

Walter Ashe

COMPLETE SUPPLIER OF RADIO, TELEVISION AND ELECTRONIC EQUIPMENT

INDUSTRY

SCHOOLS

EXPERIMENTERS &
RADIO TECHNICIANS

AMATEURS

1955

WALTER ASHE RADIO CO.

1125 PINE STREET, ST. LOUIS 1, MO. • CHESTNUT 1-1125

WALTER ASHE NOVICE STATION KITS



THREE KITS \$44.95
ONLY

Read about them in the pages of RADIO AND TELEVISION NEWS [September and October 1953]. Get one or all of these swell units . . . with chassis already punched . . . ready for quick and easy assembly from simple directions furnished free with each kit.

NOVICE TRANSMITTER KIT

Two tubes—6AG7 crystal oscillator and 6L6G final amplifier.

The modified Pierce oscillator is especially noted for its excellent keying and minimum crystal strain. No fancy antenna array necessary. Pi section output circuit will work with any length wire for antenna. Simple to tune.

25 watts input to final amplifier on 80 and 40 meter Novice bands.

Pilot light tuning indicator.

Kit includes tubes, punched chassis, hardware, one crystal in holder for the 80 meter Novice band and one plug-in coil form for final amp. Less key, hookup wire and solder.

SHIPPING WEIGHT 4 LBS.

MODEL WAT-25. NET...\$17.31

Novice Power Supply Kit

Furnishes filament voltage and plate power for BOTH receiver and transmitter.

Husky enough to supply full input to transmitter and well filtered for hum-free receiver operation. Uses 5Y3GT rectifier and OD3 voltage regulator. The OD3 supplies 150 volts dc (regulated) to the receiver and to the screen grid of the transmitter's crystal oscillator.

High voltage furnished to the transmitter is 350 volts dc at 100 milliamperes and the filament voltage for the receiver and transmitter is 6.3 volts at 4.7 amperes.

Has AC On-Off switch and Send-Receive switch.

Complete kit of parts with tubes, punched chassis and hardware, less hookup wire and solder.

SHIPPING WEIGHT 12 LBS.

MODEL WAP-25. NET...\$14.23

NOVICE RECEIVER KIT

This two stage receiver uses a twin triode 6SN7GT as a regenerative detector and audio amplifier. Its unusual stability is due, in a large part, to the regulated voltage from the OD3 regulator tube in the power supply.

Bandspread—plenty of it—100 dial divisions of the bandspread dial on the 80 meter Novice band (3700-3750 kc) and 70 divisions on the 40 meter Novice band (7175-7200 kc).

80 meter coil covers 3.5-8 mc on main tuning dial, 40 meter coil covers 6.5-18 mc on main tuning dial.

Complete kit with tube, punched chassis, hardware and one plug-in coil form. Less headphones, hookup wire and solder.

SHIPPING WEIGHT 4 LBS.

MODEL WAR-25. NET...\$13.41

ACCESSORY ITEMS

1 roll hookup wire, 25 feet.....	\$.44
1 extra plug-in coil form for receiver kit.....	.51
1 extra plug-in coil form for transmitter kit.....	.34
1 J-33 telegraph key.....	.98
1 phone plug for key.....	.38
1 100 feet #14 enamel covered antenna wire.....	1.25
2 antenno insulators @ .21.....	.42
1 SPDT antenno changeover knife switch.....	.30
1 No. 25 Trimm Acme headset.....	1.97

A COMPLETE AMATEUR RADIO STATION Three Easy-to-Assemble Kits Includes all parts and PUNCHED metal chassis

FEATURES of the COMPLETE NOVICE STATION

- (1) A two tube transmitter kit — 25 watts input to final stage.
- (2) A "hot" little two stage receiver kit with plenty of bandspread.
- (3) One power supply kit for both receiver and transmitter.

