	418	Tone 0-10, Gain 0-10	.50
64A271	419	Record 0-10, Mike 0-10	.50
64A272	420	Mike 1, 0-10, Mike 2, 0-10	.50

Quadruple Horizontal. 2-3/16" high by 9 1/2" wide. Mike 0-10—Record 0-10—Master Gain 0-10—Tone 0-10. Shipping weight is 3 oz.

64A275, (421) Net. 82

[F] Rotary Switch Plate. Shipping weight is 3 oz.
 64A280, (584) Net. 15

[G] Round Control Plates—1 1/4" dia. Shipping weight 3 oz.

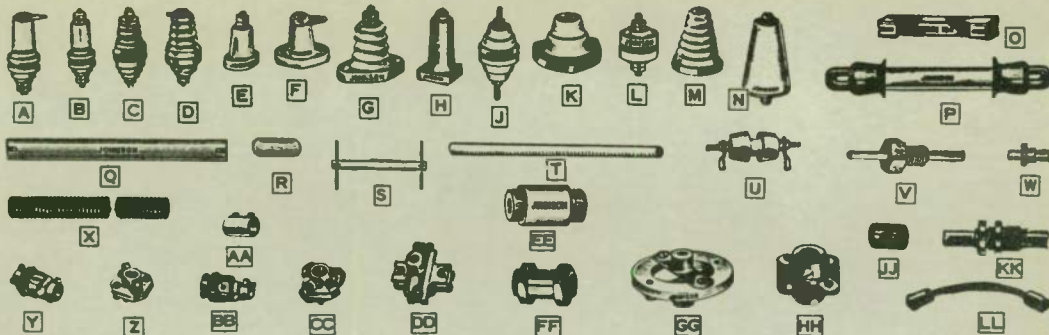
Cat. No.	Type	Description	Net
64A281	25	Volume	.18
64A282	26	Off-Tone Control	.18
64A283	569	0-100 thru 180	.18
64A284	905	0-100 thru 270	.18

[H] Technicals. Easy to apply decals. Gives professional appearance to panels, etc. Sign Design decals used for call letters on autos, etc. All are white except Sign Design which have gold letters. Wt. 3 oz.

65A013, Transmitters	1.35
65A014, Receivers	1.35
65A017, Alphabets	1.35
65A020, Instruments	1.35
65A022, Sign Design	1.35

Cat. No.	Title	Cat. No.	Title
64-A-1	A.C.	64-G-11	On
64-A-2	A.C. Input	64-G-12	Oscillator
64-A-3	A.C. Output	64-G-13	Osc. Tank
64-A-4	A.C. Voltage	64-G-15	Output
64-A-5	Amplifier	64-H-5	500 ohm Output
64-A-6	Antenna	64-H-6	Parallel Tuning
64-A-7	Antenna Current	64-H-7	Phone-CW
64-A-8	Antenna Tuning	64-H-9	Plate No. 1
64-A-9	Audio Gain	64-H-10	Plate No. 2
64-A-10	Auxiliary	64-H-11	Plt. Current
64-A-11	1.7 Mc Band	64-H-12	Plt. Voltage
64-A-12	3.5 Mc Band	64-H-15	Power
64-A-13	7. Mc Band	64-I-1	Power Amp Grid
64-A-14	14 Mc Band	64-I-2	P.A. Grid Tank
64-A-15	28 Mc Band	64-I-3	Power Amp Plt.
64-B-2	Battery Charge	64-I-4	P.A. Plt. Tank
64-B-3	Battery Discharge	64-I-6	Radio
64-B-4	Beam Antenna	64-I-7	R.F. Gain
64-B-5	BeamOsc.	64-I-8	Receive
64-B-6	Bias Voltage	64-I-9	Record
64-B-7	Buffer	64-I-10	Rectifier
64-B-12	1st. Buffer Plt.	64-I-11	Regeneration
64-B-13	1st. Buf. Pl. Tk.	64-I-12	Screen Current
64-D-2	Cathode Tun. Con.	64-I-13	Send
64-D-3	Change Over	64-I-14	Send-Receive
64-D-4	Coupling	64-I-15	Selector
64-D-5	Crystal	64-J-1	Series Tuning
64-D-7	Crystal Osc. Pl.	64-J-2	Speaker
64-D-8	D.C.	64-J-3	Speaker 1
64-D-9	D.C. Input	64-J-4	Speaker 2
64-D-10	D.C. Output	64-J-5	Speaker 3
64-D-11	D.C. Voltage	64-J-6	Speaker 4
64-D-12	Dynamotor	64-J-7	Speech Amp.
64-D-13	Doubler	64-J-10	Telegraph or CW
64-D-14	Down-Spot-Up	64-J-11	Telephone
64-D-15	Excitation	64-J-12	Tone
64-E-5	Filament Volt.	64-J-13	Transceiver
64-E-7	Frequency Mtr.	64-J-14	Transmitter
64-E-8	Gain Control	64-K-4	Volume
64-E-10	Grid Current	64-K-6	Line Current
64-E-11	Ground	64-K-7	Audio Input
64-E-12	Heater Voltage	64-K-8	Audio Output
64-E-13	Input	64-K-9	Impedance
64-F-2	500 ohm Input	64-K-10	Blank
64-F-3	Key	64-K-11	Phono 1
64-F-6	Master Switch	64-K-12	Phono 2
64-F-7	Microphone	64-K-13	Bass
64-F-8	Microphone-1	64-K-14	Treble
64-F-9	Microphone-2	64-L-1	Serial No.
64-F-10	Microphone-3	64-L-2	Model No.
64-F-11	Microphone-4	64-L-3	Phono 3
64-F-13	Mixer No. 1	64-L-7	Deviation
64-F-14	Mixer No. 2	64-L-8	Fine Frequency
64-G-1	% Modulation	64-L-9	Coarse Freq.
64-G-2	Cls. A Modulator	64-L-10	Gate
64-G-3	Cls. B Modulator	64-M-2	Standby
64-G-4	Modulator Grid	64-M-3	High Voltage
64-G-5	Modulator Plate	64-M-6	Phones
64-G-6	Monitor	64-M-7	Grid Tuning
64-G-9	Off-On	64-M-8	Emergency
64-G-10	Off	64-M-9	Screen Voltage

INSULATORS — ACCESSORIES



A B C D Johnson Thru-Panels. Series 135. Flat mounting surfaces with cushion washers eliminating breakage. Long leakage paths. *With jack. Shipping weight is 12 oz.

Statelite						
Stk. No.	Mfr. Type	Fig.	Top Ht.	Pan. Hole	Hard-ware	Net
11A153	40	B	1 1/4"	3/4"	10-32	.25
11A154	40J	A	1 1/4"	3/4"	74"	.32
11A155	42	B	7/8"	3/8"	10-32	.24
11A156	42J	A	7/8"	3/8"	74"	.31
11A157	44	B	5/8"	5/16"	6-32	.18

Porcelain						
Stk. No.	Mfr. Type	Fig.	Top Ht.	Pan. Hole	Hard-ware	Net
11A158	45	C	1-3/8"	1 1/16"	10-32	.32
11A159	45J	D	1-3/8"	1 1/16"	74"	.40
11A160	46	B	2 3/4"	1"	1/2-20	.82
11A161	46J	A	2 3/4"	1"	76"	1.04
11A162	47	B	4 1/4"	1 1/4"	1/2-20	1.22
11A163	47J	A	4 1/4"	1 1/4"	76"	1.43
11A164	48	C	2"	7/8"	10-32	.47
11A165	48J	D	2"	7/8"	74"	.59

E F G H Johnson Stand-Off Insulators. Series 135. Features heavy breakage resistant bases. Types 65, 66, 67 and 68 have drawn bases. *With jacks. Shipping weight is 1 lb.

Stk. No.	Mfr. Type	Statelite		Hard- ware	Net
		Fig.	Body Ht.		
11A149	20	A	1-9/16"	10-32	.15
11A150	20J	B	1-9/16"	74*	.20
11A151	22	A	1"	8-32	.13
11A152	22J	B	1"	74*	.16
11A148	24	A	5/8"	6-32	.10

Porcelain				
11A172	60	C	4 1/4"	1/2-20 .66
11A173	62	C	2 3/4"	1/2-20 .35

Metal Base Types					
11A174	65	C	1-3/8"	10-32	.21
11A176	65J	C	1-3/8"	74"	.29
11A177	66	D	2 3/4"	1/2-20	.49
11A179	66J	D	2 3/4"	76"	.70
11A180	67	D	4 1/4"	1/2-20	.70
11A182	67J	D	4 1/4"	76"	.92
11A183	68	C	2"	10-32	.33
11A185	68J	C	2"	74"	.41

J K L M Johnson Lead-In Bushings. Series 135. Great mechanical strength and long leakage paths. Many uses in transmitter and antenna installations. Shipping weight is 8 oz.

Statelite						
Stk. No.	Mfr. Type	Fig.	Top Ht.	Pan. Dia.	Hole	Net
11A166	50	A	1 1/4"	3/4"	3/4"	.24
11A167	51	A	1 1/4"	3/4"	7/8"	.39
11A168	52	A	1-1/8"	1 1/4"	1 1/4"	.58
11A171	55	C	1 1/4"	3/4"	3/4"	.23

Porcelain						
Stk. No.	Mfr. Type	Fig.	Top Ht.	Pan. Dia.	Hole	Net
11A169	53	B	1 1/4"	2 1/4"	1-7/8"	.26
11A170	54	D	4"	3 3/4"	2 1/4"	.61

Mounting Flanges						
Stk. No.	Mfr. Type	Fig.	Top Ht.	Pan. Dia.	Hole	Net
11A192	90					.25
11A193	91					.54

N Johnson Cone Insulators. Statelite for better, high frequency insulation. Threads are tapped directly into ceramic. Furnished complete with machine screws, brass and cushion washers. Shipping weight is 5 oz.

Stk. No.	Type	Thread	Ht.	Net
11A186	135-500	6-32	5/8"	.20
11A187	135-501	8-32	1"	.24
11A188	135-502	8-32	1 1/4"	.42
11A189	135-503	10-32	2"	.48
11A190	135-504	10-32	3"	.83

O Johnson Antenna Insulator. Average shipping weight is 1 lb.

Stk. No.	Type	Strength	Lg.	Net
11A202	136-104	400 lbs.	4"	.15
11A204	136-107	800 lbs.	7"	.73
11A205	136-112	800 lbs.	12"	.83

P Johnson Antenna Insulator. Average shipping weight is 6 lbs.

Stk. No.	Type	Strength	Lg.	Net
11A236	136-151	5000 lbs.	15 1/4"	7.55
11A237	136-152	5000 lbs.	19 1/4"	8.08
11A238	136-153	5000 lbs.	25 1/4"	12.98

Q Johnson Feeder Insulators.

Stk. No.	Type	Lg.	Wt.	Net
11A206	136-122	2"	3 oz.	.12
11A207	136-124	4"	3 oz.	.17
11A208	136-126	6"	3 oz.	.22

R Millen Antenna Insulators. Made of statelite for use where low losses are necessary. Shipping weight is 3 oz.

Stk. No.	Type	Size	Net
23A029	35151	1-1/2x1/2"	.36
23A030	35152	1-1/2x1"	.46

S Bud Lucite Feeder Spreaders. Furnished with locking screws to clamp 12 to 18 ga. wire in place. Av. sh. wt. 5 oz.

Stk. No.	Type	Wire Spacing	Net
22A028	1-1900	2"	.30
22A029	1-1901	4"	.35
22A030	1-1902	5"	.38
22A031	1-1903	6"	.41

T Bud Extension Shafts. Approximate shipping weight is 10 oz.

Stk. No.	Type	Description	Net
22A041	SE-1056	1/4x6" brass	.17
22A042	SE-796	1/4x12" brass	.32
22A043	SE-1979	1/4x12" bkite.	.65

U National Statelite Bushings. Shipping weight is 3 oz.

Stk. No.	Type	Hole	Net
49A179	XS-7	3/8"	.42
49A180	XS-8	1/2"	.55
49A176	XS-1	1"	.83 pr.
49A177	XS-2	1 1/4"	.93 pr.

V National Bushing. Type TPB. Threaded polystyrene bushing with removable .093 diameter molded in 1/4" dia. 32 thread. Shipping weight is 2 oz.

49A182, Net per doz.86

W Millen Thru-Bushing. Type 32150. Fits 1/4" hole in chassis. Sh. wt. 4 oz.

23A019, (Box of 5) Net.30

X Johnson Threaded Brass Rods. Intended for use with Johnson lead-in bushings 135-53 & 54. Rod threaded overall 1/4-20. Nickel-plating. With 4 washers and 4 nuts. Shipping weight is 10 oz.

Stk. No.	Type	Length	Net
11A213	115-240	8"	.39
11A214	115-241	10"	.49
11A215	115-242	12"	.68

Y Millen Flexible Coupling Type 39001. For angle drives up to 45°. Wt. 6 oz.

23A014, Net.48

Z Millen Flexible Coupling Type 39002. Conventional type. Shpg. wt. is 6 oz.

23A015, Net.48

AA Millen Flexible Coupling Type 39003. Solid brass N.P. coupling. Wt. 6 oz.

23A016, Net.24

BB Millen Flexible Coupling Type 39005. A universal joint, non-insulated coupling. Shipping weight is 6 oz.

23A017, Net.48

CC Millen Flexible Coupling Type 39006. Slide action coupling, statelite insulation. Shipping weight is 6 oz.

23A018, Net.48

DD EE FF GG HH Johnson Couplings. Types -252 and -262 are rigid types. Types -264 has bakelite insulation, others statelite. Type -258 is non-insulated. Sh. wt. 4 oz.

Stk. No.	Type	Fig.	Shaft	Net
11A222	104-250	DD	1/4"	.68
11A223	104-250	DD	3/8"	.88
11A224	104-251	DD	3/8-3/8"	.98
11A225	104-251A	DD	3/8"	.98
11A226	104-251B	DD	3/8"	.98
11A227	104-252	EE	3/8"	.64
11A228	104-258	FF	3/8"	.69
11A233	104-262	GG	3/8"	.23
11A234	104-264	HH	3/8"	.51

I ICA Shaft Couplings and Extension Rods. Length 1/4" coupler, 1-1/8" shaft. Approx. shpg. weight is 4 oz.

Stk. No.	Type	Hole	O.D.	Net
1A117	*2105	1/4"	1/2"	.15
1A118	*2106	3/8"	9/16"	.15
1A119	*2107	3/8-3/8"	9/16"	.15
1A120	*2111	1/4-1/4"	1/2"	.18
1A121	*2112	3/8-3/8"	9/16"	.18
1A122	*2113	3/8-3/8"	1/2"	.18

J Female Couplings & Reducers

Stk. No.	Type	Hole	O.D.	Net
1A124	*2116	1/4"	1/2"	.15
1A125	*2109	3/8-3/8"	8/16"	.15
1A126	*2110	3/8-3/8"	1/2"	.18

K Extra Long Brass Extension Couplings

Stk. No.	Type	Length	I.D.	O.D.	Net
1A123	2123	1 1/4"	1/4"	1/2"	.18

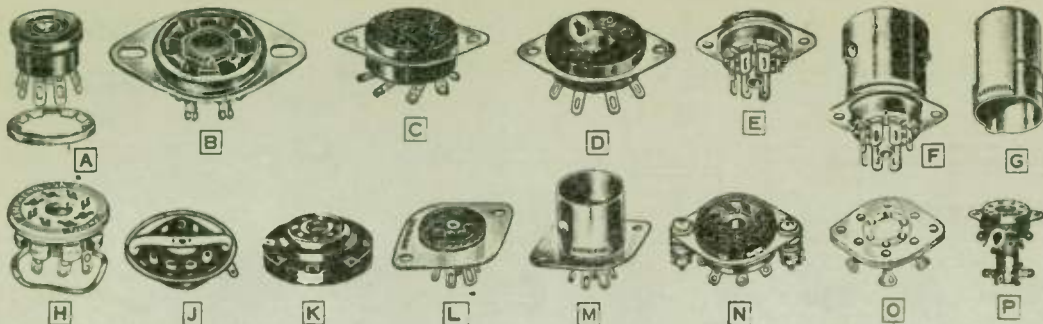
KK Johnson Panel Bearings. For 1/4" shaft & up to 3/8" panels. Also with 3" & 6" nickel-plated brass shafts.

Stk. No.	Type	Length	Net
11-218	115-255	Bearing only	.17
11-219	115-256	3"	.30
11-220	115-2562	6"	.40

L Johnson Flexible Shafts. With 1/4" hubs. Permit out of line or up to 90 degree angular control. Shpg. wt. is 3 oz.

Stk. No.	Type	Length	Net
11A216	115-253	3" flex.	.35
11A217	115-254	6" flex.	.49

AMPHENOL—NATIONAL SOCKETS



A Amphenol Miniature Retainer Ring Type Sockets. Mount in 5/8" round or "D" shaped hole with No. 2-9 retainer rings. Black bakelite or mica-filled. Sh. wt. 2 oz.

Black Bakelite			
Cat. No.	Type	Prongs	Net
1A211	78-S3S	3	.10
1A212	78-S4S	4	.10
1A213	78-S5S	5	.13
1A214	78-S6S	6	.13
1A215	78-7P	7	.13
Mica-Filled Bakelite			
1A216	78-7PT	7	.17

B Amphenol Replacement Sockets. Regular S sockets, assembled with No. 4 retainer ring to steel mtg. plate with slotted holes to fit mtg. centers from 1/4" to 1-7/8". Shipping weight is 2 oz.

Black Bakelite			
Cat. No.	Type	Prongs	Net
1A192	78-RS4	4	.08
1A193	78-RS5	5	.08
1A194	78-RS6	6	.08
1A195	78-RS7C	7 comb.	.11
1A196	78-RS7L	7 large	.08
1A197	78-RS7S	7 small	.08
1A198	78-RS8	8 octal	.11
1A199	78-RS8L	8 loktal	.13
1A200	78-RS9	9 oct. style	.13
1A201	78-RS11	11 oct. style	.18
Steatite			
1A202	49-RSS4	4	.29
1A203	49-RSS5	5	.29
1A204	49-RSS6	6	.29
1A205	49-RSS7L	7 large	.36
1A206	49-RSS7S	7 small	.29
1A207	49-RSS8	8 octal	.29

C Amphenol Molded-in Plate Sockets. Sturdy steel mtg. plate molded directly into body. Contacts grip tube prongs firmly and retain their resiliency indefinitely. Mount in 1-5/32" round hole. Two 5/32" screw holes on 1 1/2" centers. Black bakelite. *Mounts in 1-9/32" D round hole. Avs. sh. wt. is 2 oz.

Cat. No.	Type	Prongs	Net
1A181	77-MIP-4	4	.07
1A182	77-MIP-5	5	.07
1A183	77-MIP-6	6	.07
1A184	77-MIP-7L	7 large	.08
1A185	77-MIP-7S	7 small	.07
1A186	77-MIP-8	Octal	.08
1A187	77-MIP-9	9	.11
1A188	77-MIP-11	11	.14
1A189	77-MIP-12	12	.18

D Amphenol Compact MIP Series. Same as MIP series above but smaller in diameter. Mount in 1-1/8" round hole. Two 5/32" dia. mtg. holes on 1-5/16" centers. Black bakelite dielectric. Sh. wt. 2 oz.

Cat. No.	Type	Prongs	Net
1A190	88-8	8 octal	.08
1A191	88-8X	8 loktal	.13

E Amphenol Bakelite and Steatite Sockets. For TV, and FM radios. 147 series mount in 5/8" holes; mtg. ctrs; 7/8"; screw holes; 1/8". 59 series mount in 1/4" hole; mtg. ctrs: 1-1/8"; rivet holes: .095". Wt. 2 oz. *Steatite. **Black bakelite. +Mica-filled bakelite.

Bottom Mounting			
Cat. No.	Type	Contacts	Net
1A217	147-500**	7	.14
1A218	147-501*	7	.30
1A219	59-409**	9	.23
1A220	59-410+	9	.24

Top Mounting			
1A221	147-905**	7	.23
1A222	147-913+	7	.24
1A223	147-925*	7	.37
1A224	59-406**	9	.33
1A225	59-407+	9	.34

G Amphenol Shield and Spring Assemblies. Used with socket types 59-367, 147-095, 147-913, 147-925, 147-955 and 147-963. Shpg. wt. 2 oz.

For 7-Contact Bases			
Cat. No.	Type	Height	Net
1A233	5-401	1-3/8"	.08
1A234	5-402	1 1/4"	.08

For 9-Contact Bases			
Cat. No.	Type	Height	Net
1A235	5-405	1 1/4"	.12
1A236	5-408	1-15/16"	.14
1A237	5-409	2-3/8"	.14

Used with socket types 59-369, 59-406 and 59-407. Sh. wt. is 2 oz.

H Amphenol Magnall 11-Contact Socket. Type 49-SS11L. Has 1-1/16" pin circle for cathode ray and TV magnall base tubes. Mounts in 1-5/8" hole. Steatite. Shpg. wt. 4 oz.

1A241, Net. 71

J Eby Socket Type 021-HV. Hi-voltage octal socket for use with 1B3 tube. With steel yoke that holds corona ring. Shpg. wt. 3 oz.

1A179, Net. 28

K Pomona Breadboard Socket Type XS-7. 7 pin miniature socket. Simplified above chassis mounting and wiring. Base connections numbered for ease of identification. Silver plated phosphor bronze contacts. Shpg. wt. 3 oz.

84A025, Net. 48

Type XS-9. Same as above but 9-pin noval socket. Shpg. wt. 3 oz.

84A026, Net. 48

L Amphenol Zip-In-Ethylon-A Sockets. Molded of Ethylon-A with high Q factor. Mtg. plate has .136" dia. holes on 1-15/16" centers. Round chassis holes are 27/32" for 7 pin & 15/16" for 9 pin. Shipping weight is 2 oz.

Without Tube Shield Base			
Cat. No.	Type	Pins	Net
1A229	59-357	7	.13
1A231	59-359	9	.30

With Tube Shield Base			
1A230	59-367	7	.16
1A232	59-369	9	.36

N Amphenol Floating Octal Sockets-Type 77-MIP-8FK. Live rubber grommets fit in mounting holes to cushion this socket for vibration free operation. Mounts in 1-3/16" round hole above or below chassis. Two 1/4" screw holes on 1 1/2" centers. Complete with grommets, mtg. screws, nuts and washers. Shipping weight is 3 oz.

1A208, Net. 23

Type 11-3K. Kit for making floating connections using Amphenol MIP sockets. Complete with grommets, mtg. screws, nuts & washers. 3 oz.

1A209, Net. 14

O National Sockets. Excellent contacts with high current capacity. Low loss steatite insulation. Locating groove for easy tube insertion. 1-27/32" mtg. ctrs. Sh. wt. 5 oz.

49A197, (XS-4, 4 prong) Net. . . 41

49A198, (XS-5, 5 prong) Net. . . 45

P Vector Socket-Turrets. Circuit components may be bonded directly to socket. Turrets are 1/4" dia. Octal units mount in 1" hole. Miniatures mount in 5/8" hole. Shipping weight is 3 oz.

2 1/2" Turrets. For octal sockets. 9 terminals. Rings spaced 1 1/4".

Cat. No.	Type	Socket	Net
10A175	10-0-9T	Octal	.54

2" Turrets. Octal sockets, 9 terminals, rings spaced 1". Miniatures spaced 1-1/8".

10A177	8-0-9T	Octal	.50
10A178	8-M-9T	7 pin min.	.59
10A179	8-N-9T	9 pin noval	.62

1 1/2" Turrets. 6 terminals in 1 ring only at end of turret.

10A181	6-0-6T	Octal	.46
10A182	6-M-9T	7 pin min.	.53
10A183	6-N-6T	9 pin noval	.56

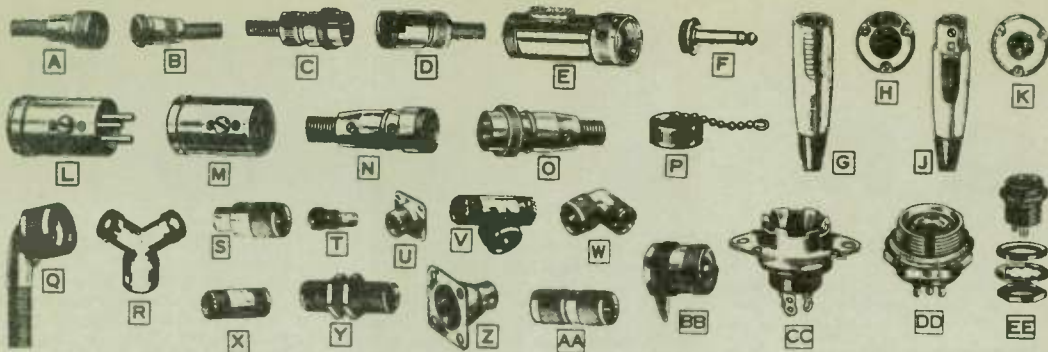
Shield Bases for above. Fasten on socket mtg. ctrs. above chassis.

10A185, For 7 pin sockets Net .08

10A186, For 9 pin sockets Net .09

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CONNECTORS & ACCESSORIES



[A] Amphenol Single Contact Microphono Connectors. Shielded cable type. Unbreakable machined brass shell chrome-plated. With coupling ring for tight connections. Spring cord protectors accommodate cables to 1/4" dia. Sh. wt. is 3 oz. Cat. No. Type Fig. Descript. Net
1A342 75-MC1F A Female .27
1A343 75-MC1M B Male .21

[C] Amphenol 3 & 4 Contact Microphono Connectors. Molded bakelite elements encased in unbreakable chrome-plated polarized brass shells. By removing cap and spring cord protector, connector can be screwed into mike having 5/8"-27 thread. Screw type coupling ring prevents accidental disconnections. 3 contact connectors take cables to 1/4" dia. 4 con. to 3/8" dia. Wt. 3 oz.

Male				
Cat. No.	Type	Contacts	Net	
1A358	91MC3M	3	.65	
1A359	91MC3M1	3	.65	
1A362	91MC4M	4	.70	
1A363	91MC4M1	4	.70	
Female				
1A360	91MC3F	3	.65	
1A361	91MC3F1	3	.65	
1A364	91MC4F	4	.70	
1A365	91MC4F1	4	.70	

[E] Amphenol Mike Switch. Threaded on one end, coupling ring on other end. For 75 series connectors. May be connected directly to any mike with 75-PC1M or similar receptacle. Push-to-talk or slide button for permanent connection. Shipping weight is 2 oz.
1A348, (75-MC1S) Net82

[F] Amphenol Phone Plug Adapter. Screws into the coupling ring of 75-MC1F, & 75-MC1F-A plugs. Permits cable to be plugged into any standard phone jack. Shipping weight is 3 oz.
1A347, (Type 75-MC1P) Net.29

[G] [H] [J] [K] "Quik" Mike Connectors. Insertion of the plug into the receptacle is achieved by a simple pressure—just click them in. Easily disconnected. Shipping weight is 5 oz.

3 Contact				
Cat. No.	Type	Fig. Descript.	Net	
27A213	91-853	G Male plug	.91	
27A214	91-854	H Female plug	1.12	
27A215	91-855	J Male rcpt.	.68	
27A216	91-856	K Female rcpt	1.35	
4 Contact				
27A217	91-857	G Male plug	.91	
27A218	91-858	H Female plug	1.24	
27A219	91-859	J Male rcpt	1.24	
27A220	91-860	K Female rcpt.	1.50	

[L] [M] Amphenol Miniature Cable Connectors—Series 91. For shielded or unshielded cables having up to 6 conductors. Black bakelite elements are housed in cadmium plated brass shells and are held in place by side set screws. Polarized contact spacing makes incorrect insertions impossible. Accommodates cables up to 1/4" dia. Shipping weight is 3 oz.

Short Shell—13/16" Long Male				
Cat. No.	Type	Descript.	Net	
1A326	MPM3S	3 contact	.22	
1A327	MPM4S	4 contact	.24	

Female				
1A328	MPF3S	3 contact	.22	
1A329	MP4S	4 contact	.24	

Long Shell—1-3/16" Long Male				
1A330	MPM3L	3 contact	.22	
1A331	MPM4L	4 contact	.24	
1A332	MPM5L	5 contact	.27	
1A333	MPM6L	6 contact	.27	

Note: Use long shell type with the shielded chassis units. Use either long or short shells with unshielded types such as 78-S3S and 86-CP-3S.

[N] [O] Amphenol 1 & 2 Contact Cable Type Connectors. For small coaxial, or mike cables, speakers, etc. Standard sleeve type contacts and male prongs for positive contact. Unbreakable brass shell, chrome finish. Molded element of black bakelite. Screw type coupling ring for tight connections and spring cord protector for cables up to 5/16". Shpg. weight is 3 oz.

Cat. No.	Type	Fig. Description	Net	
1A350	80F	N 1 con. female	.41	
1A351	80M	O 1 pg. male	.41	
1A352	80MC2F	N 2 con. female	.51	
1A353	80MC2M	O 2 pg. male	.52	

[P] Amphenol Cap and Chain. Seals open chassis units against dust. Used with any threaded 1 or 2 conductor chassis unit. Wt. is 2 oz.
1A370, 75-CCC-1, for PC1M, etc. .32
1A371, 91-CCC-2, for 91 series. .32

[Q] Amphenol Angle Connector. For cable connection at right angles to chassis. Used on amplifier, transmitters, etc. with PC1M, SPPC1M, or CL-PC1M. Shell portion is polished chrome. With spring cord protector for cables, to 1/4". Sh. wt. is 3 oz.
1A344, (75-MC1F-A) Female . . .59

[R] Mike Connector. Consists of 2 males and 1 female. Ideal for use in connecting 2 mikes in parallel to 1 amplifier. Sh. wt. is 3 oz.
1A349, Net1.03

[S] Amphenol 83-1SP. Plug for RG8U, 11U. Shpg. weight is 3 oz.
1A373, Net76

[T] Amphenol 83-168. Adapter for RG59U. Shpg. weight is 3 oz.
1A374, Net18

[U] Amphenol 83-1R. Chassis receptacle. Shpg. weight is 3 oz.
1A375, Net71

[V] Amphenol 83-1T. T connector. 3 oz.
1A377, Net1.88

[W] Amphenol 83-1AP. Angle plug adapter. Shpg. weight is 3 oz.
1A376, Net1.65

[X] Amphenol 83-1J. Junction. 3 oz.
1A378, Net1.00

[Y] Amphenol 83-1F. Feed-through, pressurized. Sh. wt. is 3 oz.
1A379, Net1.76

[Z] Amphenol 83-1H. Hood. Wt. 3 oz.
1A380, Net30

[AA] Dow-Key Type DKF2. Double female connector for external chassis mounting. Sh. wt. is 3 oz.
1B372, Net1.81

[BB] Amphenol Chassis Unit. Use in holes .385" to ground chassis and 1/2" holes for 2 independent circuits. Has extruded fibre washer, flat fibre washer, flat solder lug washer and locking nut. Use MC1F or MC1F-A cable connector. Sh. wt. is 3 oz.
1A345, (75-PC1M) 1 contact . . .18
1A346, (75-CL-PC1M) Cldsd. Clr. . .27

[CC] Amphenol Shielded Chassis Units. For connecting shielded or unshielded cables having 2 to 6 cond. (for 2 wire cable use 3 contact unit & leave 1 contact unwired) Wt. 3 oz. Female type.

Cat. No.	Type	Description	Net	
1A338	78-PCG3	3 contact	.22	
1A339	78-PCG4	4 contact	.22	
1A340	78-PCG5	5 contact	.25	
1A341	78-PCG6	6 contact	.25	

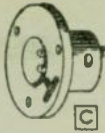
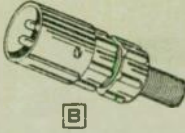
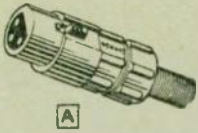
[DD] Amphenol Chassis Connectors. For 13/16" hole in any panel or chassis up to 1/2" thick. With mtg. ring lock wash. & hex. lock nut. 3 oz.

Cat. No.	Type	Description	Net	
1A366	91-PC3F	3 contact fem.	.32	
1A367	91-PC3M	4 pg. male	.32	
1A368	91-PC4F	4 con. female	.35	
1A357	91-PC4M	4 pg. male	.35	

[EE] Amphenol Shielded Chassis Units—Lock Nut Mounting. With lock washer & hex. locking nut. Mounts in 21/32" hole. Shpg. wt. is 3 oz.

Cat. No.	Type	Description	Net	
1A354	80-C	1 contact female	.26	
1A355	80-C1	1 prong male	.26	
1A356	80-PC2F	2 contact female	.29	
1A357	80-PC2M	2 prong male	.29	

CONNECTORS — SWITCHES



Cannon Plugs and Receptacles

A Straight Cord Plug-XL-11. With latch lock device and has raised polarized boss. No. 1 contact engages before No's. 2 and 3, and may be used for grounding purposes. 9/32 cable accommodation. Shpg. wt. 4 oz.

Socket Insert				
Cat. No.	Type	Contact	Amp	Net
27A090	XL-3-11	3	15	.91
27A091	XL-4-11	4	10	1.27

B Straight Cord Plug-XL-12. Has alignment rib in addition to polarization 9/32. Shpg. wt. 4 oz.

Pin Insert				
Cat. No.	Type	Contact	Amp	Net
27A092	XL-3-12	3	15	.88
27A093	XL-4-12	4	10	1.18

C Receptacle-XL-14. Wall mounting receptacle has 3 mounting holes having .136 dia. Zinc, bright nickel finish. Shpg. wt. 4 oz.

Pin Insert				
Cat. No.	Type	Contact	Amp	Net
27A096	XL-3-14	3	15	.71
27A097	XL-4-14	4	10	1.00

D Receptacle-XL-13. Similar to XL-14 but has socket insert assembly and latch locking device. 3 mounting holes. Shpg. wt.

Cat. No.	Type	Contact	Amp	Net
27A094	XL-3-13	3	15	.91
27A095	XL-4-13	4	10	1.27

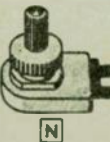
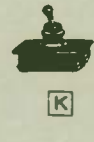
E Receptacle-XL-3-35-2G. 3 XL-3-13N receptacles mounted in chrome plated wall plate. Receives XL-3-12 plug. Sh. wt. 1 lb. 83A017, Net. 5.61

F Receptacle-XL-14N. Designed to be mounted in a panel and has lock nut accommodating up to 5/16" panel. 2 fittings may be mounted on a single gang plate. The approximate shipping weight is 4 oz.

Cat. No.	Type	Contact	Amp	Net
27A100	XL-3-14N	3	15	.85
27A101	XL-4-14N	4	10	1.15

G Receptacle-XL-13N. Similar to XL-14N except has socket insert assembly, with latch-lock device, and polarizing boss on insert barrel. Shipping weight is approximately 4 oz.

Cat. No.	Type	Contact	Amp	Net
27A098	XL-3-13N	3	15	.91
27A099	XL-4-13N	4	10	1.27



ICA Switches and Accessories

H Extra Heavy Duty Switch. D.P. D.T. switch with neutral center. Rated at 10 amps, 125 volts. Size of switch case: 2" long, 1" high, 1 1/4" wide. Mounting sleeve diameter is 5/8". Shipping weight is 3 ounces. 1A099, (Type 1283) Net. . . . 4.03

J Hi-Power Switch. Push button type. Designed to break primary circuit when rack door is open. D.P.D.T. Capacity 12 amps, 125 volts. Size: 1 1/4" long, 3/4" wide, 3/4" high, 7/16 inch shank. Shipping weight is 3 ounces. 1A103, (Type 1280) Net. . . . 1.88

K Power Switch. Toggle type. Characteristics and dimensions same as type 1280 described above. Shipping weight is 3 ounces. 1A100, (Type 1281) Net . . . 1.06

L Push Button Switch. Single pole 2 circuit momentary switch. One circuit is ON, other normally OFF. One amp, 125 volts. Shank 5/8" long. Shipping weight is 3 oz. 1A104, (Type 1282) Net. . . . 1.10

M Rotary Switches. Rated at 3 amps, 125 volts. Overall length of shafts is 1 1/2". Shpg. wt. 4 oz.

Cat. No.	Type	Shank	Descript.	Net
1A105	1228	3/8"	SPST	.76
1A106	1229	1"	SPST	.79
1A107	1286	3/8"	SPDT	.88
1A108	1287	1"	SPDT	.88
1A109	1288	3/8"	DPDT	1.18
1A110	1289	1"	DPDT	1.47

N Rotary Canopy Switch. SPST switch with 3/4" shank. Bakelite handle. Two 6" leads. Rated 3 amps. 125 volts. Sh. wt. 4 oz. 1A142, Net.21

O Toggle Switches. Finished in *Nickel or +Antique Bronze. Capacity 1 amp, 250 volts. 3 amps. 125 volts. Shpg. wt. is 3 oz.

Cat. No.	Type	Descript.	Shank	Net
1A090	*1230	SPST	3/8"	.48
1A091	+1232	SPST	3/8"	.48
1A092	+1233	SPST	3/4"	.65
1A093	+1235	SPST	3/4"	.65
1A094	+1236	SPDT	3/8"	.65
1A095	+1237	SPDT	3/4"	.76
1A096	+1238	DPST	3/8"	.91
1A097	+1365	DPDT	3/8"	1.03
1A098	+1366	DPDT	3/4"	1.18

P Bat-Handle Toggle Switch. Identical to the toggle switches listed on this page, except the handle is longer and shaped like a baseball bat. Less ON & OFF plate. Nickel-plated only. 7/16" shank. Sh. wt. is 5 oz.

Cat. No.	Type	Descript.	Net
1A086	1296	SPST	.48
1A087	1297	SPDT	.65
1A088	1298	DPST	.91
1A089	1299	DPDT	1.03

Q Slider Switches. Small and compact. The switch dimensions are 1 1/2x1/2x1/4". SPST Switch includes chrome mounting plate. Shipping weight is 4 oz.

Cat. No.	Type	Descript.	Net
1A111	1255	SPST	.15
1A112	1259	SPDT	.15
1A113	1260	DPDT	.24
1A114	1264	DPST	.24

R On-Off Plate. For toggle switch. Sh. wt. 2 oz. Type 1300. Nickel plated.

1A101, Net.03
Type 1300R. Antique Bronze.
1A102, Net.03

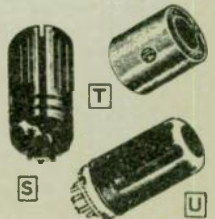
ICA Tube Shields

S Tube Shields. Includes ground clamp as illustrated. Type 1727B is 2 1/2" long. for GT, GT/G & Loktal tubes. 1729B is for GT & GT/G tubes. 2 1/2" long. 3 oz. 10A123, Type 1727B, Net.10
10A124, Type 1729B, Net.10

T "807" Tube Shields. Prevents oscillation. Can also be used on RK-20, RK-39 and 804 tubes. Shipping weight is 3 oz. 10A117, Type 1545, Net.24

U GT & GT/G Tube Shields. Latest type seamless drawn shell type. Length 2 1/4". *For GT and GT/G tubes with large metal base. **For GT tubes with small metal base. +For Loktal tubes. Shipping weight is 3 oz.

Cat. No.	Type	Top	Net
10A119	*1744	Open	.10
10A120	*1745	Closed	.10
10A121	**1746	Open	.10
10A122	+*1747	Closed	.10



LEO GIVES TERMS TO SUIT YOUR BUDGET

CENTRALAB SWITCHES



A



B



C



D



E



F



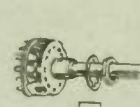
G



H



J



K

A Rotary Selector Switches. Laminated phenolic insulation. 6W. rating. Contacts: spring brass silver plated, self cleaning. Shorting or non-shorting. Shaft: 1-7/8" long from end of bushing. Index: positive, 30°. Adjustable stop. With bar knob, mtg. nut & lock washer. 8 oz.

Shorting Contacts

Cat. No.	Type	Pole	Pos.	Sec.	Net
4A270	1400	1	2 to 6	1	.88
4A271	1402	1	2 to 11	1	1.03
4A272	1404	2	2 to 5	1	1.03
4A273	1406	3	2 to 3	1	1.18
4A274	1408	4	2	1	1.18
4A275	1410	2	2 to 6	2	1.47
4A276	1412	2	2 to 11	2	1.47
4A277	1414	4	2 to 5	2	1.47
4A278	1416	6	2 to 3	2	1.47
4A279	1418	8	2	2	1.62
4A280	1420	3	2 to 6	3	1.76
4A281	1422	3	2 to 11	3	1.91
4A282	1424	6	2 to 5	3	2.06
4A283	1426	4	2 to 6	4	2.20
4A284	1428	4	2 to 11	4	2.50
4A285	1430	8	2 to 5	4	2.65

Non-Shorting Contacts

Cat. No.	Type	Pole	Pos.	Sec.	Net
4A290	1401	1	2 to 6	1	.88
4A291	1403	1	2 to 11	1	1.03
4A292	1405	2	2 to 5	1	1.03
4A293	1407	3	2 to 3	1	1.18
4A294	1409	4	2	1	1.18
4A295	1411	2	2 to 6	2	1.47
4A296	1413	2	2 to 11	2	1.47
4A297	1415	4	2 to 5	2	1.47
4A298	1417	6	2 to 3	2	1.47
4A299	1419	8	2	2	1.62
4A300	1421	3	2 to 6	3	1.76
4A301	1423	3	2 to 11	3	1.91
4A302	1425	6	2 to 5	3	2.06
4A303	1427	4	2 to 6	4	2.20
4A304	1429	4	2 to 11	4	2.50
4A305	1431	8	2 to 5	4	2.65

Stearite Insulation. For use in high freq. circuits. High dielectric and mech. strength. 6 watt rating. 8 oz.