- ★ COMPLETE INSTRUCTIONS ★ STANDARD PARTS USED THROUGHOUT
- ★ ECONOMICAL USE OF ONE POWER SUPPLY ★ LOWEST COST POSSIBLE
- ★ ALL KITS INCLUDE **punched** METAL CHASSIS, TUBES AND HARDWARE
- ★ A.R.R.L. HANDBOOK CIRCUITS ★ KITS MAY BE PURCHASED SEPARATELY

KITS MAY BE PURCHASED SEPARATELY. If you are a beginner, you can start out right now with the receiver and power supply kits. Just as soon as you get your license, you can be on the air with only the addition of the swell transmitter kit. Or if you already have a receiver, the transmitter and power supply kits will put you in business with an outstanding signal in the 80 and 40 meter Novice bands—and most important of all—LOOK AT THE LOW COST.

WALTER ASHE RADIO CO. PHONE CHESTNUT 1-1125
1125. PINE ST., ST. LOUIS 1, MO.



NC-88 RECEIVER

The advanced design and engineering incorporated into this fine receiver makes it a top performer for the Novice or the experienced amateur. It has two large indirectly-lighted lucite dials. One covers 550 KC to 40 MC in 4 ranges and the other dial has calibrated bandspread for the 80, 40, 20, 15 and 10 meter bands plus a logging scale.

FEATURES: Tuned RF stage, two IF stages, two high-fidelity audio stages with phono input and two-position tone control, separate HF oscillator for high stability, series valve noise limiter, delayed AVC, headphone jack and built-in speaker.

8 HIGH GAIN MINIATURE TUBES PLUS RECTIFIER: 6BA6 1st RF, 6BE6 mixer, 6C4 HF osc., 6BD6 1st IF, 6BD6 2nd IF, 6AL5 2nd det.-AVC, ANL, 12AX7 1st audio-BFO, 6AQ5 audio output, 5Y3GT rectifier.

CONTROLS: Main tuning, bandspread tuning, band selector, sensitivity, AC on/off-volume, receive-standby, ANL on/off, tone HI-Lo, CWO pitch, antenna trimmer, AM/CW.

Finished in hammertone grey enamel. Size: 8 3/4x16 1/2x10 1/2"D. For 115 VAC, 60 cycle operation. Complete with tubes. Shpg. wt. 30 lbs.

MODEL NC-88. Net.....\$ 119.95



BUILT-IN SELECT-O-JECT

The NC-125 is an up-to-the-minute general coverage receiver incorporating all the latest engineering improvements, including National's exclusive SELECT-O-JECT audio filter—yet moderately priced. An ideal receiver for the amateur as well as for the discriminating shortwave enthusiast. Here are some of the outstanding features of this receiver. Coverage: 560 KC to 35 MC in 4 bands, voice or CW. Edge-lighted, direct-reading scale with amateur, police, foreign and ship frequencies clearly marked. Bandspread available over entire range. Sensational National Select-O-Ject built in. Average sensitivity of 3 microvolts for 10 DB signal-to-noise ratio. Lively "S" meter. Automatic Volume Control, Automatic Noise Limiter, Voltage-regulated, stabilized oscillator (holds signal regardless of line voltage fluctuations); audio circuit essentially flat to 10,000 CPS; jack for phono input or NFM adapter; socket for battery operation; accessory socket for NFM adaptor or other accessory. Controls: Main Tuning, Bandspread, Select-O-Ject Frequency Control, Select-O-Ject Boost Control, Smd-Receive Switch, Code Pitch Control, CWO-MVC-ANL switch, AF Gain, Trimmer (matches antenna to input for maximum efficiency), Bandswitch, RF gain, 9 tubes, plus voltage regulator and rectifier. 300 ohms antenna input impedance, 4 watts maximum output, 8 ohms output impedance. Size: 16 1/2x10 1/2x8 3/4". Cabinet finished in attractive gun metal smooth grey enamel. For 105-130 volts, 50/60 cycle operation. Complete with tubes, less speaker. Shpg. wt. 36 lbs.

MODEL NC-125. NET...\$199.95

MODEL NC-125TS. Matching 6" PM Speaker for NC-125. Shpg. wt. 10 lbs. NET...\$11.00
NFM-73B. Narrow Band FM Adaptor for NC-125. NET.....\$18.95



NEW NATIONAL NC-98 RECEIVER WITH CRYSTAL FILTER

Low-priced receiver with crystal filter and S-meter. Covers 550 KC to 40 MC on main tuning dial in four ranges. Bandspread dial calibrated 10 thru 80 meter bands. Edge-lighted dials. 3-position crystal filter with phasing control. Selectivity of 6 DB down; Crystal OFF - 7 KC, BROAD - 1.5 KC, SHARP - 450 cycles. Illuminated S-meter has mechanical and electrical zero adjust; One RF, two IF, two audio stages, phono input. Automatic series-type noise limiter. Accessory socket for NBFM adapter. 9 MINIATURE TUBES. Finished in hammertone grey enamel. Size: 8 3/4x16 1/2x10 1/2"D. For 115 VAC 60 cycle operation. Complete with tubes, less speaker. Shpg. Wgt. 30 lbs.

MODEL NC-98. Net.....\$ 149.95

Matching 6" PM speaker for NC-98. Size: 10 1/2x7x7"D. Shpg. Wgt. 10 lbs.

MODEL NC-98TS. Net.....\$ 11.00

NFM-83-50. NBFM Adapter. Net.....\$ 26.75



MIGHTY MIDGET

Five-tube superhet covering broadcast and major shortwave bands; continuous from 540 KC to 30 MC. For the shortwave listener, the amateur, and the person wanting a compact home table radio. Receives voice, music, or code. Has unique adjustable plastic bandspread knob. Built-in speaker, tip jacks for headphones or external speaker. With tubes. Shpg. Wgt. 10 lbs.

MODEL SW-54. Net.....\$ 49.95

NC-183D RECEIVER

DUAL CONVERSION

Steep Skirt Selectivity

National's new dual conversion receiver for the Ham, SWL, Commercial, or CD user. 1 MV sensitivity on 6 meters. Dual conversion incorporated in the 6, 10, 15, 20, and 40 meter ham bands. Features steep-sided skirt selectivity with three IF stages. 16-tuned circuits in the three high bands, 12 on all other bands plus new crystal filter. Uses new type miniature tubes in RF and IF circuits. New type dual IF's. New re-designed crystal filter with deeper phasing notch. Indirectly lighted lucite dials with white letters on black. PP high fidelity audio system. Fully adjustable automatic noise limiter. Amplified and delayed AVC. Adjustable sensitive S meter. Adjustable tone and BFO controls. Antenna trimmer. Phono input with radio phono switch. Built-in accessory socket. Continuous bandspread through frequency range of receiver. Calibrated bandspread on 6, 10, 11, 15, 20, 40, and 80 meter amateur bands. Provision for NBFM adaptor and Select-O-Ject. Battery operation if desired. Tubes: 6BA6 1st RF, 6BA6



HRO-60 RECEIVER

The new HRO-60 is the latest and greatest of a great series. In addition to all the features of previous HRO's, you now get dual conversion on all frequencies above 7 MC plus 12 permeability tuned circuits in the three 456 KC IF stages. Current regulated heaters in HF osc. and 6BE6 2nd conv., HF oscillator and S meter amplifier are voltage regulated. Covers 50-430 KC, 480 KC-35 MC and 50-54 MC voice, CW, NFM (with adapter). Edge-lighted direct frequency reading scale with one range in view at a time. Built-in isolated heavy duty power supply. Sensitivity of 1 MV or better at 6 DB sig. noise. Selectivity variable from 8 KC overall to approx. 1200 CPS at 40 DB. Negligible drift after warmup. Micrometer unit for logging. Provision for crystal calibrator unit. Oscillator circuits not disabled when receiver is in send position. High fidelity push-pull audio, phono jack. Accessory socket for Select-O-Ject. Tubes: 6BA6 1st RF, 6BA6 2nd RF, 6BA6 mixer, 6C4 HF osc., 6BE6 2nd HF conv., 6S7J 1st IF, 6S7J 2nd IF, 6S7J 3rd IF, 6H6 det.-AVC, 6H6 ANL, 6S7J 1st audio, 6SN7 phase splitter and S meter amp., 6V6GT PP audio (2), 5V4 rect., 6S7J BFO, OB2 volt. reg., 4H4 osc. fil. current reg. Complete with coils A, B, C, D, covering 1.7-30 MC and tubes. Less speaker. Size: 19 3/4x10 1/2x16 1/2"D. Operates on 115-230 VAC. Shpg. wt. 90 lbs.