Shorting Contacts

Cat. No.	Type	Pole	Pos.	Sec.	Net
4A313	2500	1	2 to 6	1	1.32
4A314	2502	1	2 to 11	1	1.32
4A315	2504	2	2 to 5	1	1.32
4A316	2506	3	2 to 3	1	1.32
4A317	2510	2	2 to 6	2	2.06
4A318	2512	2	2 to 11	2	2.06
4A319	2514	4	2 to 5	2	2.06
4A320	2516	6	2 to 3	2	2.06
4A321	2520	3	2 to 6	3	2.94
4A322	2522	3	2 to 11	3	2.94
4A323	2524	6	2 to 5	3	2.94

Non-Shorting Contacts

Cat. No.	Type	Pole	Pos.	Sec.	Net
4A327	2501	1	2 to 6	1	1.32
4A328	2503	1	2 to 11	1	1.32
4A329	2505	2	2 to 5	1	1.32
4A330	2507	3	2 to 3	1	1.32
4A331	2511	2	2 to 6	2	2.06
4A332	2513	2	2 to 11	2	2.06
4A333	2515	4	2 to 5	2	2.06
4A334	2517	6	2 to 3	2	2.06
4A335	2521	3	2 to 6	3	2.94
4A336	2523	3	2 to 11	3	2.94
4A337	2525	6	2 to 5	3	2.94

B Progressive Shorting Switch. 1 pole, 2-10 position switch (1-9 progressively shorting positions). One section, ceramic wafer. 8 oz. 4A339, (Type PA-2042) Net. 1.47

Type PIS Wafer. Wafer only. Same as used on PA-2042 switch listed above. For those desiring to make up their own custom switches. Sh. wt. 2 oz.

4A340, Net80

C 23 Position Selector Switch.

For test instrument and laboratory use. One pole, 23 position switching. Brass bushing, cadmium plated, 3/8"x32 thd. 3/8" long. Shaft: 1-7/8" long from end of bushing. 6 watt rating. Laminated phenolic insulation. Contacts: Silver plated spring brass, shorting only. Index: 15 degree ball type. Supplied with bar knob, mtg. nut and lockwasher. Sh. wt. 1 lb.

Cat. No.	Type	Item	Net
4A354	1443	23 pos. switch	1.91
4A355	P-173	1-23 dial plate	.15

D Lever Action Switches.

6 watt rating. Silver plated spring brass contacts. Shorting or non-shorting. Long life coil spring and cam. Positive or spring return. Cadmium plated steel finish. Supplied with push on knob, and mtg. hardware. Shipping weight 4 oz.

Shorting Type

Cat. No.	Type	Pole	Pos.	Index
4A361	1452	2	3	Positive
4A362	1453	2	3	Spq. Return
4A363	1454	4	2	Spq. Return
4A364	1459	4	2	Positive
4A365	1466	2	3	Positive & Spq. Return

Net each73

Non-Shorting Type

Cat. No.	Type	Pole	Pos.	Index
4A368	1454	2	3	Positive
4A369	1455	2	3	Spq. Return
4A370	1457	4	2	Spq. Return
4A371	1458	4	2	Positive
4A372	1467	2	3	Positive & Spq. Return

Net Each73

E Mounting Plates. Special die cut plates .035" steel finished in black crackle greatly facilitate mounting of lever switches. Spacing between switches, 1/4" in multiple mounting. Shpg. wt. is approximately 4 oz. Vertical mounting holes.

Cat. No.	Type	Swchs.	Size	Net
4A375	P1755	1	1/2x2-5/8"	.21
4A376	P1756	2	1 1/4x1 1/4"	.24
4A377	P1757	3	2 1/4x2 1/4"	.29
4A378	P1758	4	3x2 1/4"	.35
4A379	P1759	5	3 1/4x3"	.44

F Transmitter Switches. For low and medium power transmitters. Insulation is grade L-5 Steatite. Index: Positive, 90 degrees. Adjustable stop. Sections: One pole per section, 1/2" spacing between sections. Shpg. weight is 1 lb.

Cat. No.	Type	Pole	Pos.	Sec.	Net
4A346	2542	1	2 to 4	1	1.32
4A347	2543	2	2 to 4	2	2.06
4A348	2544	3	2 to 4	3	2.79
4A349	2545	4	2 to 4	4	3.53
4A350	2546	5	2 to 4	5	4.26

G Universal Flat Switches.

They may be used for any application from SPDT to 4 PDT. Rating: 6 watts. Contacts: Heavily plated spring brass, non-shorting. Insulation: High grade laminated phenolic. Indexing: Long life coil spring and cam. Bushing: Brass, cadmium plated. Shaft: 1-7/8" long from end of bushing. Supplied with Bar knob, mounting nut and lockwasher. Shipping weight 8 oz.

Cat. No.	Type	Index	Net
4A358	1450	Positive	.59
4A359	1451	Spring return	1.03

H Tone Switches.

Rating: 6 watts. Contacts: Spring brass, silver plated. Insulation: High grade Laminated phenolic. Bushing: Brass, cadmium plated, 3/8"x32 thd. 3/8" long. Shaft: 1-7/8" long from end of bushing, except 1465 which is 2 1/2" long from end of 1/4" bushing. Sh. wt. is 5 oz.

Cat. No.	Type	Unit	Net
4A390	1460	SPST	.44
4A391	1463	SPDT (Sp. Rt.)	.44
4A394	1461	SP 3 Pos.	.59
4A392	1462	DPDT	.59
4A393	1464	DPDT (Sp. Rt.)	.59
4A396	1465	SP 4 pos. line SW	1.03
4A395	1473	DP 3 pos.	.93
4A397	1483	Aux. Speaker SW	.53

J P300 Speaker Switch.

For use with car speakers. Allows use of either or both. Shpg. wt. 6 oz.

4A400, Net88

K Erie Single Section Rotary Switches.

Smallest switches available for multi-circuit switching. Ideal for wave-band, meter & antenna switching applications, etc. Wafer size: 1-3/32x1-5/16". 8 oz.

Cat. No.	Type	Circuits	Pos.	Net
4B380	3612-01	1	12	.68
4B381	3612-03	2	6	.68
4B382	3612-05	1	5	.68
4B383	3612-07	3	4	.71
4A384	3612-09	2	3	.68

Non-Shorting Type

Cat. No.	Type	Circuits	Pos.	Net
4A385	3612-02	1	12	.68
4B386	3612-04	2	6	.68
4B387	3612-06	1	5	.68
4A388	3612-08	3	4	.71
4A389	3612-10	2	3	.68

CONNECTORS - TERMINALS



A B C D Cinch-Jones Type 300.
Rated at 45 volts, 5
amps. Knife switch type contacts.
Shipping weight is 4 oz.

A Plugs With Cable Clamps.

Cat. No.	Type	Contacts	Net
27A001	P-302-CCT	2	.39
27A002	P-303-CCT	3	.42
27A003	P-304-CCT	4	.46
27A004	P-306-CCT	6	.51
27A005	P-308-CCT	8	.56
27A006	P-310-CCT	10	.63
27A007	P-312-CCT	12	.69

B Sockets With Cable Clamps.

Cat. No.	Type	Contacts	Net
27A011	S-302-CCT	2	.40
27A012	S-303-CCT	3	.43
27A013	S-304-CCT	4	.46
27A014	S-306-CCT	6	.54
27A015	S-308-CCT	8	.62
27A016	S-310-CCT	10	.70
27A017	S-312-CCT	12	.78

C Chassis Plugs.

Cat. No.	Type	Contacts	Net
27A021	P-302-AB	2	.17
27A022	P-303-AB	3	.22
27A023	P-304-AB	4	.24
27A024	P-306-AB	6	.29
27A025	P-308-AB	8	.34
27A026	P-310-AB	10	.39
27A027	P-312-AB	12	.43

D Chassis Sockets.

Cat. No.	Type	Contacts	Net
27A031	S-302-AB	2	.19
27A032	S-303-AB	3	.23
27A033	S-304-AB	4	.26
27A034	S-306-AB	6	.31
27A035	S-308-AB	8	.39
27A036	S-310-AB	10	.46
27A037	S-312-AB	12	.54

E F G H Cinch-Jones Type 400.
For circuits not ex-
ceeding 110 V. at 10 amps. 6 oz.

E Plugs With Cable Clamps

Cat. No.	Type	Contacts	Net
27A041	P-402-CCT	2	.67
27A042	P-404-CCT	4	.80
27A043	P-406-CCT	6	.95
27A044	P-408-CCT	8	1.08
27A045	P-410-CCT	10	1.22
27A046	P-412-CCT	12	1.36

F Sockets With Cable Clamps.

Cat. No.	Type	Contacts	Net
27A051	S-402-CCT	2	.72
27A052	S-404-CCT	4	.90
27A053	S-406-CCT	6	1.09
27A054	S-408-CCT	8	1.28
27A055	S-410-CCT	10	1.47
27A056	S-412-CCT	12	1.66

G Plugs With Angle Brackets.

Cat. No.	Type	Contacts	Net
27A061	P-402-AB	2	.42
27A062	P-404-AB	4	.51
27A063	P-406-AB	6	.62
27A064	P-408-AB	8	.72
27A065	P-410-AB	10	.80
27A066	P-412-AB	12	.89

H Sockets.

Cat. No.	Type	Contacts	Net
27A071	S-402-AB	2	.48
27A072	S-404-AB	4	.62
27A073	S-406-AB	6	.75
27A074	S-408-AB	8	.89
27A075	S-410-AB	10	1.04
27A076	S-412-AB	12	1.12

J Cinch-Jones Barrier Type Terminal Strips. Increased insulation is provided by having Barriers placed between each Terminal. Barriers follow around the edge of the strips and terminate at the base. Molded bakelite base. 'Average sh. wt. 3 oz.

Type 140 Terminal strips. 5-40 x 3/16 Binder Head Screws. Metal to metal spacing over bakelite, 1/4".

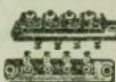
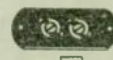
Cat. No.	Type	Term.	Net
27A171	1-140	1	.09
27A172	2-140	2	.14
27A173	3-140	3	.20
27A174	4-140	4	.25
27A175	5-140	5	.30
27A176	6-140	6	.34
27A177	7-140	7	.40
27A178	8-140	8	.45
27A179	9-140	9	.51
27A180	10-140	10	.56
27A181	11-140	11	.61
27A182	12-140	12	.66
27A183	13-140	13	.72
27A184	14-140	14	.77
27A185	15-140	15	.82
27A186	16-140	16	.87
27A187	17-140	17	.92
27A188	18-140	18	.98
27A189	19-140	19	1.03
27A190	20-140	20	1.08
27A191	21-140	21	1.14

Type 141 Terminal strips. As above except 6-32 x 1/4 Binder Head screws. Metal to metal spacing over bakelite 3/8".

Cat. No.	Type	Term.	Net
27A193	1-141	1	.12
27A194	2-141	2	.19
27A195	3-141	3	.25
27A196	4-141	4	.31
27A197	5-141	5	.38
27A198	6-141	6	.44
27A199	7-141	7	.52
27A200	8-141	8	.58
27A201	9-141	9	.65
27A202	10-141	10	.72
27A203	11-140	11	.78
27A204	12-141	12	.84
27A205	13-141	13	.92
27A206	14-141	14	.98
27A207	15-141	15	1.05
27A208	16-141	16	1.12
27A209	17-141	17	1.19
27A210	18-141	18	1.25
27A211	19-141	19	1.31
27A212	20-141	20	1.38

K ICA Terminal Strips. Specially suited for amplifiers, mixers, receivers, etc. Made of 1/8" heavy black bakelite, engraved in white. Terminals are brass cadmium plated. Average shpg. weight is 5 oz.

Cat. No.	Type	Ter.	Mtg.	Ctrs.	Net
1A007	2420	2	1 1/2		.14
1A008	2414	3	2		.19
1A009	2413	4	2 1/2		.24
1A010	2405	5	3		.28
1A011	2404	6	3 1/2		.33
1A012	2412	7	4		.41
1A013	2410	8	4 1/2		.46
1A014	2424	9	5		.51
1A015	2422	10	5 1/2		.56



L ICA Bakelite Terminal Strips.

For fastening resistors, condensers, etc. Dia. of mounting lug hole is .140". Shpg. wt. is 6 oz.

Cat. No.	Type	Ties 10 for	100 for
1A001	2434	1	1.17
1A002	2435	2	2.22
1A003	2436	3	3.34
1A004	2437	4	4.41
1A005	2438	5	4.85
1A006	2439	6	6.67

M Millen Steatite Terminal Strips.

Terminal and lug are one piece. Easy to mount with series of round holes thru chassis. Wt. is 5 oz.

Cat. No.	Type	Net
23A039	37302	.69
23A040	37303	.78
23A041	37304	.90
23A042	37305	1.05
23A043	37306	1.14

N Millen Type 37104 Terminal Strip.

4-terminal strip of molded black Textolite. Barriers between contacts. Non-turning studs threaded 8/32 each end. Sh. wt. is 4 oz.

23A044, Net69

O Millen Safety Terminal. Combination high voltage terminal and thru-bushing. Tapered contact pin fits firmly into conical socket providing large area, low resistance connection. Sh. wt. is 4 oz.

Cat. No.	Type	Description	Net
23A045	37001	Black	.45
23A046	37001	Red	.45
23A048	37501	Low loss	.63

P ICA Bakelite Binding Posts.

9/16" Dia. Head with brass threaded insert. Nickel plated screw and knurled nut. Wt. 3 oz.

Cat. No.	Type	Color	Net
1A084	617	Red	.15
1A085	618	Black	.15

SEE LEO FOR THE BEST TRADE-IN DEAL

MUELLER CLIPS - RADIO HARDWARE



MUELLER BATTERY AND TEST CLIPS

For making quick, temporary electrical connections. Packed 10 in a box, half marked +, half plain. Average shipping weight is 3 oz.

A Mesh Teeth Test Clips

Cat. No.	Type	Amp.	Size	Ea.	10 for
1A154	**45	5	1 1/2"	.07	.50
1A155	+45C	10	1 1/2"	.07	.50
1A156	**48B	10	2"	.09	.60
1A157	**48C	10	2"	.14	.95
1A158	**50C	10	2 1/4"	.25	1.80

*Steel, cadmium plated. +Solid copper. *Needle in jaw pierces insulation. ++Solid bronze.

A Battery Clips

1A161	24A	25	2-7/8"	.18	1.20
1A164	21A	50	4"	.36	2.50
1A166	11A	100	6"	.86	6.10

A Solid Copper Clips

1A162	24	50	2-7/8"	.31	2.20
1A165	21	100	4 1/4"	.81	5.70
1A167	11	200	6"	1.51	10.60

B Sided Mesh Teeth Clips

1A159	**27	20	2-7/16"	.11	.78
1A160	+27C	40	2-7/16"	.19	1.27

C Alligator Clips

Cat. No.	Type	Size	Fit	Ea.	10 for
1A145	+60	2"	Banana plugs	.07	.50
1A146	60S	2"	Banana plugs	.08	.58
1A147	*60CS	2"	Banana plugs	.13	.80

+Solder type. Others have screw connectors. *Solid copper. Others are steel.

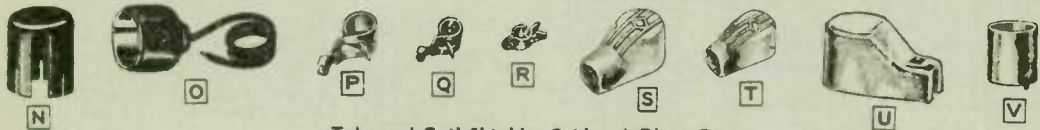
D Insulated Alligator Clips. Handles are red or black.

Cat. No.	Type	Size	Ea.	10 for
1A148	60HS	2 1/4"	.14	.95
1A149	*60CHS	2 1/4"	.18	1.20

*Solid copper. Other is cadmium-plated steel.

E Non-Ferrous R.F. Test Clip

Cat. No.	Type	Size	Description	Ea.	10 for
1A153	88	1-1/16"	Ideal for coils	.22	1.50



Tube and Coil Shields-Grid and Plate Caps

N ICA Grid Cap Shields. For metal tubes. Fits firmly over grid cap, affording complete shielding. Slotted cap permits passage of grid wire. Type 1558 is with bakelite insert. Shpg. weight is 3 oz.

10A128, (Type 1552) Net	.11
10A129, (Type 1558) Net	.20

O ICA Rubber Insulated Grid Cap. For transmitting tubes. Insulation made of soft rubber over spring bronze. With leads for 866 tubes. Sh. wt. is 4 oz. 1A022, (Type 870) Net .25 |

PQR National Grid and Plate Grips. Provide a secure and positive contact with the tube cap and yet are released easily by a slight pressure on the ear. Average shipping weight is 2 oz.

Cat. No.	Type	Fig.	For Size Cap	Net
49A157	12	P	9/16"	.07
49A158	24	Q	3/8"	.04
49A159	8	R	1/4"	.04

F Crocodile Clips

Cat. No.	Type	Size	Description	Ea.	10 for
1A150	85	2-1/8"	Screw connection	.08	.55
1A151	*85C	2-1/8"	Screw connection	.16	1.10
1A152	*85T	2-5/8"	Tip-clip	.20	1.40

*Solid copper. +Standard phone tip on one jaw.

G Cadmium Plated Twin-Clip-Type 22. Has jaws on both ends. For making a quick splice, temporary repair or test. Jaw spread 1/2". Wt. is 2 oz.

1A163, Net each	.10
10 for	.70

H Flexible Insulators for Clips. A convenient protection against short circuit and electrical shock. Packed 10 in a box, 5 red and 5 black to indicate polarity. Long tail prevents breakage of wire. Constructed so that clip is held in firmly. Av. wt. 3 oz.

Cat. No.	Type	Use With Clip	Each	10 for
1A170	13	11, 11A	.75	5.30
1A171	23	21, 21-A	.42	2.90
1A172	26	24, 24-A	.25	1.80
1A173	29	27, 27-C	.17	1.20
1A174	35	33	2.08	14.70
1A175	47	45, 45-C	.07	.50
1A176	49	49-B, 48-C, 82	.10	.70
1A177	87	85, 85-C, 85-T	.07	.50
1A178	93	88	.10	.70

J Mueller Clamp Type 58. For use in grounding a radio set or other apparatus to a water or radiator pipe. Sh. wt. is 6 oz.

1A169, Net each	.18
10 for	1.25

K Grayhill Alligator Clip Type 16. Fully insulated, including the hinge pin, allowing 2 or more clips to be placed side by side, and touching one another without shorting. Shipping weight is 2 oz.

1A391, Red	.75
1A392, Black	.75

L ICA Alligator Clip Type 520. Has standard phone tip jack in insulated sleeve. Will accommodate phone tip or solderless plug tips. Sh. wt. is 2 oz. 1A082, (Black)36 1A083, (Red)36

M Johnson Inductor Clip. Will admit wire from No. 20 to No. 10 without moving and shorting adjacent turns. Shipping weight is 3 oz.

1B024, (235-860) Net	.11
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108 QUICK DELIVERY ON ALL YOUR RADIO NEEDS

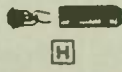
ICA PLUGS — JACKS



- A** Double Phone Plug. Sh. wt. 3 oz.
1A025, 24B, Black, Net.33
1A026, 24R, Red, Net.33
- B** Double Phone Plug. Nickel barrel, brass shell, nickel plated. Supplied with fibre insulating tube. Shipping weight is 2 oz.
1A032, Type 25, Net.59

- C** Stubby Shielded Phone Plug. Barrel size; 1" long, x 11/16" dia. Shipping weight is 2 oz.
1A029, Type 27, Net.48
- D** Midget Shielded Phone Plug. Barrel dia. 9/16". Overall size of plug is 2 1/4". Shipping wt. is 2 oz.
1A030, Type 30, Net.47

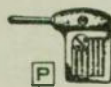
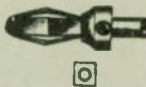
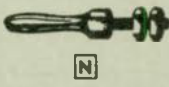
- E** 3-Wire Mike Plug. Has solder connections for cable or mike use. Bakelite barrel, brass parts, nickel plated. Sh. wt. is 4 oz.
1A031, Type 1901, Net.81
- F** 3-Wire Microphone Plug. Shielded, nickel plated. Sh. wt. is 2 oz.
1A033, Type 1900, Net.1.08



- G** Bakelite Portable Jacks. Single open circuit portable phone jacks. Size; 1-5/8", dia. 3/4". Shipping weight is 4 oz.
1A035, Type 1911, Net.49
- H** Shielded Portable Jack. Single open circuit. 2-1/8" long. Dia. 1 1/16". Shpg. wt. 4 oz.
1A036, Type 1913, Net.82

- J** Microphone Jack. Shielded 3 way portable, for all types of mikes. Nickel plated, and thoroughly insulated. Shpg. wt. is 3 oz.
1A034, Type 1904, Net.98
- K** Panel Mounting Jacks. Small & compact. Shpg. wt. 3 oz.
- | Cat. No. | Type | Description | Net |
|----------|------|-------------------|-----|
| 1A040 | 325 | Sgl. open circuit | .33 |
| 1A041 | 1905 | 3-way mike jack | .73 |

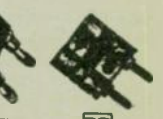
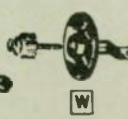
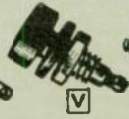
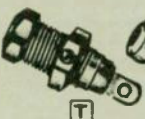
- L** Phone Jacks. Small type phone jacks for limited space. They are complete with nut and metal washer. The average shipping wt. is 3 oz.
- | Cat. No. | Type | Description | Net |
|----------|------|-------------------|-----|
| 1A037 | 1870 | Sgl. open circuit | .30 |
| 1A038 | 1871 | Sgl. closed cir. | .33 |
| 1A039 | 1872 | 3-way mike jack | .37 |



- M** Insulated Solderless Plug. 2" long, fits all standard phone tip jacks. Shpg. wt. is 3 oz.
1A065, 885B, Black Net.14
1A066, 885R, Red Net.14
- N** Split Banana Plugs. Allows spring to fit into jack. Cannot bend out of shape. Complete with 2 nuts. Shpg. wt. is 4 oz.
1A056, Type 403, Net.12

- O** Beryllium Banana Plug. Threaded plug accommodates 6/32" nuts. 419—Rivet type, 13/16 long x 1/8" dia. 421—threaded shank. 1-3/16" long, shank 13/32" long. 5 oz.
1A057, Type 419, Net.13
1A058, Type 421, Net.21
- P** Molded Phone Tip Plug. Replacement for most all make test leads. Shpg. wt. is 4 oz.
1A075, Red, Net.27
1A076, Black, Net.27

- Q** Solderless Plugs. Overall length is 1-11/16". Shpg. wt. 3 oz.
1A071, Type 358, Net.10
- R** Split Banana Plugs. Set screw provided at side of barrel to fasten screw without soldering. 3 oz.
- | Cat. No. | Type | Color | Length | Net |
|----------|------|-------|--------|-----|
| 1A059 | 883B | Black | 1 1/4" | .15 |
| 1A060 | 883R | Red | 1 1/4" | .15 |
| 1A061 | 882B | Black | 2 1/4" | .27 |
| 1A062 | 882R | Red | 2 1/4" | .27 |



- S** Insulated Tip Jacks. With receptacle for standard phone tips. Shpg. wt. 3 oz.
- | Cat. No. | Type | Color | Net |
|----------|------|-------|-----|
| 1A042 | 889B | Black | .12 |
| 1A043 | 889R | Red | .12 |
- Insulated Banana Jacks**
With receptacle for banana plugs. Shpg. wt. 3 oz.
- | Cat. No. | Type | Color | Net |
|----------|------|-------|-----|
| 1A044 | 888B | Black | .12 |
| 1A045 | 888R | Red | .12 |

- T** Brass Tip Jacks. Nickel plated. Shpg. wt. 3 oz.
1A052, Type 357, Net.09

- U** Banana Plug or Tip Jack. Made to take banana plug or standard phone tips interchangeably. With washers and nuts. Shpg. wt. 3 oz.
- | Cat. No. | Type | Color | Net |
|----------|------|-------|-----|
| 1A050 | 528B | Black | .15 |
| 1A051 | 528R | Red | .15 |

- V** Insulated Tip Jacks. Molded of low-loss bakelite. Sh. wt. 3 oz.
- | Cat. No. | Type | Color | Net |
|----------|------|-------|-----|
| 1A046 | 1889 | Black | .15 |
| 1A047 | 1890 | Red | .15 |
- Bakelite Banana Type Jacks**
- | Cat. No. | Type | Color | Net |
|----------|------|-------|-----|
| 1A048 | 1891 | Black | .15 |
| 1A049 | 1892 | Red | .15 |

- W** Plug and Jack. Used on RCA receiver, recording units. Shpg. weight is 3 oz.

- 1A077, 2383 Pin plug, Net.05
1A078, 2385 Socket & Shield. . .07

- X** Johnson Nylon Tip Jacks. Insulated. Threaded 1/4-32. Size: 3/8" diameter, 29/32" long. Shpg. weight is 4 oz.
- | Cat. No. | Type | Color | Net |
|----------|-----------|-------|-----|
| 1B257 | 105-601-1 | White | .29 |
| 1B258 | 105-602-1 | Red | .29 |
| 1B259 | 105-603-1 | Black | .29 |
| 1B260 | 105-604-1 | Green | .29 |

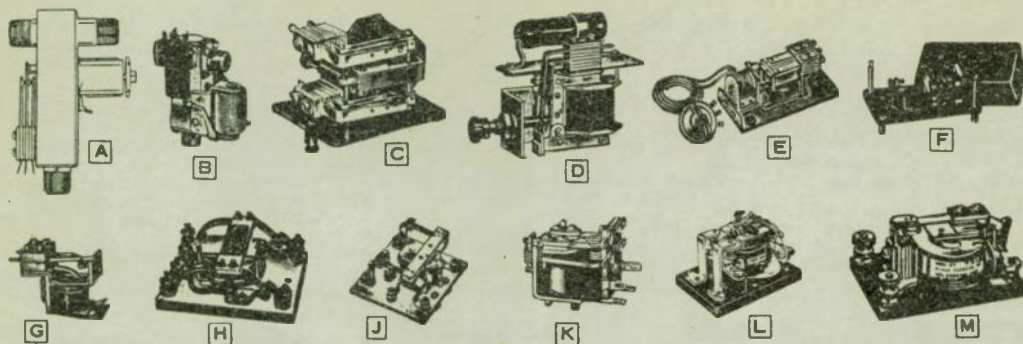
- Y** Insulated Spade Lug. Banana plug receptacle on lead end. Sh. wt. 3 oz.
- | Cat. No. | Type | Color | Net |
|----------|------|-------|-----|
| 1A079 | 887B | Black | .10 |
| 1A080 | 887R | Red | .10 |

- Z** Spade Lug. Can be used on any size screw or terminal up to size 10. Sh. wt. is 3 oz.
1A081, 879, 100 for.3.28

- AA** Millen Posts, Plates, Plugs. Posts have captive head. Made of black bakelite. Sh. wt. is 4 oz.
- | Cat. No. | Type | Descript | Net |
|----------|-------|-------------|-----|
| 23A036 | 37202 | Plates (pr) | .33 |
| 23A037 | 37212 | Plugs | .78 |
| 23A038 | 37222 | Posts (pr) | .45 |

- BB** National Banana Plug. Combination plug and socket. Mica filled bakelite. Shipping weight is 3 oz.
49B160, (FWT) Net.1.14

HIGH QUALITY RELAYS



COAXIAL RELAYS

A Dew-Key Relays. Insertion in 52 ohm coax causes negligible change in swr up to 100 mc. Rated 1000W. Fit standard connectors for RG-8U coax. SPDT switch can be used for opening B+ of rcvr. when transmitting. 3x4 1/4". Wt. 8 oz.
54A162, 110vac—fixed stn. . . 12.50
54A163, 6vdc—mobile use . . 11.50
54A164, 12vdc, 11.50

B Advance Relays. Designed for use with 52 ohm RG coaxial cable. The SPDT internal contacts are pure silver, 1/4" dia. The inspection port at one end of the housing provides easy access to the internal contacts. *3/16" DPDT external contacts, as illustrated, may be had to control auxiliary circuits. Av. sh. wt. 1 lb.

6 Volts DC

No.	Type	Net
54A151	CB/1C/6VD	9.78
54A152	*CB/1C2C/6VD	12.13

12 Volts DC

54A156	CB/1C/12VD	9.78
54A157	*CB/1C2C/12VD	12.13

115 Volts AC

54A147	CB/1C/115VA	9.78
54A148	*CB/1C2C/12VD	12.13

Midget Coaxial Relays

6 Volts DC

54A153	CM/1C/6VD	9.25
54A154	*CM/1C2C/6VD	10.32

115 Volts AC

54A149	CS/1C/115VA	9.25
54A150	*CS/1C2C/115VA	10.32

BREAK-IN RELAY

C Guardian Type B-100. For control of standby equipment and break-in operation on amateur transmitters. 1/4" silver points, rated at 1500 W. Standard coils operate on 115 VAC, 50-60 cycles. Shpg. wt. 11 oz.
54A175, Net 7.64

OVERLOAD RELAYS

D Guardian Type X-100. Gives positive, precise protection against current surges and continuous overloads. SPST. Rated for 1500W. on 115 VAC, 60 cy., non-inductive and in AC primary circuit of any inductive power supply delivering up to and including 1 KW. Sh. wt. 12 oz.
54A170, Net 10.14

D Guardian L Series. Provide accurate, fixed overload protection. SPST. Push-button re-set. L-250 attracts armature on current flow of 250 mils. Maximum drop across coil—10 volts. L-500 attracts armature on current flow of 500 mils. Maximum drop across coil—5 volts. Shpg. wt. 11 oz.
54A171, (L-250) Net 7.64
54A172, (L-500) Net 7.64

E Guardian Type X-300ER. Remote panel installation of the control potentiometer simplifying adjustment of relay to operate on any current value from 250 to 750 milliamperes. Pure silver contacts. May be mounted on any type of panel. Shpg. wt. 14 oz.
54A169, Net 6.59

TIME DELAY RELAYS

F Guardian T Series. Prevents damage of rectifiers and tube filaments. T110 carries 1250W. T-100 carries 1500W. 115 volts AC. Shpg. wt. 1 1/4 lbs.
54A173, (T100) Net 12.20
54A174, (T110) Net 9.22

HF RELAY

G Guardian R Series. For band-switching, hi-voltage keying, etc. Contact capacity up to 1 KW. Standard coils operate on 115 VAC, 60 cy. May be mounted on any type panel. Shpg. wt. 8 oz.
54A166, R-100 nor. open . . . 2.82
54A167, R-100B nor. clcd. . . 2.82

ENCLOSED RELAY

Potter and Brumfield Type KRP11A. This relay is enclosed in a clear polystyrene, dust and weather-proof cover through which the actual working of the relay may be seen. Plugs into standard octal socket. Dimensions: 1-13/32"x1-13/32"x2" high (above socket). DPDT. For 110 volts, 50/60 cycles AC operation. Contacts rated 5 amps. Shpg. wt. 12 oz.
54A205, Net 5.63

ANTENNA CHANGEOVER

H Advance Type AT/2C/115VA. Designed for use in amateur transmitters. The contact system is DPDT, using 1/4" pure silver contacts, with exceptional wiping action. For high radio frequency control. Entirely hum-free where intended for AC operation, and highly efficient on DC supplies. Standard coils are for 110 VAC. Contacts rated at 1 kilowatt RF. Sh. wt. 12 oz.
54A138, Net 7.74

J Guardian Type A-300. Designed for low-loss antenna changeover operation. The straight line positioning of the screw terminals and the contact springs maintains equal spacing through the relay from transmission line to transmitter. This reduces impedance mismatch to a minimum. Up to 1 KW input power. Pure silver contacts DPDT. 115 volts AC. Shpg. wt. 7 oz.
54A165, Net 6.47

K Potter and Brumfield KA Series. Excellent for use as antenna changeover relays with 300 ohm twin line. Rated at 3 amps 115 volts 60 cycles non-inductive load. Screw mount with locking stud. Sh. wt. 4 oz.
54A200, (KA-11A, 110vac) . . . 3.28
54A201, (KA-11D, 6vdc) . . . 2.99

HEAVY DUTY RELAYS

L Potter and Brumfield PR Series. For motor starting circuits up to 1 HP. Plated metal parts. 7 to 10 volt-amps operating power required. 110 volt AC coil. Contacts: 15 amps. Sh. wt. 12 oz.

No.	Model	Type	Net
54A204	PR-1A	SPST	3.63
54A202	PR-7A	DPST	5.63
54A203	PR-11A	DPDT	5.88

M Advance Relays. Sturdy, yet small, power transfer relays. Coils are wound for operation on 115 volts AC. Sh. wt. 1 lb.
54A140, (PH/1A/115VA, SPST) Net 5.17
54A141, (PV/1A/115VA, 30 amp contact) Net 6.02



HIGH QUALITY RELAYS

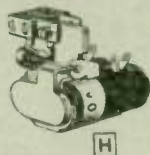


PLATE CIRCUIT RELAYS

A Potter and Brumfield LM series. Fine silver contacts rated at 5 amps, 115 volts 50/60 cycles AC non-inductive load. Tail spring adjustment provided to re-set pull-in. Dimensions: LM5 2-5/16x1 1/4x2-7/16"H. LM11 2-3/16x2-5/32x2-1/2"H. Tapped 6-32 for mounting. Specify coil resistance when ordering. Av. sh. wt. 12 oz.

Cat. No.	Type	Coil Pull		
		Res.	In. ma.	Net
54A206	LM5	5000	4.5	3.28
54A207	LM5	10000	3.2	3.72
54A208	LM11	5000	6.3	5.14
54A209	LM11	10000	4.5	5.63

B Potter & Brumfield Type LS5. Low priced relay. Pull-in re-adjustable by bending tail spring hook. Pure silver, SPDT contacts, rated at 5 amps, 115 volts AC or 28 VDC non-inductive load. Dim: 2-11/16x1-1/4x1-3/8"H. Coil resistance 5000 ohms. Sh. wt. 8 oz. 54A210, Net..... 2.35

C Potter and Brumfield Type SMSDS. Silver rhodium contacts rated 1/4 amps, 115 volts 50/60 cycles AC or 28 VDC non-inductive load. Hermetically sealed. Fits standard 7-pin miniature tube socket. Height above socket 1-11/16". Diameter 3/4". Contacts SPDT. Pull-in volts 4.5. For 6VDC operation. Shpg. wt. 4 oz. 54A212, Net..... 4.65

D Advance Type 1200. 5500 ohm coil. Obtains positive action at sensitivity of 5 milliwatts and with careful adjustment can be made to operate with as little as 2 1/2 milliwatts on the coil. Pure silver contacts rated at 1 amp, 110 volts AC. Non-inductive. SPDT. 12 oz. 54A146, Net..... 6.84

PHOTO FLASH RELAYS

E Potter and Brumfield FR Series. Contacts designed to carry high surge current without sticking or burning. Repetitive accuracy comparable to precision built camera shutter. For intermittent duty. SPDT contacts. Size: 2-31/32x1-7/16x1-5/8" high. Mtd. with two 5/32" dia. holes on 2-5/8" ctrs. Sh. wt. 12 oz. 54A198, FR5A, 6vac, 50-60 cy. 3.53 54A199, FR5D, 2 vdc..... 3.53

MIDGET RELAYS

F Advance AH Series. These units are sturdy, compact, ceramic insulated relays, especially designed for Aircraft, Marine, Mobile and Portable Radio Communication equipment. Ideal for installations in the smaller compact communication sets. All contact terminals are adequately spaced. 1/4" pure silver contacts. DPDT. Shpg. wt. 1 lb.

Cat. No.	Type	Volts	Net
54A143	AH/2C/115VA	115ac	6.45
54A144	AH/2C/6VA	6ac	6.45
54A145	AH/2C/6VD	6dc	6.45

G Leach Type 327. A small, quality relay in the inexpensive class that finds a wide variety of uses in the commercial field. Contacts 1/8" fine silver, rated at 2 amps 115 volts AC. DPDT. Shpg. wt. 4 oz.

54A131, Net..... 2.82

H Potter & Brumfield Type SS5D. For circuits requiring low energy operation. Pure silver contacts rated at 2 amps, 115 volts 50/60 cycles AC or 28 VDC non-inductive load. Operates with 10G vibration resistance on 10MW. Armature precision balanced. 1-11/16x1-5/16x1-11/16" high. Two 6-32 tapped holes for mounting. SPDT contacts. The coil resistance is 10,000 ohms. Maximum pull-in 1.0 ma. Shipping weight is approximately 12 oz. 54A211, Net..... 10.24

COIL-CONTACT ASSEMBLIES

J Guardian Coil-Contact Assemblies. Coil and contact assemblies carried in stock separately to give you a wide choice of combinations. The interchangeability features enables ready revision when changed. 60 cycles. Shpg. wt. each 4 oz.

Cat. No.	Type	Volts	Net
54A181	200-6A	6 AC	1.59
54A182	200-12A	12 AC	1.59
54A183	200-24A	24 AC	1.59
54A184	200-115A	115 AC	2.00
54A185	200-6D	6 DC	1.59
54A186	200-12D	12 DC	1.59
54A187	200-24D	24 DC	1.59
54A188	200-32D	32 DC	1.59
54A189	200-110D	110 DC	2.00
54A190	200-5000D	Plt.cir.	2.00

Contact Assemblies

Contact switch assemblies for use with coil assemblies listed above. Ideal for making custom relays.

54A191, 200-1. SPDT, 8 amps.	1.32
54A192, 200-2. DPDT, 8 amps.	1.79
54A193, 200-3. Contact switch parts for adding poles to 200-1 & 200-2. Makes combination up to 4 PDT. Net.....	1.32
54A194, 200-4. DPDT, 12.5 amps. Net.....	2.09
54A195, 200-M1. SPST, 3 amps, midget. Net.....	1.29
54A196, 200-M2. DPDT, 7 amps, midget. Net.....	1.59

KEYING RELAYS

Designed specifically for keying circuits utilizing low voltages.

K Advance Type 201-K. Designed expressly for use in keying circuits where it is desired to use low voltage across the key to control high voltage transmission thru the relay contacts. The heavy duty coil and strong return spring makes possible an exceptional keying speed. Mounted on 3/16" bakelite base with binding posts for coil connections. Dim: 3x2x1-3/8". For 6VDC operation. SPST. Shipping weight 1 lb. 54A135, Net..... 4.30

L Guardian Type K-320. A low voltage relay controlling high voltage transmission. Relay will follow key or bug at highest WPM rate obtainable. High speed of response, plus strong magnet and return spring, gives a clean make and break, producing the best CW note. Contact points will handle up to 20 amps at 115 volts or 230 volts 60 cycles non-inductive AC. Standard coils operate on 6VAC. Shpg. wt. 4 oz. 54A168, Net..... 3.23

LOW PRICES—LARGE STOCKS—FAST SERVICE

WIRE PRODUCTS

SHIELDED MICROPHONE CABLES

SINGLE CONDUCTOR



High quality cable used for many microphone applications. Covered with cellulose acetate yarn braid, polyethylene insulation, tinned copper shield and chrome plastic jacket. *Has rubber

jacket and rubber insulation. No. 25-3x33 copper and 4x33 steel stranded conductor. Note: Lengths under 100 ft. are available only in coil sizes listed below.

Type	O.D.	15 ft. Coil		25 ft. Coil		50 ft. Coil		100' or More		Lbs.
		Cat. No.	Ea.	Cat. No.	Ea.	Cat. No.	Ea.	Cat. No.	100'	
8401	.200"	2A121	.87	2A122	1.34	2A123	2.50	2A061	4.70	4
8410	.245"	2A124	1.34	2A125	2.11	2A126	4.23	2A064	7.58	4
8411	.144"	2A127	.71	2A128	1.11	2A129	2.05	2A060	3.75	2%

TWO CONDUCTOR

Type 8428 is No. 18 stranded (41x34), tinned copper with cotton wrap, rubber insulation, black rubber jacket. Type 8412 is No. 20 stranded (26x34) tinned copper with cotton wrap, rubber insulation, black rubber jacket. Type 8422 is No. 22 stranded (16x34) tinned copper with polyethylene insulation and chrome plastic outer jacket. Note: Lengths under 100 ft. are available only in coil sizes listed below.

Type	O.D.	15 ft. Coil		25 ft. Coil		50 ft. Coil		100' or More		Lbs.
		Cat. No.	Ea.	Cat. No.	Ea.	Cat. No.	Ea.	Cat. No.	100'	
8428	.295"	2A130	1.67	2A131	2.53	2A132	4.93	2A096	9.55	14%
8412	.268"	2A133	1.26	2A134	1.97	2A135	3.96	2A059	7.58	5%
8422	.231"	2A136	1.06	2A137	1.72	2A138	3.38	2A062	6.47	5

MULTIPLE CONDUCTOR

Excellent for use in microphone and interconnecting power cable requirements. No. 20 stranded (26x34) tinned, copper conductor, cotton wrap and color-coded conductors. Tinned copper braid shield, rubber insulation and rubber jacket. *For low impedance mikes. Note: Lengths under 100 ft. available only in coil sizes listed below.

Type	Conductors	Mmf. Per ft.	O.D.	15 ft. Coil		50 ft. Coil		100' or More		Lbs.
				Cat. No.	Ea.	Cat. No.	Ea.	Cat. No.	100'	
8423*	3	85	.277"	2A139	1.50	2A140	4.49	2A063	8.75	5%
8424*	4	95	.295"	2A141	1.72	2A142	5.29	2A077	10.29	7%
8425	5	58	.323"	2A143	1.96	2A144	6.11	2A078	11.84	9%
8426	6	60	.349"	2A145	2.29	2A146	7.50	2A079	14.50	12%
8427	7	56	.360"	2A147	2.50	2A148	8.02	2A080	15.81	13%

RUBBER JACKET PORTABLE CABLE

Flexible copper stranding, cotton wrap, rubber insulation and color-coded. Cabled with fillers, cotton wrap, and black rubber jacket. Used for speakers, power supplies, etc. Note: Lengths under 100 ft. are available only in coil sizes listed below.

Type	O.D.	Cond.	Size	15 ft. Coil		50 ft. Coil		100' or More		Lbs.
				Cat. No.	Ea.	Cat. No.	Ea.	Cat. No.	100'	
8452	.245"	2	18(41x34)	2A149	.87	2A150	2.52	2A081	4.56	4%
8453	.285"	3	18(42x34)	2A151	1.02	2A152	3.02	2A082	5.55	4%
8454	.265"	4	18(41x34)	2A153	1.20	2A154	3.56	2A083	6.76	5%
8455	.280"	5	3-22(16x34) 2-18(41x34)	2A155	1.32	2A156	3.70	2A084	7.13	5%

UNSHIELDED INTERCOM CABLE

Tinned copper, flexible stranding, plastic insulation. *Have two conductors, No. 18 (16x30); the rest are 22 (7x30). Note: Lengths under 100 ft. are available only in coil sizes listed below.

Type	Cond.	O.D.	15 ft. Coil		25 ft. Coil		100' or More		Lbs.
			Cat. No.	Ea.	Cat. No.	Ea.	Cat. No.	100'	
8443	3	.142"	.....	.....	2A157	.79	2A070	2.53	2%
8444	4	.155"	.....	.....	2A158	.94	2A071	3.02	2%
8445	5	.170"	.....	.....	2A159	1.05	2A072	3.70	3
8446*	6	.215"	2A160	.96	.....	.....	2A073	5.66	4%
8447*	7	.230"	2A161	1.05	.....	.....	2A074	6.11	5
8448*	8	.240"	2A162	1.11	.....	.....	2A075	6.55	5%
8449*	9	.255"	2A163	1.20	.....	.....	2A076	7.20	6

TEST PROD WIRE

Extremely flexible. Rubber insulated. Specify red or black. Type 8899 is rated at 5000 volts. Type 8898 is rated at 10,000 V. Sh. wt. per 100 ft. is 2 lbs. Note: Lengths under 100 ft. are available only in coil sizes listed below.

Type	Color	Per ft.		10 ft. Coil		25 ft. Coil		100' or More	
		Cat. No.	Ea.	Cat. No.	Ea.	Cat. No.	Ea.	Cat. No.	100'
8899B	Black	.....	.....	2A164	.31	2A165	.71	2A067	2.06
8899R	Red	.....	.....	2A166	.31	2A167	.71	2A066	2.06
8898B	Black	2A069	.03	.....	.....	.....	.....	2A069	3.14
8898R	Red	2A068	.03	.....	.....	.....	.....	2A068	3.14

HAM HEADQUARTERS FOR EQUIPMENT AND INFORMATION

World Radio History



PA & SOUND SYSTEM CABLES

8782 used as juke box cable. 8783 juke box control cable. 8799 amplifier to broadcast control cable. 8209 for long runs in extension installations. *Copper braid shield. Sh. wt. 100' 2 lbs.

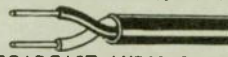
Cat. No.	Type	Strand	Ft.	100'
2B112	8782	7x32	.02	1.00
2B113	8783	10x30	.07	4.95
2B114	*8799	Solid	.045	4.16
2B115	*8209	7x26	.07	6.03



INTERCOMMUNICATING AND SOUND SYSTEM CABLES

Unshielded cable for intercom, P.A. and juke box work. Paired conductors. 22 gauge solid conductors. Gray vinyl plastic jacket overall.

Cat. No.	Type	Pr.	nd	100' Ft.	100'
2B100	8740	1	2	1%.025	2.20
2B101	8741	2	4	2%.045	3.70
2B102	8742	3	6	2%.065	5.05
2B103	8743	6	12	4%.08	6.76
2B104	8744	9	18	6%.125	9.87
2B105	8753	11	22	8%.16	13.01
2B106	8745	15	30	10%.20	17.49
2B107	8746	27	54	17%.34	28.74
2B108	8747	6	12	5%.11	9.05
2B109	8748	9	18	7%.16	13.46
2B110	8749	15	30	11%.25	21.76
2B111	8750	27	54	19%.43	36.53



BROADCAST AUDIO CABLES

Provides maximum performance of equipment. Vinyl plastic jacket tubes. Shielded. Type 8438 is 20 gauge. Type 8440 is 22 gauge. Sh. wt. per 100 ft., 4 lbs.

Cat. No.	Type	For	Ft.	100'
2B116	8438	NBC	.04	3.67
2B117	8440	CBS	.06	4.93

MAGNET WIRE

For winding coils, transformer primaries, etc. Belden-amel has double coat enamel insulation over solid copper wire. Single Cottonamel has one coating of enamel and single cotton cover. Available in 1/4 lb. spools only. Av. sh. wt. 1 lb.



Size Ft.	Apx. Belden	Apx. Cottonamel	Apx. Cottonamel
14	39 3A001	.61 3A013	.61
16	61 3A002	.61 3A014	.61
18	97 3A003	.61 3A015	.61
20	154 3A004	.64 3A016	.62
22	241 3A005	.65 3A017	.64
24	376 3A006	.70 3A018	.68
26	590 3A007	.73 3A019	.73
28	916 3A008	.76 3A020	.78
30	1420 3A009	.78 3A021	.85
32	2540 3A010	.81 3A022	.88

SHIELDING

In form of tubing. For shielding and bonding. Sh. wt. per 100 ft., 2 lbs.

Cat. No.	Type	Inside Dia.	Ft.
2A054	8660	13/64"	.035
2A055	8668	1/8"	.05
2A056	8661	3/8"	.06
2A057	8669	1/2"	.11
2A058	8662	25/32"	.15

WIRE PRODUCTS



CELLULOSE-ACETATE HOOK-UP WIRE

Tinned copper, with heavy cellulose acetate yarn wrap. Cellulose acetate yarn braid. Lacquer coating. Average shipping weight per 25 ft. is 5 oz. Per 100 ft., 12 oz.

Type 8941-20 Solid									
Lgth.	Black	Blue	Green	Red	Yellow	White	Brown	Orange	Net
25 ft.	3A029	3A030	3A031	3A032	3A033	3A034	3A035	3A036	.40
100 ft.	3A037	3A038	3A039	3A040	3A041	3A042	3A044	3A043	1.34
Type 8943-20 Stranded 10x30									
25 ft.	3A057	3A058	3A059	3A060	3A061	3A062	3A063	3A064	.41
100 ft.	3A065	3A066	3A067	3A068	3A069	3A070	3A071	3A072	1.46

Type 8945-18 Solid									
Lgth.	Black	Blue	Green	Red	Yellow	White	Net		
25 ft.	3A045	3A046	3A047	3A048	3A049	3A050	.49		
100 ft.	3A051	3A052	3A053	3A054	3A055	3A056	1.64		

Type 8947-18 Stranded 16x30									
25 ft.	3A073	3A074	3A075	3A076	3A077	3A078	.50		
100 ft.	3A081	3A082	3A083	3A084	3A085	3A086	1.70		

Type 8938-15 Stranded 14x30									
Length	Red			Black			Net		
100 ft.	2A041			2A040			2.58		
500 ft.	2A041			2A040			11.70		

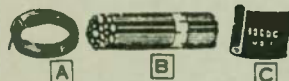
COAXIAL CABLE



Low loss cable for amateur & TV installations. Polyethylene plastic insulation.

Black vinyl plastic jacket. RG-59U is excellent for use with TV antennas.

Cat. No.	Type	Imped.	Mmfd./ft.	O.D.	Wt. 100'	Ft. 100ft.
201A012	8/U	52.0	29.5	.405	12 lbs.	.13 12.96
201A013	11/U	75.0	20.5	.405	11 lbs.	.12 12.05
201B025	58/U	53.5	28.5	.116	3 1/2 lbs.	.06 4.68
201A014	59/U	73.0	21.0	.242	5 lbs.	.06 6.17



A Bus Bar Wire. Solid tinned copper. Shipping weight is approx. 2 lbs. per 100 ft.

Cat. No.	Type	AWG	Ft.	Net
3A137	8011	12	100	2.30
3A138	8012	14	100	1.57
3A139	8013	16	100	1.07

B Assorted Spaghetti. 7/8" lgths. Shpg. wt. is 6 oz. 0A237, Net.29

C 10000 V Cambric. .010" thick. 210 square in. 5 oz. 0A236, Net.42

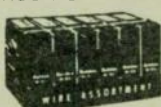
ANTENNA WIRE



This copper wire is ideal for all antenna requirements. Enamel insulation. Sh. wt. 2 lbs. per 100 ft.

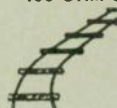
Type 8008 No. 12 2A047, per 100 ft.2.01
Type 8009 No. 14 2A048, per 100 ft.1.42

HOOK-UP WIRE ASSORTMENTS



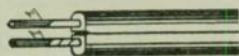
Type 8864. Consists of 6,25 ft. coils of 8941 wire, size 20 solid. One of each color: black, blue, green, red, yellow, & white. Sh. wt. 1 1/4 lbs. 3A105, Net.2.41
Type 8865. Consists of 6,25 ft. coils of 8943, 20 flexible. One of each color. Wt. 1 1/4 lbs. 3A106, Net.2.50

400 OHM OPEN WIRE LINE



Only .5 db loss per 100' at 200 mc. Polystyrene insulators spaced 6" apart. 400 pounds breaking

point tensile strength. Wt. is 3 lbs. per 100 ft.
201A010, per 100 ft.3.95
201A028, per 250 ft.9.85



RUBBER LAMP CORD

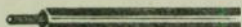
POSJ. Parallel conductors with rubber insulation and jacket integral. Available in black or brown. Sh. wt. per 100 ft. is 3 lbs.

2A085, Per ft.03
100 ft.2.43 250 ft.5.29
2A099, SJ Cord. Sh. wt. per 100 ft. is 3 lbs. Per ft.07
Per 100 ft.5.98



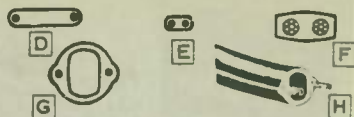
INDOOR AERIAL WIRE

Extra flexible. No. 25, 13x16. Cat. No. Type Ft. Wt. Net
3A118 8014 25 3 oz. .25
3A119 8014 500 2 lbs. 2.60



LEAD-IN WIRE

Type 8200. Flexible tinned copper wire with rubber insulation. Shpg. wt. per 100 ft. is 2 lbs.
Cat. No. 100' 500' 1000'
2A050 1.37 5.47 10.37



TRANSMISSION LINE

D Top quality 300 ohm line for receivers, TV sets, low power transmitters, etc. Sh. wt. per 100 ft. 5 lbs. Cat. No. Mfr. Ft. 100 ft. 1000 ft.
201A024 Federal .03 2.58 25.80
201A025 Amphenol .025 2.10 20.56

D 300 ohm transmission line packaged in convenient 100 ft. roll. 100 Mil.-20ga. Silver jacket. Shipping weight 6 lbs.
201B002, Net.1.89

E 75 ohm transmission line. Receiving type. Sh. wt. per 100 ft., is 4 lbs.
Cat. No. Ft. 100 ft. 500 ft.
201A004 .02 1.62 6.73

F 75 ohm 1KW transmission line. Shipping weight per 100 ft., 5 1/2 lbs.
Cat. No. Ft. 100 ft. 1000 ft.
201A019 .06 5.85 55.86

G 300 ohm 1KW transmission line. Shpg. weight per 100 ft., 5 1/2 lbs.
Cat. No. Ft. 100 ft. 1000 ft.
201A017 .15 14.17 141.70

H 300 ohm tubular twin-lead. Low-loss lead-in for UHF TV. Sh. wt. per 100 ft., 3 lbs.
Cat. No. Ft. 100 ft. 1000 ft.
201A003 .04 3.76 33.81

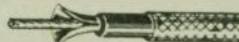
COPPERWELD ANTENNA WIRE

Ideal where wire must not sag or stretch. Steel core covered with copper & heavily enameled.
Cat. No. Ga. Lb. 100' 100 ft.
201A021 10 2 4.29
201A022 12 2 2.99
201A023 14 2 1.83



LEAD-IN STRIP

Type 611. 12" single lead-in strip, rubber insulation. Clips both ends. Sh. wt. 5 oz.
3B112, Net.12



HEAVY DUTY HOOK-UP WIRE

No. 16 stranded tinned copper. Rubber insulation. Lacquer coating. No. 8656 has braided shield. Wt. per 100 ft. is 2 1/2 lbs.
Cat. No. Type Ft. 100'
2A087 8652 .03 3.02
2A088 8656 .05 4.93

CRT LEAD CABLE

Type 8868. Designed for high voltage leads to CR tubes. 20,000 volt Polyethylene insulation. Handy 25 ft. roll. The shipping weight is approximately 2 1/2 lbs.
2B065, Net.93



PHONO PICK-UP CABLE

Type 8431. No. 24 stranded tinned copper. Shield covered with brown cotton braid. Wt. per 100 ft. is 2 lbs.
2A089, Per ft.03
Per 100 ft.2.96

SEE LEO WAGFQ FOR THE BEST TRADE-IN DEAL

EVEREADY BATTERIES



746

950

455

742

718

There is an Eveready for practically every type of battery operated radio. Noted for their superior quality and long life, Eveready batteries pack tremendous energy in small space.

"B" BATTERIES FOR PORTABLE RECEIVERS

Stock No.	Mfr's Type	Voltage	Dimensions			Std. Pkg.	Battery Weight	NET EACH		
			L.	W.	H.			Single	Lots	Std. Pkg.
70A001	411	15	1-1/32"x5/8"x1-15/32"			12	1 oz.	.74		.65
70A002	412	22½	1-1/32"x5/8"x2"			12	1-1/3 oz.	.89		.80
70A003	413	30	1-1/32"x5/8"x2-9/16"			5	1-2/3 oz.	1.13		1.03
70A051	437	75	1-3/8"x1-7/8"x6-3/8"			12	3 lbs.	2.63		2.46
70A004	455	45	2-21/32"x1"x3-11/16"			6	8 oz.	1.58		1.52
70A005	457	67½	2-13/16"x1-3/8"x2½"			5	7-2/3 oz.	2.06		1.93
70A006	467	67½	2-13/16"x1-3/8"x3-45/64"			6	12 oz.	2.21		2.07
70A007	482	45	3-19/32"x1-27/32"x5½"			6	2 lbs.	2.06		1.93
70A008	490	90	3-23/32"x1-3/8"x3-45/64"			6	1 lbs.	2.70		2.52
70A009	493	300	2-11/16"x2-7/32"x3-29/32"			1	1 lbs.	7.70		7.70
70A010	738	45	3"x2-5/16"x4-1/8"			2	1½ lbs.	2.63		2.45
70A049	477	67½	1-15/16"x1"x57/16"			6	3/4 lbs.	1.88		1.76

"A" BATTERIES FOR PORTABLE RECEIVERS

Stock No.	Mfr's Type	Voltage	Dimensions	Std. Pkg.	Battery Weight	NET EACH
70A011	717	7½	2-7/32"x1-15/16"x3-1/32"	6	8-3/4 oz.	.75
70A012	718	6	3-15/16"x2½"x5½"	1	2-3/4 lbs.	1.72
70A014	724	6	1-7/32"x1-7/32"x2-11/32"	1	2-2/3 oz.	.53
70A016	736	4½	3-15/16"x1-5/16"x4-3/32"	6	1 lb.	.68
70A017	741	1½	3-7/8"x2-11/16"x5-3/8"	1	2-3/4 lbs.	1.47
70A018	742	1½	2-19/32"x2-19/32"x4"	6	1-1/3 lbs.	.86
70A019	743	1½	3-13/16"x2-21/32"x4-1/32"	3	2 lbs.	1.23
70A020	744	6	2-21/32"x2-21/32"x3-31/32"	2	1-1/3 lbs.	.86
70A021	745	1½	3-7/8"x1-7/16"x10-25/32"	2	2-3/4 lbs.	1.73
70A022	746	4½	3-15/16"x1-5/16"x4-21/32"	6	1-1/4 lbs.	.71
70A023	747	6	3-7/8"x1-7/16"x10-25/32"	2	2-3/4 lbs.	2.06
70A024	915	1½	35/64"x Dia. x 1-31/32"	12	1/2 oz.	.09
70A025	935	1½	1-1/64"x Dia. x 2"	12	1-1/3 oz.	.11
70A026	950	1½	1-21/64"x Dia. x 2-27/64"	48	3-1/3 oz.	.11
70A046	912	1½	4/10"x Dia. x 1½"	12	3/10 oz.	.09
70A050	964	1½	1-3/8"x3-3/4"	12	3/4 lbs.	.23

"A-B" PACK FOR 1.4 VOLT PORTABLE RECEIVERS

Stock No.	Mfr's Type	Voltage	Dimensions	Std. Pkg.	Battery Weight	NET EACH
70A027	753	7½ & 9"A"	9-7/32"x2-23/32"x4-5/16"	1	5 lbs.	4.38
70A028	754	7½ & 9"A"	10-15/32"x3¼"x4"	1	6-3/4 lbs.	4.73
70A029	755	6 & 7½"A"	8-9/16"x2-7/16"x3-3/4"	1	3-3/4 lbs.	3.85
70A030	756	7½"A"; 90"B"	9-17/32"x2-1/8"x3-27/32"	1	3-3/4 lbs.	4.38
70A041	757	9"A"; 90"B"	9-7/32"x2-23/32"x4-7/32"	1	5 lbs.	4.38
70A047	729	1½V. "A"	7-13/16"x2-7/32"x3-27/32"	1	2½ lbs.	3.68
70A044	752	90V. "B"	14"x2-5/8"x4"	1	6-1/4 lbs.	4.65

"B" BATTERY FOR FARM TYPE RECEIVERS

Stock No.	Mfr's Type	Voltage	Dimensions	Std. Pkg.	Battery Weight	NET EACH
70A031	487	45	5-1/8"x2-1/16"x7-1/4"	6	4½ lbs.	2.74

"A-B" PACK 1.4 VOLT FARM TYPE RECEIVERS

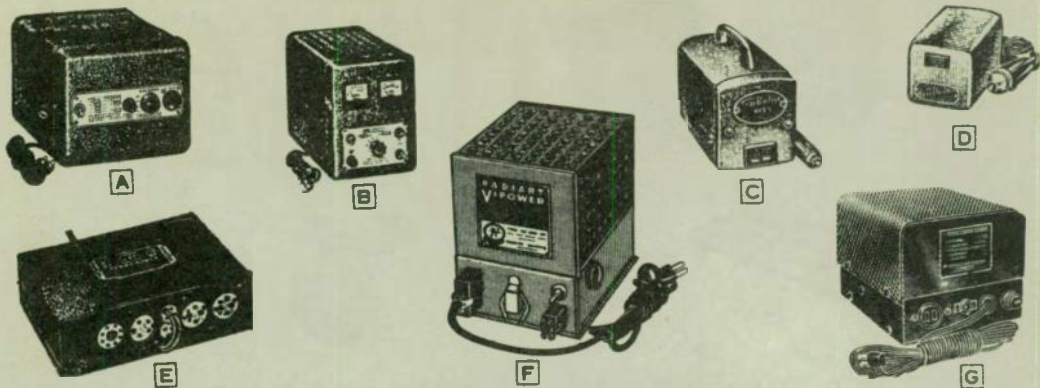
Stock No.	Mfr's Type	Voltage	Dimensions	Std. Pkg.	Battery Weight	NET EACH
70A032	758	1-1/2"A"	10-11/16"x4-1/8"x6-13/16"	1	14-1/2 lbs.	6.71
70A033	759	1.5"A"	15-11/16"x4-5/32"x6-15/16"	1	17-1/2 lbs.	6.71

"C" BATTERIES AND MISCELLANEOUS TYPES

Stock No.	Mfr's Type	Voltage	Dimensions	Std. Pkg.	Battery Weight	NET EACH
70A034	768	22-1/2	4-1/8"x2-17/32"x2-31/32"	1	1-1/2 lbs.	1.51
70A035	771	4-1/2	4-1/32"x1-13/32"x3-1/32"	5	3/4 lbs.	.94
70A036	773	7-1/2	3-29/32"x7/8"x3-1/4"	5	1/2 lb.	.90
70A037	781	4-1/2	2-15/16"x27/32"x3-1/8"	5	4½ oz.	.49
70A038	762-S	45	4-1/4"x2-9/16"x6-15/32"	1	2-3/4 lbs.	3.15
70A039	763	22-1/2	3-1/2"x2-3/32"x2-15/16"	1	1 lb.	1.37
70A040	778	22-1/2	4-1/8"x2-17/32"x3-7/16"	4	1-1/2 lbs.	1.84
70A043	*1461	6	10-3/8"x2-3/4"x7-1/4"	6	10 lbs.	2.80
70A045	+6	1½	2-5/8"x6-5/8"	12	2	.68
70A048	**509	6	2-5/8"x3-7/8"	12	1	.68

*(Hot shot) Used where 4 or more cells in series are required. +Ignitor. **Latern.

BATTERY ELIMINATORS — PLUGS



A ATR Inverters. For operating AC tape or wire recorders, radios, TV sets and similar equipment from DC voltages in vehicles, ships, trains and in DC districts. Radio frequency interference is completely suppressed. Size: 8-3/8x9x5 1/4". Output: 110 VAC, 60 cycles. Shpg. weight is 19 pounds.

Cat. No.	Type	Intermittent Watts	Input VDC	Cont. Watts	Net
59B006	6-RSE	80	6	65	35.25
59B007	12-RSE	125	12	100	35.25
59B008	32-RSE	150	32	125	40.87

WRITE FOR LITERATURE ON ATR PRODUCTS

B ATR Battery Eliminators. For testing and operating auto radios. Eliminates storage batteries and chargers. Equipped with full-wave dry disc rectifiers.

Type 610C-ELID. Rated output 6 V. at 10 A. or 12 V. at 6 A. Size: 6 1/2x9-1/8x8 1/4". Shpg. weight is 22 lbs. 59B018, Net 41.11
Type 620C-ELIR. Rated output 6 V. at 20 A. or 12 V. at 10 A. Uses dual rectifiers. 6 1/2x12-7/8x8 1/4". 33 lbs. 59B019, Net 57.98

C Terado DC to AC Converter Type 6-71160. Has handle on top. Converts 6 volts DC (car battery) to 110 volts 60 cycle AC. Capacity 60 watts continuous, 75 watts intermittent. Plugs into cigarette lighter. Operates wire recorders, dictating machines, electric shavers, etc. Sh. wt. is 8 lbs.

59A036, (6-71160, 6 volt model) Net 25.30
59A037, (12-71160, 12 volt model) Net 28.65

D Terado DC to AC Converter Type 6-1160. Changes 6 volts DC to 110 volts AC, 60 cycle 40-45 watt capacity maximum. For operating Radios, Electric Shavers, Portable Phones, Small Dictating Machines, and Fluorescent Lights. Excellent for use on picnics, outings, etc. Battery drain is only 4 1/2 amps when used with a small radio. Small enough to hold in your hand. Just plug into cigar lighter or battery. 5 lbs. 59A035, (6-1160, 6 volt model) Net 10.63
59A034, (12-1160, 12 volt model) Net 11.97

E Perma-Power Battery Eliminators. A-101. For 1 1/2 volt radios of 4, 5 or 6 tubes. Circuit designed for optimum voltage regulation and changes in line voltages. Supplies all needed power. Universal sockets for all battery plugs. Fits in 99% of all portables as well as all farm radios. "A" maximum power: 1.5 volts at 350 Ma. and 90 volts "B" at 13 Ma. Size: 1-1/8x4 1/2x6 1/4". Shipping weight is approximately 4 lbs.

59A001, Net 11.37

F Radiart Vipowers. Completely filtered R.F. and A.F. Output—lines filtered to a hum level of 50 mv or less. Within the range of 160 KC to 20 MC. R.F. hash is held to below 50 microvolts, even less at higher frequencies. *Tapped at 275V, 250V, 225 V. Shipping weight is 18 lbs.

Cat. No.	Type	Input	Output		Net
		V.	VDC	Ma.	
59A023	452-12	6	300*	100	22.99
59A024	452-12	12	300*	100	22.99
59A025	453	6	300*	100	24.34
59A026	453-12	12	300*	100	24.34
59A027	454	6	300	200	35.16
59A029	455	6	400	150	35.16
59A030	455-12	12	400	150	35.16

G Cornell-Dubilier DC to AC Vibrator Type Converters. For operating AC appliances from DC sources. All have 110 volts, 60 cycle AC output. All operate from 110 VDC except Type 6R10 which operates from a 6 volt storage battery. Output has complete RF filtering for clear TV, shortwave, and AM-FM broadcast reception. Instant starting under load and no waiting or warm up period.

Cat. No.	Type	Cont. Watts	Typical Applications.	Lbs. Net	
59A063	110PB5	50	AC radios-phones	2	16.98
59A065	110R10	100	AM-FM receivers	2	27.02
59A070	6R10	100	Mobilradio, PA system	19	40.25



BATTERY PLUGS

Cover popular types of batteries used in electronic equipment. Average shipping weight is 1 oz.

Cat. No.	Fig.	For RCA	For Eveready	Net
74A001	H	V5013	482, 744	.07
74A002	J	V5030	771	.18
74A003	K	V5025	768	.29
74A004	L	V5002	746	.07
74A006	M	V5004	742	.07
74A007	N		748	.09
74A008	O	V5010	718, 747	.07
74A010	P	V5008	745	.07
74A011	Q	V5058	757, 752W	.09

BATTERY STRAPS

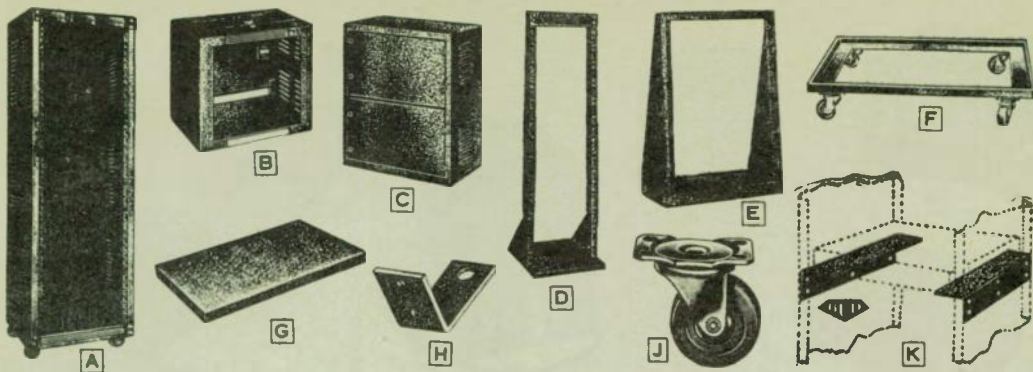
R Newly designed snap fastener for the new minia-45V. batteries. Shipping weight is 4 oz. 74A018, (45-2) Net 27

R Battery snap fastener for 67 1/2 volt B battery. Plus and minus terminal connections securely staked on tough fibre board insulator. Sh. wt. is 4 oz. 74A016, (67-2) Net 17

S Same as above except for 90 volt battery. Shpg. wt. 4 oz. 74A017, (69-2) Net 18

EASY TIME PAYMENTS—NAME YOUR OWN TERMS

CABINETS — PANELS — RACKS



A Sturdy Relay Racks. Made of 16 gauge steel with 1/8" panel supports. Panel mounting supports are recessed so that no edges of the panel will be exposed. Well louvered for ventilation. Snap catches on the door. Rounded corners and red-lined chrome trim. Shipped knocked-down, complete with hardware. 19" panels fit these racks. Four sturdy supports on bottom so that casters can be fastened directly on base. Black or Grey Wrinkle finish. Overall width is 22"; depth is 17 1/4" on all sizes listed below.

GRAY						
Cat. No.	Type	Ovrl. Ht.	Pnl. Space	Lbs.	Net	
200AF001	CR-1774	42-1/16"	36-3/4"	90	32.05	
200AF002	CR-1771	47-5/16"	42"	95	36.70	
200AF003	CR-1772	66-9/16"	61-1/4"	122	47.63	
200AF004	CR-1773	82-5/16"	77"	150	57.33	

BLACK						
Cat. No.	Type	Ovrl. Ht.	Pnl. Space	Lbs.	Net	
200AF021	CR-1774	42-1/16"	36-3/4"	90	32.05	
200AF022	CR-1771	47-5/16"	42"	95	36.70	
200AF023	CR-1772	66-9/16"	61-1/4"	122	47.63	
200AF024	CR-1773	82-5/16"	77"	150	57.33	

B Cabinet Racks. Made of heavy gauge steel. Have rounded corners and red-lined chrome trim. Recessed hinged door on top with snap catch. The five large sizes have a hinged rear door, while the small sizes have a welded panel in the rear. Adequate ventilation. "No scratch" metal feet on the bottom. Depth is 14 1/2", width is 22". Fit standard 19" panels. Available in Black or Grey Wrinkle.

GRAY						
Cat. No.	Type	Ovrl. Ht.	Pnl. Space	Lbs.	Net	
200AF005	CR-1741	10-9/16"	8 3/4"	29	11.76	
200AF006	CR-1740	12-5/16"	10 1/2"	31	13.43	
200AF007	CR-1742	14-1/16"	12 1/2"	32	14.26	
200AF008	CR-1739	15-13/16"	14"	36	15.88	
200AF009	CR-1743	19-5/16"	17 1/2"	40	18.82	
200AF010	CR-1727	22-13/16"	21"	45	20.41	
200AF011	CR-1744	28-3/16"	26 1/2"	50	22.05	
200AF012	CR-1728	33-5/16"	31 1/2"	55	23.52	
200AF013	CR-1745	36-13/16"	35 1/2"	60	24.40	

BLACK						
Cat. No.	Type	Ovrl. Ht.	Pnl. Space	Lbs.	Net	
200AF025	CR-1741	10-9/16"	8 3/4"	29	11.76	
200AF026	CR-1740	12-5/16"	10 1/2"	31	12.43	
200AF027	CR-1742	14-1/16"	12 1/2"	32	14.26	
200AF028	CR-1739	15-13/16"	14"	36	15.88	
200AF029	CR-1743	19-5/16"	17 1/2"	40	18.82	
200AF030	CR-1727	22-13/16"	21"	45	20.41	
200AF031	CR-1744	28-3/16"	26 1/2"	50	22.05	
200AF032	CR-1728	33-5/16"	31 1/2"	55	23.52	
200AF033	CR-1745	36-13/16"	35 1/2"	60	24.40	

C Junior Cabinet Racks. Constructed to accommodate two panels, one 10 1/2" by 18-5/16", the other 8 3/4" by 18-5/16", these are supplied with the cabinet. Accommodates a chassis up to 10" by 17". A hinged door on the rear has a locking device. Available in Black Wrinkle finish only.

Cat. No.	Type	Height	Width	Depth	Lb.	Net
200AF014	RC-1749A	21 1/4"	19-7/8"	10 1/2"	34	15.63

D Telephone Type Relay Racks. Types RR-1263 are made of 1/8" steel channels, 3" deep and are held together by angle cross pieces of the same material. Type RR-1265 is heavy duty and is made of heavy channel iron supported by two 3/8" thick iron angles that are bolted to the channels to give additional support. Supplied in black wrinkle finish only. Racks accommodate standard 19" panels. Type RR-1265 is 15" deep. Others 22" deep.

Cat. No.	Type	Ht.	Pnl. sp.	Lb.	Net
200AF017	RR-1263	35 1/2"	31 1/2"	38	17.25
200AF018	RR-1264	70 1/2"	66 1/2"	48	19.66
200AF019	RR-1265	72 1/2"	66 1/2"	97	43.53

E Desk Type Relay Racks. Perfect for table mounting of low and medium power transmitters and other electronic instruments. Shipped knocked-down with necessary hardware. Standard notched 19" wide panels can be used. Panels are recessed so no edges are exposed. Black wrinkle finish only. Depth is 12".

Cat. No.	Type	Ht.	Panel Space	Lbs.	Net
200AF015	RR-1248	24"	21"	15	6.58
200AF016	RR-1249	31"	28"	17	8.21

F Cabinet Rack Dollies-Type RD. Fit cabinets with base sizes from 14"x18" to 17"x21". 505 has light duty casters, 506 has heavy duty casters. Black wrinkle. Wt. 22 lbs.

Cat.		Outside	Inside	Outside	Inside	
No.	Type	L.	L.	W.	W.	Net
39A032	505	21½"	17-3/8"	17-13/32"	13-11/32"	6.47
39A033	506	21½"	17-3/8"	17-13/32"	13-11/32"	8.33

G Rack Shelves. Designed to slide in from the rear of the cabinet. Supported by chassis support-angles shown on this page. Heavy units may be mounted on these shelves. Made of heavy gauge steel. Black wrinkle only.

Cat. No.	Type	H.	W.	D.	Lbs.	Net
40A143	CB-1976	1"	19"	15"	7 1/2"	3.04
40A144	CB-1977	1"	19"	12"	6 1/2"	2.30

H Interlock Switch-Bracket. Offered as a means for mounting an essential safety switch used in interlock circuit in a rack cabinet. All voltage will automatically shut off when the cabinet is opened. Wt. 10 oz.

Cat. No.	Type	Height	Width	Depth	Net
22A044	SB-1348	3-1/8"	1-1/2"	2"	.44

J Type RC Truck Casters. Wheels are hard rubber composition and ball bearing. Shpg. Wt. 1 lb.

Cat. No.	Type	Ht.	Use	Net
22A014	7756	2-5/8"	Hvy. Duty	.88
22A015	7757	2"	Lgt. Duty	.39

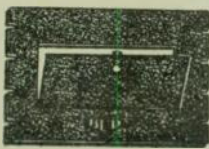
K Chassis Supporting Angles. Distributes weight on sides of rack & relieves panel. Sold only in pairs.

Cat. No.	Type	Dimensions	Lbs.	Net
40A141	SA-1349	14"x3x1/8"	5	1.72
40A142	SA-1350	12"x3x1/8"	4	1.62

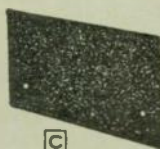
CHASSIS — PANELS



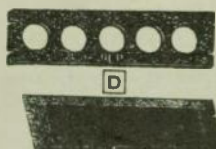
A



B



C



D



E



F



G



H



I



J

A Relay Rock Panels. These steel and aluminum panels are 1/8" thick. Available in black or grey wrinkle finish.

Black	Gray	Type	Ht.	Lb.	Net
40A025	40A026	PS-1250	1 3/4"	2	.65
40A027	40A028	PS-1251	3 3/4"	3	.74
40A029	40A030	PS-1252	5 3/4"	4	.91
40A031	40A032	PS-1253	7"	6	1.06
40A033	40A034	PS-1254	8 3/4"	7	1.27
40A035	40A036	PS-1255	10 3/4"	8	1.52
40A037	40A038	PS-1256	12 3/4"	9	1.81
40A039	40A040	PS-1257	14"	10	2.11
40A041	40A042	PS-1258	15 3/4"	12	2.40
40A043	40A044	PS-1259	17 3/4"	13	2.65
40A045	40A046	PS-1260	19 3/4"	14	2.94
40A047	40A048	PS-1261	21"	15	3.23

Aluminum

Black	Gray	Type	Ht.	Lb.	Net
40A001	40A002	PA-1101	1 3/4"	1	.92
40A003	40A004	PA-1102	3 3/4"	2	1.08
40A005	40A006	PA-1103	5 3/4"	2	1.52
40A007	40A008	PA-1104	7"	2	1.76
40A009	40A010	PA-1105	8 3/4"	3	2.20
40A011	40A012	PA-1106	10 3/4"	3	2.65
40A013	40A014	PA-1107	12 3/4"	4	2.90
40A015	40A016	PA-1108	14"	4	3.57
40A017	40A018	PA-1109	15 3/4"	5	3.53
40A019	40A020	PA-1110	17 3/4"	5	3.91
40A021	40A022	PA-1111	19 3/4"	6	4.58
40A023	40A024	PA-1112	21"	7	4.74

B Metal Door Rack Panels. Desirable when chassis must be accessible from the front of the panel. Door opening for type PS-615 is 15-3/8"x6". Door opening for type PS-616 is 15-3/8"x7 1/4". Panels are made of high grade steel. Black or grey wrinkle. 19" L. Sh. wt. approximately 10 lbs.

Black	Gray	Type	Wd.	Net
40A103	40A104	PS-615	10 3/4"	4.41
40A105	40A106	PS-616	12 3/4"	4.85

C Metal Panels. This line of steel panels fills all usual needs. Both sides are finished in durable black wrinkle enamel. Available in black only. Shipping weight approximately 2 1/2 lbs.

Cat. No.	Type	Width	Lgth.	Net
40A115	PS-1200	7"	8"	.61
40A116	PS-1201	7"	10"	.64
40A117	PS-1202	7"	12"	.69
40A118	PS-1203	7"	14"	.78
40A119	PS-238	7 3/4"	15"	1.08
40A120	PS-239	8"	10"	.88
40A121	PS-240	8"	12"	.98
40A122	PS-1204	8"	14"	.90
40A123	PS-1205	8"	16"	.98
40A124	PS-1187	8"	18"	1.08
40A125	PS-1188	8"	19"	1.37
40A126	PS-700	9"	15"	1.18

D Steel Meter Panels. 5 1/4" high, 19" wide. Black or grey wrinkle. Hole size: 2-3/16" dia. +2-13/16 inches dia. Shpg. wt. 5 lbs.

Black	Gray	Type	Holes	Net
40A081	40A082	*PS-440	3	1.27
40A083	40A084	*PS-441	5	1.81
40A085	40A086	+PS-442	3	1.27
40A087	40A088	+PS-443	5	1.81

E Enclosed Meter Panels. Give maximum protection to meters. Steel panel has large cut out. Behind this is a masonite sub-panel. Sub-panel has meter mounting area of 4-1/8x15-1/8"—space for four 3" meters. Glass insert protects the meters. Glass insert should be cut 16"L.x 4-5/8"W. Finished in black or grey wrinkle. Shipped less glass. Size: 19"L.x5 1/4"W. Sh. wt. 4 lbs.

Black	Gray	Type	Net
40A148	40A149	PS-439	5.73

F Ventilated Door Rack Panels. Provide adequate ventilation. Panels are 19" long. Available in black or grey. Door opening: PS-814-15-3/8x6"; PS-815-15-3/8x7 1/4". Sh. wt. approx. 10 lbs.

Black	Gray	Type	Ht.	Net
40A099	40A100	PS-814	10 3/4"	5.73
40A101	40A102	PS-815	12 3/4"	6.32

G Ventilating Grille Panels. Made of 1/8" steel. Grille is stamped into panel itself, and recommended where additional ventilation is desired. Panels 19" long. Grille length 14-3/8". Black or grey wrinkle finish. Av. shpg. wt. 2 lbs.

Black	Gray	Type	Ht.	Net
40A089	40A090	PS-808	5 3/4"	2.59
40A091	40A092	PS-809	7"	2.79
40A093	40A094	PS-810	8 3/4"	3.38
40A095	40A096	PS-811	10 3/4"	3.58
40A097	40A098	PS-812	12 3/4"	3.82

H Chassis Mounting Brackets. Essential to insure proper support of chassis. MB-450 & MB-451 are designed for chassis ht. of 4". Sold only in pairs. Black finish. Av. sh. wt. 2 lbs.

Cat. No.	Type	Ht.	Wd.	Net
40A131	MB-458	6 1/4"	8"	.83
40A132	MB-448	6 1/4"	10"	1.08
40A133	MB-459	6 1/4"	11"	1.18
40A134	MB-449	6 1/4"	12"	1.42
40A135	MB-460	6 1/4"	13"	1.32
40A136	MB-450	8 3/4"	10"	1.57
40A137	MB-451	8 3/4"	13"	1.67

J Heavy Duty Chassis. Heavy duty chassis with bottom plates. Made of heavy gauge steel and have unusual sturdiness. Available in black wrinkle or zinc plate. Approx. shpg. wt. 10 lbs.

Cat. No.	Type	Size	Net
37A041	CB-1757	8x17x2"	2.84
37A043	CB-1758	8x17x3"	3.09
37A045	CB-1759	11x17x2"	3.23
37A047	CB-1760	11x17x3"	3.58
37A049	CB-1761	13x17x2"	3.92
37A051	CB-1762	13x17x3"	4.31
37A053	CB-1763	13x17x4"	4.74
Zinc Plated			
37A042	CB-1764	8x17x2"	2.84
37A044	CB-1765	8x17x3"	3.09
37A046	CB-1766	11x17x2"	3.23
37A048	CB-1767	11x17x3"	3.58
37A050	CB-1768	13x17x2"	3.92
37A052	CB-1769	13x17x3"	4.31
37A054	CB-1770	13x17x4"	4.74

K Triangular Brackets. Used when heavy weights are involved. Heavy steel and black finish. Sold in pairs only. Sh. wt. 1 lb.

Cat. No.	Type	H.	D.	Net
40A138	MB-1266	5"	5"	.78
40A139	MB-1267	7"	7"	.89
40A140	MB-1268	9"	9"	1.08

L Type CU Miniboxes. Permit installation of more components than would be possible in the conventional designed box of the same size. 2-piece construction. Heavy gauge aluminum. Av. sh. wt. 1 1/4 lbs.