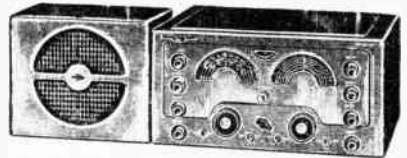
MODEL HRO-60 NET \$533.50

ACCESSORIES FOR HRO-60

HRO-60TS. 10" PM Speaker in matching cabinet. Shpg. Wgt. 12 lbs. Net.....\$ 16.00
NFM-83-50. NBFM Adapter. Net.....\$ 26.75
HRO-60-XCU-2. 100/1000 KC Crystal Calibrator. Shpg. Wgt. 2 lbs. Net.....\$ 27.50

COIL SETS FOR HRO-60

MODEL	COIL SETS	NET
60-AA	27.5-30 MC	\$24.50
60-AB	25-35 MC	24.50
60-AC	21.0-21.5 MC	24.50
60-AD	50.0-54.0 MC	24.50
60-E	900-2050 KC	24.50
60-F	480-960 KC	24.50
60-G	180-430 KC	24.50
60-H	100-200 KC	26.50
60-J	50-100 KC	34.50



2nd RF, 6BE6 1st conv., 6BE6 2nd conv., 6BA6 1st IF, 6BA6 2nd IF, 6BA6 3rd IF, 6AL5 2nd det.-AVC, 6AH6 AVC amp., 6S7J BFO, 6AL5 noise limiter, 6S7J 1st audio, 6SN7 phase inverter, "S" meter amp., 6V6GT audio output (2), OB2 volt. reg., 5U4G rectifier. For operation on 115-230 VAC. Smooth grey finished cabinet. With tubes. Size: 10 1/2x16 1/2x10 1/2"D. Shpg. wt. 65 lbs.

MODEL NC-183D (table model) NET\$399.50

ACCESSORIES FOR NC-183D

NC-183TS. 10" PM Speaker in matching cabinet. Shpg. Wgt. 12 lbs. Net.....\$ 16.00
NFM-83-50. NBFM Adapter. Net.....\$ 26.75

"Your trade-in's worth more at the WALTER ASHE STORE" ①



NEW

AMATEUR RECEIVER

Newly styled receiver with 10, 11, 15, 20, 40, 80 meter amateur bands calibrated on large easy-to-read dial. Separate bandspread tuning condenser. Two IF stages. Covers broadcast band, 540-1680 KC and three shortwave bands to 34 MC. RF stage. Built-in speaker. Front panel controls: sensitivity, band selector, tuning, volume, AVC on/off, noise limiter on/off, AM/CW, tone (3 pos.), pitch, standby/receive, phone jack. Grey-black steel cabinet with brushed chrome trim, red pointers. Seven tubes plus rectifier. Size: 18 1/2"x8"x10"D. Operates on 105-125 VAC 50/60 cycles. Shpg. Wgt. 36 lbs.

MODEL S-85. Net.....\$ 119.95

MODEL S-86. Same as above but for 105-125 volts AC or DC. Net.....\$ 119.95



THE LATEST MODEL OF A
FAMOUS SHORTWAVE RECEIVER

THE NEW S-38D

World's most popular shortwave receiver at low cost with performance and styling that amazes the experts. Covers broadcast band, 540-1650 KC and has three shortwave bands, 1.65-5 MC, 5-14.5 MC, 14.5-32 MC. Bandspread dial. Communications type controls for accurate tuning, large easy-to-read slide rule dial. Headphone tip jacks on rear. Built-in PM speaker. Oscillator for reception of code signals. Uses four tubes plus rectifier. Grey steel cabinet, size 12 1/2"x7 1/4"H. Operates on 105-125 volts AC or DC. Shpg. Wgt. 13 lb.

MODEL S-38D. Net.....\$ 49.95



FOR AMATEUR - SWL

Covers broadcast band 540-1680 KC, plus three shortwave bands, 16-34 MC, calibrated for 10, 11, 15, 20, 40, and 80 meters on large easy-to-read bandspread dial which has separate bandspread tuning condenser. Calibrated electrical bandspread. "S" meter calibrated in "S" units and microvolts. One RF stage, two IF stages. Crystal filter. Antenna trimmer. Terminals on rear for 3.2 and 500 ohm speaker. Headphone jack. 3-position tone control. ANL control. Sensitivity control. Volume control with AC switch. Code pitch control. Requires separate speaker like R-46A. Uses seven tubes plus rectifier. Operates on 105-125 VAC 50/60 cycle. Grey-black steel cabinet with brushed chrome trim. Piano hinge top. Size 18 1/2"x8"x11"D. Shpg. Wgt. 36 lbs.

MODEL SX-99. Less speaker. Net \$149.95

MODEL R-46A. Speaker for SX-99.....19.95

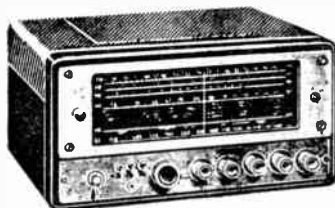
**SINGLE SIDEBAND
TRANSMITTER**

HT-30



For use on SSB, AM, and CW. Built-in VFO, provision for crystal. Bandswitching for 80, 40, 20, and 10 meters. Full function control, AM, CW, upper side band, lower side band. Combination carrier level meter and grid current meter. Ample gain for -55 DB microphone. 35 watts peak output. Provision for coaxial output fitting. TVI suppressed, control circuits and AC lines filtered. Front panel controls for bandswitching, VFO or 3 quartz crystals, P.A. plate tuning, speech level, carrier level 0-100%, meter selector, drive control, power off-standby-transmit, operation control, function selector, tuning-VFO, headphone jack. Uses 2-6CD6 in final, total 16 tubes plus rectifier and voltage regulator. Operates on 105-125 VAC 50/60 cycles. Grey-black steel cabinet with brushed chrome trim and red pointer. Piano hinge top. Size: 18 1/2"x9"H. Shpg. Wgt. 52 lbs.

MODEL HT-30. Net.....\$ 349.95



**DELUXE
SWL RECEIVER**

Outstanding receiver for all-wave listeners. Provides communications receiver performance in simplified form. Single tuning control covers wide-visibility dial. Built-in 500 KC crystal calibrator. Continuous AM reception 540 KC to 109 MC; FM reception 27-109 MC. Temperature compensated, voltage regulated. 2 RF, 3 IF stages; dual IF channels (455 KC and 10.7 MC). Audio flat 50-15,000 cy., 10 watt push-pull output. Controls: band selector 540-1620 KC, 1.62-4.9 MC, 4.9-15 MC, 15-32 MC, 27-56 MC, 54-109 MC; Rec./Standby, Calibration Osc. On/Off Noise Limiter, Tuning, AF Gain, Phono/FM/AM/CW, 6-position Selectivity, 4-position Tone, RF Gain, Calibration Reset. Doublet or single wire antenna. Outputs of 3.2, 8, and 500 ohms. Phone jack. Phono input jack. Socket for external power. 14 tubes plus voltage regulator and rectifier. Grey steel cabinet with satin chrome trim. Size: 20Wx10 1/2"Hx16"D. For 105-125 VAC 50/60 cycle operation. Complete with tubes, less speaker. Shpg. Wgt. 70 lbs.