Cat. No.	Type	W.	H.	L.	Net
48A001	2100	2-1/8x1-5/32x2 1/2"			.64
48A002	2101	2-1/8x1-5/8x3 1/2"			.65
48A003	2102	2-1/8x1-5/8x4 1/2"			.69
48A004	2103	2 1/2x2 1/4x4"			.85
48A005	2104	2 1/2x2 1/4x5"			.88
48A006	2105	4x3x5"			.97
48A007	2106	3x2-1/8x5 1/4"			.94
48A008	2107	5x4x6"			1.51
48A009	2108	5x3x7"			1.35
48A010	2109	6x3 1/2x8"			1.97
48A011	2110	6x3 1/2x10"			2.44
48A012	2111	7x4x12"			2.88
48A013	2112	5x4x17"			3.38
Etched					
48A014	3000	2-1/8x1-5/42x2 1/2"			.56
48A015	3001	2-1/8x1-5/8x3 1/2"			.56
48A016	3002	2-1/8x1-5/8x4 1/2"			.59
48A017	3003	2 1/2x2 1/4x4"			.76
48A018	3004	2 1/2x2 1/4x5"			.82
48A019	3005	4x3x5"			.91
48A020	3006	3x2-1/8x5 1/4"			.88
48A021	3007	5x4x6"			1.12
48A022	3008	5x3x7"			1.24
48A023	3009	6x3 1/2x8"			1.85
48A024	3010	6x3 1/2x10"			2.03
48A025	3011	7x4x12"			2.59
48A026	3012	5x4x17"			3.00

CHASSIS - PLATES

STEEL CHASSIS BASES



Made from one piece steel. All corners are reinforced and spot welded. Permits a bottom plate to be attached. Black wrinkle or zinc.

Black

No.	Type	D.	W.	H.	Gauge	Lbs.	Net
40A150	CB-628	5"	7"	2"	22	1 1/4	.83
40A152	CB-644	5"	9 1/2"	2 1/2"	22	1 1/4	.88
40A154	CB-788	5"	9 1/2"	1 1/2"	22	1	.78
40A156	CB-604	5"	10"	3"	22	1 1/4	1.03
40A158	CB-789	7"	7"	2"	22	1 1/4	.88
40A160	CB-790	7"	9"	2"	22	1 1/4	1.03
40A162	CB-791	7"	11"	2"	20	1 1/4	1.08
40A164	CB-792	7"	12"	3"	20	2 1/4	1.23
40A166	CB-646	7"	13"	2"	20	2	1.18
40A168	CB-647	5"	13 1/2"	2 1/2"	20	1 1/4	1.28
40A170	CB-649	7"	15"	3"	20	3	1.42
40A172	CB-665	8 1/2"	15"	3"	20	3	1.62
40A174	CB-1068	4"	17"	3"	20	2 1/4	1.28
40A176	CB-648	7"	17"	2 1/2"	20	3	1.52
37A001	CB-701	8"	10"	2 1/2"	20	2	1.39
37A003	CB-703	8"	12"	2 1/2"	20	1 1/4	1.47
37A005	CB-650	8"	17"	2"	20	3	1.42
37A007	CB-651	8"	17"	3"	20	3 1/4	1.52
37A009	CB-652	10"	12"	3"	20	3	1.47
37A011	CB-653	10"	14"	3"	20	2	1.57
37A013	CB-654	10"	17"	2"	20	3 1/4	1.57
37A015	CB-636	10"	17"	3"	20	4 1/4	1.57
37A017	CB-655	10"	17"	3"	18	5 1/4	1.81
37A019	CB-656	10"	23"	3"	18	6 1/4	2.39
37A021	CB-657	11"	17"	2"	18	4 1/4	1.96
37A023	CB-658	11"	17"	3"	18	4 1/4	2.16
37A025	CB-663	12"	17"	2"	18	4 1/4	1.67
37A027	CB-664	12"	17"	3"	18	5	1.96
37A029	CB-659	13"	17"	2"	18	4 1/4	2.30
37A031	CB-660	13"	17"	3"	18	5 1/4	2.50
37A033	CB-640	10"	17"	4"	18	6	2.00
37A035	CB-642	13"	17"	4"	18	7 1/4	2.94
37A037	CB-623	10"	17"	5"	18	6 1/4	3.58
37A039	CB-625	13"	17"	5"	18	7 1/4	3.92

Zinc

40A151	CB-629	5"	7"	2"	22	1 1/4	.83
40A153	CB-645	5"	9 1/2"	2 1/2"	22	1 1/4	.88
40A155	CB-776	5"	9 1/2"	1 1/2"	22	1	.78
40A157	CB-605	5"	10"	3"	22	1 1/4	1.03
40A159	CB-1191	7"	7"	2"	22	1 1/4	.88
40A161	CB-1192	7"	9"	2"	22	1 1/4	1.03
40A163	CB-1193	7"	11"	2"	20	1 1/4	1.08
40A165	CB-793	7"	12"	3"	20	2 1/4	1.23
40A167	CB-1194	7"	13"	2"	20	2	1.18
40A169	CB-1198	5"	13 1/2"	2 1/2"	20	1 1/4	1.28
40A171	CB-1189	7"	15"	3"	20	3	1.42
40A173	CB-666	8 1/2"	15"	3"	20	3	1.62
40A175	CB-1066	4"	17"	3"	20	2 1/4	1.28
40A177	CB-1199	7"	17"	2 1/2"	20	3	1.52
37A002	CB-702	8"	10"	2 1/2"	20	2	1.39
37A004	CB-704	8"	12"	2 1/2"	20	1 1/4	1.47
37A006	CB-774	8"	17"	2"	20	3	1.42
37A008	CB-775	8"	17"	3"	20	3 1/4	1.52
37A010	CB-1195	10"	12"	3"	20	3	1.47
37A012	CB-779	10"	14"	3"	20	2	1.57
37A014	CB-769	10"	17"	2"	20	3 1/4	1.57
37A016	CB-637	10"	17"	3"	20	4 1/4	1.57
37A018	CB-1196	10"	17"	3"	18	5 1/4	1.81
37A020	CB-1197	10"	23"	3"	18	6 1/4	2.39
37A022	CB-770	11"	17"	2"	18	4 1/4	1.96
37A024	CB-771	11"	17"	3"	18	4 1/4	2.16
37A026	CB-661	12"	17"	2"	18	4 1/4	1.67
37A028	CB-662	12"	17"	3"	18	5	1.96
37A030	CB-772	13"	17"	2"	18	4 1/4	2.30
37A032	CB-773	13"	17"	3"	18	5 1/4	2.50
37A034	CB-641	10"	17"	4"	18	6	2.00
37A036	CB-643	13"	17"	4"	18	7 1/4	2.94
37A038	CB-624	10"	17"	5"	18	6 1/4	3.58
37A040	CB-826	13"	17"	5"	18	7 1/4	3.92

ALUMINUM CHASSIS

Construction is the same as steel chassis. Gauges listed below are aluminum gauges.



No.	Type	D.	W.	H.	Gauge	Lbs.	Net
47A004	AC-402	5"	7"	2"	18	1 1/4	.82
47A006	AC-403	5"	9 1/2"	2"	18	1 1/4	.97
47A007	AC-421	5"	9 1/2"	3"	18	1 1/4	1.15
47A008	AC-404	5"	10"	3"	18	1 1/4	1.22
47A009	AC-422	5"	13"	3"	18	2	1.27
47A011	AC-405	7"	7"	2"	18	1	.98
47A012	AC-406	7"	9"	2"	18	1	1.06
47A013	AC-407	7"	11"	2"	18	1 1/4	1.18
47A014	AC-408	7"	12"	3"	18	2	1.42
47A015	AC-409	7"	13"	2"	18	2	1.24
47A016	AC-411	7"	15"	3"	16	2	2.00
47A017	AC-423	7"	17"	3"	16	2	2.01
47A018	AC-424	8"	12"	3"	16	2	1.80
47A019	AC-425	8"	17"	2"	16	2	1.85
47A020	AC-412	8"	17"	3"	16	2	2.18
47A021	AC-413	10"	12"	3"	16	2	2.01
47A022	AC-414	10"	14"	3"	16	2	2.35
47A023	AC-415	10"	17"	2"	16	2	2.24
47A024	AC-416	10"	17"	3"	16	2	2.53
47A025	AC-426	11"	17"	2"	14	2	2.42
47A026	AC-417	11"	17"	3"	14	2	2.94
47A027	AC-418	12"	17"	3"	14	2	3.12
47A028	AC-419	13"	17"	2"	14	2	2.76
47A029	AC-420	13"	17"	3"	14	2 1/4	3.29
47A030	AC-427	10"	17"	4"	14	3	2.91
47A031	AC-428	13"	17"	4"	14	3	3.76

REMOVABLE TOP CHASSIS

Average shpg. wt. for removable top chassis is 8 1/2 lbs. Average shpg. wt. for replacement top chassis is 4 lbs.



Bk.	Type	Zinc	Type	D.	W.	H.	Net
37A055	CB-196	37A056	CB-193	10"	17"	3"	3.23
37A057	CB-197	37A058	CB-194	10"	17"	4"	3.58
37A059	CB-251	37A060	CB-210	13"	17"	3"	3.38
37A061	CB-252	37A062	CB-211	13"	17"	4"	4.17

REPLACEMENT CHASSIS TOPS

40A129	RT-198	40A130	RT-195	10"	17"	1/16"	1.23
40A129	RT-253	40A130	RT-212	13"	17"	1/16"	1.52

CHASSIS BOTTOM PLATES

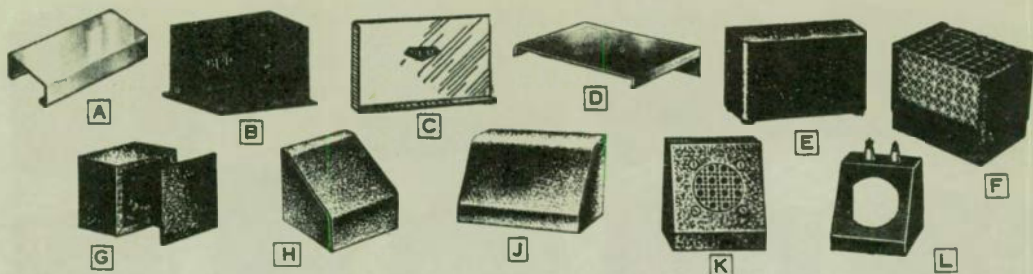
Protects wiring and parts under the chassis from dust. Each plate has four formed bosses that prevents sharp edges from scratching.



Black: Stock No. 40A127 Zinc: Stock No. 40A128

Black	Zinc	Type No.	Type No.	W.	L.	Wt.	Net
BP-705	BP-706	5"	7"	1 lb.			.45
BP-680	BP-667	5"	9 1/2"	1			.46
BP-536	BP-538	5"	10"	1			.45
BP-681	BP-668	7"	7"	1			.66
BP-682	BP-669	7"	9"	1			.66
BP-683	BP-670	7"	11"	1			.70
BP-537	BP-539	7"	12"	1 1/4			.67
BP-684	BP-671	7"	13"	2			.74
BP-685	BP-672	5"	13 1/4	1			.59
BP-516	BP-513	7"	15"	2			.74
BP-541	BP-540	8 1/2"	15"	2			.74
BP-1069	BP-1067	4"	17"	2			.59
BP-686	BP-673	6"	17"	2			.84
BP-707	BP-708	8"	10"	1			.74
BP-709	BP-710	8"	12"	2			.84
BP-687	BP-674	8"	17"	2			.88
BP-688	BP-675	10"	12"	2			.88
BP-517	BP-514	10"	14"	2			.90
BP-689	BP-676	10"	17"	2			1.08
BP-690	BP-677	11"	17"	2			1.08
BP-691	BP-678	12"	17"	3			1.18
BP-692	BP-679	13"	17"	3			1.37
BP-518	BP-515	10"	23"	3			1.47

CABINET ACCESSORIES — CHASSIS



A Aluminum Miniature Chassis. Just the thing for miniature tube applications or sub-miniatures. Made of hard aluminum with $\frac{1}{8}$ " flange on the bottom. Useful where space is limited. Finish is etched aluminum. Average shpg. wt. $1\frac{1}{2}$ lbs.

Cat. No.	Type	D. W. H.	Fits Cab. No.	Net
38A001	CB-1623	2-5/8x2 $\frac{1}{2}$ x1 $\frac{1}{4}$ "	39A019	.29
38A002	CB-1624	1 $\frac{1}{2}$ x3-1/8x1"	41A001	.32
38A003	CB-1625	3 $\frac{1}{4}$ x4 $\frac{1}{2}$ x2"	39A021	.35
38A004	CB-1626	2 $\frac{1}{4}$ x4-1/8x1"	41A002	.35
38A005	CB-1627	3 $\frac{1}{4}$ x4-1/8x1 $\frac{1}{2}$ "	41A003	.35
38A006	CB-1628	3x6-1/8x1 $\frac{1}{4}$ "	39A020	.41
38A007	CB-1629	5 $\frac{1}{4}$ x4-7/8x1 $\frac{1}{2}$ "	41A004	.44
38A008	CB-1617	4x3-1/8x1"	39A009	.35
38A009	CB-1618	4x4-1/8x1"	39A010	.38
38A010	CB-1619	4x5-1/8x1"	39A011	.41
38A011	CB-1620	4x6-1/8x1"	39A012	.44

A Open End Chassis. U shaped construction is used and for extra strength, ends are folded over $\frac{3}{8}$ " Electro-Zinc plate finish.

Cat. No.	Type	D.W.H.	Fits Cab. No.	Net
37A063	CB-38	7x6x2"	38A028	.65
37A064	CB-30	5x7x1 $\frac{1}{2}$ "		.59
37A065	CB-41	7x7x1 $\frac{1}{2}$ "	38A033	.73
37A066	CB-39	7x8x2"	38A029	.82
37A067	CB-996	5 $\frac{1}{2}$ x9x1 $\frac{1}{2}$ "	38A034	.68
37A068	CB-978	7 $\frac{1}{2}$ x9x1 $\frac{1}{2}$ "	41A019	.93
37A069	CB-40	7x10x2"	38A030	.88
37A070	CB-997	7x11x1 $\frac{1}{2}$ "	38A035 & 41A020	.98
37A071	CB-998	7x13x1 $\frac{1}{2}$ "	38A036 & 41A021	1.14
37A072	CB-34	10 $\frac{1}{2}$ x14x2"	38A038	1.41
37A073	CB-35	7 $\frac{1}{2}$ x15x2"	38A037	1.35

B Box Shields. No. 38A025 has perforated steel ends for ventilation. 38A026 has solid ends. Available in black wrinkle enamel only.

Cat. No.	Type	L.	D.	H.	Lbs.	Net
38A025	BS-1244	7 $\frac{1}{2}$ "	4 $\frac{1}{2}$ "	5"	1 $\frac{1}{4}$	2.28
38A026	BS-1891	7 $\frac{1}{2}$ "	4 $\frac{1}{2}$ "	5"	1 $\frac{1}{4}$	1.62

C Interstage Shields. Useful on receiver and transmitter chassis for eliminating interstage and isolating individual circuits. Formed angles on the front & bottom. Both angles punched with two mounting holes.

Cat. No.	Type	Height	Depth	Lbs.	Net
40A145	IS-1246	5 $\frac{1}{2}$ "	7"	3/4	.59
40A146	IS-1247	5 $\frac{1}{2}$ "	10"	3/4	.65
40A147	IS-1245	6 $\frac{1}{2}$ "	10"	3/4	.59

D Chassis Decks. For use in carrying cases and utility cabinets. Folded $1\frac{1}{2}$ " on front, $\frac{1}{4}$ " on side and made from zinc-plated steel. Useful for supports and interstage shielding. Av. sh. wt. 1 lb.

Cat. No.	Type	W.	D.	Fits Cab. No.	Net
38A012	CB-522	4 $\frac{1}{2}$ "	5 $\frac{1}{2}$ "	41A004	.51
38A013	CB-523	4 $\frac{1}{2}$ "	4 $\frac{1}{2}$ "	41A005	.59
38A014	CB-524	6 $\frac{1}{2}$ "	6 $\frac{1}{2}$ "	41A006	.64
38A015	CB-525	5 $\frac{1}{2}$ "	5 $\frac{1}{2}$ "	41A007 & 39A024	.59
38A016	CB-526	8 $\frac{1}{2}$ "	7 $\frac{1}{2}$ "	41A008	.90
38A017	CB-527	9 $\frac{1}{2}$ "	7 $\frac{1}{2}$ "	41A009	.93
38A018	CB-528	7 $\frac{1}{2}$ "	8 $\frac{1}{2}$ "	41A010	.73
38A019	CB-36	6 $\frac{1}{2}$ "	6 $\frac{1}{2}$ "	39A026	.65
38A020	CB-37	8 $\frac{1}{2}$ "	6 $\frac{1}{2}$ "	39A027	.80

E Multi-Purpose Cabinets. Handsome streamlined metal cabinet finished in grey wrinkle. Back of cabinet open for ventilation.

Cat. No.	Type	H. W.	Use Chass. No.	Lb. Net
39A019	C-1784	4 $\frac{1}{2}$ x3-5/8x3-1/8"	38A001	3 1.62
39A020	C-1785	4 $\frac{1}{2}$ x7-1/8x3-1/8"	38A006	3 $\frac{1}{2}$ 1.87
39A021	C-1788	6 $\frac{1}{2}$ x5 $\frac{1}{2}$ x3 $\frac{1}{4}$ "	38A003	4 1.72

F Amplifier Foundation. The chassis is 5x7x2 $\frac{1}{2}$ " The cover is made of perforated metal. Streamlined handle. Black wrinkle finish. 6"H.x7"W.x5"D. Shpg. wt. 2 lbs.

Cat. No.	Type	Chass. Ht.	Net
39A031	CA-1754	2"	3.43

G Miniature Utility Cabinets (With Attached Chassis) Front and rear panels are removable and fasten with self-tapping screws. Useful for HF converters and power supplies. Finished in black wrinkle.

Cat. No.	Type	H.W.D.	Chass. Size	Lbs.	Net
39A013	C-1793	4x4x2"	1x3-1/8x1-7/8"	2	1.03
39A014	C-1794	4x5x3"	1x4-1/8x2-7/8"	2 $\frac{1}{2}$	1.13
39A015	C-1795	5x4x3"	1 $\frac{1}{2}$ x3-1/8x2-7/8"	3	1.13
39A016	C-1796	6x5x4"	1 $\frac{1}{2}$ x4-1/8x3-7/8"	3 $\frac{1}{2}$	1.40
39A017	C-1797	5x6x4"	1 $\frac{1}{2}$ x5-1/8x3-7/8"	3 $\frac{1}{2}$	1.40
39A018	C-1798	6x6x6"	1 $\frac{1}{2}$ x4-7/8x5-7/8"	3 $\frac{1}{2}$	1.45

H Sloping Panel Utility Box. Provides enough space to house a 2 or 3 miniature tube amplifier or gage. $\frac{3}{8}$ " flange around the rear opening of the cabinet provides a convenient back cover mounting. Finished in black wrinkle. Av. sh. wt. 2 $\frac{1}{2}$ lbs.

Cat. No.	Type	H.W.D.	Use Chass. No.	Net
39A009	C-1602	4x4x4 $\frac{1}{4}$ "	38A008	1.18
39A010	C-1603	4x5x4 $\frac{1}{4}$ "	38A009	1.28
39A011	C-1604	4x6x4 $\frac{1}{4}$ "	38A010	1.37
39A012	C-1605	4x7x4 $\frac{1}{4}$ "	38A011	1.47

J Sloping Panel Utility Cabinet. A metal box that can be used for numerous purposes. Finished in black wrinkle enamel only. Sh. wt. 2 lbs.

Cat. No.	Type	Height	Width	Depth	Net
39A005	C-1578	4 $\frac{1}{2}$ "	4"	4"	.98
39A006	C-1579	4 $\frac{1}{2}$ "	5"	4"	1.13
39A007	C-1580	4 $\frac{1}{2}$ "	6"	4"	1.29
39A008	C-1581	4 $\frac{1}{2}$ "	7"	4"	1.56

K Midget Speaker Cases. A safe, convenient housing for midget 2" and 3" speakers. Size: 4" wide, 4" deep, and 4 $\frac{1}{4}$ " high. Finished in black wrinkle only. Sh. wt. $1\frac{1}{4}$ lbs.

Cat. No.	Type	Hole Dia.	Spkr. Size	Net
38A039	CS-1685	2-3/16"	2"	1.47
38A040	CS-1686	2-13/16"	3"	1.47

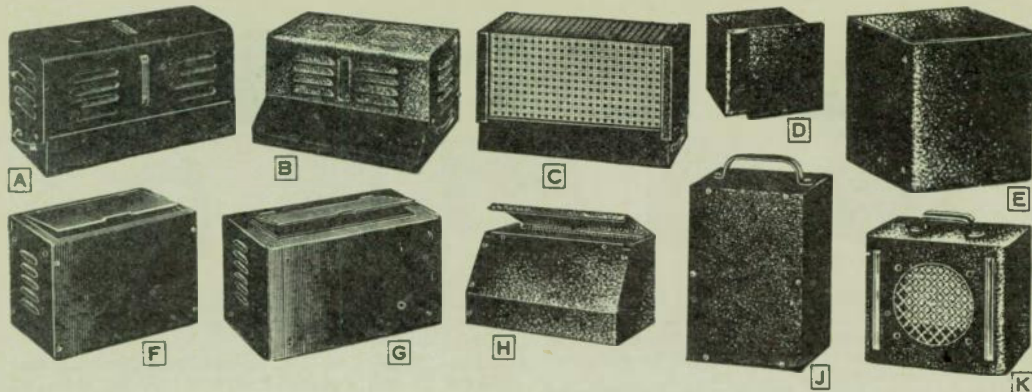
L Streamlined Meter Cases. All cases have a sloping front with top corner rounded. Meter cases 39A001 and 39A002 have insulators on top for leads to meter. 39A003 and 39A004 are furnished without insulators. Black wrinkle finish.

Cat. No.	Type	Hole Dia.	Fits Meter Size	Lb. Net
39A001	CM-1241	2-3/16"	2"	4 1.23
39A002	CM-1242	2-13/16"	3"	4 1.23
39A003	CM-1965	2-3/16"	2"	4 .93
39A004	CM-1966	2-13/16"	3"	4 .93

ITS EASY TO BUY FROM WRL

World Radio History

CABINETS — SPEAKER CASES



A Streamlined Amplifier Foundations. Each consists of a standard chassis on which is mounted a removable top cover. Chromium trim. All chassis are 3" high. Handles are on chassis except on type CA-1750 where handle is on top. Grey Wrinkle.

No.	Type	Width	Depth	Lbs.	Net
41A028	CA-1750	10-1/16"	5"	6	3.72
41A029	CA-1751	12-1/16"	7"	7	4.96
41A030	CA-1752	17-1/16"	7"	10	5.39
41A031	CA-1753	17-1/16"	10"	11	6.20

B Sloping Panel Amplifier Foundations. Consists of a 4" sloping chassis on which is mounted a removable top cover. Type CA-1980 has a handle mounted on chassis. Chassis are 3 1/4" high and all units are 9 1/4" overall height. Cover is finished in grey wrinkle with chrome trim. Chassis is black wrinkle.

No.	Type	Depth	Length	Depth	Lbs.	Net
41A032	CA-1980	5"	10"	8"	6	5.49
41A033	CA-1981	7"	12"	10"	8	6.40
41A034	CA-1982	7"	17"	10"	10	7.41
41A035	CA-1983	10"	17"	13"	12	8.09

C Amplifier Foundations. Consists of regular chassis and attached perforated cover. Handles on chassis. Black wrinkle. *2 1/2" chassis ht. †3" chassis ht.

No.	Type	H.	W.	D.	Lbs.	Net
41A036	*CA-699	8-5/16x9-5/8x5-1/8"			4	3.77
41A037	*CA-1125	8-5/16x13-5/8x5-1/8"			5	4.17
41A038	*CA-1126	8-5/16x17-1/8x7-1/8"			7	5.39
41A039	†CA-1127	8-13/16x17-1/8x10-1/8"			10	7.01
41A040	†CA-1128	8-13/16x12-1/8x10-1/8"			8	5.93

D Metal Utility Cabinets. Useful for all sorts of electronic equipment. 2 removable sides. Black wrinkle. Av. sh. wt. 3 1/4 lbs.

Cat. No.	Type	Depth	Width	Height	Net
41A001	CU-883	2	4	4	.83
41A002	CU-728	3	5	4	.93
41A003	CU-729	4	5	6	1.18
41A004	CU-1098	6	6	6	1.28
41A005	CU-1099	5	6	9	1.82
41A006	CU-879	7	8	10	2.25
41A007	CU-1124	6	7	12	2.41
41A008	CU-880	8	10	10	2.86
41A009	CU-881	8	11	12	3.53
41A010	CU-882	7	9	15	4.02

E Scope and Utility Cabinets. Adaptable to a variety of uses. With chassis. CU-1991: chassis ht. 2" and designed for 3" cathode ray tube. CU-1992: chassis ht. 3" and for 5" cathode ray tube. Both have hinged cover. Other have 1 1/2" chassis ht.

Cat. No.	Type	Width	Depth	Height	Lbs.	Net
41A011	CU-1990	5 1/2"	8 1/2"	8"	4	3.43
41A012	CU-1984	7 1/2"	8 1/2"	8"	4 1/4	3.45
41A013	CU-1985	9 1/2"	8 1/2"	8"	5 1/4	3.84
41A014	CU-1986	11 1/2"	8 1/2"	8"	6	4.21
41A015	CU-1987	13 1/2"	8 1/2"	8"	7	4.90
41A016	CU-1988	15-1/8"	8 1/2"	8"	7 1/2	5.39
41A017	CU-1989	17-1/8"	8 1/2"	8"	8 1/2	6.13
38A021	CU-1991	7 1/2"	13"	8"	7 1/4	5.88
38A022	CU-1992	9 1/2"	19"	12"	14 1/4	7.84

F Receiver Cabinets. Has an evenly recessed hinged cover with convenient finger lift. Louvers provide ample ventilation. Black wrinkle only. All are 8" deep except type C-975 which is 11" deep. Less chassis.

No.	Type	Height	Width	Lbs.	Net
38A033	C-973	7"	8"	4 1/2	3.14
38A034	C-993	7"	10"	5	3.41
38A035	C-994	7"	12"	5 1/2	3.92
38A036	C-995	7"	14"	6 1/4	4.12
38A037	C-1190	8"	16"	7 1/2	5.88
38A038	C-975	9"	15"	9 1/4	5.88

G Streamlined Cabinets. Rounded front corners—recessed hinged top. Overall ht. 8", depth 8 1/4". Less chassis. All are black wrinkle except, *has 1/2" vertical chrome strip at each side of panel, and is grey wrinkle. Av. wt. 5 lbs.

No.	Type	Panel Size	Cab. Width	Net
41A018	C-1789	8x8"	10 1/4"	3.19
41A019	C-1746	8x10"	12 1/2"	3.92
41A020	C-1747	8x12"	14 1/2"	4.41
41A021	C-1748	8x14"	16 1/2"	5.05
41A022	C-1790	8x16"	18 1/2"	5.64
41A023	*C-1791	8x8"	10 1/4"	4.09

H Sloping Metal Cabinets. The entire front panel is removable if desired. This cabinet is also provided with a hinged top for easy accessibility. Black wrinkle only. Average shpg. wt. 3 lbs.

No.	Type	H.	W.	D.	Fits Chassis	Net
38A028	C-1584	6 1/2x7-1/16x7 1/4"			7x6x2"	3.09
38A029	C-1585	6 1/2x9-1/16x7 1/4"			7x8x2"	3.51
38A030	C-1586	6 1/2x11-1/16x7 1/4"			7x10x2"	3.88
38A031	C-1892	8x13-1/16x8 1/4"			8x12x2 1/2"	4.66
38A032	C-1893	10x18-1/16x10 1/4"			10x17x3"	6.53

J Metal Carrying Cases. Easy grip handle on top. Steel welded construction. Front and back panels removable. Black wrinkle. Av. sh. wt. 3 1/4 lbs.

Cat. No.	Type	Depth	Width	Height	Net
39A022	CC-1095	5"	6"	9"	2.43
39A023	CC-1091	5"	9"	6"	2.43
39A024	CC-1096	6"	7"	12"	2.84
39A025	CC-1092	6"	12"	7"	3.35
39A026	CC-1097	7"	7 1/2"	15"	3.53
39A027	CC-1100	8"	10"	10"	3.35
39A028	CC-1093	7"	15"	9"	4.90

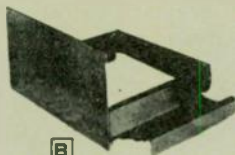
K Streamlined Speaker Cases. No baffle required. Front vertical corners rounded and metal grille on speaker opening. Two strips of chrome trim on front. Speaker cases drilled to take the size of speaker intended for the case. Black wrinkle finish.

No.	Type	Hole Size	Spkr. Size	Lb.	Net
41A041	CS-1935	4 1/2"	6"	3 1/2	3.43
41A042	CS-1936	6 1/2"	8"	5	4.41
41A043	CS-1937	8-13/16"	10"	7 1/2	5.59
41A044	CS-1938	11"	12"	9 1/2	6.86

RACKS - CHASSIS - ACCESSORIES



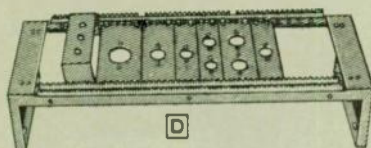
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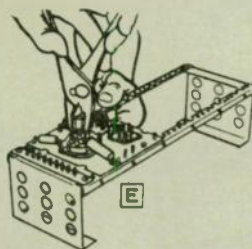
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E



F

PREMIER METAL PRODUCTS

A Desk Racks. Supplied in knocked-down form.

Front vertical corners are rounded and the top and bottom are trimmed with red-stripped chrome finish moulding. Constructed of 16 gauge steel. Panels fit into a recess so that the edges are not exposed. Panel mounting holes are tapped for 10/32 machine screws on Universal Spacings. Top door opens to 90° and utilizes piano type hinges. All cabinets are 21½" wide by 15¼" deep. Use standard 19" rack panels. Grey wrinkle finish.

Cat. No.	Model	Panel	Ov. Hgt.	Lbs.	Net
200AF036	SDRK-80	8¾"	10½"	24	15.29
200AF037	SDRK-100	10½"	12½"	26	17.15
200AF038	SDRK-120	12½"	14"	28	17.79
200AF039	SDRK-140	14"	15½"	32	19.40

B Record Changer Drawers. Fit standard 19" enclosed relay rack cabinets. Panel made of 12 gauge steel; chassis of 16 gauge steel and has 1" flange on top and bottom to accommodate plywood for the record changer. Chassis is mounted on ball bearing suspension slides which can sustain 40 lbs. Drawer extends 11" from front of cabinet. Entire unit mounts on angle brackets which can be bolted to the side of the cabinet. Grey wrinkle finish. Chassis size: (RD-10, 17x16½x3") (RD-12, 17x16½x4").

Cat. No.	Model	Panel	Lbs.	Net
200AF040	RD-10	10-3/8x18-7/8"	15	13.23
200AF041	RD-12	12-1/8x18-7/8"	18	14.70

Write For Complete Premier Catalog

C AMPHENOL SHEETS, TUBES AND RODS

Colorless Sheet Stock. Colorless and transparent and does not deteriorate with age. Continuous exposure to sunlight affects its clarity only slightly. Suitable for dial window and gauge glass applications. Shpg. wt. 4 oz.

No.	Type	Size	Net Per Sht.
10A001	19-0628	4x8x1/16"	.17
10A002	19-0938	4x8x3/32"	.21
10A003	19-1258	4x8x1/8"	.24
10A004	19-1878	4x8x3/16"	.29
10A005	19-2508	4x8x1/4"	.40

Polystyrene Tubes. Suitable for radio coil form and electronic applications. Supplied in 12" lengths. Wall thickness is 1/16". Shpg. wt. 6 oz.

No.	O.D.	Net	No.	O.D.	Net
10A026	1/4"	.10	10A030	5/8"	.31
10A027	5/16"	.14	10A031	3/4"	.39
10A028	3/8"	.18	10A032	1"	.55
10A029	1/2"	.26			

Polystyrene Rods—12" Lengths

No.	O.D.	Net	No.	O.D.	Net
10A010	1/8"	.03	10A015	1/2"	.47
10A011	3/16"	.07	10A016	5/8"	.71
10A012	1/4"	.12	10A017	3/4"	.98
10A013	5/16"	.18	10A018	7/8"	1.39
10A014	3/8"	.26	10A019	1"	1.86

D "Specific" Speed Chassis—Model C-100. Ideal for experimental and lab use. Series of tapped holes accommodate a wide variety of plates which are listed below. May be used for experimental circuits, temporary apparatus, permanent equipment, bench models, rack models. Heavy, cadmium plated 20 gauge steel. 4 insulated tie-point strips and 1 grounded tie-point strip. Drilled and tapped at each end for Jones 8-point terminal strip type 8-140. Size: 5x5¼x16-7/8". Shipping weight is 2½ lbs. 84A001, Net 6.00

Mounting plates. All are made of 20 gauge steel, heavily cadmium plated for easy soldering. *Recessed to take Vector type sockets. Size: 4-3/16" deep. Average shipping weight is 3 oz.

No.	Description	Width	Net
84A003	Single, 7-pin min. socket	1-1/8"	.20
84A004	Double, 7-pin min. socket	1-1/8"	.25
84A005	*Single, 7-pin turret lug	1-1/8"	.35
84A006	*Double, 7-pin turret lug	1-1/8"	.40
84A007	*Triple 7-pin turret lug	1-1/8"	.45
84A008	Single, 9-pin min. socket	1-5/8"	.23
84A009	Double 9-pin min. socket	1-5/8"	.28
84A010	*Single, 9-pin turret lug	1-5/8"	.35
84A011	*Double 9-pin turret lug	1-5/8"	.40
84A012	*Triple 9-pin turret lug	1-5/8"	.45
84A013	Single, octal socket. 1½" ctrs.	2-1/8"	.26
84A014	For 2 octal sock. 1½" ctrs.	2-1/8"	.31
84A015	Sing. octal socket. 1-5/16" ctrs. 2-1/8"	2-1/8"	.26
84A016	For 2 octal sock. 1-5/16" ctrs.	2-1/8"	.31
84A017	Universal Transformers (2)	1-1/8"	.35
84A018	Volume Control	1-1/8"	.35
84A019	Blank	1-1/8"	.15
84A020	Blank	1-5/8"	.18
84A021	Blank	2-1/8"	.21

Rack Brackets. Designed for mounting chassis in standard rack (2 required) Shpg. weight is ½ lb. 84A002, Net Per Pair. 1.00

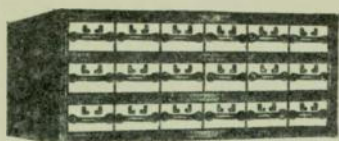
E Universal Circuit Breadboard. Enables the circuit design engineer, technician, ham or experimenter to easily build-up experimental circuits prior to prototype construction. Consists of chassis frame and an assortment of phenolic sub-chassis which are designed so the greatest assortment of tubes and components can be mounted with extreme speed and convenience. Shipping weight is 1½ lbs. 75A032, Net 12.50

F TUCO Terminal Strip Kit. Now you can design your own and tailor your own terminal strips. Each kit includes—150 No. 70 terminal pins, 100 No. 30 blade terminals, 50 No. 60 lug terminals, 50 No. 77 terminal jacks, 24 No. 40 mounting brackets, and 1 staking awl. Complete with 120 square inches of No. 10X blank terminal board (six 2x10" boards). Shpg. wt. approximately 1½ lbs. 75A033, Net 4.41

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World Radio History

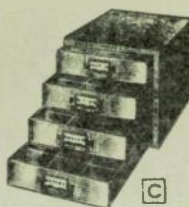
PARTS CABINETS — ACCESSORIES



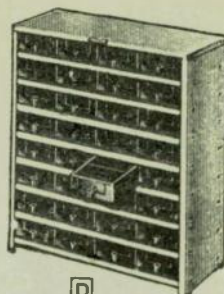
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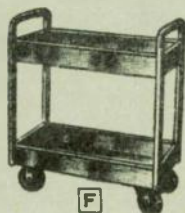
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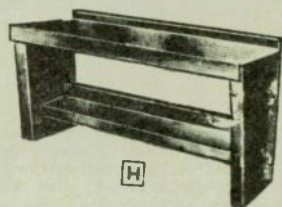
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G



H

A Equipto Storage Cabinet Model 11. The handiest unit you ever had for taking care of your small parts. Stack, use individually, or as an insert under counters and in shelving. Fits readily under counters, work benches, mailing tables, bolted to the wall—in any spot you need it. 34" wide, 13½" high and 12" deep. Each of the 18 drawers comes equipped with 2 adjustable and removable dividers—making 3 compartments per drawer. This makes a total of 54 adjustable compartments. Shipping weight is 62 lbs.
142AF005, Net. 23.35

Model 22, 18 drawer cabinet. 18" deep. Sh. wt. 95 lbs.
142AF006, Net. 34.95

B Equipto "Little Gem" Parts Cabinet Model 1. The ideal storage cabinet for small parts. This tiny parts cabinet is 3¼" high, 11" wide, and 11" deep. Two drawers—each 1½" high—are furnished with dividers providing for a total of 24 instantly adjustable individual compartments. Extra dividers may be added, making possible a total of 56 compartments per cabinet. Drawer stops prevent the drawers from coming out accidentally. No seams, slots or holes in compartments to damage parts. Shpg. wt. is 7 lbs.
142AF003, Net. 6.95

Model 2. Same as model 1 except 6½" high, 11" wide, and 11" deep. Four drawers with dividers providing for a total of 48 compartments. Extra dividers may be added making possible a total of 112 compartments. Shipping weight is 15 lbs.
142AF004, Net. 13.90

C Paragon Utility Cabinets. Ideal cabinets for storage of condensers, resistors, nuts, bolts, and other small items. Made of heavy gauge steel. Available in two types: blue and gray. The blue has four drawers: 6 compartments in 3 drawers, and no dividers in 4th drawer. Gray also has 4 drawers but each drawer consists of 8 compartments. Overall size: 8x6½x6". Shipping weight is 6 lbs.
45A006, (Blue) Net. 1.88
45A007, (Gray) Net. 2.36

D Akro-Mils Cabinets. Provide adequate storage for all small parts and are used by servicemen, professional men, hobbyists, and in the office & home. Drawers are supplied with removable dividers and construction is such that they can be stacked either side by side or on top of each other. Drawers are 5½" deep, 2¼" wide, and 1½" high.
45A001, (12 drawers) Sh. wt. 6 lbs. Net. 5.95
45A002, (16 drawers) Sh. wt. 8 lbs. Net. 6.95
45A003, (32 drawers) Sh. wt. 14 lbs. Net. 12.95

E Equipto Steel Shelving-871-8. Uprights are of high carbon 11 gauge steel. With 4 uprights on each unit. This makes each unit fully independent of adjoining unit for maximum adjustability. All shelves are adjustable on 1½" centers. The top, center and bottom shelves are bolted to the uprights to make a frame. Shelf flanges may be turned up to make 1" bin front or down to make flat shelf. Dimensions: 36" wide, 7-1½" high, and 12" deep. 8 shelves per unit. Shipping weight is approximately 82 lbs.
142AF013, F. O. B. Factory. 19.70

F Equipto Steel Trucks. These stock handling carts are ample in capacity, easy to move, streamlined in design and efficient in operation. Heavy steel construction with round beaded edges. Large 5" rubber tired wheels, stationary in front, swivel in rear. Model 150. 36" long, 24" wide, 36" high, for loads up to 600 lbs. with ample factor of safety. Baked enamel olive green finish. Top and bottom trays 4" deep. Shipping weight is 80 lbs.
142AF011, Net, F. O. B. Factory. 34.84
Model 145. 39" long, 16" wide, 36" high. Especially made for use in narrow aisles between rows of shelving and for handling tools. Sh. wt. 69 lbs.
142AF012, Net, F. O. B. Factory. 26.80

G Equipto Chassis and Test Equipment Stand-710. Test equipment stand for Radio, TV, and Electrical Equipment. Equipped with 2¼" rubber tires for noiseless transport of testing equipment, or equipment to be tested. Makes a wonderful handtruck for loading and unloading chassis to and from delivery trucks. Dimensions: 18" wide, 24" long, 34" high with casters. Olive green enamel finish. Shipping weight is 42 lbs.
142AF007, Net. 13.77

H Equipto Steel Work Benches. Model 217. All Wood Top. Heavy 12 gauge steel. Top consists of kiln dried maple strips 2x1½", waterproof glued and tied to insure lasting service. Ideal for electrical work, handling highly polished pieces, instruments and other fine work. May be bolted to the floor through concealed holes inside flange of end panel if desired. Easy to clean. Dimensions: 72" L., 28"W., 34"H. Less back rail. Shipping weight is 185 lbs.
142AF010, Net, F. O. B. Factory. 82.05

Model 216-6. Pressed Wood Top. Steel work bench same as above except masonite cemented firmly to top for cushioning impact. With back rail. Wt. 165 lbs.
142AF009, Net, F. O. B. Factory. 46.20
Model 215-6. Steel Top. All steel work bench similar to model 216 except with 12 gauge steel top. Excellent for supporting vises, small punch presses, bench grinders, etc. With back rail. Shpg. wt. 165 lbs.
142AF008, Net, F. O. B. Factory. 34.25

G-C RADIO HARDWARE

NET PER
ITEM **30c**

A complete assortment of hardware used in servicing. Packaged in handy hinged-cover plastic boxes. Average shipping weight is 3 oz.

NET PER
ITEM **30c**

SCREWS AND BOLTS



Cat. No.	Type	Fig.	Description	Quan.
0A150	H1000F	A	Assorted Machine Screws	50
0A151	H1002F	A	Assorted Screw & Nut	40
0A152	H1034F	A	4-36 1/2" Screws	35
0A153	H1066F	A	6-32 3/4" Screws	30
0A154	H1086F	A	8-32 3/4" Screws	25
0A155	H1108F	A	10-32 1" Screws	17
0A156	H1005F	B	Rack Screws & Washers	15
0A157	H1273F	B	10-32 x 3/4" Screws Only	20
0A158	H1250F	C	Asst. Ornamental Screws	25
0A159	H1255F	C	8-32 x 1-1/4"	20
0A160	H1300F	D	Asst. Sheet Metal Screws	25
0A161	H1364F	D	No. 6 x 1/2"	25
0A162	H1384F	D	No. 8 x 1/2"	20
0A163	H1404F	D	No. 10 x 1/2"	15
0A164	H1520F	E	Asst. Wood Screws	25
0A165	H1500F	F	Assorted Screws	25
0A166	H1570F	H	Assorted Spade Bolts	15
0A167	H1605F	G	Assorted Set Screws	15
0A168	H1623F	G	6-32 3/16" Set Screws	15
0A169	H1633F	G	8-32 3/16" Screws	15
0A170	H1644F	G	10-32 1/4" Screws	15
0A171	H1550F	J	Asst. Pho. Need. Set Screws	12

NUTS



Cat. No.	Type	Fig.	Description	Quan.
0A172	H1800F	K	Assorted Hex Nuts	30
0A173	H1805F	K	4-36 Hexagon Nuts	30
0A174	H1806F	K	6-32 Hexagon Nuts	35
0A175	H1808F	K	8-32 Hexagon Nuts	30
0A176	H1810F	K	10-32 Hexagon Nuts	30
0A177	H1920F	L	Assorted Mounting Nuts	15
0A178	H1960F	M	Assorted Speed Nuts	30
0A181	H1950F	N	Assorted Acorn Nuts	10
0A182	H1941F	O	Asst. Knurled Thumb Nuts	10
0A183	H1933F	P	6-32 Wing Nuts	15
0A184	H1934F	P	8-32 Wing Nuts	10
0A185	H1935F	P	10-32 Wing Nuts	8

SPRINGS



Cat. No.	Type	Fig.	Description	Quan.
0A186	H480F	Q	Assorted Knob Springs	18
0A187	H401F	R	Assorted Regular Dial Drive Springs	10
0A188	H400F	R	Assorted Small Dial Drive Springs	10
0A189	H421F	R	Assorted Large Tension Springs	10
0A190	H420F	R	Assorted Small Tension Springs	10
0A191	H450F	R	Assorted Small Tension Turntable Springs	10
0A192	H452F	R	Assorted Large Photo Turntable Springs	8
0A193	H440F	S	Assorted Small Compression Springs	10
0A194	H441F	S	Assorted Large Compression Springs	10

WASHERS



Cat. No.	Type	Fig.	Description	Quan.
0A195	H870F	T	Assorted Metal Washer	40
0A196	H918F	U	Assorted Lock Washers	65
0A197	H805F	V	Assorted Cup Washers	40
0A198	H810F	V	No. 10 Cup Washers	35
0A199	H750F	V	Assorted Spring Friction Washers	25
0A200	H770F	W	Assorted "C" Washers	25
0A201	H854F	X	Assorted Extruded & Flat Fibre Washers	30
0A202	H855F	X	Assorted Extruded Fibre Washers	30
0A203	H820F	Y	Asst. Flat Fibre Washers	35

MISCELLANEOUS HARDWARE, ETC.



Cat. No.	Type	Fig.	Description	Quan.
0A204	H300F	Z	Assorted Hole Plugs	8
0A205	H334F	AA	Ventilating Plugs	4
0A206	H370F	BB	Assorted Trimounts	20
0A207	H379F	BB	5/32" Trimounts	18
0A208	H745F	CC	Asst. Dial Cable Clips	30
0A209	H746F	CC	Very Small for No. 75 Cord	45
0A211	H100F	DD	Asst. Soldering Lugs	30
0A212	H102F	DD	1021-A Soldering Lugs	30
0A213	H500F	EE	Assorted Cable Clamps	20
0A214	H609F	FF	Assorted Grid Caps	10
0A215	H600F	GG	Assorted Fuse Clips	12
0A216	H590F	HH	Assorted Fahnestock Clips	15
0A217	H570F	JJ	Asst. Angles & Brackets	15
0A218	H630F	KK	Asst. Insulated Spacers & Bush.	12
0A219	H620F	KK	Asst. Metal Spacers & Bush.	12
0A220	H1966F	LL	Asst. Dial Pulleys	6
0A221	H740F	MM	Assorted Dust Felt	15
0A222	H526F	NN	Assorted Rivets & Eyelets	55
0A223	H744F	OO	Asst. Eyelets & Clamps	60
0A224	H074F	PP	Asst. Felt Pads	40
0A225	H071F	QQ	Rubber Tack Bumpers	10
0A226	H085F	RR	Asst. Chassis Felt Feet	6
0A227	H016F	SS	Gen. Indust. RX-LX Motors	2
0A229	H017F	SS	Alliance & Motorola Models	3
0A230	H018F	SS	R.C.A. & others	4
0A231	H019F	SS	Philco, R.C.A. etc.	4
0A232	H020F	SS	Detrola Rubber Drive	1
0A233	H025F	TT	Asst. Soft Grommets	15
0A234	H034F	TT	3/8" Pan. hole-1/4" Grom.ho.12	
0A235	H036F	TT	1/2" Pan. hole-3/8" Grom.ho.10	

SPAGHETTI AND CAMBRIC

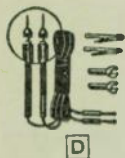


Cat. No.	Type	Fig.	Description	Net
0A237	550	UU	Assorted spaghetti. 7/4" lqths.	.29
0A236	549	VV	Cambric. 10000V. .010".210sq".	.42

ITS EASY TO BUY FROM WRL

World Radio History

ICA ALIGNING TOOLS



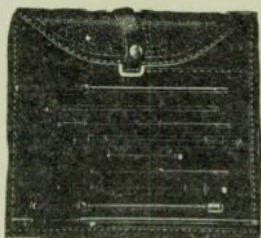
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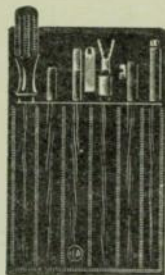
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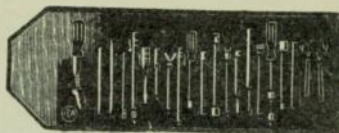
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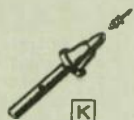
B



A



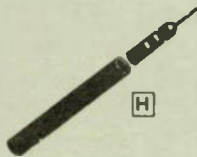
F



K



J



H



G

A Super Radio-TV Servicing and Aligning Tool Kit Type 6696. Consists of one of each of the following ICA tools: Nos. 6193, 6157, 1019, 978, 6247, 981, 6171, 6161, 6192, 6164, 6163, 6158, 935, 1039, 6248, 6156, 6249, 6170, 6162. A complete deluxe kit of 19 tools. Sh. wt. approx. 2 lbs.
10B110, Net..... 10.73

B Deluxe Neutralizing & Aligning Tool Kit Type 994. Consists of fourteen tools, most of which telescope into one another. Forms six units when assembled. Tools are complete with an attractive case. The complete kit can be kept in the pocket. Shipping weight is 1½ lbs.
10A109, Net..... 4.85

C Television Handi-Kit Type 6165. Consists of one of each of these ICA tools. Nos. 978, 6161, 6162, 6163, 6164, 6166, 6170, 6156, and 6157. Shipping weight is 1½ lbs.
10A111, Net..... 4.41

D Phono-Needle Point Test Leads Type 382. Flexible rubber-covered, kinkless wire. 48" long. Tenite handles 4" long. With phone tips. Shipping weight is 3 oz.
10A149, Net..... .71

E All Purpose Test Leads Type 312. Made of sturdy Tenite Tubing. Slim handles, 6" long. The overall length 7¼". Rubber covered wire 50" long. Shipping weight is 3 oz.
10A145, Net..... 1.79

F Unbreakable Test Prods. Long metal prods with shock-proof rubber handles. One end has standard needle point tips. Other end has insulated Solderless Plugs. Supplied with 50" Kinkless Rubber Wire. Shpg. wt. is 3 oz.
Cat. No. Type Description Net
10A147 332 With phone tips .73
10A146 331 Solderless plug ends .82

G Klipzon Test Prod. Stainless steel points, duralumin holder. 4¼" hand-4 ft. leads. Shpg. wt. is 4 oz.
10A151, (A) Net..... 1.95

H Fenoline Phono Needle Point Test Prods. With removable chuck. 5". Shipping weight is 2 ounces.
Cat. No. Type Color Net
10A132 389B Black .27
10A133 389R Red .27

J Solderless Plug Test Prod. Shipping weight is 3 oz.
Cat. No. Type Color Lgth. Net
10A136 390B Black 5¼" .27
10A137 390R Red 5¼" .27

K Test Prod Handles. 480 Blk. bakelite. Shipping weight is 3 oz.
10A140, Net..... .82

L Bakelite Test Prods. 2" long. Shpg. weight is 3 oz.
10A141, (485) Net..... .41

M Magic Tuning Alignment Tool Type 977. Consists of a Bakelite rod with a brass cylinder at one end, and a special finely divided iron core at the other end. Shipping weight is 3 oz.
10A097, Net..... .65

N Alignment Tool for Philco Receivers Type 1033. Has special designed metal clip for air trimmers. Made of narrow fibre rod, 7/32" dia. by 6" long. Shipping weight is 3 oz.
10A093, Net..... .39

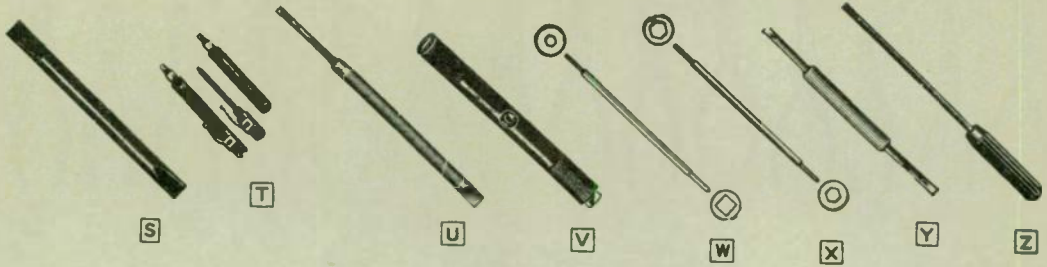
O Alignment Tool Type 6159. A new double edge fibre aligner. Measures 12" in length by 7/32" in diameter. Shipping weight is 4 oz.
10B094, Net..... .34

P All Purpose Aligning Tool Type 1002. 3/8" Fenoline handle. End has socket screwdriver for neutralizing. Shipping weight is 3 oz.
10A101, Net..... .50

Q Insulated Adjustable Neutralizing Tools Type 990. No metal parts. Screwdriver slides inside of neutralizing wrench. Shipping weight is 3 oz.
10A087, Net..... .50

R Neutralizing Tools. Type 1019. Insulated screwdriver and wrench. 4-in-1. Shipping weight is 3 oz.
10A105, Net..... .59

ICA ALIGNING TOOLS



S Bone Fibre Screwdriver—1039. Double edged, no metal, fully insulated. 1/4" bone fibre rod. Shipping weight is 3 oz.
10A085, Net27

T Neutralizing and Compensating Tool Type 1022. Similar to 1019 with additional all metal screwdriver. 5-in-1. Shipping weight is 8 oz.
10A106, Net98

U Alignment Tool Type 55. Has no capacity effect when aligning critical circuits. A necessary tool for anyone who must make adjustments on high frequency circuits. Shipping weight is 4 oz.
10A065, Net15

V Dual Aligner Type 6166. Dual purpose narrow shaft, for trimmers, IF transformers, etc. Recessed screw rib on one end, metal screwdriver on other end. Shipping weight is 3 oz.
10A092, Net51

W Hex-Square Aligner Type 6171. All bone fibre, iron core, designed for Raytheon-Belmont IF transformers and similar type transformers. 6" shaft, is 3/16" dia.; 3/32" hex one end and 1/8" square other end. Shipping weight is 3 oz.
10A083, Net73

X Hex Aligner Type 6199. Has 3/32" hex one end; 1/8" hex other end. Designed for Dumont, Raytheon-Belmont receivers, and similar types. Shaft 6" 3/16" diameter. Shipping weight is 3 oz.
10A084, Net81

Y All Purpose Aligner Type 6248. Screwdriver set in Red Tenite handle. Overall length 6", blade width 5/32" and tip thickness 1/64". Designed for Motorola and other popular receivers. Shipping weight is approximately 3 oz.
10A078, Net49

Z TV Channel Tuner Type 6157. Narrow all-insulated screwdriver of machined fibre. Ideal for deep inaccessible tuning. Overall length 7". 1/8" blade on 4 1/4" shaft. Shipping weight is 3 oz.
10A079, Net54

AA TV Tuning Sticks. 1/8" dia. 14" long tenite rods. Tippy stick: screwdriver ends. Diddle stick: steel tip one end, other hollow ground.
10A089, Diddle Stick. 2 oz., Net . . .35
10B090, Tippy Stick. 2 oz., Net . . .45

BB Big Stretch Aligner Type 6162. Extra long (9") thin, and 6 1/4" blade. For Admiral, Zenith, etc. Shipping weight is 3 oz.
10A082, Net71

CC Tuning Wand Type 6163. Extra thin diameter, flexible vinylite. Brass insert on one end, molded powered iron core in other end. For Zenith. Shipping weight is 3 oz.
10A098, Net34

DD Tuning Wrench Type 6164. Has extra thin recessed blade. Extra thin screwdriver blade on other end 4 1/4" long. Designed for Zenith TV sets, etc. Shipping weight is 3 oz.
10A080, Net47

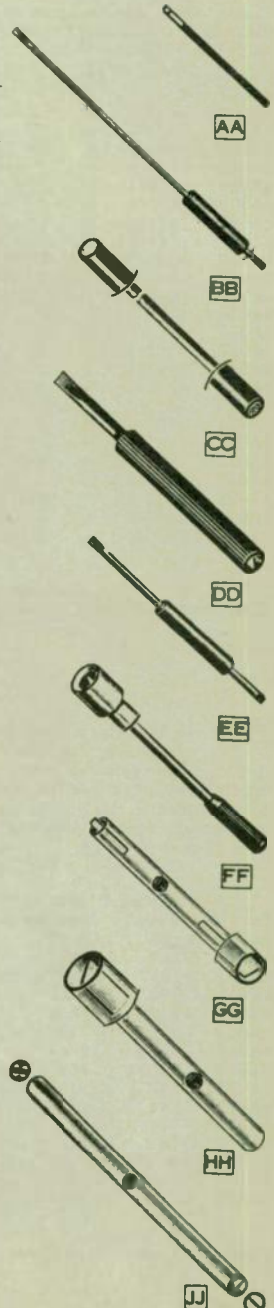
EE Tran-Aligner Type 978. For IF, RF, and K-Tran midget transformers, milled one end, screwdriver other end. Blade 2 1/4" L. 6" overall. Shipping weight is 3 oz.
10A077, Net50

FF Slim-Aligner Type 6161. Thin recessed blade and slim metal shaft. Fiber handle. Suitable for Admiral and similar TV sets. Shpg. weight is 3 oz.
10A102, Net65

GG Klear Aligner Type 6192. Clear plastic, all insulated aligning tool. Has recessed insulated blade on one end; extended blade on other end. Measures 7" L. x 7/32" Dia. Shipping weight is 3 oz.
10A066, Net59

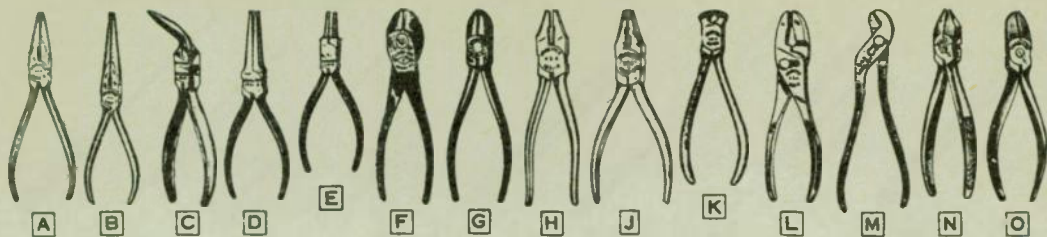
HH Klear Aligner Type 6193. Has two recessed blades set within rod ends, completely insulated. One blade suitable for No. 6 screw and smaller; other blade for No. 4 screw and smaller. Shaft is 7" x 7/32". Shipping weight is 3 oz.
10A067, Net59

JJ Klear Aligner Type 6194. Carries an extended blade at one end; brass slotted insert at other end. 12" x 7/32". For hard to reach spots. Shipping wt. is 5 oz.
10A068, Net81



ITS EASY TO BUY FROM WRL

RADIO SERVICE TOOLS



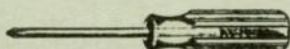
KRAUTER HIGH QUALITY TOOLS

These tools are designed to meet the requirements of industry and a great variety of working conditions in factories, etc. Drop forged steel. Scientifically heat-treated and hardened. *With side cutters. The average shipping weight is 10 oz.

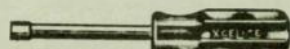
Cat. No.	Type	Fig.	Description	Net	Cat. No.	Type	Fig.	Description	Net
6A001	1641-5	A	5" Short Chain Nose*	2.21	6A028	1850-5	K	5" Nippers	2.45
6A002	1643-5	A	5" Short Chain Nose	2.25	6A029	1850-6	K	6" Nippers	2.84
6A003	1661-6	A	6" Long Chain Nose*	2.55	6A030	1850-7	K	7" Nippers	3.23
6A004	1671-6	A	6" Long Chain Nose	2.00	6A031	1850-8	K	8" Nippers	3.67
6A005	1781-7	B	7" Ex. Long Chn. Nose*	2.89	6A033	40-6	L	6" Gas Pliers—Thin Nose	1.40
6A006	1771-7	B	7" Ex. Long Chn. Nose	2.21	6A034	356-5½	L	5½" Comb. Pliers	1.66
6A007	1621-6	B	6" Snipe Nose	2.25	6A035	356-6	L	6" Comb. Pliers	1.87
6A008	1751-6	D	6" Long Flat Nose*	2.76	6A036	356-8	L	8" Comb. Pliers	2.34
6A009	1741-6	D	6" Long Flat Nose	2.00	6A038	1943	M	10" Engineers or Pump	2.45
6A010	1631-5½	C	5" Curved Snipe Nose	2.55	6A053	5601-4½	N	4½" Need. Point Cut.	2.55
6A012	1611-5	E	5" Rd. Nose—Rd. Jaw	2.65	6A054	5601-5	N	5" Need. Point Cut.	3.14
6A013	1611-6	E	6" Rd. Nose—Rd. Jaw	2.74	6A055	5601-6	N	6" Need. Point Cut.	3.04
6A015	4610-5	F	5" Cutters	2.21	6A056	5612-6½	O	6½" Stripping Diag.	3.40
6A016	4610-7	F	7" Cutters	2.55	6A057	82-4½	K	4½" Nippers	3.00
6A017	4501-4½	G	4½" Cutters	2.00	6A041	824-4½	A	4½" Short Need. Point*	2.55
6A018	4501-5	G	5" Cutters	2.26	6A043	825-5	A	5" Med. Need. Point*	2.77
6A019	4501-6	G	6" Cutters	2.55	6A044	835-5	A	5" Med. Need. Point*	2.34
6A020	2612-6½	G	6½" Stripping Diag.	2.89	6A045	826-6	A	6" Long Need. Point*	2.97
6A021	1801-6	H	6" Side Cut.—Lineman	2.55	6A046	836-6	A	6" Long Need. Point*	2.55
6A022	1801-7	H	7" Side Cut.—Lineman	2.97	6A047	827-7	B	7" Ex. Long Need. Point*	3.31
6A023	1801-8½	H	8½" Side Cut.—Lineman	3.74	6A048	837-7	B	7" Ex. Long Need. Point*	2.89
6A024	1830-5	J	5" Side Cut.—Elect.	2.12	6A049	83-4½	A	4½" Chain Nose	2.84
6A025	1830-6½	J	6½" Side Cut.—Elect.	2.34	6A051	85-4½	E	4½" Rd. Nose—Rd. Jaw	2.94
6A026	1830-7	J	7" Side Cut.—Elect.	2.55	6A050	84-4½	D	4½" Flat Nose	2.94
6A027	1830-8	J	8" Side Cut.—Elect.	2.89					



P



Q



R

XCELITE SCREWDRIVERS AND NUT DRIVERS

P Xcelite Shockless Screwdrivers.

An assortment of high quality screwdrivers to meet every application. The shafts are firmly embedded in the handle and will not break loose. Average shipping weight is 10 oz.

Square Blades			
Cat. No.	Type	Size Blade	Net
6A060	S-183	1/8x3"	.35
6A061	S-184	1/8x3"	.35
6A062	S-185	1/8x5"	.35
6A066	S-3163	3/16x3"	.53
6A067	S-3164	3/16x4"	.56
6A068	S-3166	3/16x6"	.65
6A069	S-3168	3/16x8"	.70
6A070	S-31610	3/16x10"	.76
6A071	S-142	¼x2"	.65
6A072	S-144	¼x4"	.67
6A073	S-146	¼x6"	.70
6A074	S-148	¼x8"	.79
6A076	S-5166	5/16x6"	.85
6A077	S-5168	5/16x8"	.91
6A079	S-388	3/8x8"	1.12

Stubblies			
Cat. No.	Type	Size Blade	Net
6A087	S-3161	3/16x1"	.38
6A088	S-141	1/4x1"	.44
6A089	S-5161	5/16x1"	.44

Round Blades			
Cat. No.	Type	Size Blade	Net
6A091	R-3322	3/32x2"	.18
6A092	R-3323	3/32x3"	.24
6A093	R-3324	3/32x4"	.24
6A094	R-181	1/8x2"	.18
6A095	R-183	1/8x3"	.24
6A097	R-184½	1/8x4"	.24
6A096	R-184	1/8x4"	.32
6A098	R-186	1/8x6"	.35
6A099	R-188	1/8x8"	.41
6A100	R-1810	5-32x10"	.47
6A101	R-5323	5/32x3"	.38
6A102	R-5324	5/32x4"	.38
6A103	R-5325	5/32x5"	.38
6A104	R-5328	5-32x8"	.47
6A105	R-3163	3/16x3"	.44
6A106	R-3164	3/16x4"	.47
6A107	R-3166	3/16x6"	.56
6A111	R-144	1/4x4"	.59
6A112	R-146	1/4x6"	.62

Q Phillips Screw Drivers. Special alloy steel. Sh. wt. is 6 oz.

Cat. No.	Type	Size	Net
6A117	X-108	1"	.67
6A118	X-101	1"	.62
6A119	X-102	2"	.79
6A120	X-103	3"	1.06

Short Stubby Type			
Cat. No.	Type	Size	Net
6A123	SSX-101	1"	.54
6A124	SSX-102	2"	.60

R Nut Drivers. New, larger, better gripping handles. Quality steel blades, double heat-treated. Highly polished. Av. sh. wt. 6 oz.

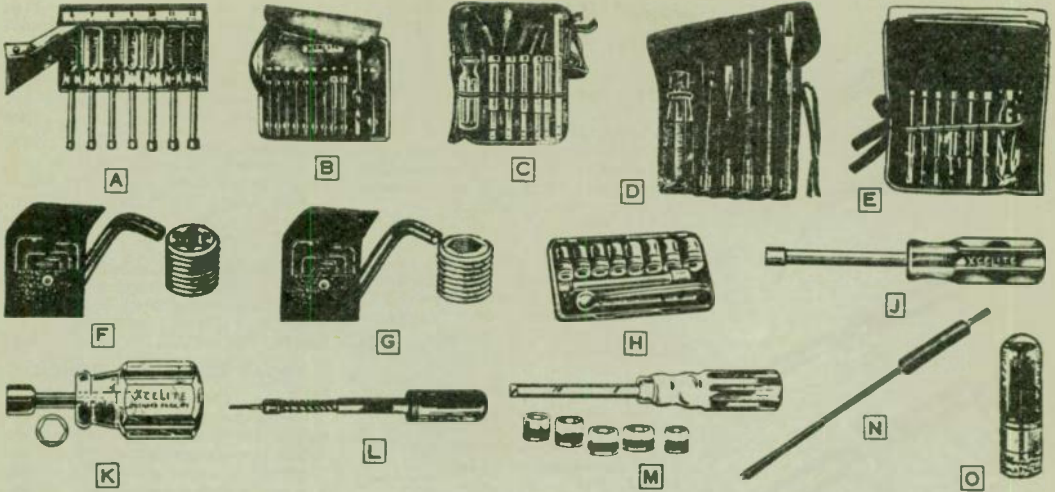
Cat. No.	Type	Size	Net
6A126	6	3/16	.56
6A127	7	7/32	.56
6A128	8	1/4	.56
6A129	9	9/32	.56
6A130	10	5/16	.56
6A131	11	11/32	.56
6A132	12	3/8	.56
6A133	14	7/16	.73
6A134	16	1/2	.73



ADJUSTABLE WRENCHES

Drop forged from chrome alloy steel. Movable jaw has a wide bearing surface to provide better gripping. Easy turning knurl for quick adjustment. Av. sh. wt. ½ lb.

Cat. No.	Type	Size	Net
6A162	44	4"	1.58
6A163	46	6"	1.58
6A164	48	8"	1.84



A Xcelite Nut Driver Set Type 127. The new, better gripping handles and bright polished blades have stepped up sales appeal in this Original Xcelite nut driving idea of color coded handles and lockable wall set. Shipping wt. is 2½ lbs.
6A146, (Polished finish) Net 4.61
6A147, (Chrome finish) Net 5.15

B Xcelite Multi-Purpose Set Type 99PR. Contains 12 tools in a plastic roll. 9 nut-driver shafts, 1 double-ended screw-driver shaft, 1 type 99-82 reversible screw-driver blade, and 1 combination plastic handle for all units. Nut-driver sizes: 7/16", ½", 7/16", 3/8", 11/32", 9/32", ¼", 7/32", 5/16" and 3/16". Screw-driver sizes: 9/32" & 3/16". Shipping weight is 3 lbs.
6A125, Net 7.03

C Tool Packet Type 3820. Contains 5 tools plus amber plastic collet type handle. Two screw-driver blades: one ¼x6", one 3/16x4¼". One Phillips head blade. Two nutdrivers: one No. 8 and one No. 10. Plastic wrap around pouch. Shpg. weight is 1 lb.
6B287, Net. 2.15

D Screwdriver Kit Type 3662. Ratchet screwdriver kit in handy plastic pouch. Consists of ratchet handle, three assorted screw-driver blades plus two Phillips head blades. Shpg. weight is 1 lb.
6A161, Net. 1.55

E Nut Driver Set, Type 3822. Leatherette pouch contains six nut drivers. Sizes: 3/16", ¼", 5/16", 11/32", 3/8", and 7/16". Friction clutch secures driver to plastic shockproof handle. Shipping weight is approx. 1 lb.
6B277, Net. 2.65

F G-C Allen-Hex Wrenches. 4 assorted wrenches. Made of alloy steel properly hardened. Used on knobs, dials, phono needles, motors, pulleys, etc. Wt. 4 oz.
0A244, (H1600-F) Net 3.30

G G-C Bristo-Spline Wrenches. 4 assorted wrenches. Very popular Bristo or Spline type wrenches as used on phono needles, motors, pulleys, knobs, etc. Made of alloy steel, properly hardened. Shipping weight is 5 oz.
0A245, (H1602-F) Net. 3.30

H 10-Piece Socket Set. Consists of reversible ratchet handle, extension arm, and 8 sockets. Constructed of tempered alloy steel. All contained in metal box with transparent plastic lid. Socket sizes: 3/16", 7/32", 1/4", 9/32", 5/16", 11/32", 3/8", and 7/16". Shipping weight is 1 lb.
6B159, Net. 2.49

J Nut Drivers Type HS. This unique, time-saving tool was especially designed for general electrical and radio work. In radio, it is primarily useful in installing and removing volume controls and other panel equipment. All are 6" except those marked *, they are 7". Average shpg. weight is 8 oz.

Cat. No.	Type	Size	Dep.	Net
6A139	10	5/16"	5"	.73
6A140	11	11"	5"	.73
6A141	12	3/8"	5"	.73
6A142	*16	1/2"	5"	.85
6A143	*18	9/16"	5"	.88
6A144	*20	5/8"	5"	1.03

K Stubby Nut Drivers. These tools have all the features of the regular Nut Drivers, plus the advantage of a short shank for working in close quarters. The shank is ¼" long. Overall length, 3¼". Shipping weight is 8 oz.

Cat. No.	Type	Size	Net
6A135	S-8	1/4"	.47
6A136	S-10	5/16"	.47
6A137	S-12	3/8"	.47

L Automatic Push Drill. A smooth operating push drill with automatic spring return. Complete with 5 drills contained in hollow handle. Drill sizes range from 3/64" to 1/8". Shpg. weight is 8 oz.
6A314, Net. 1.79

M Spintite Wrench. Consists of handle and 5 sockets. Sockets are stored on shank. The shank may also be used as screwdriver. Socket sizes: ¼", 5/16", 11/32", 3/8", and 7/16". Shpg. weight is 8 oz.
6B279, Net. 98

N Smith Adjustable Tip Wrenches. Adjustable socket pocket-wrenches for those hard-to-reach places. Holds nuts, bolts and screws firmly. Shockproof-has tough vinylite handle. Shipping weight is ¼ lb.
6A308, (Type 1). For No. 2 to 8 nut or screw. 8½" long.
6A309, (Type 2). For No. 6 to 12 nut or screw. 8½" long
6A310, (Type 3). For No. 6 to 12 nut or screw. 4½" long.
Net Each 88

O Moody Screwdriver Set. SC-5. Contains 5 interchangeable blades: .100", .080", .070", .055" and .040". Aluminum storage rack and a clear plastic dust cover. Shipping weight is 1 lb.
6A292, Net 1.08
PA-5. Contains 5 interchangeable tools. Consists of a knurled, chuck type handle and No.'s 4, 6, and 8 Allen type wrenches plus No.'s O and 1 size Phillips drivers. Shipping weight is 1 lb.
6A297, Net 1.47



KEYHOLE SAW TYPE 502
 Metal pistol grip for comfortable, sure grip for accuracy in cutting. Blade cutting length: 5¼". 24 teeth per inch gives smooth cut in wood, metal, plaster board, etc. Wt. 8 oz.
6B160, Net 39
Replacement Blade Type 504. Replacement blade for type 502 saw. Shpg. wt. 2 oz.
6B158, Net 15

ITS EASY TO BUY FROM WRL

SOLDERING IRONS — ACCESSORIES

AMERICAN BEAUTY IRONS

A Type 3128. 60 watts, 1/4" dia. tip. Uses type 3728 1/4" replacement tip. Shpg. wt. is 1 1/4 lbs. 6A213, Net..... 4.34

B Type 3128A. Same as model 3128 except has curved arm for work in difficult places. Also uses type 3728 1/4" replacement tip. Shpg. wt. is 1 1/4 lbs. 6A212, Net..... 4.67

C Type 3138. 100 watts, 3/8" dia. tip. Uses type 3738 3/8" replacement tip and type 9273 100 watt replacement element. Shipping weight is 2 1/4 lbs. 6A214, Net..... 5.83

C Type 3158. 200 watts, 5/8" dia. tip. Uses type 3758 5/8" replacement tip and type 9275 200 watt replacement element. Shipping weight is 3 lbs. 6A215, Net..... 7.50

D Type 3178. 300 watts, 7/8" dia. tip. Uses type 3778 7/8" replacement tip and type 9277 300 watt replacement element. 6A216, Net..... 9.67

D Type 3198. 550 watts, 1-1/8" dia. tip. Uses type 3798 1-1/8" replacement tip and type 9279 550 watt replacement element. 5 1/4 lbs. 6A217, Net..... 11.83

REPLACEMENT TIPS

Type 3728. 1/4" tip for use with types 3128 and 3128A irons. Sh. weight is 6 oz. 6B229, Net..... .29

Type 3738. 3/8" tip for use with type 3138 iron. Shpg. wt. is 5 oz. 6A225, Net..... .37

Type 3758. 5/8" tip for use with type 3158 iron. Shpg. wt. is 5 oz. 6A226, Net..... .85

Type 3778. 7/8" tip for use with type 3178 iron. Shpg. weight 1 lb. 6A227, Net..... 1.61

Type 3798. 1-1/8" tip for use with type 3198 iron. Shpg. wt. 1 1/4 lbs. 6A228, Net..... 2.75

REPLACEMENT ELEMENTS

Type 9273. 100 watt element for use with type 3138 iron. 8 oz. 6A221, Net..... 3.06

Type 9275. 200 watt element for use with 3178 iron. Wt. 1 lb. 6A222, Net..... 3.86

Type 9277. 300 watt element for use with type 3178 iron. Wt. 1 lb. 6A223, Net..... 5.99

Type 9279. 550 watt element for use with 3198 iron. Wt. is 1 1/4 lbs. 6A224, Net..... 6.36

E American Beauty. Temperature Regulating Stand-475. A thermostatically controlled device which will maintain the heat of any soldering iron to a constant working temperature. Will work all irons up to 660 watts. AC only. Shipping weight is 2 1/2 lbs. 6A219, Net..... 4.41

F Drake Soldering Irons. 316. 100 watt, 3/8" tip. Nichrome-Porcelain element. With stand. 13 1/2" long. Shpg. wt. is 1 lb. 6A231, Net..... 2.00
Replacement Tip. 3/8". Wt. 5 oz. 6A276, Net..... 1.06

G Drake Soldering Iron. 360. Pee-Wee. 35 watts, 3/16" dia. tip. For delicate radio and television work. Complete with tip. 110-120V., AC-DC. Sh. wt. 1 lb. 6A230, Net..... 2.94

H Soldering Iron Ladle Type 3638. Fits American Beauty type 3138 iron. Solder capacity 3 oz. Size: 1" dia., 1-1/8" deep. Wt. 7 oz. 6A271, Net..... 1.40

UNGAR SOLDERING PENCIL

J Type 776 Handle. Built for accurate, speedy service. Performs heavy duty jobs as well as those requiring delicate precision. Ceramic insulation. 110-120V. 37 1/2 watts. Heats in 90 sec. Shpg. weight is 6 oz. 6A252, Net..... .90

K Type 535 Heating Unit. Used with type 331, 332, or 333 tips. Shipping weight is 4 oz. 6A250, Net..... .86

Replacement Tips. *Extra hot. Shipping weight is 3 oz.

Cat. No.	Type	Fig.	Description	Net
6A253	536	O	Standard	.86
6A256	539	N	Chisel*	.86
6A257	540	M	Marking	.86
6A258	1236	N	Pyramid	1.06
6A259	1239	N	Chisel	1.06
5A288	331	L	Pencil	.15
5A289	332	L	Offset pencil	.15
5A290	333	L	Chisel	.15

Super Hi-Heat Tips. 1000° temp. Cat. No. Type Fig. Descpt. Net
6B254 4036 N Pyramid 2.35
6B255 4039 N Chisel 2.35

P KESTER SOLDER & PASTES

Printed Circuit Solder. Specifically recommended for use in soldering printed circuits found in so many of the newer radios. 60-40 alloy, .050" dia. 1 lb. spool. 1 1/4 lbs. 6B275, Net..... 1.39

Standard Rosin Core Solder

3/32 inch gauge. 1 lb. spool. 6A268, Net..... 1.10

3/32 inch gauge. 5 lb. spool. 6A270, Net..... 5.15

1/16 inch gauge. 1 lb. spool. 6A267, Net..... 1.13

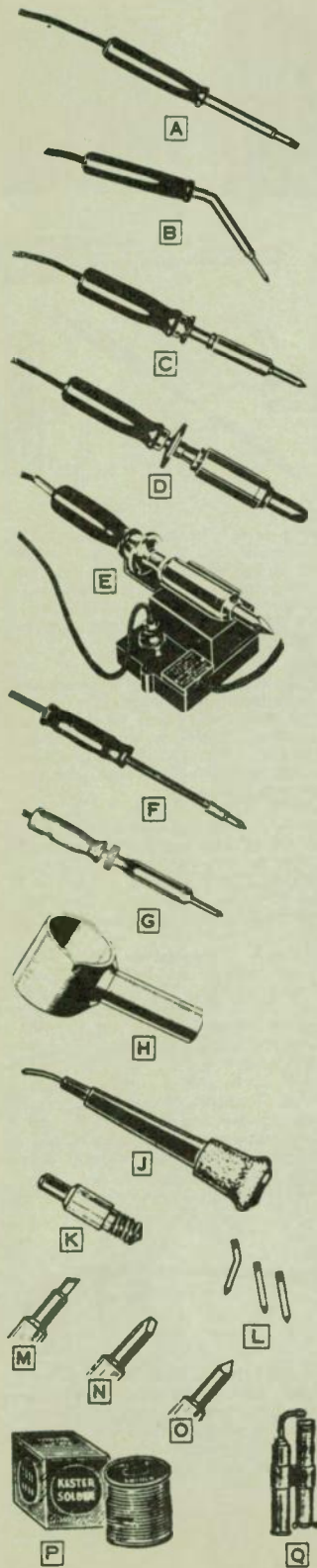
1/16 inch gauge. 5 lb. spool. 6A269, Net..... 5.30

3 ounce spool rosin core radio solder. 6A266, Net..... .17

Acid core solder. 1 lb. spool. 6A265, Net..... 1.10

Soldering Paste. In 2 ounce can. 6A264, Net..... .11

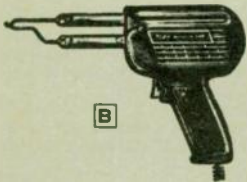
Q Lenk Automatic Alcohol Blotorch-Model 108. An entirely automatic alcohol blotorch built to the highest standards. Bright nickel plate on durable brass. Generates up to 1800 degrees (Fahr.) Shpg. weight is 10 oz. 6A220, Net..... 2.25



SOLDERING GUNS



A



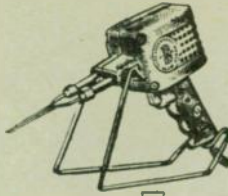
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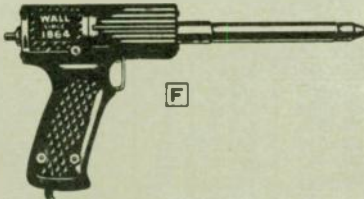
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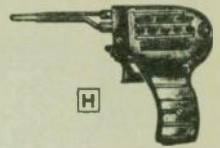
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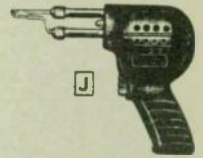
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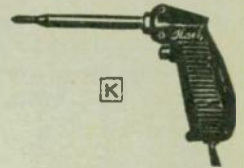
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H



J



K

A Weller Solder Gun Kit Model 8100K. Complete soldering set in handy kit. Kit includes Model 8100 solder gun conservatively rated at 100 Watts; 120 VAC, 60 cycles. Heats in five seconds. Pre-focused spotlights illuminate work; soldering aid which makes tight wire twists and helps to open old joints, wire brush to assure clean connections and a roll of Keate solder. Packaged in handy cardboard carton, each tool available for instant use. Sh. wt. 4 lbs.
6A320, Net 5.95

B Weller Soldering Guns. Heats in 5 seconds. New standard models have prefocused spotlights to eliminate shadows in working area. Air cooled transformer. 115 volts, 60 cycle AC.
S-400. Standard. Single heat, 135 W. Sh. wt. 3½ lbs.
6A242, Net 8.77
D-440. Standard. Dual heat, 100/150 W. Sh. wt. 3½ lbs.
6A244, Net 10.73
S-500. Heavy duty. Single heat, 250 W. Sh. wt. 3½ lbs.
6A246, Net 9.75
D-550. Heavy duty. Dual heat, 200/275 W. Sh. wt. 3½ lbs.
6A245, Net 11.71

C D Replacement Tips

C Model 7250. Two tips per package. For models WS-200, WD-250, S-500, D-550 and 8250A. Sh. wt. per pkg. 4 oz.
6A247, Net34

D Model 7135. Two tips per package. For models WS-100, WD-135, S-400, D-440 and 8100. Sh. wt. per pkg. 4 oz.
6A249, Net25

Replacement Switches

Model 7323. For all single heat models. Sh. wt. 4 oz.
6A240, Net 1.23
Model 7324. For all dual heat models. Sh. wt. 4 oz.
6A241, Net 1.37

E Drake Solder Gun Model 90C. 135 watts. Heats in only 5 seconds. Perfect for radio and TV servicing. Complete with sturdy, light rack stand. Air cooled transformer. With 5 ft. cord and plug. 110-125 V, 60 cycle AC. Sh. wt. 3½ lbs.
6A237, Net 8.82
901. 3½" tip for above. Pkg. of 2. Sh. wt. is 4 oz.
6A238, Net44
902. 6½" tip for above. Pkg. of 2. Sh. wt. is 4 oz.
6A239, Net44

F Wall Trig-R-Heat Soldering Gun Model 214T. With the new Thermostatic Brain. Pull the trigger—in seconds you have the exact soldering heat needed—400-150 watts. Stop soldering the iron immediately idles back to the low wattage. Start and your iron instantly is back to the required heat for your specific job. All done automatically—no moving parts—no heavy transformers to carry around—no fragile thermostats—no radio interference. The Thermostatic Brain is guaranteed for the life of the iron. ½" tip. Sh. wt. 1½ lbs.
6B236, Net 6.63

G Wall Soldering Irons. These irons incorporate the features of the TRIG-R-HEAT Guns. Pencil type tips. Sh. wt. 1½ lbs.