MODEL SX-62A. Net.....\$ 349.95

**SELECTABLE
SSB RECEIVER**

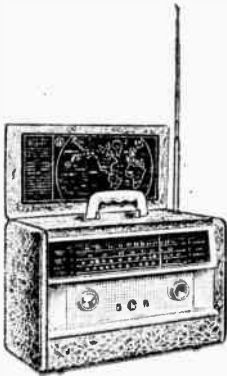


Extremely stable, sensitive receiver for all types of communications including single sideband. Covers 538-1580 KC and 1720 KC to 34 MC on 4 ranges of main tuning dial; 80, 40, 20, 10 meter amateur bands on calibrated bandspread dial. Both dials gear driven. Temperature compensated HF oscillator circuits. Crystal controlled second conversion oscillators. Highly selective 50 KC IF system, mixer type second detector reduces 1M distortion on SSB. Upper or lower sideband selectable by means of panel switch. Low drift. Eleven tubes plus rectifier and voltage regulator. "S" meter calibrated in "S" units and microvolts. Front panel controls: sensitivity, band switch, volume, tuning, AVC on/off, noise limiter, bandspread, selectivity, pitch, reception, standby, phone jack. Operates on 105-125 VAC 50/60 cycle. Grey-black steel cabinet with brushed chrome trim and red pointers. Piano hinge top. Size 18 1/2"x8 1/2"x10 1/2"D. Requires external speaker like R-46A. Shpg. Wgt. 45 lbs.

MODEL SX-96. Less speaker. Net \$249.95

MODEL R-46A. Speaker for SX-96.....19.95

NEED NEW TEST EQUIPMENT? - We'll Trade In Your Old Units!



ALL-WAVE PORTABLE

Four band, high performance receiver which operates on 105-125 volts AC or DC or on batteries. For use by amateurs, yachtsmen, aviation enthusiasts, sportsmen, etc. Receives 170 to 400 KC for airway ranges, marine beacons, airfield control towers. 540 to 1600 KC for standard AM broadcast band. 2 to 6 MC band for ship-to-shore, amateur, shortwave tropical band, etc. 6 to 18 MC band for more shortwave, amateur, etc. Has high gain loop for broadcast and long wave, telescoping whip for shortwave. BFO and standby switch. World call zone map on lid. Five tubes plus selenium rectifier. Case finished in grey leatherette, size 16 1/2 x 10 x 7 1/2". Uses Eveready 557 or Burgess F6A60P battery. Shpg. Wgt., less battery, 19 lbs.

MODEL S-93. Less battery. Net....\$ 99.95

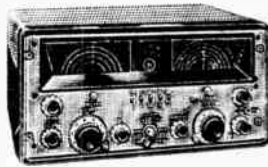
CIVIL PATROL



FM RECEIVERS FOR EMERGENCY CALLS

Extreme sensitivity, increased audio power, new adjustable built-in relay squelch system which is completely quiet when no signal is being received. Maximum performance with wide range of antennas. Excellent frequency stability. Sensitivity under 1 1/2 microvolts. Built-in speaker with provision for headphones. Eight tubes plus selenium rectifier. Grey steel cabinet, size 12 1/2 x 7 x 7 1/4" D. Controls: tuning, volume/off, squelch/off. Shpg. Wgt. 14 1/2 lbs.

MODEL S-94. 30-50 MC range. Net \$ 59.95
MODEL S-95. 150-173 MC range.....\$9.95



SX-88 RECEIVER

The SX-88 embodies the mechanical and electrical refinements necessary to assure the topmost in performance. It was designed and engineered to meet the demands of the discriminating operator who expects the ultimate in sensitivity, selectivity, audio fidelity, stability and image rejection.

FEATURES: Main tuning dial covers 535 KC to 33.3 MC in six ranges. Colibrated electrical band-spread dial covers the 160, 80, 40, 20, 15, 11 and 10 meter bands. Logging scales and dial locks on both tuning shafts. Crystal controlled second conversion oscillators. Built-in 100 KC calibration crystal. Tuning dial indicators resettable from front panel for maximum calibration accuracy. Exalted BFO for tops in SSB reception. BFO buffer amplifier. Amplified and delayed AVC. 10 watts inverse feed back out PP audio output. Illuminated band-in-use indicator. Illuminated S meter colibrated in S units and microvolts. Standard 8 3/4" by 19" panel for rack mounting if desired. 50 KC IF output jack via cathode follower for teletype converter, oscilloscopes, etc. Two RF stages. 17 tubes plus voltage regulator, ballast tube and rectifier.

FRONT PANEL CONTROLS: Main tuning. Bond spread tuning. Bond selector. Volume 0-10 and AC/off. Selectivity band width in KC, 10, 5, 2 1/2, 1 1/4, .5 and .250. Tone. Antenna trimmer. Sensitivity 0-10. Noise limiter on/off. AVC on/off. Calibrator on/off. Receive-standby. CW-AM-SSSC.

REAR OF CHASSIS: Speaker terminals 3.2/8/500/600 ohms. Antenna terminals 52-600 ohms. AC accessory socket, 117 volts at 250 watts. Octal power socket for external receiver power supply such as batteries (this socket also supplies 6.3 VAC @ .6 AMP and 150 VDC @ 10 MA for future accessories). Audio input-phonograph jack. AC fuse holder.

Complete with tubes, less speaker.

MODEL SX-88. Net.....\$ 595.00



HALLICRAFTERS SPEAKER

Deluxe 10" PM speaker in satin black steel cabinet. Matches Hallcrafters receivers. 500 ohm transformer. 80-5000 cycles range. Size: 15x10 1/2 x 10" D. Shpg. Wgt. 19 lbs.

MODEL R-46A. Net.....\$ 19.95

HALLICRAFTERS *S* METER KIT

An *S* meter kit you can install in your own set. Kit consists of *S* meter as used in Model SX-88, calibrated in *S* units, zero potentiometer, two resistors, installation instructions. Fits Hallcrafters Models S-40B, S-40, S-40A, S-20R, SX-62, S-77, S-77A. Shpg. Wgt. 2 lbs.

MODEL S9X031. Net.....\$ 9.50



HT-20 TRANSMITTER

A deluxe bandswitching all-band transmitter with elaborate TVI suppression throughout. Power out rated at 100 watts AM phone; 115 watts CW. 100% high level modulation. Covers continuous range 1.7-31 MC. All components are heavy duty and are rated for continuous operation. Complete metering with single meter and 6-position switch, 10-position crystal switch with input for external VFO. Has power source for VFO. TVI precautions taken to insure spurious outputs of 90 dB down below full rated output on all frequencies above 40 MC. Chassis is radiation proof, external leads radiation suppressed by Hallcrafters new low inductance bypass capacitors. Tuning dial and meter shielded with metal screening. Pi output feeds into 52 ohm 4-section low pass filter. 11 tubes include two 807 modulators and 4D32 final amplifier. High impedance mike input. Cabinet size: 20x12 1/4 x 17 1/4". For operation on 105-125 VAC, 50/60 cy. Shpg. wt. 130 lbs.

MODEL HT-20. NET...\$449.50

SMALL BUT POWERFUL

S-53A



Hallcrafters finest small communications receiver complete in itself, with built-in PM speaker. PERFORMANCE: Coverage 540-1600 KC, 2.6-31 MC plus 48-54.5 MC. 2 stages IF amplification. CONTROLS: Main tuning in MC; Separate band-spread dial with logging scale plus MC calibration for 48-54.5 MC band; Rec./Standby switch; Band switch 540-1630 KC; 2.5-6.3 MC, 6.3-16 MC, 14-31 MC and 48-54.5 MC; AM/CW; RF Gain, Noise Limiter, AF Gain, 2-position Tone; Speaker/Phones switch on rear. EXTERNAL CONNECTIONS: Doublet or single wire antenna. Phone tip jacks. Phonograph input jack. 105-125 50/60 cy. AC line. 7 TUBES PLUS RECTIFIER: 6C4 Osc., 6BA6 Mixer, 2-6BA6 IF Amps., 6H6 Det., AVC and ANL, 6SC7 BFO and AF Amp., 6K6GT Output, 5Y3GT Rectifier. PHYSICAL DATA: Satin black steel cabinet with brushed chrome trim. Top opens on piano hinge. Size: 12 3/8 x 7 1/8 x 7 3/4" D. Complete with tubes. Shpg. wgt. 19 lbs.