Cat. No.	Type	Tip Size	W. Range	Net
6A198	18T	1/8"	90-25	3.29
6A199	14T	1/4"	125-40	3.78

H Wen Soldering Gun Model 250. An ideal gun for home workshops, auto repair, sheet metal work, as well as for radio and TV repair. Heats in 3 seconds. Rated at 250 watts. Built-in spotlight. Shock and heat resistant handle and case. 110-120 VAC, 60 cycles. 6½" long. Sh. wt. 5 lbs.
6A317, Net 9.52

J Wen Soldering Gun Model 199. Gives ample heat quick, (working hot in 2½ seconds) cools when trigger is released. Extra long narrow tip makes it easy to reach tight spots. Tip is easily removed by loosening set screws. Built-in spotlight angled to focus light on work at tip. Small and lightweight—slips readily into tool kit or pocket. Sturdy molded plastic handle and case are both heat and shock resistant. Cherry red plastic handle and case. Overall length, less tip, 5". Complete with 6 ft. cord. 120 VAC, 60 cycles, 1.1 amp maximum. Sh. wt. 2½ lbs.
6A313, Net 5.83
6B282, Tip for model 199. Sh. wt. 6 oz.34

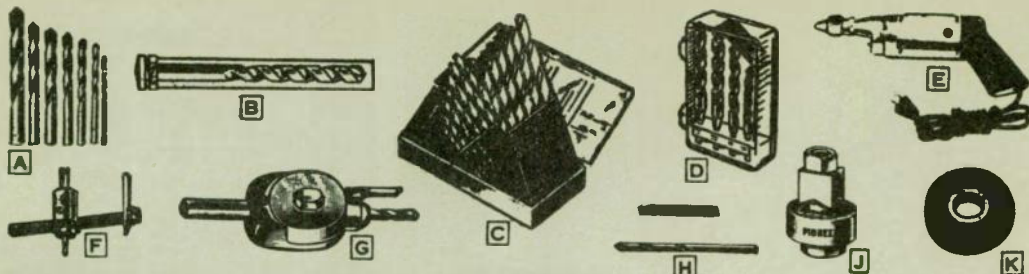
K Flash Solder Gun Model SF-100. Heats in 60 seconds. Supplied with a transformer for 110 volt, AC operation, or by disconnecting the transformer, the SF-100 can be used on a 6 volt storage battery. Sh. wt. is 4 lbs.
6A260, Net 7.03
6A263, (Extra Tip) Sh. wt. 4 oz. Net25
6A262, (Carbon Element) Sh. wt. 1 oz. Net08

SEE PAGE 133 FOR TERMINAL KIT

ITS EASY TO BUY FROM WRL

129

DRILLS — TOOLS — ACCESSORIES



A Century High Speed Twist Drills. "Magic Black" mechanics length twist drills. Av. shpg. wt. 4 oz.

Cat. No.	Size	Net	Cat. No.	Size	Net
88A001	1/16"	.23	88A008	3/16"	.54
88A002	5/64"	.25	88A009	13/64"	.58
88A003	3/32"	.28	88A010	1/4"	.75
88A004	7/64"	.28	88A011	5/16"	1.10
88A005	1/8"	.32	88A012	3/8"	1.53
88A006	9/64"	.34	88A013	1/2"	2.72
88A007	11/64"	.41			

Wire Gauge Sizes. Average shipping weight is 3 oz.

Cat. No.	Gauge	Screw Size	Net
88A021	4	12	.72
88A022	10	10	.65
88A023	11	10	.85
88A024	18	8	.46
88A025	28	6	.37
88A026	33	4	.31
88A027	43	2	.26

B Masonry Drills. Economy priced. For power drilling in concrete, brick, etc. Carbide tipped, with 1/4" shanks. Packaged individually in plastic cylinders.

Cat. No.	Size	Length	Wt.	Net
88A035	1/4"	3 1/2"	3 oz.	.86
88A036	3/8"	4"	4 oz.	.97
88A037	1/2"	4"	5 oz.	1.26

Masonry Drill Set Model L-33. Set of three drills listed above in handy plastic kit. Sh. wt. 12 oz.

88A040, Net 2.52

Professional Quality Masonry Drills. For the TV antenna installation man and others who require high quality masonry drills.

Cat. No.	Size	Length	Wt.	Net
88A041	1/4"	4"	3 oz.	1.22
88A042	3/8"	4"	5 oz.	1.46
88A043	1/2"	6"	8 oz.	1.85

Masonry Drill Set Model CT-33. Set of three professional quality drills as listed above in handy plastic kit. Sh. wt. 12 oz.

88A054, Net 3.78

C High Speed "Magic Black" Drill Sets. Special tempering treatment produces extra long wear. Double cutting edge makes drill work faster.

Model MB-1. 29 sizes. 1/16" to 1/2" by 64ths. In Huot steel container. Sh. wt. 4 1/2 lbs.

88A053, Net 29.55

Model MB-3. 13 sizes. 1/16" to 1/2" by 64ths. In Huot steel container. Sh. wt. 1 lb.

88A049, Net 5.47

Model MB-15. 15 sizes. 1/16" to 1/2" by 32nds. In Huot steel container with extra capacity for 14 more drills in 64ths to make complete set of 29 drills. Wt. 3 1/2 lbs.

88A050, Net 16.35

Model MB-753. 7 sizes. 1/16" to 1/2" by 32nds. In plastic box. Sh. wt. 10 oz.

88A051, Net 3.73

D Carbon Drill Set Model W-4A. For soft metals and wood. Kit of four sizes (5/16", 3/8", 7/16" and 1/2") contained in plastic box. Sh. wt. 1 1/2 lbs.

88A046, Net 2.23

D High Speed Drills Model MB-525. With 1/4" shanks. 5 sizes: 1/4", 5/16", 3/8", 7/16" and 1/2". In plastic box. Sh. wt. 1 1/2 lbs.

88A052, Net 6.72

Power Auger Bit Kits (Not Illustrated)

Model SP-7. Wood bits for use with power drills. 1/4" shanks. 7 sizes: 1/4", 3/8" and 1/2" Spiral Flute and 5/8", 3/4", 7/8" and 1" Spade Type. In plastic container. Sh. wt. 1 1/2 lbs.

88A047, Net 3.72

Model SP-5. As above but contains 5 sizes. 1/4", 3/8" and 1/2" Spiral Flute and 1/2" and 1" Spade Type. In plastic kit. Sh. wt. 1 lb.

88A048, Net 2.97

E Pet Electric Drill Model 77-H. Slender body design with comfortable pistol-grip handle. Design lends to close-quarter drilling. Built-in trigger switch with wire lock. Chuck capacity: 1/4". Full load speed 900 r.p.m. UL approved. Over-all length: 11 1/4". Universal AC-DC motor, 115 V. Sh. wt. 4 lbs.

88A055, Net 9.95

F ICA All-Purpose Circle Cutter Model 775. Will cut holes from 1/4" to 8". The cutting bar holder is 7/8" in diameter and also accommodates a centering drill or any size pilot pin. Cutting bar is 3/8" sq. and is arranged to hold a 3/16" high cutting bit. Sh. wt. 1 lb.

6A168, Net 2.94

G ICA Universal Multi-Purpose Cutting Tool Model 780. This handy tool can be used for counter-sinking, heading, drilling or cutting holes. Equipped with 3/16" drill for holes from 7/16" diameter up to 3" diameter. Can be used either in drill press or hand brace. Also acts as a boring tool when used in a lathe. Sh. wt. 1 lb.

6A169, Net 3.02

H Drills and Cutters. Used as replacements on ICA No. 775 and 780 circle cutters as well as on other make cutters. Sh. wt. 1 lb.

Cat. No.	Type	Descript.	For	Net
6A170	776	Drill	775	.49
6A171	777	Cutter	775	.66
6A172	781	Drill	780	.49
6A173	782	Cutter	780	.66

J Pioneer Punches. High grade tool steel. Precision machined and carefully heat treated and finish ground to close tolerances. Sh. wt. 10 oz.

Round Hole Punches

No.	Type	Size	Net No.	Type	Size	Net
6A179	CR50	1/2	2.11	6A186	CR116	1-5/32 2.40
6A180	CR62	5/8	2.11	6A187	CR119	1-3/16 2.40
6A181	CR75	3/4	2.11	6A188	CR125	1-1/4 2.40
6A182	CR87	7/8	2.11	6A189	CR137	1-3/8 2.74
6A183	CR100	1	2.25	6A190	CR150	1-1/2 3.09
6A184	CR106	1-1/16	2.40	6A191	CR225	2-1/4 6.03
6A185	CR112	1-1/8	2.40			

Square Punches

Cat. No.	Type	Size	Net
6A175	CS62	5/8	3.23
6A176	CS75	3/4	3.79
6A177	CS100	1	4.36

K Tape. New, improved plastic tape. Excellent for TV and Radio repairs, Electricians. Has greater insulating qualities than standard friction tape, higher adhesion.

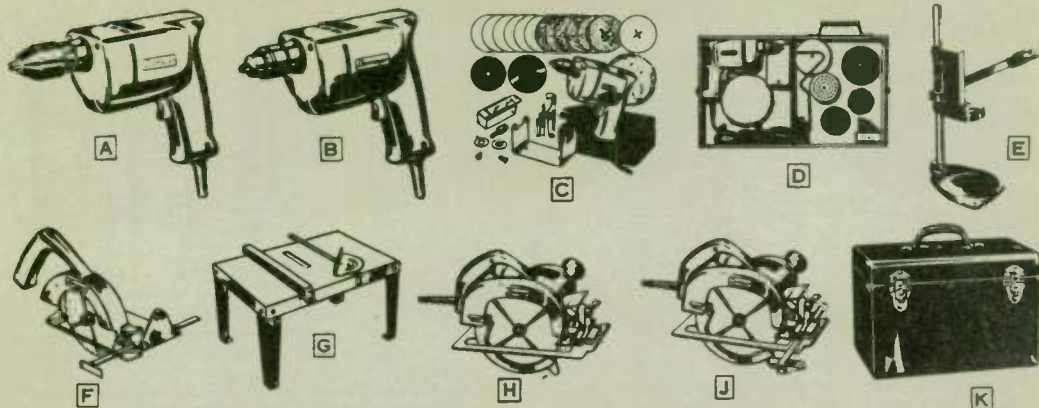
Type 33. Roll in handy tin container. 3/4"x86ft. Shpg. wt. 10 oz.

6A278, Net 1.50

Type 197. Small roll. 1/2"x150". Sh. wt. 3 oz.

6B280, Net35

DORMEYER POWER TOOLS



A Dormeyer $\frac{1}{4}$ " Drill Model 200. With exclusive Dormeyer Wrench-Lok Chuck. Multiple ball thrust bearing and self lubricating bearings, hardened steel gears, die-cast aluminum alloy housing for extra strength and light weight. Pistol design for easy handling. Capacity in steel, $\frac{1}{4}$ "; in hard wood, $\frac{1}{2}$ ". No load speed, 1800 rpm. 115 V, AC/DC motor. Switch spring-loaded for automatic shut-off, built-in switch lock for sustained operation. Satin silver finish. Length overall: 8 $\frac{1}{2}$ ". Sh. wt. 5 lbs. List Price \$21.95.
118AF003, Net 16.46

B Dormeyer $\frac{1}{4}$ " Drill Model 220. With famous geared chuck. Precision ball bearing construction, hardened steel gears, die cast aluminum alloy housing for extra strength and light weight. Pistol grip design for easy handling. Capacity in steel, $\frac{1}{4}$ "; in hard wood, $\frac{1}{2}$ ". No load speed: 1800 rpm. 115 V, AC/DC motor. Switch spring-loaded for automatic shut-off, built-in switch lock for sustained operation. Polished silver finish. Length overall: 8 $\frac{1}{2}$ ". Sh. wt. 5 lbs. List Price \$29.95.
118AF004, Net 22.46

C Dormeyer $\frac{1}{4}$ " Drill Kit Model 300. Rigidly constructed steel carrying case. Contents: Dormeyer, Model 200, $\frac{1}{4}$ " Drill with exclusive Dormeyer wrench-lok chuck; horizontal drill stand; six 4" sanding discs (120 grit); 4" sandpaper pattern; 4 $\frac{1}{2}$ " lambswool bonnet; 4" rubber backing pad; 3" grinding wheel; set of 3 drill bits; 6 piece arbor set in plastic case. Sh. wt. 7 $\frac{1}{2}$ lbs. List Price \$24.95.
118AF005, Net 18.71

D Dormeyer $\frac{1}{4}$ " Drill Kit Model 320. Rigidly constructed steel wall cabinet case. Contents: Dormeyer, Model 210, $\frac{1}{4}$ " Drill with famous geared chuck; horizontal drill stand; six 4" sanding discs (60 grit); six 4" sanding discs (120 grit); 4" sandpaper pattern; 4 $\frac{1}{2}$ " lambswool bonnet; 4" rubber backing pad; 3" wire wheel brush; 3" buffing wheel; paint mixer; set of 7 drill bits; 6 piece arbor set in plastic case. Sh. wt. 9 $\frac{1}{2}$ lbs. List Price \$29.95.
118AF006, Net 22.46

E Dormeyer Vertical Drill Stand Model 120. Converts Dormeyer $\frac{1}{4}$ " drill to accurate drill press in seconds. Firm, rigid steel construction. Drilling head travels full 3'; adjustable for height to 11" drilling radius from center of column 4 $\frac{1}{2}$ ". For use with Dormeyer $\frac{1}{4}$ " drills, Models 200, 210 and 220. Sh. wt. 5 lbs. List Price \$12.95.
118AF007, Net 9.71

F Dormeyer Saw Attachment Model 110. Converts Dormeyer $\frac{1}{4}$ " drill to 4" portable power saw. Attaches easily to drill spindle with mounting assembly furnished. Has vertical cutting capacity to 1-1/16" depth of cut; at 45° bevel to 1" depth of cut. Equipped with rip fence to guide saw accurately to cut uniform width. 4" combination saw blade furnished. Independently mounted blade allows easy, one-hand operation. Sh. wt. 1 $\frac{1}{2}$ lbs. List Price \$6.95.
118AF008, Net 5.21

G Dormeyer Saw Table Model 130. Converts Dormeyer $\frac{1}{4}$ " drill with Model 110 saw attachment into tilting arbor table saw. Equipped with miter gauge and rip fence. Miter, bevels, cross cuts, rips. Eliminates the need for expensive stationary equipment. Size of top: length, 15-5/8"; width, 10-3/8". Sh. wt. 8 lbs. List Price \$9.95.
118AF009, Net 7.46

H Dormeyer Portable Power Saw Model 700. Will cut 2"x4" lumber at 45° bevel with blade to spare. Positive finger-tip adjustment for depth of cut from $\frac{1}{4}$ " to 2-3/16" and for bevel cuts from 0° to 45°. Exclusive eye shield allows cutting edge of blade to be constantly visible with unequalled eye protection. Auxiliary knob handle for maximum control, flat pedestal housing service for standing saw when not in use. No load speed, 5500 rpm. 115 V, AC/DC motor. Double pole momentary contact trigger switch. Satin silver finish. Sh. wt. 16 lbs. List Price \$49.95.
118AF010, Net 37.46

J Dormeyer Portable Power Saw Model 720. Will cut 2"x4" lumber at 45° bevel with blade to spare. Positive finger-tip adjustment for depth of cut from $\frac{1}{4}$ " to 2-3/16" and for bevel cuts from 0° to 45°. Exclusive eye shield allows cutting edge of blade to be constantly visible with unequalled eye protection. Auxiliary knob handle for maximum control, flat pedestal housing service for standing saw when not in use. Rip fence guides saw accurately to cut uniform width. All ball and needle bearing construction. No load speed, 5500 rpm. 115 V, AC/DC motor. Double pole momentary contact trigger switch. Polished silver finish. Sh. wt. 16 lbs. List Price \$69.95.
118AF011, Net 52.46

K Dormeyer Portable Power Saw Case Model 01-50321-00. Made of sturdy, heavy gauge steel for lasting durability. Fitted with special brackets for saw and spare blades. For use with Dormeyer portable power saws, Models 700, 710 and 720. Sh. wt. 10 lbs. List Price \$10.00.
118AF012, Net 7.50

ACE DRILL SETS

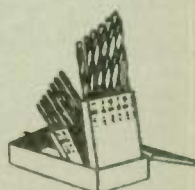
Professional quality drills for those who require the highest quality drill bits.

Quarterpak Set Model 13. 13 drills 1/16th to 1/2"x64ths in Huot case. Sh. wt. is 9 oz.
6A283, Net 6.00

29 Halfpak. 29 drills 1/16" to 1/2"x64ths in Huot case. 1 $\frac{1}{2}$ lbs.
6A284, Net 32.51

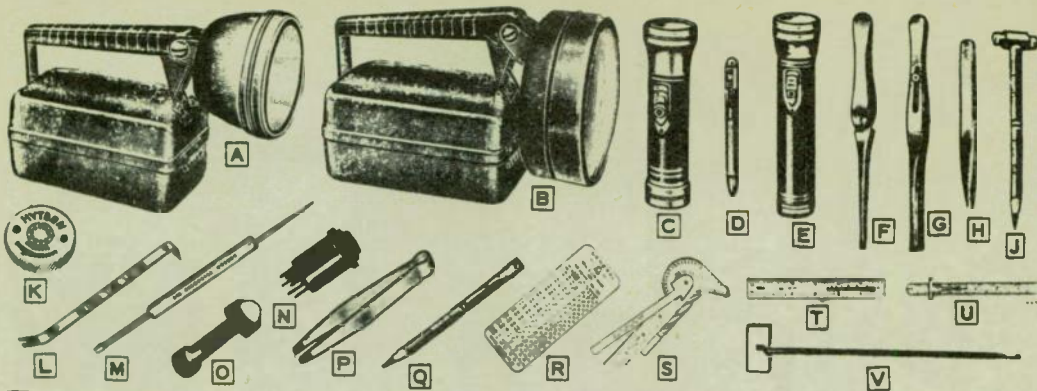
Model 29A. 15 drills 1/16" to 1/2"x32nds. Huot case will accommodate 29 drills, every other space is vacant. Sizes by 64ths can be added at owners convenience. Sh. wt. 10 oz.
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C Eveready Flashlite Model 2251. Two cell automatic spotlight. Seamless brass. Chromium finish with rolled on black decoration. Uses two Eveready Type 950 batteries (see page 114) and Lamp No. PR-2. Less batteries. Shpg. wt. 12 oz.
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D Eveready Penlite Model 212. Available in 2 types: All chrome, and black and chrome. Uses two Type 912 Eveready batteries (see page 114) and Lamp No. 224. Less batteries. Shpg. wt. 8 oz.
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E Eveready Flashlite Model 4251. Finished in chrome, hammered grey and black. Uses two Eveready Type 950 batteries (see page 114) and Lamp No. PR-2. Less batteries. Shpg. wt. approximately 12 oz.
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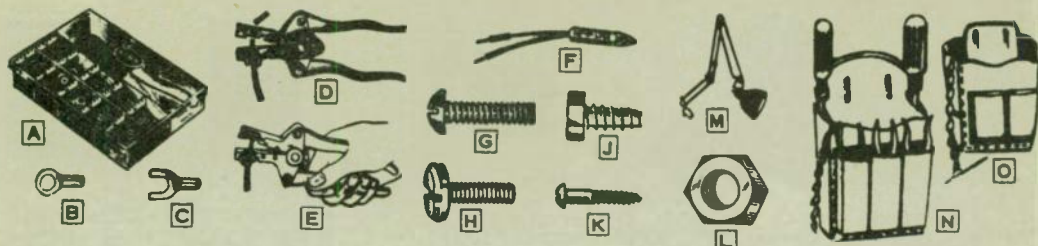
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0A254	2302	B	Ring	22x16	8-10	45
0A255	2400	B	Ring	16x14	4-6	45
0A256	2401	B	Ring	16x14	4-6	45
0A257	2402	B	Ring	16x14	8-10	45
0A258	2600	...	Stud	22x16	4-6	50
0A259	2601	C	Spade	16x14	4-6	45
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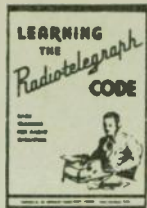
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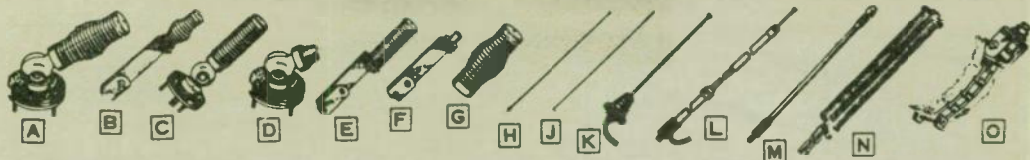
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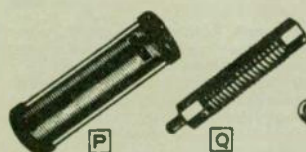
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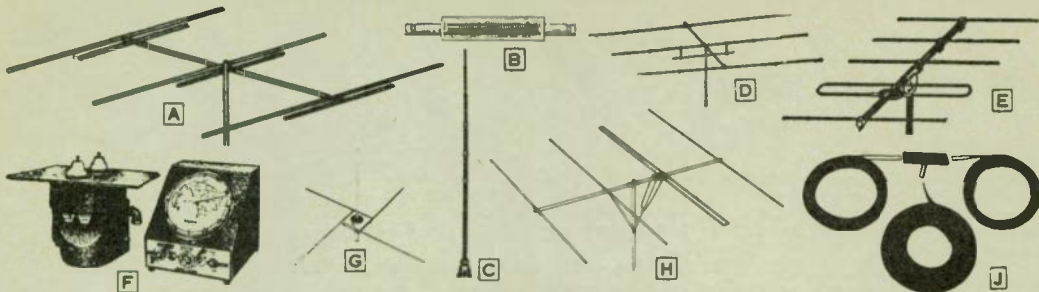
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B Mosley Loading Coils. Construct your own vest-pocket beam with coils of the original design. All metal parts non-ferrous. Designed for 7/8" O.D. aluminum tubing with .058" wall. Completely weather protected. Use with 52 ohm coax feeder. Sh. wt. 5 lbs.

Cat. No.	Model	Descript.	Net
26B018	VP-20-2	2 El. 20 M. Coils	16.61
26B019	VP-20-3	3 El. 20 M. Coils	24.95
26B037	VP-1015-2	2 El. 10, 11, 15 M. Coils	14.95
26B038	VP-1015-3	3 El. 10, 11, 15 M. Coils	22.95
26B036	VP-40-2	2 El. 40 M. Coils	22.25

"V-P" Tri-Bander Beam Model VPA3B. (Not illustrated.) One beam for operation on 40-20-15 meters. No switching, no stacking, no adjusting. Just tune your rig for operation in the band desired. Antenna automatically selects proper combination of elements for optimum performance on that band. Compensated type beam with four elements mounted on 15 ft. boom. Forward gain 5 db and F/B ratio is 20 db. SWR at resonant frequencies 1.1:1. Complete with coils, auto-electronic coupling yoke and all necessary hardware. Sh. wt.

Model VPA10, Net 135.00

Model VPA3BT. As above with boom tilting head. Sh. wt.

69B015, Net 148.36

C Premax Telescoping Antennas. Used successfully in fixed commercial, municipal and amateur installations. High tensile, copper-nickel steel tubing. Heavily cadmium plated and highly resistant to corrosion. Fully telescoping and adjustable.

Antennas						Mounts, 8 lbs.	
Cat. No.	Type	Sec.	Ext. Lg.	Lbs.	Net	Cat. No.	Type
28A001	112M	2	11'-8"	5	4.71	26B023	1PG24*
28A002	318M	3	17'-3"	9	7.06	26B024	1PG30*
28A003	224M	4	22'-9"	13	9.41	26B025	1PG35*
28A004	130M	5	28'-3"	17	12.94	26A048	1PG44*
28A005	136M	6	33'-9"	22	17.64		
*Net Each							17.64

D Hyllite Antenna Model PD-3E10. 3 element, 10 meter beam. Elements are ¾" and 5/8" diameter. "T" match is adjustable by movable castings to match 52 to 300 ohm line. Completely grounded. "T" match is included. Sh. wt. 14 lbs.

69A014, Net 24.95

Hyllite Antenna Model 3E10T. 3 element, 10 meter beam. With "T" match. Sh. wt. 25 lbs.

69A011, Net 41.80

Hyllite Antenna Model 3E20T. 3 element, 20 meter with "T" match included. Sh. wt. 31 lbs.

69A012, Net 64.95

Hyllite Antenna Model 6E10-20T. A 3 element, 10 and 3 element, 20 meter stacked array with two "T" matches. Sh. wt. 51 lbs.

69A013, Net 98.95

Hyllite Antennas Models 2E15T & 3E15T. 2 and 3 element beams for 15 mtrs. Can be supplied in combination with either a 2 or 3 element or 10 or 20 meter beam. Sh. wt. approx. 28 lbs.

69A016, (2E15T) 2 el. Net 45.50

69A017, (3E15T) 3 el. Net 59.00

Accessories

Folded dipole for 6 and 10 meter beams is \$6.00 extra.

"T" match for 6, 10 & 20 meter beams is \$5.40 extra.

The Models, 3E10, 3E20T, and 6E10-20T are close spaced. (.1 Director—.15 Reflector—.15 Reflector.) Wide spaced beams (.15 Director—.2 Reflector.) are \$4.50 extra. Available on 3 element, 6 and 10 meter beams only. All 3 element 20 meter beams come in .075 and .1 spacing.

E Elincer Antenna Model 200-EA. 2 meter beam precut for middle of the 144 to 148 mc. band. Boom is 1" aluminum tubing. All elements are 3/8" tubing. Wt. 3 lbs.

69A001, Net 9.06

F Johnson Rotomatic Antenna Rotator. Designed to insure top performance and operating convenience. Beam can be rotated continuously through 360°. Housed in a sturdy aluminum casting. Will support safely the largest beam antennas including three elements for 20 meters together with higher frequency antennas. Slip ring contacts. Will handle safely 2½ KW of RF at impedances as low as 50 ohms. Utmost reliability even in the coldest weather. Antennas of 175 lbs. may be safely supported even under high wind and heavy icing conditions. Sh. wt. 85 lbs.

69A050, Net (Price includes both units) 324.00

Rotomatic Accessories

Beam Switching Relay. Sh. wt. 8 lbs.

69A059, Net 19.21

8 Conductor Cable. Sh. wt. 11 lbs.

69A060, Net Per Ft.26

G New Lysco Ground Plane Antenna. Features include: lightweight aluminum elements and base. Mounts on ¾" standard pipe—can be erected in 15 minutes. Curves furnished for obtaining correct length versus frequency. Low angle of radiation.

28A017, (310) 10M. Band (Sh. wt. 8 lbs.) 19.95

28A015, (302) 2M. Band (Sh. wt. 3½ lbs.) 13.95

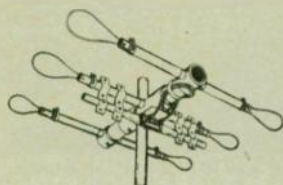
H Gonset 6 Meter Yagi. Designed essentially to complete the Gonset 6 meter Communicator package. Consists of 4 elements, reflector, folded dipole and two directors; the array being largely pre-assembled thus simplifying field erection. Forward gain approximately 10 db. Front-to-back about 20 db. Sh. wt. 6 lbs.

69B020, Net 24.50

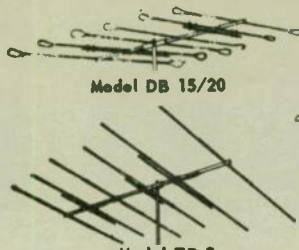
J Amphelol Folded Dipole Kits. Rugged, easy to install. Complete with "T" block and assembly instructions.

Cat. No.	Type	Band	Wt.	Net
22A069	139-010	10 M.	2½ lbs.	5.35
22A070	139-020	20 M.	2½ lbs.	6.00
22A071	139-040	40 M.	3½ lbs.	7.80
22A072	139-080	80 M.	4½ lbs.	11.25

AMATEUR ANTENNAS

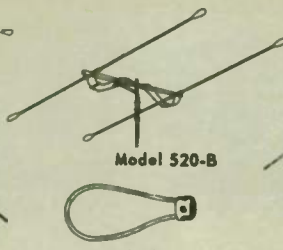


Models 503-A & 10M-3



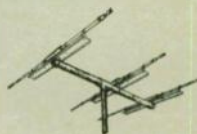
Model DB 15/20

Model TB-3



Model 520-B

Model 502



Model R.S. 3-20

Telrex Beamed Power Rotary Antennas

Built to highest standards, precision pre-tuned and matched for balanced pattern and optimum performance on your site. S.W.R.; better than 1.1:1 at tuned point when mounted at least 34 feet above ground. S.W.R. rate of change vs frequency varies slightly with each model. WRL can supply any Telrex Amateur Antenna, even though not illustrated or described on these pages, including new 6 and 2 meter arrays. Write for complete literature.

15 And 20 Meter Arrays—Full Size

Cat. No.	Model	Desc.	DB Gain	F/B Ratio in DB	Horiz. Beamwidth	Vert. Beamwidth	Boom Length	Sh. wt. Lbs.	Net
69A032	502	2 El.—20 Mtr.	5.6	18	66°	130°	6'-8"	42	97.00
69A033	503A	3 El.—20 Mtr.	8.9	25	59°	102°	14'	60	136.20
69A034	504A	4 El.—20 Mtr.	9.7	26	56°	80°	19'-3"	101	185.00
69B035	505A	5 El.—20 Mtr.	11.2	27	52°	70°	26'-3"	104	240.00
69B036	506A	6 El.—20 Mtr.	12.6	28	48°	60°	31'-9"	116	280.00
69B037	153A	3 El.—15 Mtr.	8.9	25	59°	102°	12'	46	110.00
69B038	155A	5 El.—15 Mtr.	11.2	27	52°	70°	18'-6"	87	210.00
69A039	156A	6 El.—15 Mtr.	12.6	28	48°	60°	22'-6"	91	235.00

10 Meter Arrays

Cat. No.	Model	Desc.	DB Gain	F/B Ratio in DB	Horiz. Beamwidth	Vert. Beamwidth	Boom Length	Sh. wt. Lbs.	Net
69A040	10M-3A	3 El.	8.9	25	59°	102°	8'-5"	28	67.50
69B041	10M-5A	5 El.	11.2	27	52°	70°	12'-6"	35	108.00
69B042	10M-6A	6 El.	12.6	28	48°	60°	16'-5"	38	145.00

Super Mini-Beam Series

Cat. No.	Model	2 El.—20 Mtr.	DB Gain	F/B Ratio in DB	Horiz. Beamwidth	Vert. Beamwidth	Boom Length	Sh. wt. Lbs.	Net
69B043	520-B	2 El.—20 Mtr.	4.8	18	71°	135°	6'-8"	18	62.50
69A044	1520	2 El.—15 Mtr.	4.9	18	70°	135°	5'-5"	16	55.50
69A045	530-B	3 El.—20 Mtr.	7.0	18	61°	110°	12'-11"	29	92.00

2 arrays in line on one boom.

Duo-Band Series

Cat. No.	Model	Desc.	DB Gain	F/B Ratio in DB	Horiz. Beamwidth	Vert. Beamwidth	Boom Length	Wt. Lbs.	Net
69A048	DB-15/20	3 El.—20 Mtr.	9.0	23	59°	100°	27'-9"	88	250.00
		3 El.—15 Mtr.	9.0	24	59°	100°			
69A049	DB-10/15	3 El.—10 Mtr.	9.0	22	60°	100°	20'-9"	76	179.50
		3 El.—15 Mtr.	9.0	21.5	60°	100°			

3 arrays in line on one boom. *Mini-Beam.

Tri-Band Series

Cat. No.	Model	Desc.	DB Gain	F/B Ratio in DB	Horiz. Beamwidth	Vert. Beamwidth	Boom Length	Wt. Lbs.	Net
69A046	TB-3	2 El.—20 Mtr.	5.4	18	62°	125°			
		2 El.—15 Mtr.	5.6	21	65°	118°	22'	110	248.00
		2 El.—10 Mtr.	5.6	24	64°	120°			
69A047	TBM-3*	2 El.—20 Mtr.	4.9	18	70°	135°			
		2 El.—15 Mtr.	4.9	20	70°	135°	22"	110	198.00
		2 El.—10 Mtr.	5.6	24	64°	120°			

Telrex Element Ends

Anti-static, anti-reverberation, broad-band element ends. Convert Telrex 10, 15 and 20 Meter Deluxe rotaries to Super Deluxe rotaries.

To Convert 20 Meter Rotaries

Cat. No.	For Model	Net
69A061	502	10.80
69A062	503	16.20
69A063	504	21.60
69A064	505	27.00
69A065	506	32.40

To Convert 10 Meter Rotaries

Cat. No.	For Model	Net
69A069	10M-3	10.80
69A070	10M-5	18.00
69A071	10M-6	21.60

To Convert 15 Meter Rotaries

Cat. No.	For Model	Net
69A066	153	16.20
69A067	155	27.00
69A068	156	32.40

Radio Specialties Shortbeams

Professionally engineered shortbeams. All aluminum construction. Coils made of No. 12 Formvar wire, completely weatherproofed. 52 ohm match. Will handle 1 KW. Turn with a TV rotor.

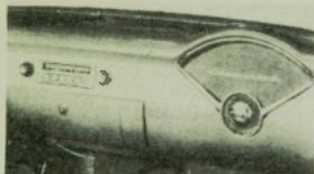
Cat. No.	Model	Desc.	Gain in DB	F/B Ratio	Sh. wt. Lbs.	Net
69A019	R.S. 2-20	2 El.—20 M	4.4	15	18	49.95
69B021	R.S. 3-20	3 El.—20 M	4.8	20	24	59.95
69B022	R.S. 2-15	2 El.—15 M	4.4	15	18	44.95
69B023	R.S. 3-15	3 El.—15 M	4.8	20	24	54.95
69B024	R.S. 2-40	2 El.—40 M	4.4	15	35	74.95

Radio Specialties Multiband Beams

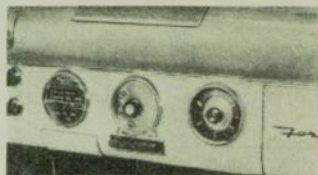
Two pre-tuned beams on one boom. High performance. All coils enclosed in weather-proof bakelite containers and wound with No. 12 Formvar wire. Will handle up to 1 KW and operate with one TV rotor. All beams pre-tuned to band centers. S.W.R. at resonant frequency below 1.1:1. *Indicates "Shortbeams", others full size.

Cat. No.	Model	Desc.	Gain in DB	F/B Ratio	Sh. wt. Lbs.	Net
69A072	20-10	3 El 20°	4.8-20 M	20DB-20 M	30	97.50
		3 El 10	8.8-10 M	25DB-10 M		
69A073	20-15	3 El 20°	4.8-20 M	20DB-20 M	35	107.50
		3 El 15°	4.8-15 M	20DB-15 M		
69A074	15-10	3 El 15°	4.8-15 M	20DB-15 M	28	94.50
		3 El 10	8.8-10 M	25DB-10 M		
69A075	40-20	2 El 40°	4.4-40 M	15DB-40 M	48	127.50
		2 El 20	5.6-20 M	20DB-20 M		

AUTOMATIC CAR RADIOS



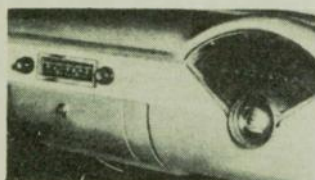
55 Chev. (CP-315) Push Button



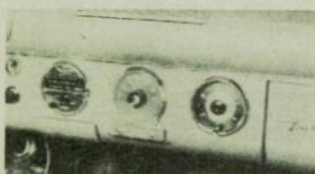
55 Ford (FP-135) Push Button



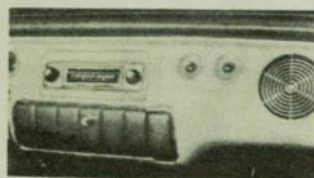
55 Plym. (PP-265) Push Button



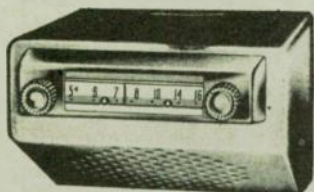
55 Chevrolet (C-325) Manual



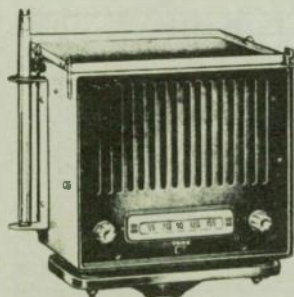
55 Ford (F-145) Manual



55 Plymouth (P-255) Manual



Universal Radio



Tractor Radio

PUSH-BUTTON TUNING MODELS

Custom built to fit instrument panel and easily installed. Three gang permeability tuner with quick-set pushbuttons. Six tube superheterodyne. Beam power tube for maximum undistorted power output. Pushbuttons are instantly adjustable to any station—manual tuning available at all times. Automatic volume control, which prevents blasting and fading. Large 6x9" PM speaker with powerful Alnico 5 magnet. Low battery drain. Average shipping weight is 11 lbs.

Cat. No.	Model and Year	Mfr's. Type	Net
110AF027	55 Chevrolet	CP-315	45.47
110AF028	55 Ford	FP-135	45.47
110AF029	55 Plymouth	PP-265	45.47

MANUAL TUNING MODELS

Automatic radios provide the finest quality performance for your motoring pleasure. Feature: quick, easy installation; no cables, no brackets, no holes to drill; and they beautify your car. All are six tubes, superheterodyne circuit (2 tubes are dual purpose for 8 tube performance) with tuned RF circuit for extreme sensitivity and selectivity. Automatic volume control eliminates blasting & fading. Tone control, newly designed PM speaker with Alnico 5 magnet. Low current drain. Av. wt. 12 lbs.

Cat. No.	Model and Year	Mfr's. Type	Net
110AF023	55 Chevrolet	C-325	41.97
110AF001	53-54 Chevrolet	CM-333	41.97
110AF002	52-51 Chevrolet	C-351	39.97
110AF003	49-50 Chevrolet	C-300	41.97
110AF024	55 Ford	F-145	41.97
110AF009	54 Ford	F-241	41.97
110AF010	53 Ford	FM-731	41.97
110AF011	52 Ford	F-152	39.97
110AF012	51 Ford	F-151	39.97
110AF013	49-50 Ford	F-100	39.97
110AF025	55 Plymouth	P-255	41.97
110AF014	53-54 Plymouth	PM-236	41.97
110AF015	52-51 Plymouth	P-651	41.97
110AF017	54, 53 Studebaker	S-154	41.97
110AF018	52, 51, 50 Studebaker	S-551	39.97
110AF004	53 Dodge	DM-132	41.97
110AF005	52-51 Dodge	D-251	39.97
110AF006	49-50 Dodge-Plymouth	D-200	39.97
110AF008	53, 52, 51, 50, 49, 48, Hudson	H-451	39.97
110AF007	53-52 Mercury	MM-430	41.97

UNIVERSAL AUTO AND TRUCK RADIOS

Model MU-34. Completely new, compact, powerful radio designed for under-the-dash and in-the-dash mounting—in all cars and trucks. Powerful six tube superhet circuit (2 tubes are dual purpose for 8 tube performance) with tuned RF stage for added sensitivity and selectivity. Three gang permeability tuner with trimmer adjustment for antenna matching. AVC maintains volume and eliminates blasting and fading. Newly de-er with Alnico 5 magnet. Size: 6-9/16x6-7/16x4-1/8". Sh. wt. is 12 lbs. 110AF021, Net 28.36

Model R-54. Same features as the model MU-34 except engineered for 12 volt cars and trucks. Shpg. wt. 12 lbs.

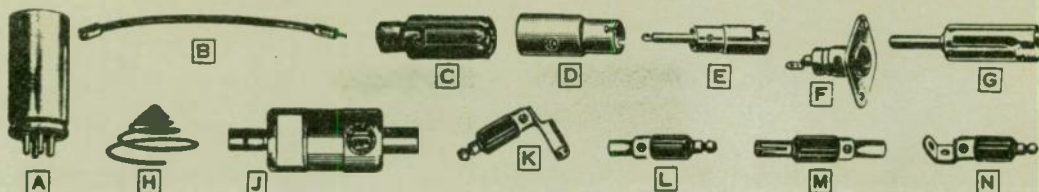
110AF 022, Net 28.36

TRACTOR RADIO

Model TR-12. 8 tubes including rectifier. Tuned RF stage for extreme sensitivity and selectivity. Push-pull beam output. Automatic volume control. Large 6x9" PM speaker with Alnico 5 magnet for exceptional tone quality. Shock-proof mounting. Low battery drain. Six volt storage battery operation. Simple installation on all tractors. Beautifully finished case treated to prevent rust and corrosion. Rugged weatherproof construction to withstand any type of weather conditions. Equipped with standard mounting kit. Size: 9-3/8x10-3/8x7-1/8". Sh. wt. 28 lbs. 110AF020, Net 62.97

LEO GIVES TERMS TO SUIT YOUR BUDGET

AUTO ANTENNAS — ACCESSORIES



Vibrators and Auto Antenna Accessories

A Cornell-Dubilier Vibrators. Unit is completely enclosed in floating sock—an exclusive with C-D vibrators. Stack design will take peak voltages of even 4200 volts with no damage to vibrators. All vibrators listed are in stock for fast delivery. Average shipping weight is 10 oz.

Synchronous					
No.	Type	Volts	Size	List	Net
8B001	5400	6	1½x3-1/8"	7.70	4.53
8B002	5406	6	1½x3-1/8"	7.70	4.53
8B003	5409	6	1½x3-1/8"	7.70	4.53
8B004	5425	6	1-15/16x4½"	9.15	5.38
8B005	5426	6	1-15/16x3½"	7.70	4.53
8B006	5434	6	2-15/16x3½"	7.70	4.53
8B007	5435	6	1-3/8x3-1/8"	7.70	4.53
8B008	5436	6	1½x2-7/8"	7.70	4.53
8B009	5438	6	1½x3-1/8"	7.70	4.53
8B010	5454	6	1½x2-7/8"	7.70	4.53

Synchronous Special					
No.	Type	Volts	Size	List	Net
8B016	5604	6	1-15/16x4½"	9.15	5.38
8B017	5605	6	1½x3-1/8"	8.55	5.03
8B018	5605-12	12	1½x3-1/8"	9.95	5.85

Non-Synchronous					
No.	Type	Volts	Size	List	Net
8B025	5300	6	1½x3-1/8"	4.70	2.76
8B026	5301	6	1½x2-7/8"	4.70	2.76
8B027	5303	6	1-5/8x3½"	4.90	2.88
8B028	5304	6	1½x3-1/8"	6.35	3.73
8B029	5307	6	1½x3-1/8"	4.90	2.88
8B030	5308	6	1½x3-1/8"	6.35	3.73
8B031	5314	6	1½x2-3/8"	4.90	2.88
8B032	5320	6	1-15/16x3½"	4.90	2.88
8B033	5321	6	1-5/8x3½"	4.90	2.88
8B034	5323	6	1-5/8x4½"	4.15	2.44
8B035	5326	6	1½x2-7/8"	4.15	2.44
8B036	5331	6	1½x3-1/8"	4.90	2.88
8B037	5335	6	1½x2-7/8"	4.90	2.88
8B038	5342	6	1½x2-7/8"	4.15	2.12
8B039	6326	12	1½x2-7/8"	5.50	3.23
8B040	6330	12	1½x3-1/8"	4.90	2.88
8B041	6370	12	1½x3-1/8"	4.70	2.76
8B042	5370	6	1½x3-1/8"	4.90	2.88

Non-Synchronous Special					
No.	Type	Volts	Size	List	Net
8B045	5515	6	1½x3-1/8"	6.90	4.06

B Universal Extension Leads. For extending auto antenna leads. "Hi-Q" low loss design. Weather-proof insulation. Average shpg. weight is 8 oz.

Cat. No.	Model	Length	Net
2A118	NL-716	18"	.56
2A119	NL-721	11 ft.	2.12
2A120	NL-722	15 ft.	3.18

C Antenna Connector. Type 2347. For terminating auto antenna leads. Size: 1-3/8x5/8". Shipping weight is 2 oz.

1A127, Net08

D Lead-In Adapter. Type 2396. Assures proper, noise-free contacts. Converts Motorola pin-plug to Delco type. Shipping weight is 2 oz.

1A128, Net07

E Lead-In Adapter. Type 2372. Durable and easy to install. Converts Delco to Motorola fitting. Shipping weight is 2 oz.

1A133, Net20

F Shielded Jack. Type 2378. Motorola type. Receptacle for type 2375 pin-plug. Shipping weight is 2 oz.

1A132, Net14

G Pin-Plug. Type 2375. Motorola type pin-plug. Fits into type 2370 jack. Shipping weight is 2 oz.

1A134, Net09

H Wheel Hub Static Eliminator. Type 4476. Used under hub of front wheel. An essential on all cars to eliminate front wheel static. Less back plate and screw. Shipping weight is 5 oz.

1A131, Per pair, Net18

J Distributor Suppressor. Type 330. For use on cars where only one suppressor is required. 10000 ohms resistance. Eliminates all motor noise. Shipping weight is 3 oz.

1A141, Net49

K L M N Auto Radio Ignition Suppressors. Made of molded bakelite. All metal parts are made of rugged machined brass. Av. shpg. wt. 2 oz.

Cat. No.	Fig.	Type	Net
1A135	K	1940-41 Slip-on Type	.19
1A136	K	Slip-on type for Ford	.19
1A137	L	For all spark plugs	.19
1A138	L	For Ford cars	.19
1A139	M	Distributor Suppressor	.22
1A140	N	Bracket Type	.19

Radiart Auto Aerials

O Radiart Model 3S. 2 Insulator Mount. Popular two-stanchion model for cowl or fender mounting will fit most surfaces—straight or curved. Extended length 63". 3 sections. Supplied with insulators and wedge adapter. Approximate shpg. wt. is 2 lbs.

25A014, Net2.59

Q Radiart Model 4S. 3 sections. Extended length 92". Shpg. wt. approximately 2½ lbs.

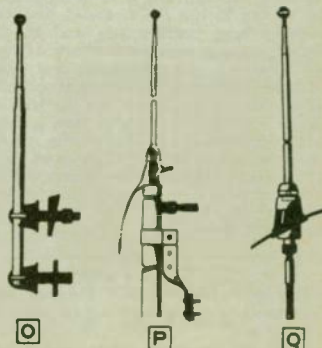
25A015, Net3.18

P Radiart Model 3D. Disappearing mount. Vertical mount for top of cowl or fender. Specially designed insulators permit easy fitting to body curvature. When collapsed, extends 6" above mounting surface. Complete with 48" Radiart "Plasti-loom" waterproof lead. 3 sections. Extended length 60". Approximate shpg. wt. 3 lbs.

25A016, Net4.09

Q Radiart Model 8BD. 30 degree mast adjustment. Fits all body and fender contours. Beautiful chromed metal top spacer. Fast, easy installation. 36" polyethylene lead-in. 100% water-proof construction. Exclusive spring finger plug. Approximate shpg. wt. is 3 lbs.

25A013, Net2.97



SEE LEO WQGFQ FOR THE BEST TRADE-IN DEAL

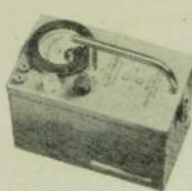
GEIGER COUNTERS



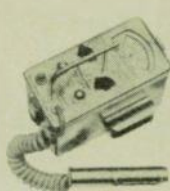
A



B



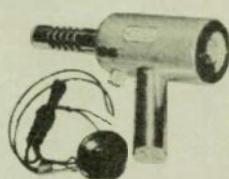
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E



F



G

A PRI Deluxe "Scintillator" Model 111B. Reads directly in percentage of uranium, which makes it possible to determine the value of ore right in the field. For aerial, motor vehicle and foot uranium surveys. 200 times as sensitive to Gamma radiation as the best geiger counter. Housed in the gun type probe and batteries are contained in battery box. Probe is attached to the battery box by a positive mounting arrangement. Instrument may be used while inside the carrying case which is held at the user's side by the shoulder strap, or the probe may be removed and held like a gun. With batteries, tubes, saddlegrain leather carrying case and shoulder strap, calibrated radioactive sample, plastic assay container and instructions. Sh. wt. 9 lbs.
102AF028, Net 495.00

B PRI "Special Scintillator" Model 117B. The model 117 has many times the sensitivity of any geiger counter. It is an ideal instrument for field prospecting because of its ruggedness, compactness, and light weight. Will detect uranium deposits, range from a few feet to hundreds of feet, depending on whether the overburden is radioactive, the size and quality of the ore body, and other factors. The entire instrument is waterproofed and tropicalized. It can be carried either on the belt or by a shoulder strap as well as by the handle. The price includes batteries, tubes, calibrated radium sample, shoulder strap and complete instructions. The approx. sh. wt. is 10½ lbs.
102AF027, Net 299.50

C PRI "Lucky Strike" Model 106B. Designed for field prospecting under rugged conditions. Detects beta particles as low as 160 K.E.V. as well as gamma rays, X-rays, and cosmic rays. Has three means of indicating radioactivity; a neon flasher, earphones, and a meter. The meter has three ranges: .2, 2, and 20 milliroentgens per hour full scale. Detects even small deposits of uranium, and estimates quality and quantity of ore in the field. Small and lightweight. Exceptionally long battery life and they can be easily replaced without tools. Consists of two flashlight cells, two small 45 volt batteries, and one 22½ volt hearing aid type battery. Completely tropicalized. A large sensitive 900 volt Geiger tube with a 30 milligram per square centimeter thin-window section is mounted inside the ruggedly built, weatherproofed case. A powerful electronic amplifier is used to give a loud signal in the earphone. Includes batteries, earphone, carrying belt, radioactive sample and complete instructions. 3½x4½x6½". Sh. wt. 7 lbs.
102AF029, Net 99.50

D PRI "Professional" Model 107C. The choice of serious prospectors who do not wish to invest in a "Scintillator". Most stable performance and greatest sensitivity of any Geiger Counter made, regardless of price. Accurate within 10% on all scales. Meter reads percentage of uranium. Completely waterproofed and tropicalized. A calibration control is provided on the top panel and a calibrated radioactive sample is supplied. This makes it possible to calibrate the instrument in the field with no additional equipment. Has three means of indicating radioactivity; a neon flasher, earphones and a meter. The meter has three ranges; .2, 2 and 20 milliroentgens per hour full scale. Probe has a sliding shield two millimeters thick for use in discriminating between Betas and Gammas. Will detect a uranium deposit, range from a few feet to dozens of feet. Price includes batteries, earphone, carrying belt, radioactive sample and complete instructions. Sh. wt. 7 lbs.
102BF026, Net 149.50

E PRI "Snooper" Model 108. So small it fits in the hip pocket and yet is as sensitive as many larger instruments. Simple to use. Produces a loud series of clicks in the earphones when brought near radioactive material. The number of clicks increases as the source is approached. Price includes the headset, batteries, radioactive sample, and complete instructions. Sh. wt. approx. 2 lbs.
102AF025, Net 29.95

F Scientific Geiger Counter Model S-101. Balanced gun type design provides easier portability. Lightweight, rugged anodized aluminum design. Self-contained power supply.....no bulky batteries or boxes to carry. Circuitry—revolutionary compact, hi-voltage supply. Requires only one flashlight cell. Beta Gamma tube provides greater sensitivity. Simplified single control with completely accurate calibrated range. Complete with battery, headphones and holster-type carrying case. Sh. wt. 3 lbs.
102AF024, Net 98.50

G Elco Geiger Counter Model 803. A high-grade instrument of excellent sensitivity, detects ore with as little as .01% uranium. An all-electronic battery operated circuit with no moving parts and a rugged, thin-brass envelope, 900 volt geiger tube of superior characteristics result in long life and reliability in prospecting, industrial, scientific and civil defense applications. On-off switch. Pocket-size case. With headphones with plug-in connector and active radiation source. 900 volt operating level obtained using two 67½ V. B batteries and two 1½ V. A batteries. Size: 7x4½x2½". Sh. wt. 3 lbs.
114A040, (Kitt) Net 19.95
114A091, (Wired) Net 29.95
Battery Kit. 2 Eveready type 477 and 2 Eveready type 635. Sh. wt. 1½ lbs. Net 4.06

EASY PAYMENT PLAN

Any equipment in this catalog may be purchased on easy time payments. See page 153 for complete details.

Reconditioned Equipment



JOHNSON VIKING II
TRANSMITTER
\$229.00



WRL GLOBE CHAMP
TRANSMITTER
\$199.50



ELMAC A54 or A54H
MOBILE TRANSMITTER
\$99.00

OVER 750 PIECES

Use WRL's EASY PAY PLAN
10% Cash Down • 18 Months to Pay

NEW GUARANTEE

RECEIVING EQUIPMENT All Speakers Extra

The largest selection of reconditioned equipment in the country—make your choice from over 750 pieces. WRL deals in more reconditioned gear than anyone else in the nation. Each piece of apparatus thoroughly reconditioned by trained service technicians. Only WRL offers you a new equipment guarantee on reconditioned equipment. Stock includes Communications Receivers, Transmitters, P.A. Systems, Converters, Power Supplies, Hi FI equipment, etc. No matter what type of equipment you are seeking drop us a line and ask for our latest lists. We can save you as much as 50% in some instances. Equipment is available on time payment plan. You may return any reconditioned equipment, purchased from WRL, within 90 days for full credit towards the purchase of brand new equipment.

TRANSMITTING EQUIPMENT

Babcock MT-5A mobile xmr.	79.50
Babcock MT-5B mobile xmr.	89.00
Bud VFO21 (1 set coils)	14.95
Collins 32V-1 xmr.	395.00
Collins 32V-2 xmr.	450.00
Collins 32V-3 xmr.	525.00
Eldico A300 Ant. Tuner 300 watt (1 set coils)	19.95
Eldico TR75-TV xmr. with 1 set coils	39.50
Elmac A-54 mobile xmr.	99.00
Elmac A-54H mobile xmr.	99.00
Elmac PSA-500 Power Supply (115 VAC)	32.50
Elenco SS75 SSB xmr.	139.00
Globe Champion xmr. (185 watts 1 set coils)	199.50
Globe King Model 275 (275 watts 1 set coils)	249.00
Globe King Model 400A, 400 watts (1 set coils)	299.00
Globe King Model 400B 400 watts, TVI'd (1 set coils)	325.00
Globe King Model 500 . 500 watts, TVI'd, Bandswitching.	575.00
Globe Trotter xmr. (40 watts 1 set coils)	49.50
Globe Scout xmr. Model 40 (50 watts 1 set coils)	69.50
Globe Scout xmr. Model 40A (50 watts) Bandswitching	74.50
Globe Scout xmr. Model 65 (65 watts) Bandswitching	79.50
Gonset Commander mobile xmr.	89.00
Hallcrafters HT-6 xmr. (30 watt 1 set coils)	69.00
Hallcrafters HT-9 xmr. (115 watt) with 10 meter coils.	139.00
Hallcrafters HT-17 xmr. (30 watt) c-w-pi (1 set coils)	29.95
Hallcrafters HT-18 VFO with NBFM	69.00
Hallcrafters HT-19 (185 watt) VFO-NBFM	189.00
Hallcrafters HT-20	299.00
Heath AT-1 xmr. 30 watt CW all band	24.50
Heath AC-1 antenna tuner (50 watt max.)	9.95
Harvey Wells TBS Sr. mobile (carbon mike)	69.00
Harvey Wells TBS-50 Deluxe HI Z input	69.00
Harvey Wells APS-50 Power Supply (115 VAC)	32.50
Harvey Wells DPS dynamotor (6 VDC input)	39.50
Harvey Wells VFO	37.50
Johnson Ranger	199.50
Johnson Viking I xmr. (829B in final)	149.00
Johnson Viking I xmr. (4D32)	169.00
Johnson Viking I xmr. (TVI'd)	179.00
Johnson Viking II	229.00
Johnson Match Box antenna tuner	39.50
Johnson VFO	35.00
Johnson mobile xmr.	79.00
Lettine 240 xmr. (1 set coils)	49.50
Lyaco 600 VFO xmr. TVI'd . CW, 35 watts	89.00
Lyaco 600S VFO TVI'd xmr. phone & CW 35 watts.	119.00
Lyaco 381 VFO	19.95
Lyaco 50 antenna tuner	9.95
McMurdo Silver 700 or 701 xmr.	29.50
Meck T-60-1 (50 watt) xmr. (1 set coils)	39.50
Meissner EX VFO all band	39.50
Millen 90700 VFO	19.95
Millen 90800 50 watt exciter. (1 set coils)	22.50
Millen 90881 500 watt final. (1 set coils)	59.50
Sonar ST-120P xmr. Bandswitching	169.00
Sonar VFO120 for above	14.95
Sonar ST-775 xmr. 75 watt NBFM	59.00
Sonar VFX680 VFO exciter	24.50
Stancor ST-202A (125 watt CW)	79.00
Stancor ST-203A mobile xmr.	29.50
Subroc MT-15X (10 meters mobile)	32.50
Supreme AF-100 VFO xmr.	169.00
Temco 75GA VFO xmr.	169.00

Collins 75A1	275.00
Collins 75A2	345.00
Collins 75A3	425.00
Elmac PMR6A mobile receiver	99.50
Elmac PSR Power Supply	19.50
Gonset 10-11 converter	19.95
Gonset Tri-band converter	29.95
Gonset Super 6 converter	39.50
Heath Receiver AR-2	24.50
Hallcrafters S20R	49.50
Hallcrafters SX-24	69.50
Hallcrafters SX-25	89.00
Hallcrafters S-27 (27-144 mc)	89.00
Hallcrafters SX28	149.00
Hallcrafters SX-28A	189.00
Hallcrafters S-36 (27-144 mc)	89.00
Hallcrafters S-38	29.50
Hallcrafters S-38B	32.50
Hallcrafters S-38C	35.00
Hallcrafters S-38D	39.50
Hallcrafters S-40	69.50
Hallcrafters S-40A	79.50
Hallcrafters S-40B	85.00
Hallcrafters SX42	169.00
Hallcrafters SX43	129.00
Hallcrafters S-53	59.00
Hallcrafters S-53A	65.00
Hallcrafters SX-62	199.50
Hallcrafters SX-71	169.50
Hallcrafters S-72 Portable	59.50
Hallcrafters S-76	149.50
Hallcrafters S-77A	75.00
Hallcrafters S-85	89.00
Hallcrafters SX96	199.00
Hallcrafters SX99	119.00
Hammarlund HQ129X	179.00
Hammarlund HQ140X	199.00
Hammarlund SP-400X with power supply	265.00
McMurdo Silver 800 recr. (144-230 mc)	29.50
Millen R9er with one 10 meter coil	12.50
Morrow 2BR or 2BC	24.50
Morrow 3BR	35.00
National HRO Sr. with power supply	99.50
National HRO 5 with power supply	175.00
National HRO 7 with power supply	199.50
National HRO 50	275.00
National HRO 50T-1	325.00
National HRO 60	399.00
National SW-54	35.00
National NC-46	49.50
National NC-57	69.00
National NC-88	89.00
National NC-98	119.50
National NC-125	139.50
National NC-173	159.00
National NC-183	215.00
National NC-183D	299.50
National NC-200	139.00
National NC-240D	165.00
RME HF 10-20 converter	59.50
RME DB22A preselector	49.50
RME 45 (early model)	99.00
RME 45 (late Cal-o-matic)	119.00
RME 50	149.50
RME VHF 152 (10-6-2 AC power)	39.50
RME VHF 152A (11-10-6-2 AC power)	49.50
RME 84 receiver	69.50
Surplus BC348-BC224-BC312-BC342 converted to 115 VAC with power supply	69.50
Surplus BC779 with power supply	139.00

NOTICE!

Follow These Steps To Expedite Your Reconditioned Equip. Order
(1) Establish your credit—if time payments desired, see pages 152 & 153. (2) Send a \$5.00 deposit to hold the equipment of your choice. (3) Indicate a 2nd and 3rd choice. Due to the fast movement of WRL Reconditioned Equipment this will save unnecessary delay and correspondence.

WRL

SAVE UP TO 50%

WRL



A



B



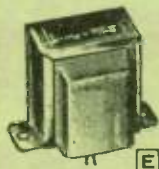
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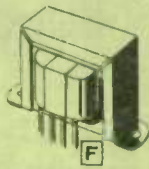
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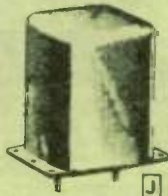
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H



J

WRL High Quality Transformers And Chokes - At Lowest Prices!

A Power Transformer. 117 volt primary. 1200 VCT. 200 Ma. 6.3 volt winding at 4 amps. 5 volts at 3 amps. Mtg. ctrs: 3x3-3/8". Sh. wt. 13 lbs.

XA941, Only \$6.95

A Power Transformer. 115 volt primary. 800 VCT plate volts. 200 Ma. Rectifier: 5V. at 3 amps. Filament: 6.3 VCT at 5.5 amps. Mtg. ctrs: 3-5/16x3-3/16". Sh. wt. 9 lbs.

XA939, Only \$6.75

B Power Transformer. Excellent for low power transmitters or modulator service. Half shell mounting. Primary 110-220 VAC. Secondary 800 VAC, CT. (400-0-400) at 340 Ma.; 5V. at 6 amps, and 6.3 V. at 7 amps. Mtg. ctrs: 4-3/8x3-9/16". Sh. wt. 18 lbs.

XA597, Only \$6.95

B Plate Transformers. Made under exacting specifications for WRL by Stancor. Fully shielded. 3000 VCT at 300 Ma. 115 volt primary. Mtg. ctrs: 4 1/2x5". Sh. wt. 24 lbs. **While they last.**

XA361, Only \$19.95

B Plate Transformer. Made by Stancor specifically for modulation service and dual RF power supply. Fully shielded. 2000 VCT at 300 Ma. 800 VCT at 150 Ma. 115 volt primary. Mtg. ctrs: 2 1/2x4 1/2". Sh. wt. 14 lbs.

XA363, Only \$14.50

C Interstage Transformer. 1 to 3 ratio—single plate to grid. 5/8" laminations. 1 1/2x1 1/2x1-7/8". Mtg. ctrs: 2-3/8". Sh. wt. 1 lb.

XA004, Each 44¢

C Filter Choke Type 546X2. 8 hy. at 150 ma. Strap mounting. Size: 1 1/2x2 1/2x2 1/2". Mtg. ctrs: 3-1/8". Shpg. wt. 2 1/2 lbs.

XB039, Only \$1.39

C Filter Choke Type 1300-008. Strap mounting. 7 hy. at 200 ma. 2-5/8x4x2 1/4". Mtg. ctrs: 3 1/2". Sh. wt. 2 1/2 lbs.

XB045, Only \$1.98

D Filter Choke. Hermetically sealed. 4 1/2 hy. at 150 ma. Size: 3x3x4". Shpg. wt. 5 lbs.

XA095, Only \$1.49

E Filter Choke. Upright mtg. Shielded. 8 hy.—50 ma. 500 ohm DC resistance. Size: 2x1-5/8x1-5/8". Mtg. ctrs: 2-1/16". Approx. sh. wt. is 12 oz.

XA044, Only 39¢

F Filter Choke. Strap mount. 4 hy. at 150 ma. 60 ohms DC resistance. Mtg. ctrs: 2-7/8". Shpg. wt. approx. 1 lb.

XA719, Only \$1.29

G Filament Transformer Type P2857. Excellent for use with 811 tube. 6.3 VCT at 8 amps. Open frame. Size: 2 1/2x2 1/2x3". Mtg. ctrs: 2x2 1/4". Shpg. wt. 4 lbs.

XA058, Only \$2.59

G Filament Transformer Type 546K3. 5 VCT at 8 amps. Open frame. Size: 2-1/8x2x2-3/4". Mtg. ctrs: 1-11/16x2". Shpg. wt. 2 1/2 lbs.

XB057, Only \$1.79

H Output Transformer. Hermetically sealed. Primary: 5000 ohms. Sec. No. 1—500 ohms. Sec. No. 2—8 ohms, tapped at 4 ohms. Size: 2-3/8x2x3". Shpg. wt. 5 lbs.

XA761, Only 79¢

F Output Transformers. Manufactured to our own rigid specifications. Open strap mtg. 2" mtg. ctrs with leads. 3.2 ohm voice coils. All rated at 5 watts. Size: 3x1-3/8x1 1/4". Av. sh. wt. 10 oz.

XA183. 2000 ohms, 60 Ma. For 50L6, 36L6, 25L6, 32L7. Only 65¢

XA185. 5000 ohms, 40 Ma. For 45, 2A3, 43, etc. Only 65¢

XA187. 7000 ohms, 30 Ma. For 42, 12A6, 6F6, 47. Only 67¢

XA189. 10,000 ohms. 30 Ma. For 6SN7, etc. Only 69¢

5 watt universal output transformer. Strap mtg. Pri. 2000 to 10,000 ohms. Sec. 2-4 or 4-6 ohms. Mtg. ctrs: 2". Sh. wt. 1 lb.

XA619, Only \$1.29

Pentode output. Strap mounting. 6-8 watts. For 6V6 or similar tubes. Mtg. ctrs: 2-7/16". Sh. wt. 1 lb.

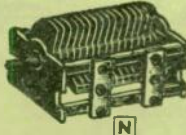
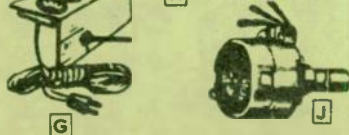
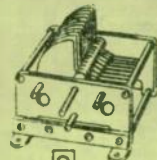
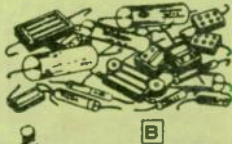
XA855, Only 98¢

J Heavy Duty Choke. Rated 4 hy. at 300 ma. Potted case style. Has screw terminals. Size: 4x4-3/8x5 1/4". Shpg. wt. 13 lbs.

XB015, Only \$4.95

Made By Leading Manufacturers And Fully Guaranteed

SPECIAL RELEASES



A WRL Quality Xtals. Economy priced crystals for most ham bands. FT-243 holders. We may not be able to supply exact frequency desired from stock but we will supply as close as possible. Crystals available in the following ranges: 3500-4000, 7000-7400, 8000-8222, 8334-8600. Please specify frequency desired. Sh. wt. 4 oz.

87A001, Net Each \$1.75

A WRL Special Crystals. High quality crystals in FT-243 holder. Only frequencies indicated below are available. 1/2" pin spacing. Sh. wt. 4 oz.

KC	KC	KC
3700	7106	7273
3885	7125	7275
3955	7140	7300
3980	7150	7306
3990	7173	7325
7050	7175	7340
7073	7206	7350
7075	7225	7375
7100	7240	

XA967, Each 99¢

B CARLCO GUARANTEED KITS

10 Assorted Filter Condensers. Range from 150 to 600 W.V. Reg. \$10.00 value. Sh. wt. 1 lb.

75A030, Net 1.98

10 Assorted Potentiometers. With and without switch. Reg. \$7.50 value. Sh. wt. 1 lb.

75A031, Net. 1.98

Wire Assortment. Consists of five 40 ft. rolls of No's. 18, 20, and 22 wire. Solid and stranded. Sh. wt. 3 lbs.

75A003, Net 1.98

100 Assorted Resistors. 1/2 watt, 1 watt and 2 watt. All popular resistances. Reg. \$15.00 value. Sh. wt. 10 oz.

75A004, Net 1.98

35 Assorted Ceramic Condensers. Reg. \$6.00 value. Sh. wt. 8 oz.

75A005, Net 1.98

50 Assorted Mica Condensers. Reg. \$7.50 value. Sh. wt. 10 oz.

75A006, Net 1.98

25 Assorted Molded Tubular Condensers. Reg. \$6.00 value. Sh. wt. 6 oz.

75A007, Net 1.98

C Insulator. Airplane type antenna insulator. Sh. wt. 6 oz.

XA135, Each 9¢

100 For \$8.00

D Insulator. Heavy duty type for guy wires, etc. Sh. wt. 8 oz.

XA167, Each 15¢

100 For \$13.50

E Extra Heavy Duty Strain Insulator. 2-7/16" dia. 3 3/4" long. Excellent for guying heavy towers, etc. Sh. wt. each 1 lb.

XB081, Each 19¢

3 For 45¢

F Insulator. Antenna insulator for long wire and other amateur antennas. Sh. wt. 8 oz.

XA159, Each 8¢

F Feed-thru Insulator. Telephone type. 3/8" dia. hole for transmission line. 8 3/4" long over-all. Sh. wt. each 8 oz.

XA080, Each 19¢

3 For 45¢

G Wireless Phono-Oscillator. A slug tuned oscillator factory set at 550 Kc but may be adjusted to suit your needs. Factory wired. Requires 12SA7 and 35Z5GT tubes. Supplied with instructions, less tubes. Sh. wt. 2 lbs.

XA617, Net \$5.25

Tube kit for above \$1.93

H J-38 Key. Standard J-38 key mounted on a black bakelite base. With binding posts and closing key. Sh. wt. 1 lb.

XA883, Each 99¢

J Standard Volume Control (With Switch). 1/2 meg. control with SP-ST switch cover attached. Standard length shaft which you may trim to suit your need. Popular midget size. Sh. wt. approx. 5 ounces.

XA069, Each \$.49

K Knife Switch. Double Pole Double Throw. Heavy contacts. Dimensions: 2 1/4"x1 1/4". Ceramic base. Shipping weight is 6 oz.

XA007, Each. 49¢

L Push Type Canopy Switch. SPST. Ideal for replacement in lamps, etc. Contacts rated 3 amps at 125 volts. Complete with mtg. nuts. Leads 6". Sh. wt. 3 oz.

XA993, Only 24¢

M Toggle Type Canopy Switch. Bat handle. SPST contacts rated 3 amps at 250 V. or 6 amps at 125 V. Leads 6" long. Complete with mtg. nuts and on-off plate. Sh. wt. 3 oz.

XA991, Only 37¢

N Variable Condenser. Excellent value variable capacitor. 119 mmfd.-2000 volt spacing. 31 plates. 1/4" shaft. Sh. wt. 1 1/4 lbs.

XA056, Net 79¢

O 3000 Volt Condenser. For use in low and medium power transmitters. Capacity fine for frequencies 80 to 10M. 3000 volt rating. 1/4" shaft. 75 mmfd. max. 10 mmfd. min. Sh. wt. approx. 2 lbs.

XA063, Only 69¢

P Call Books. Overstock allows us to sell these back issues at a reduction in price. All are in good condition. Sh. wt. is 2 lbs.

XA371, Each 98¢

Q Coil Cord. Ideal for mobile installations. 3 conductor cable for carbon mikes. Coiled length 19". Extends to approx. 7 ft. Color coded leads. Sh. wt. 8 oz. Reg. \$4.50 Value.

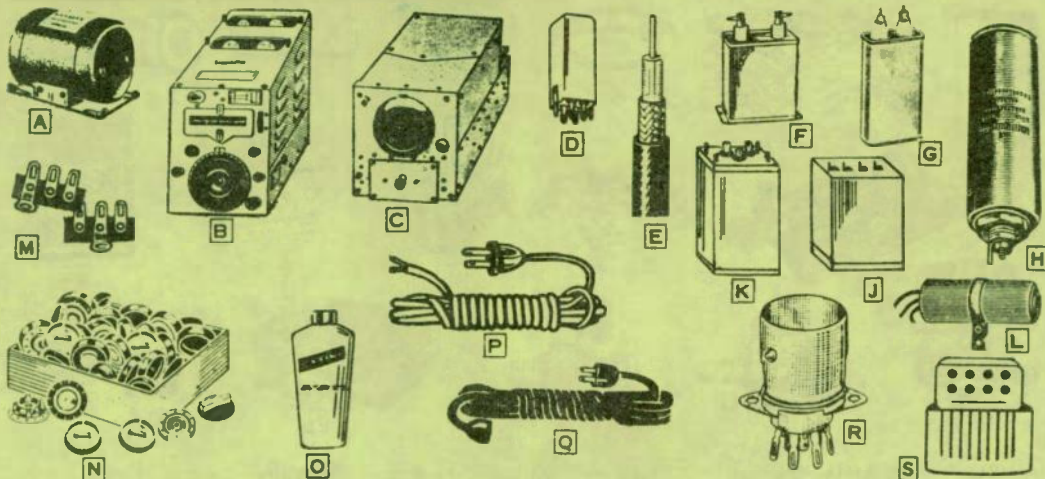
XB053, Net \$1.98

Perforated Metal Sheet. Same as used by leading manufacturers for RF shielding of transmitters, etc. Sheet size: 12x17". 20 ga. steel. Sh. wt. 2 1/2 lbs.

XB085, Net 98¢

SEE LEO WOGFQ FOR THE BEST TRADE-IN DEAL

SPECIAL RELEASES



A 12 VDC Dynamotor. 12 VDC input. Output: 440 VDC at 400 ma. The ideal dynamotor for mobile installations. Mounted on base plate for easy installation. Overall size: 9" L x 4 1/2" W x 5 1/4" H. Sh. wt. 17 lbs. Reg. value \$75.00.

XA068, Net \$14.95

B Model BC-459 (ARC-5). Makes a wonderful VFO. Covers 7-9.1 mc. Brand new in original cartons. Complete with tubes. Wt. 10 1/2 lbs.

XB083, Net \$7.95

Model BC-458. Same as BC-459 but covers 5.3 to 7 mc. Makes an ideal VFO for SSB. Brand new and in original cartons. Complete with tubes. Sh. wt. 10 1/2 lbs.

XA082, Net \$7.95

C Receiver Model BC-455. Covers 40 meter band. Covers 6 to 9 mc. Brand new and in original cartons. Complete with tubes. Sh. wt. 8 lbs.

XA084, Net \$6.95

Power Transformer Model PC-8417. An ideal power transformer for AC power supply for BC-455 receiver. 220-0-220 V. AC at 50 ma. 25.2 V. at 0.5 amp for filaments. Rectifier filament 6.3 V. AC at 0.6 amp. for 6AX5, 6X4 or selenium rectifier. Primary 117 V. AC. Sh. wt. 2 1/2 lbs.

13B156, Net \$4.35

D IF Transformer Set. Sub-miniature 455 KC IF transformers. Size: 1/2 x 1/4 x 1 1/2". Perfect for new construction or replacement in "Personal" portables. Sh. wt. 6 oz.

XA987, Net Per Pair . . . \$1.38

E RG-78/U Coaxial Cable. Excellent for transmitters up to 500 watts input. Similar to RG-8/U. 52 ohms impedance. Shpg. wt. per 100 ft. 11 lbs.

A-1, Per ft. 5¢

Per 100 ft. \$3.50

D

F thru **L** CAPACITORS

F 3 mfd-1000 WVDC oil filled. Dimensions: 2 1/2" wide, 4-5/8" high, 1-1/8" deep. Excellent filter condenser for low voltage power supplies. Sh. wt. 1 1/2 lbs.

XA915, Each 95¢

F Bargain priced oil-filled condenser rated 3 mfd. at 2000 V. Overall height: 5 1/2". Mtg. ctrs: 4 1/4". Sh. wt. 2 lbs.

XB027, Only \$3.95

G A great value in a popular 4 mfd-2000 WVDC capacitor. Size: 3 1/2" wide, 5" high, 2 1/2" deep. Sh. wt. 3 1/2 lbs.

XA917, Each \$4.95

G 8 mfd-1000 V. oil-filled. Size 3 1/2 x 1 1/2 x 5 1/2" overall height. Sh. wt. approx. 2 lbs.

XA945, Only \$1.89

2 For \$3.50

H 4 mfd-600 WVDC oil-filled capacitor. Solder lug terminals. 1 1/2" dia. 4 1/2" high above chassis. With lock washer and mtg. nut. Sh. wt. 1 lb.

XA913, Only \$1.39

J 8-8-8/500 WVDC. Excellent for Power Supply filter or for use as motor starting capacitor for motors up to 220 VAC. Size: 5 x 4 1/2 x 2". Sh. wt. 4 lbs.

XA899, Only \$1.95

K 6-6 mfd. at 600 V. oil-filled. Overall size: 5-1/8 x 2 1/4 x 2-5/8". Sh. wt. approx. 2 lbs.

XB025, Only \$1.19

L 50-30 mfd. at 150 V. Tubular with strap. Sh. wt. approx. 4 oz.

XB727, Only 79¢

M Tie Lug Assortment. 50 assorted tie lug strips. Indispensable to the builder and experimenter. Sh. wt. 1 lbs.

XA048, Net \$1.09

ITS EASY TO BUY FROM WRL

N TV Knob Kit. Stop beating your brains out trying to replace lost or broken TV knobs. Kit of 50 popular TV knobs. Assorted types and colors. Packaged in heavy plastic sack. Shpg. wt. 2 lbs.

XB033, Only \$2.98

O Brilliance Glass Cleaner. It cleans and glazes glass surfaces. Leaves a protective coat that is resistant to finger marks, also repels dust. Excellent for TV picture tube safety glass, mirrors, showcases, windows, refrigerators, chromium, stainless steel, plexiglass, formica surfaces, enamels, etc. Supplied with spray device for easy application. 8 oz. bottle. Shpg. wt. 12 oz.

0A145, Only \$1.15

P Line Cord. 8 ft. long with AC plug on one end. Sh. wt. 10 oz.

XA949, Net 19¢

Q Extension Cords. Parallel wire cords. Two conductor 16 ga. Moulded rubber plug one end, moulded rubber single outlet other end. Av. sh. wt. 1 lb.

XA927, (15 ft. cord) Net . . . 55¢

XA931, (25 ft. cord) Net . . . 86¢

R 7-Pin Miniature Socket. Ceramic socket with shield base. Center grounding post. Sh. wt. 3 oz.

XB019, Net 10¢

9-Pin Miniature Socket. Same as above but for 9-pin noval base tubes. Sh. wt. 3 oz.

XB021, Net 15¢

S Carbon Lip Mike. Very good for Mobile installations. Microphone band fastens around head leaving hands free for driving and operating rig. Mike unit may be detached from band for other type mounting if desired. Complete with headband and cord plug. Brand new in original carton. Sh. wt. 1 1/2 lbs. Regular \$10.00 value.

XA066, Net 49¢

SPECIAL RELEASES



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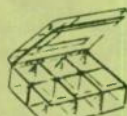
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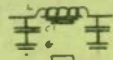
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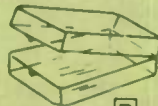
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A Aluminum Tubing. Ideal for Beam elements, masts, etc. 61ST .058 wall seamless tubing. Each telescopes into the next size with a snug fit. Repair your beam or build that "Plumbers De-light" Now! Available in 12 foot lengths only.

No.	Size O.D.	Sh. Wt.	Net
73A001	3/8"	2 lbs.	1.83
73A002	1/2"	2 lbs.	2.07
73A003	5/8"	2 1/2 lbs.	2.59
73A004	3/4"	3 lbs.	2.89
73A005	7/8"	3 lbs.	3.26
73A006	1"	3 1/2 lbs.	3.77
73A007	1-1/8"	4 lbs.	4.18
73A008	1-1/4"	4 lbs.	4.65
73A009	1-3/8"	4 1/2 lbs.	5.06
73A010	1-1/2"	5 lbs.	5.71

B Heavy Duty AC Plug. Moulded rubber plug. Heavy duty type for use on power tools and equipment that draws heavy power. Sh. wt. 5 oz.

XA797, Only \$1.10

C Fused Plug. An excellent method of protecting your equipment from damage. Fuses are easily replaced. Use proper fuses for your particular application. Less fuses. Sh. wt. 3 oz.

XA923, Net 45¢

D Aerial Kit Model 2103. A complete kit of parts for assembly of a professional antenna. Attractively packaged in a multi-colored display box. Contains: One coil 7/26-50 ft. stranded copper aerial wire, one coil 25 ft. rubber covered lead-in wire, one Ground Clamp, one lead-in strip, two porcelain insulators, two Nail-It knobs, and one instruction sheet. Sh. wt. 2 1/2 lbs.

50A095, Net \$1.90

E Air Padders. Av. sh. wt. 5 oz.

Cat. No.	Plates	Mmfd.	Ea.
XA143	28	100	.49
XA139	7	25	.25

F Trimmers. Av. sh. wt. 4 oz.

XA265, 3 to 30 mmfd. Net... .15
XA887, 10 to 100 mmfd. Net... .15
XA889, 10 to 200 mmfd. Net... .15
XA851, 40 to 500 mmfd. Net... .15

G Deluxe Cabinet Racks. They have rounded corners and attractive red-lined chrome trim. Recessed, hinged door on the top with a snap catch. Made of heavy gauge steel. Grey wrinkle finish. Hinged rear door. Adequate ventilation. Size: 14 1/2" deep, 22" wide, 28-3/16" high. Panel space: 26 1/4". Fits standard 19" panels. Sh. wt. 50 lbs. Reg. \$22.05 Value!

XA955, Your Cost Each. \$14.50

H Earphone Cushions. Surplus ear cushions at a tremendous saving. Will fit Trimm, Featherweight, Commercial or Acme models, or any other earphones with same size cap. Sh. wt. is 4 oz.

XB037, Net Per Pair 39¢

J 12 Volt Relay. A compact relay for mobile use. 12 VDC. DPST contacts. Large silver plated contacts. Rugged construction. Sh. wt. is approximately 14 oz.

XB001, Each 98¢

K Rear Seat Speaker Kit. Complete kit consisting of grille, wired switch and bracket. All that is necessary for you to do is attach speaker to grille and solder to leads. Sh. wt. 1 1/4 lbs.

XA653, Net \$2.49

L Regency All-Channel UHF Converter Model RC-600. Allows reception of new UHF TV channels on present VHF receivers. UHF-VHF reception. Uses 300 ohm line. Single tuning knob. Self-powered. Input and output 300 ohms. Complete with tubes, ready for immediate operation. Dimensions: 9-5/8x7-5/8x5-3/8". For 110 VAC operation. Shpg. wt. 7 lbs. Reg. Price \$37.46.

76AX021, Only \$19.95

M AC Line Filter. Reduce TVI the inexpensive way. Use one on each side of your power line. Consists of choke mounted on an iron core, & two bathtub condensers. Capable of handling high currents. In metal case. Sh. wt. 3 1/4 lbs.

XA397, Per Pair \$1.95

N WRL Panel Meters. 3" square panel meters. Built to WRL's exacting specifications by one of the leading meter manufacturers. D'Arsonval movement. Wt. 2 lbs.

XA971, (0-100 Ma.) Net... \$6.95

XA973, (0-300 Ma.) Net... \$6.95

XA975, (0-400 Ma.) Net... \$6.95

O Meter Shields. Help eliminate TVI. Fit WRL meters shown above. Holes for leads. Wt. 4 oz.

XB047, Each \$1.50

P Scotch Lite Letters. Used for call letters on autos, etc. Adhesive back. Each letter is red and 1-7/8" high. Sh. wt. per 10, 4 oz.

65A036, Per Letter 10¢

Q Plastic Boxes. Hinged cover plastic boxes. Handy for storage of screws, nuts, small parts, etc. Excellent for the fisherman. Will hold files, hooks, swivels, sinkers, etc. Small enough to slip into the pocket.

Type P220. 6 compartments. Overall measurements: 4 1/2x2 1/2x1". Sh. wt. 3 oz.

XA054, Net 25¢

Type P221. Same size as above but has only 4 compartments. Sh. wt. 3 oz.

XB055, Net 25¢

R Plastic Box. Hinged cover. Snaps shut. Ideal for storing small hardware such as nuts, screws, washers, small parts, fish hooks, fishing flies, etc. 1 1/2x2 1/2x1-3/16". Sh. wt. 2 oz.

XB031, Net Each 9¢

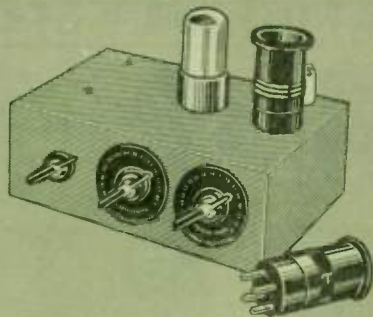
3 For 25¢

SPEAKER RECON SERVICE

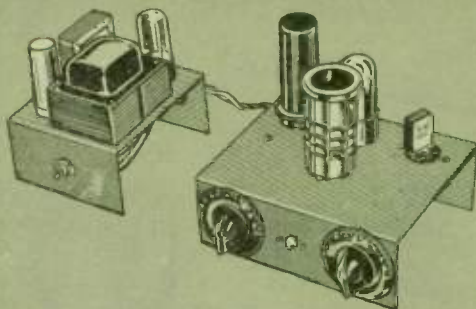
Speaker frame all that is necessary. Service includes new voice coil, spider, cone, and outside ring.

Size	Net	Size	Net
3"	1.65	10"	3.29
4"	1.65	12"	3.64
5"	1.79	15"	4.71
6"	1.93	4x6"	2.21
7"	2.29	5x7"	2.57
8"	2.57	6x9"	2.93

HAM HEADQUARTERS FOR EQUIPMENT AND INFORMATION



NR-300 Receiver



NT-200 Transmitter & Power Supply

Philmore Novice Radio Station

THE COMPLETE NOVICE RADIO STATION

These Philmore Novice Kits were specially designed to provide ease of assembly and ease of operation. Kits cover 3.7 to 3.75 mc, 7.175 to 7.2 mc and 21.10 to 21.25 mc. Transmitter kit includes power supply which can also be used to power Receiver. Receiver or Transmitter kits may be purchased separately. Save money by buying the complete station. Complete station shpg. wt. 17 lbs.

Total Price Complete Amateur Station. 43.22

NOVICE RECEIVER KIT MODEL NR-300

Highly sensitive circuit utilizes dual triode 6SN7GT tube as regenerative detector and audio amplifier. Main tuning plus bandspread for ease of tuning. Plug-in coils for efficient band coverage. Power requirements obtained from transmitter power supply, by cable, plug and socket which are furnished. Kit includes pre-punched chassis, component parts, coil forms and wire for 40 and 80 meter coils. Complete step-by-step instructions plus pictorial and schematic diagrams. Shipping weight 5 lbs.

75A008. Net 14.70

NOVICE TRANSMITTER KIT MODEL NT-200

25 watts power input. 6V6 in tuned Pierce type oscillator. 6L6 tuned output amplifier with P1 type tuning system. Works with simple single wire antenna. No meters required for tuning and loading antenna. Pictorial wiring diagrams. Complete testing and operating instructions provided, together with instructions for winding coils. Low loss plug-in coil forms pre-drilled for windings. Kit supplied with pre-punched chassis, tubes and key. Less hook-up wire, solder & crystals. Power Supply has adequate output to supply both transmitter & receiver. Output under load 370 VDC at 100 Ma. Pre-punched chassis plus all component parts & 5Y3 rect. incld. Sh. wt. 12 lbs.

81A052, Net 29.40

ACCESSORIES

40 and 80 meter crystals, Net each 2.88
2A048, 100 ft. No. 14 antenna wire, Net 1.42
XA159, Antenna Insulators, Net each08
50A005, Headphones, Net 1.97
3A063, 25 ft. Hook-up wire, Net41
6A266, 3 oz. roll solder, Net17

TUBES! TUBES! TUBES!

WRL BRAND TUBES! YOUR CHANCE FOR TREMENDOUS SAVINGS!

Tubes are fully guaranteed and individually boxed.



RECEIVING TUBES. Av. sh. wt. 8 oz.

CAT. NO.	TYPE	LIST	NET
XA012	1X2A	2.50	1.01
XA014	1B3GT	2.50	1.01
XA807	5U4G	1.70	.69
XB001	5Y3GT	1.25	.51
XA521	6AB4	1.70	.69
XA809	6AG5	2.05	.83
XB039	6AK5	4.20	1.71
XA016	6AH6	3.45	1.40
XA499	6AL5	1.55	.63
XA811	6AQ5	1.85	.75
XA501	6AT6	1.50	.60
XA018	6AX4GT	2.35	.95
XA525	6BA6	1.80	.73
XA813	6BC5	2.00	.81
XA505	6BE6	1.90	.77
XB029	6BG6G	5.20	2.11
XA525	6BJ6	1.95	.79
XA815	6BK7	2.90	1.17
XA020	6BL7GT	3.25	1.32
XA817	6BQ6GT	3.50	1.42
XA821	6BZ7	3.40	1.38
XA507	6CA	1.50	.60
XB031	6C5	2.00	.81
XA557	6CB6	2.00	.81
XA022	6CD6	4.70	1.90
XB043	6K6GT	1.65	.67
XA823	6J6	2.35	.95
XA509	6S4	1.75	.70
XA024	6SJ7GT	1.65	.67

CAT. NO.	TYPE	LIST	NET
XA026	6SK7GT	2.00	.81
XA825	6SL7	2.45	.99
XB057	6SN7GT	2.15	.87
XA563	6T8	2.90	1.17
XA827	6U8	2.85	1.15
XA529	6V6GT	1.85	.75
XB065	6W4GT	1.75	.71
XA028	6W6GT	2.25	.91
XA030	7N7	2.35	.95
XA511	12AL5	1.65	.67
XA513	12AT6	1.50	.60
XA829	12AT7	2.60	1.05
XA531	12AU6	1.70	.69
XA561	12AU7	2.20	.89
XB013	12AV7	3.05	1.23
XB019	12AX4GT	2.45	.99
XA533	12BA6	1.80	.73
XA515	12BE6	1.90	.77
XA032	12BH7	2.55	1.03
XA034	12SK7GT	2.00	.81
XB009	12SN7	2.15	.87
XA036	12SQ7GT	1.75	.70
XA038	25BQ6GT	3.65	1.48
XA535	35B5	2.10	.85
XA040	35C5	1.90	.76
XB005	35L6GT	1.95	.79
XA042	50L6GT	1.95	.79
XA519	117Z3	1.85	.75

TRANSMITTING TUBES

Average shipping weight is 1 lb.

CAT. NO.	TYPE	NET
XA074	0B2	.79
XB075	5AP1	1.95
XA076	6AK5	.79
XA891	6L6	1.29
XA495	807	1.59
XA837	866A	1.59
XB017	872A	1.98
XB079	5516	4.95
XA078	9002	.69

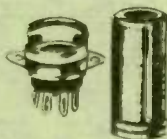
Type 838. Hi-mu triode. Designed for use as a zero-bias Class B audio-frequency amplifier. Very similar to 805. Av. sh. wt. 1 lb. Reg. price \$13.75.

XB077, Your cost 1.95

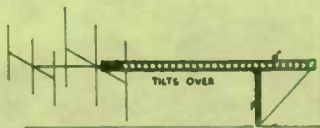
9-PIN SOCKET AND SHIELD

For 9-pin novel base tubes. Includes socket with shield, base and shield. Sh. wt. 3 oz.

XA901, . . . 15¢



XA877. As above but 7-pin. 3 oz. Only 15¢



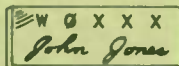
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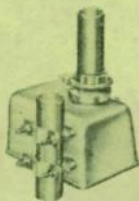
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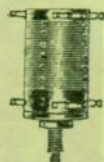
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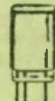
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Gotham Beam Antennas

WRL can supply all Gotham Beam antennas as advertised in QST. Place your order through WRL, the world's largest distributor of Amateur equipment.

A-E-Z Way Towers. Cranks up and down and tilts over. All steel construction. Electric arc welded. Easily installed. Write for complete literature and details. Rotor mounting plates drilled for VDX Model VB rotor (see below). E-Z Way towers shipped direct from factory Tampa, Florida.

Model RBD-40. Designed to support a 3 element, 20 meter short beam at 40 foot in winds up to 60 mph. No guy wires. Complete with ground post. Sh. wt. 245 lbs.

72B137, Net 120.00

Model RBS-50-60. Designed to support a 3 element, 20 meter short beam at 50 ft. and a 3 element, 10 meter short beam at 58 ft., or a 3 element, 20 meter full beam at 50 ft. in winds up to 60 mph. No guy wires. Wt. 480 lbs.

72B138, Net 210.00

VDX Rotor Model VB. For use with above towers. Sh. wt. 16 lbs.

117AF002, Net 25.77

B & W Coaxial Connector Model CC-50. Provides watertight coaxial cable connections for antenna. Also serves as center insulator for a half doublet. Convenient soldering connection. Wt. 1 1/4 lbs.

30A027, Net 5.85

C Smith Connector. Solves problem of feeding a half-wave doublet with coax line. Sh. wt. 8 oz.

1A390, Net 3.95

D Yaero Kwik-On Connector. Connect or disconnect your antenna with a push and twist in less than 5 seconds. No tools required. Fits all standard whip antennas. Stainless steel. Sh. wt. 8 oz.

26B028, (Model KO1) Net . . 3.95

E RMS Rotor Model M-55. Compact control unit of handsome non-breakable mahogany polystyrene. Rotor unit in weather sealed all-aluminum housing. Instant braking. Full 370° rotation. Direct drive for high torque. An excellent and economical rotor for TV antennas and "Shorty" Amateur beams (see thrust bearing below). Sh. wt. 9 lbs.

117BF012, Net 15.99

RMS Model R-55. Same as above but control unit has indicator lights instead of meter type direction indicator. Sh. wt. 9 lbs.

117BF013, Net 11.97

Thrust Bearing Model TB-2. For additional strength, rigidity when using heavy TV antennas or Amateur beams. Sh. wt. 1 1/4 lbs.

83A024, Net 2.97

F Ameco Low-Pass Filter Model LN-2. Suppresses radiation of all frequencies above 40 MC thereby removing a major cause of TVI. Designed for 52 to 72 ohm co-axial cables. Negligible insertion loss. Handles up to 200 watts RF power. With SO-239 connectors. Sh. wt. 1 lb.

50A132, Net 3.45

Ameco Low-Pass Filter Model LN-1. Same as above but with RCA type phono jacks. Wt. 1 lb.

50A133, Net 1.95

G Ameco VHF Balun. Provides optimum coupling between 300 ohm line and 50 to 75 ohm co-ax for receivers and converters. Designed for reception of 50 to 220 MC. Sh. wt. 1 lb.

50A134, Net 3.75

H Personalized Cuff-Links. Makes an excellent gift for the Amateur. Name and call-letters etched into heavily chrome plated brass cuff-links. When ordering send signature written in black ink on good quality paper. Specify call letters (please print clearly to avoid error). Sh. wt. 1 lb.

Net, Per Pair (Tax Included) 5.50

J Cambridge Thermionic Corp. Slug Tuned Coils. Ideal for all types of RF circuits in receivers, converters, etc. LSM, LS3 and LS4 are phenolic. LS5 and LS6 are ceramic. Sizes: LSM, 27/32x1/4" dia.; LS3, 1-1/8x3/8" dia.; LS4, 2x1/4" dia.; LS5, 1-1/16x3/8" dia.; LS6, 27/32x1/4" dia. Sh. wt. 4 oz.

Cat. No.	Type	Desc.	Net
51A140	LS3	Coil Form	.50
51A133	LS3	1 Mc coil	.93
51B124	LS3	5 Mc coil	.87
51B125	LS3	10 Mc coil	.84
51A134	LS3	30 Mc coil	.82
51B126	LS3	60 Mc coil	.78
51A139	LSM	Coil Form	.50
51A135	LSM	1 Mc coil	.93
51B127	LSM	5 Mc coil	.87
51B128	LSM	10 Mc coil	.84
51A136	LSM	30 Mc coil	.82
51B129	LSM	60 Mc coil	.78
51B130	LS4	Coil Form	.66
51B131	LS5	Coil Form	.65
51B132	LS6	Coil Form	.58

K National Coil Form Model XR-50. Mica filled bakelite coil form. Iron slug tuned. Coil winding dia. 1/4"; coil winding length is 11/16". Sh. wt. 4 oz.

49A070, Net 1.04

L National Coil Form Model XR-60. Ceramic form may be wound as desired. Grooved for #26 wire and has iron slug. 1" dia. 1-13/16" H. overall. Sh. wt. 6 oz.

49B071, Net 1.32

National Coil Form Model XR-62. Not grooved. Winding length, 1 1/4". Dia. 1". Ceramic material, iron slug. Sh. wt. 6 oz.

49B072, Net 1.32

M Hydro-Aire CQ-1 Transistor. Designed for use in medium gain, low-to-medium power amateur radio applications. PNP type, hermetically sealed, housed in metal case. Sh. wt. 2 oz.

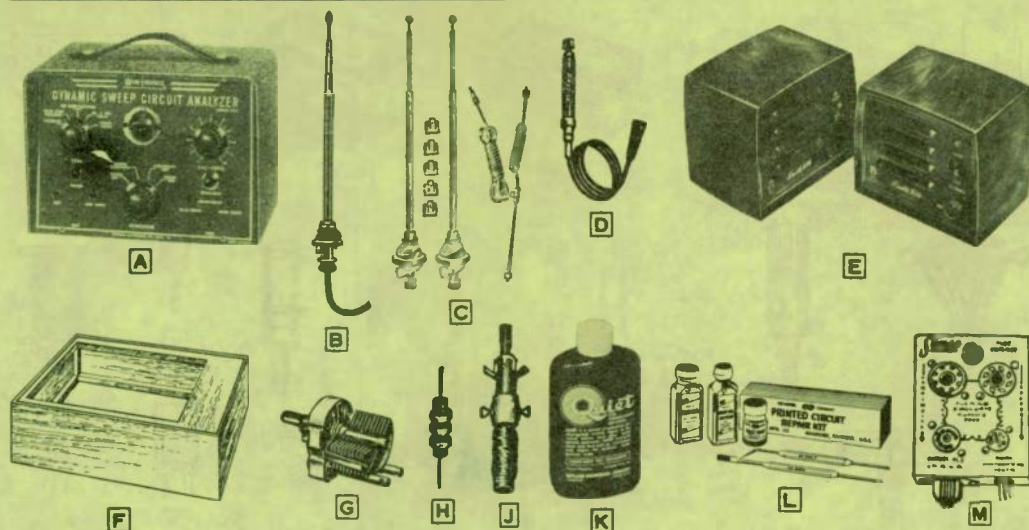
16A052, Net 2.47

Type 2N107. G-E Germanium junction transistor. Sh. wt. 2 oz.

16B042, Net 1.25

ANY EQUIPMENT MAY BE PURCHASED ON MONTHLY PAYMENT PLAN - SEE PAGE 153

LATE RELEASES



A Winston Sweep Circuit Analyzer Model 820. Sweep circuit troubleshooting simplified by signal substitution and component testing. Signal output: 15,734 cps sawtooth adjustable, 15,734 square wave adjustable, 60 cps sawtooth locked to line. Oscillating neon tube indicator with DC amplifier for Flyback/Yoke test. Calibrated for color and black and white. Sh. wt. 11 lbs.

115A090, Net 59.95

B Ward Dura-Ramic Antennas Model PA-2. New Ward Dura-Ramic fiberglass antennas. Available in six colors to compliment any car color. Aerial length proved long enough to give good reception without static—short enough to clear garage doors. Sh. wt. each, 1 lb.

Cat. No.	Color	Cat. No.	Color
25A022	Yellow	25A017	Blue
25A019	Green	25A020	Red
25A018	Brown	25A021	White
Net Each 4.77			

Model WDD-4. Carton of six antennas (one each color) as above in handsome self selling display package. Sh. wt. 6 lbs.

25A023, Net 28.62

C Snyder Dual Antenna Kit Model RD-8. Dual auto antennas designed for mounting on rear fenders. Permits better vision. Better reception as antennas are away from ignition system. Kit consists of two 3 section staffs, 13½" collapsed, 27" extended. 15 ft. Hi-Q co-axial cable with connectors attached; no taping, no splicing. 5 clips for attaching lead to body. Antennas adjustable to 180°. Sh. wt. 3 lbs.

25A024, Net 5.23

D Remote Tuner Model SMK. A boon to the TV serviceman. Enables adjustment of rear controls on TV set from front eliminating bothersome mirror. Sh. wt. 1½ lbs.

83A025, Net 2.89

E Intercom Model DT-100. Ideal in homes as baby sitter, house to garage or basement, etc.; offices, factories. Master unit features volume control with on-off switch and press-to-talk switch. Remote unit has press-to-talk switch and easy-to-reach rear mounted switch for continuous talk. Quality 4" pm speakers. 1.8 watts output. Smart, mahogany bakelite cabinets. Complete with 50 ft. of 3-wire cable. Wt. 6 lbs.

112AF018, Net 17.97

Model DTR-100. Additional remote station with push-button selector switch. Sh. wt. 3 lbs.

112AF019, Net 5.97

3-wire cable for DTR-100 remote unit. 25 ft. coil. Sh. wt. 1½ lbs.

2A157, Net 79

F Rondine Turntable Base. Designed especially for use with Rek-O-Kut Rondine turntables (see page 31). Takes any transcription arm up to 16". Hand-rubbed mahogany veneer finish. Size: 17x6½x21". Sh. wt. 10 lbs.

129AF040, (Mahogany) Net . . 19.95

129AF041, (Blonde) Net . . 19.95

G Hammerlund Capacitors Type APC With Shaft. Same as type APC capacitors shown on page 97 but have shafts. Shaft is ¼" dia. x½" long. Sh. wt. 6 oz.

No.	Type	Max	Min	Net
20A036	APC-25B	25	3.0	1.29
20A037	APC-50B	50	3.9	1.35
20A038	APC-75B	75	4.6	1.44
20A039	APC-100B	100	5.5	1.56
20A040	APC-140B	140	6.7	1.82

Type MAPC. Same in appearance and quality as Type APC except are about half the size of Type APC. Excellent for VHF use. Sh. wt. 4 oz.

No.	Type	Max.	Min.	Net
20A041	-15B	15	2.3	1.29
20A042	-25B	25	2.6	1.32
20A043	-35B	35	2.9	1.35
20A044	-50B	50	3.2	1.44
20A045	-75B	75	3.9	1.56
20A046	-100B	100	4.5	1.82

H RF Ferri-Chokes. Pi-wound RF chokes on iron cores. Compact. Large increase in Q. Important reduction of DC resistance. Av. sh. wt. 4 oz.

No.	Type	Desc.	Net
10A045	F-25	2.5mh-125ma	.45
10A046	F-50	5.0mh-125ma	.51
10A047	F-100	10.0mh-125ma	.60
10A048	HD-25	2.5mh-300ma	.48

J Vari-Chokes. Precision variable RF chokes with an inductance variation as high as 10 to 1. Maximum inductance in minimum space. Av. sh. wt. 6 oz.

Cat. No.	Type	Desc.	Net
10A050	V-2	40-250uh	.40
10A051	V-5	150-750uh	.60
10A189	V-6	.65-6mh	.72
10A052	V-25	5-43mh	.84
10A053	V-60	30-130mh	1.20

K Quiet. A special preparation for phonograph records. Prevents static and dust pick-up. Lubricates and cleans grooves. Helps prevent wear. Contains no solvents. Sh. wt. 10 oz.

0A114, Net 1.50

L G-C Printed Circuit Repair Kit. For repair of new printed circuits in TV sets, Radios, Hearing aids and other electronic devices.

No. 680. Complete kit of necessary materials. Sh. wt. 1 lb.

0B092, Net 5.75

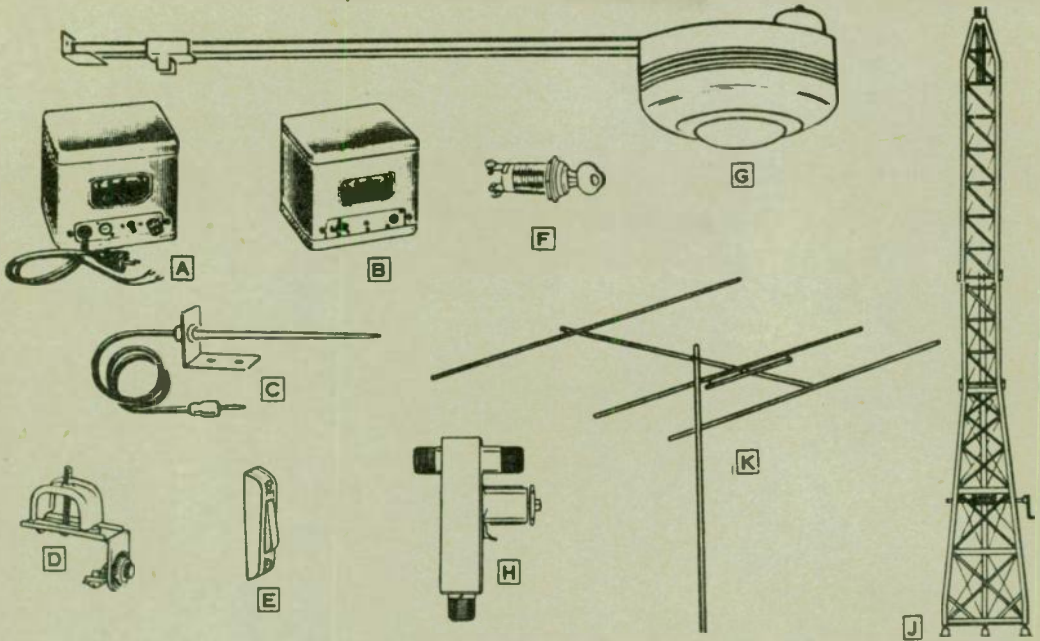
No. 681. Same as above but less Pure Silver Print. Sh. wt. 1 lb.

0B089, Net 3.41

M Senco Series Filament Tube Checker Model FC-3. Quickly shows bad tube in new series filament TV sets. Merely disconnect "cheater" cord from TV set and plug into checker—eliminates looking for AC outlet. Plug intube. If neon glows, filament is good. Wired for all new tubes found in series strings in TV sets (including picture tubes). Used also for AC-DC radios and portables. 10 oz.

115B001, Net 3.95

ITS EASY TO BUY FROM WRL



A thru G Perma Power Electronic Garage Door Opener. Modern, neat and simple unit. Shipped completely assembled with a track of sufficient length for 8 ft. high doors. Only 2" clearance between ceiling and high arc of door travel is required. $\frac{1}{4}$ hp, 117 Volt, capacitor start motor has ample capacity to operate one piece or sectional doors up to 18 ft. wide which open between horizontal roller tracks. 24 volt control circuit. Door stops instantly if it hits an obstacle. Completely automatic. Manual operation possible in event of power failures. Radio controlled or by key switch.

A B C D E G Model G212. Complete system includes operator, radio control, antenna, mounting hardware, wall button with wire, dash button, complete instructions. Sh. wt. 95 lbs.
113AF001, Net 139.50

E G Model G412. Operator only includes motor mechanism, mounting hardware, wall button with wire, for electrical operation. Sh. wt. 85 lbs.
113AF002, Net 98.00

A B C D Model G314. Radio-control includes receiver and transmitter (6 or 12 volt operation without adapter), antenna, dash button. Sh. wt. 10 lbs.
113AF003, Net 56.00

B C D Model G315. Extra transmitter for additional car (6 or 12 volt operation without adapter) includes antenna, dash button. Sh. wt. 7 lbs.
113AF004, Net 24.50

E Model G512. Extra wall button switch for electrical operation from additional indoor position. 4 oz.
113AF006, Net36

F Model G511. Key switch for electrical operation from outdoor jamb or driveway post. Sh. wt. 4 oz.
113AF005, Net 4.20

H Dow-Key Relay Model DKC-110V, DC. With type "N" connectors for use with new Collins KWS-1 transmitter. Sh. wt. 8 oz.
54A161, Net 12.50
Model DKT-1E. Co-axial type relay but for 300 ohm transmission line. 115-VAC operation. Sh. wt. 8 oz.
54A160, Net 8.50

J New Lewis Vertical Antenna. Equipped with winch-operated Snorkel Mast which permits you to vary the electrical length of your antenna by 18 feet. Screw-in anchor feet withstand 4,000 pounds strain—field tested in 80 mph winds. Requires less than 1 square yard at base—low standing wave ratio characteristics—broad band. All models are complete ready to erect as shown, including round anchors, insulators, tower sections, 20 foot snorkel mast, mast cable, winch, all necessary hardware and instructions. Can be used on any amateur VHF band but the most satisfactory band for each tower is mentioned below. All Lewis Antennas shipped F.O.B. Factory, Racine, Wisconsin.

Lewis 2-37. For 10-20-40 meter bands. Height 24 $\frac{1}{2}$ ' (snorkel down) 37 $\frac{1}{2}$ ' (snorkel up) 2 sections. Sh. wt. 175 lbs.
69B005, Net 89.50

Lewis 3-47. For 20-40-80 meter bands. Height 29' (snorkel down) 47' (snorkel up) 3 sections. Sh. wt. 215 lbs.
69B006, Net 107.60

Lewis 4-56. For 20-40-80 meter bands. Height 38 $\frac{1}{2}$ ' (snorkel down) 56 $\frac{1}{2}$ ' (snorkel up) 4 sections. Sh. wt. 255 lbs.
69B007, Net 124.80

Lewis 5-66. For 40-80-160 meter bands. Height 48' (snorkel down) 66' (snorkel up) 5 sections. Sh. wt. 295 lbs.
69B008, Net 142.00

K WRL Beams. Sturdy, well built, 3-element beams. Design allows antennas to withstand heavy abuse from the weather. Booms are 1 $\frac{1}{4}$ " hot dipped galvanized steel tubing. Boom and elements reinforced with hardwood dowel at all stress points. Element ends plugged to keep out moisture. Spacing: .1 on director and .15 on reflector. Supplied with material and instructions for "T" or "Gamma" match for either coax or balanced feed lines. Prefabricated for quick assembly. Unconditionally guaranteed on all materials and workmanship. 20 M. beam has double boom.

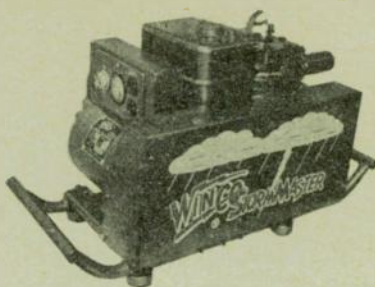
69A025, 10 meter beam. Sh. wt. 22 lbs. **Net . . . 18.95**
69A026, 15 meter beam. Sh. wt. 34 lbs. **Net . . . 27.95**
69A027, 20 meter beam. Sh. wt. 44 lbs. **Net . . . 49.95**

PURCHASE ANY EQUIPMENT ON MONTHLY PAYMENT PLAN—SEE PAGE 153

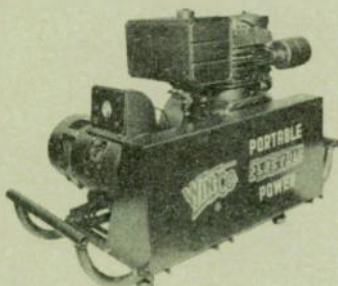
WINCHARGER GENERATORS



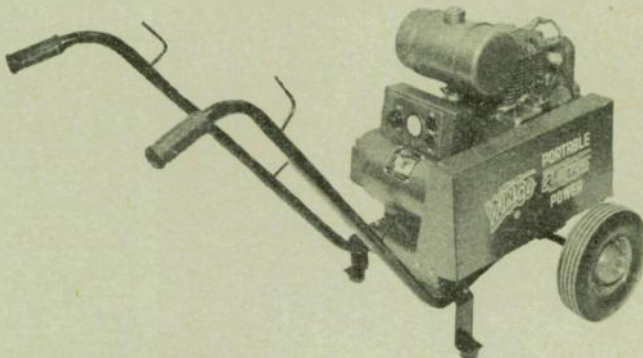
A



B



D



C 2AKN-1M on 253 Speedy-Shift Base.

Winco Engine Generators

Economy engineered engine generators have a multitude of uses. Provide regular or emergency standby power for the farm, ranch and home, hatcheries, greenhouses, hospitals, etc. Ideal portable power for contractors, engineers and construction men. May be used as standby power for radio stations and ham transmitters, etc. Units available up to 10,000 watts—write for prices and details. All Winco units shipped F.O.B. Factory Sioux City, Iowa.

A Model 700-11. 500 watts, 115 V., 60 cycles AC, single phase. Has 40% reserve capacity for motor starting. Plenty of power to operate a wide variety of portable tools for garden or shop. Conforms to accepted electrical standards. Equipped with sealed ball bearings "lubricated for life". Engine maintenance costs kept to minimum as operated at optimum speed for maximum performance and smoothness. Outlet box provides two twist-lock type 115 Volt outlets in parallel. Belted construction makes servicing easier, cushions shock and vibration in the coupling between engine and generator thus reducing light flicker. Maximum dimensions, floor mounted: 27½" L x 12½" W x 14½" H. Rope start. With Briggs and Stratton No. 6 engine. Sh. wt. 98 lbs. Net 169.00

Model 187 Speedy Shift Base. For easy portability of Model 700-11. Net 18.75
"Silentair" extra quiet exhaust muffler for Model 700. Net 3.00

B Model F1800-11. Rating: 1000 watts, 115 V., 60 cycle, single phase alternating current. Generator is 2-pole, self-excited, rotating armature, 3600 rpm, close inherent voltage regulation. Commutator: mica insulated. Bronze slip rings. Insulation: Class "A" double dip and bake. Sealed ball bearings, lubricated for life. Starting capacity: 1800 watts. Standard equipment includes Briggs and Stratton No. 8 engine, generator; main frame; belt; pulleys; guard; muffler; control box with 115 volt duplex twist lock receptacle, voltmeter and fuse; starter rope. Wt. 114 lbs. Net 210.00

Model 187 "Speedy Shift" portable base for Model F1800-11. Net 18.75
Silentair extra quiet exhaust muffler for Model F1800-11. Net 7.90

C 2000 Watt Generators. 115 Volt, 60 cycle single phase alternating current. Available with either Briggs and Stratton No. 14 engine or Wisconsin AKN engine. Starting capacity: 3000 watts. Standard equipment includes: engine; generator; main frame; belt; pulleys; guard; muffler; control box with 115 volt outlets, voltmeter and fuse; starter rope. Approx. sh. wt. 165 lbs.

Model	Engine	Net
2B14S-1M	Briggs & Stratton No. 14	296.00
2AKN-1M	Wisconsin AKN	311.50

Model 253 Speedy Shift base for the above models. Net 25.50

D Model 305B23S-1M. Rating: 3500 watts, 115 Volts, 60 cycles, single phase alternating current. Standard equipment: Control box mounted on generator contains; start-stop buttons, starter solenoid, electric choke solenoid, charge rate ammeter, reverse current relay, battery terminals, battery cables (Batteries not included), shock absorbers, muffler, hand crank. Sh. wt. 332 lbs.

Net 412.50
Speedy Shift dolly for Model 305B23S-1M. Net 28.75
Silentair extra quiet muffler for Model 305B23S-1M. Net 4.80
Underground fuel tank—55 gallon capacity. Model 22314. Net 51.00

EASY PAYMENT PLAN

Any equipment in this catalog may be purchased on easy time payments. See page 153 for complete details.

[illegible]

EE CREDIT AP

MONTHLY PAYMENT PLAN

Get that New Equipment Now—Pay While You Use It!



USE THIS HANDY CREDIT APPLICATION AND CONTRACT FORM

For the purpose of obtaining merchandise from you on credit, or for the extension of credit, we make the following statements in writing, intending that you should rely thereon respecting our financial condition. If buyer is a minor, application must be completed and signed by parent or guardian.

Name _____ Call Letters _____ Street Address _____

City _____ State _____

Self Employed—Business Name _____ Address _____ How long _____

Where Employed _____ Address _____

Salary Per Week _____ How long on job _____ Type of work _____

Age _____ Number of Dependent Children _____ Married ☐ Single ☐

Wife's Name _____ Address _____ Employed Yes ☐ No ☐

Name of nearest relative other than spouse _____

Their Address _____ City _____ State _____

Name of your bank _____ Address _____ City _____

Have you ever purchased from us _____ On Credit _____ If so, what date _____ 19 _____

If under different name or address indicate here _____

I own real estate as follows:

Location & Description	Value	Amt. of Mortgage	In whose name recorded

Personal Reference . . . Name _____ Address _____

City & State _____ Occupation _____

THREE TRADE REFERENCES: From whom you have purchased or are buying on credit.

Name of Firm	Address	City & State	Amount

Catalog No.	Quantity	I wish to purchase the following:	Amount

How Shall We Ship ☐ Parcel Post ☐ Express ☐ Freight ☐ Air Express ☐ Best Way ☐

Enclosed is \$.....as down payment on the merchandise to be shipped. Beginning thirty days after shipment is made, I (We) will pay \$.....each month as required by your terms until the unpaid balance, including carrying charges, or future add-ons has been paid in full. Until full payment is made, I (We) agree that title to and right of possession of the merchandise shall remain in you, that I (We) will not sell, remove, or encumber the same without your written consent, that I (We) assume and shall be responsible for all loss or damage to said goods, and that upon default of any payment or payments, you may, at your option take back the merchandise or affirm the sale and hold me (us) responsible for the full unpaid balance.

Total for goods	
Sales Tax (Iowa cust. only)	
Total	
Less down payment (10% Min.)	
Net total	
Add carrying charge (see pg. 153)	
Total on contract	
Monthly payment (see pg. 153)	

Signature of buyer..... Date.....

If buyer is minor: Signature of Parent or Guardian.....

(Write—Do Not Print)

ITS EASY TO BUY FROM WRL

World Radio History

Pay Only 10% Cash Down

WRL MONTHLY PAYMENT PLAN

It's easy and convenient to order from the most geographically centered wholesale house in the United States. 8 major railroads and 3 airlines, coupled with WRL's fast service assure you of the quickest possible delivery of your orders. Most orders are filled and on their way the same day received.

Don't let the lack of ready cash keep you from enjoying your hobby. Play as you pay—as outlined below. You may pay as little as 10% down—no carrying charges if contract is paid within 60 days. If your contract is paid up before time allowed, all unearned carrying charges will be cheerfully refunded. The more you pay down, the less charges you pay, and monthly payments are less. Remember—we give the most liberal allowances on all types of used equipment, transmitters, and receivers.

HOW TO OPEN AN ACCOUNT

Make out your order, using the order blank on page 8. An application for credit will be found on the reverse side. Fill out and send to us, giving at least three trade references which have extended credit to you. Minors must have their parent or guardian sign and fill out application. Enclose your down payment and mail to us. There will be a short delay for credit investigation which we will hold strictly confidential. Most persons with a steady job can easily get credit approved.

Parts to be purchased on monthly payment plan must total at least \$50.00. No tubes sold on time payments.

DOWN PAYMENTS

The following terms show the minimum down payment required. Keep in mind the advantage of making as large a down payment as possible. You pay less carrying charges and your monthly payments will be smaller.

The minimum down payment required is as follows:

- Cash Down Payment—10%
- Trade-In Down Payment—25%
- Trade-In & Cash Down Payment—25%

Your trade-in equipment may make the entire down payment if your trade-in allowance equals or exceeds 25% of the purchase price; or you may make your down payment by trade-in and cash. Example: If purchase is \$100.00; trade-in allowance is \$15.00, balance of \$10.00 must be paid in cash.

HOW THE PLAN WORKS

Total the amount you wish to purchase, adding any tax, then subtract the amount you wish to pay down (see explanation under Down Payments). This amount is the unpaid balance to which the carrying charge is added. Locate this amount on the tables below & this will give you the amount to pay each month.

Example: WRL Globe Scout \$99.95
 10% Down Payment (minimum) 10.00
 Unpaid Balance 89.95
 Add Carrying Charge (See Table) . . . 5.40
 Total 95.35
 11 Payments at \$8.00 (See Table) . . 88.00
 12th Payment 7.35

Remember, a larger down payment lessens your carrying charges and monthly payments. Minimum monthly payment in all instances is \$5.00.

18 Months to Pay on Major Equipment

WRL TABLE OF TERMS

12 MONTHS OR UNTIL PAID IN FULL

If Unpaid Balance is	We Will Add Carrying Charges	Monthly Payment
30.00—40.00	2.10	5.00
40.01—50.00	2.70	5.00
50.01—60.00	3.30	5.50
60.01—65.00	3.90	6.00
65.01—70.00	4.20	6.50
70.01—75.00	4.50	7.00
75.01—80.00	4.80	7.50
80.01—85.00	5.10	8.00
85.01—90.00	5.40	8.00
90.01—95.00	5.70	8.50
95.01—100.00	6.00	9.00
100.01—110.00	6.30	10.00
110.01—120.00	6.90	11.00
120.01—130.00	7.50	11.50
130.01—140.00	8.10	12.50
140.01—150.00	8.70	13.50
150.01—160.00	9.30	14.50
160.01—170.00	9.90	15.00
170.01—180.00	10.50	16.00
180.01—190.00	11.10	17.00
190.01—200.00	11.70	18.00
200.01—210.00	12.30	19.00
210.01—220.00	12.90	20.00
220.01—230.00	13.80	21.00
230.01—240.00	14.10	22.00
240.01—250.00	14.70	23.00
250.01—260.00	15.30	24.00
260.01—270.00	15.90	24.00
270.01—280.00	16.50	25.00
280.01—290.00	17.10	26.00
290.01—300.00	17.70	27.00

18 MONTHS OR UNTIL PAID IN FULL

If Unpaid Balance is	We Will Add Carrying Charges	Monthly Payment
201.00—210.00	18.45	13.00
210.01—220.00	19.35	13.50
220.01—230.00	20.25	14.00
230.01—240.00	21.15	15.00
240.01—250.00	22.05	15.50
250.01—260.00	22.95	16.00
260.01—270.00	23.85	16.50
270.01—280.00	24.75	17.00
280.01—290.00	25.65	18.00
290.01—300.00	26.55	18.50
300.01—310.00	27.45	19.00
310.01—320.00	28.35	19.50
320.01—330.00	29.25	20.00
330.01—340.00	30.15	21.00
340.01—350.00	31.05	21.50
350.01—360.00	31.95	22.00
360.01—370.00	32.85	22.50
370.01—380.00	33.75	23.00
380.01—390.00	34.65	24.00
390.01—400.00	35.55	24.50
400.01—410.00	36.45	25.00
410.01—420.00	37.35	25.50
420.01—430.00	38.25	26.50
430.01—440.00	39.15	27.00
440.01—450.00	40.05	27.50
450.01—460.00	40.95	28.00
460.01—470.00	41.86	28.50
470.01—480.00	42.75	29.50
480.01—490.00	43.65	30.00
490.01—500.00	44.55	30.50
500.01—510.00	45.45	31.00

ON LARGER PURCHASES OR LONGER TERMS
PLEASE WRITE FOR DETAILS

ON LARGER PURCHASES
PLEASE WRITE FOR DETAILS

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A

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101AF005, Net. 119.95

Terms: 12.00 Down-10.00 Per Month

Receiver Model S-86. Same as S-85 Receiver, except for 105/125 V. 50/60 cycle AC-DC. Sh. wt. 36 lbs.

101AF006, Net. 119.95

Terms: 12.00 Down-10.00 Per Month



B



C

C Receiver Model S-53A. An excellent receiver for the Ham Shack. Covers 540 Kc to 31 Mc, 49-54.5 Mc in five bands. Illuminated slide-rule dial for easy vision. Two IF stages. Has separate sensitivity and volume controls; bandspread tuning; noise limiter, BFO H/Low Tone, and Speaker/Phones switches. Built-in PM speaker. Gray steel cabinet, brushed chrome trim, 12-7/8"W, 7"H, 7¾"D. Piano hinge top. Phone-input jack. 7 tubes plus rectifier. For 115 V. 50/60 cycle AC. Complete with tubes. Sh. wt. 19 lbs.

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101AF022, Net. 17.95



D

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This new receiver covers broadcast band 540-1680 Kc. plus three short-wave bands 1608 Kc.—44 Mc. calibrated for 10, 11, 15, 20, 40 and 80 meters on large easy-to-read bandspread dial. Features include: calibrated electrical bandspread. "S" meter. Crystal filter. Antenna trimmer. One RF Two IF. Terminals on rear for 3.2 and 500 ohm speakers. Switches for automatic noise limiter, code reception, three position tone control and code pitch control. Separate bandspread tuning condenser. 7 tubes plus rectifier. Grey black steel cabinet with brush chrome trim. Piano hinge top. For 105-125 VAC, 50-60 cycles. Size: $18\frac{3}{8} \times 8\frac{1}{2} \times 11$ " deep. Sh. wt. 36 lbs. Less speaker.

101AF007, Net 149.95
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101AF022, R-46B Speaker, Wt. $13\frac{1}{2}$ lbs.\$17.95

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101AF008, Net\$249.95
12 Mos. Terms: \$25.00 down, \$21.00 per Mo.
101AF022, R-46B Speaker, Wt. $13\frac{1}{2}$ lbs.\$17.95

S-38D Receiver



A new, smartly styled, low cost radio that amazes the experts. The features include: Broadcast band, 540-1650 Kc. Three short-wave bands 1650 Kc.-32 Mc. Communications type controls for accurate tuning. Separate tuning control. Headphone tip jacks on rear. Built-in PM speaker. Oscillator for reception of code signals. Four tubes plus rectifier. Gray steel cabinet with silver frame trim. Large easy-to-read dial. Size: $12\frac{7}{8}$ " wide, by 7" high, by $7\frac{1}{4}$ " deep. For 105-125 V, 50-60 cycles, AC-DC. Shipping weight is approximately 13 lbs.

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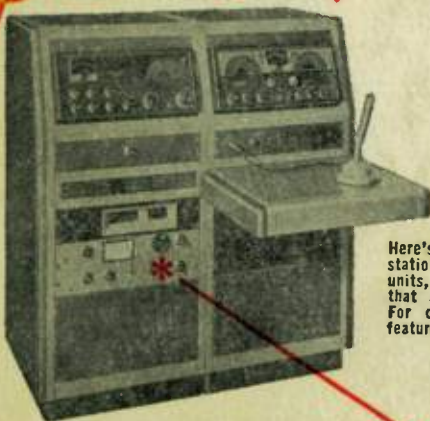
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