MODEL S-53A. NET \$ 99.95

"Your trade-in's worth more at the WALTER ASHE STORE" (3)



75A-3 RECEIVER

Features the sensational Collins resonant mechanical filter which gives almost rectangular skirt selectivity. Dual conversion, nine tuned circuits and crystal filter assure outstanding performance on all amateur bands, 160 through 10 meters. Has extraordinary stability, accuracy of calibration, sensitivity, and image rejection. 3 KC mechanical filter is supplied. Extra socket is provided for addition of 800 cycle filter; for control switch on panel. Ideal SSSC reception. Crystal oscillator uses a different crystal for each band. Stable VFO is hermetically sealed and temperature compensated. Slide rule dial shows only the band in use in 100 KC divisions, second dial calibrated in 1 KC divisions. Accurate 5 meter with zero adjustment. Sensitivity, 2 microvolts for 10 DB signal-to-noise ratio. 2 watts audio output; 4 and 500 ohm output terminals plus phone jack. Series type noise limiter for phone, shunt type for CW. Tubes: 6CB6 RF, 2-6BA7 mixers, 2-6BA6 VFO and buffer, 12AT7 crystal osc. 4-6BA7 IF amps, 6AL5 AVC-det., 6BA6 BFO, 2-6AL5 noise limiters, 12AX7 AVC amp.-audio amp., 6AQ5 output, 5Y3GT rectifier, OA2 reg. Size: 21 $\frac{1}{2}$ "x12 $\frac{1}{2}$ "x13 $\frac{1}{4}$ ". For 115 VAC 50/60 cycle operation. Shpg. Wgt. 70 lbs.

MODEL 75A-3. Net.....\$ 530.00

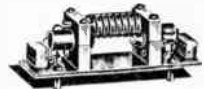


AMATEUR TRANSMITTER

A VFO controlled bandswitching gang-tuned amateur transmitter, conservatively rated at 150 watts input an CW and 120 on phone. Covers the 80, 40, 20, 15, 11, and 10 meter ham bands. Provisions for reduction of TVI. Cabinet is solid metal, open only in front to receive chassis. No liftable lid, $\frac{1}{4}$ " perforations for ventilation. Two pull handles for easy removal of panel and chassis. RF section completely enclosed in an outer shield of perforated metal which permits adequate ventilation while blocking radiation of troublesome harmonics. Low pass filters in both sides of AC power line, antenna relay line, both sides of receiver disabling circuit, mike connector, key circuit, and one in each lead to each of the two meters. RF tube line-up: 6SJ7 VFO, 6AK6 buffer, 6AG7, and two 7C5 multipliers, 4D32 final amp. Speech line-up: 6SL7 in cascade to 6SN7 to a pair of 807 modulators which furnish 60 watts audio power. Power supply, 5Z4 (low voltage) and two 5R4GY (high voltage) rectifiers, VR75 bias reg., one OA2 and one OB2 osc. plate voltage reg. and two OA2 screen voltage limiters. Complete with tubes. Size: 21 $\frac{1}{2}$ "x12 $\frac{1}{2}$ "x13 $\frac{1}{4}$ "D. Operates on 115 VAC 50/60 cy. Shpg. Wgt. 133 lbs.

MODEL 32Y-3. Net.....\$ 775.00

COLLINS MECHANICAL FILTERS



- TYPE F45A-08. 800 cycle mechanical filter (solder terminals). Net.....\$ 35.00
- TYPE F45A-31. 3.1 KC mechanical filter (solder terminals). Net.....\$ 35.00
- TYPE F45B-08. 800 cycles (plug-in). For modified 75A-2's, early 75A-3's. Net \$35.00
- TYPE F45C-08. 800 cycles (plug-in). For late model 75A-3's. Net.....\$35.00
- TYPE F45B-31. 3.1 KC filter (plug-in) as used in early 75A-3's. Net.....\$ 35.00
- CONVERSION KIT FOR 75A-2. Complete with F45B-31 mechanical filter. Net.....\$80.00

COLLINS ACCESSORIES

- Matching 10" speaker in cabinet. Shpg. Wgt. 35 lbs. Net.....\$ 20.00
- 8B-1 CRYSTAL CALIBRATOR. With 100 KC crystal. Plugs into socket in 75A-3. Controlled by switch on receiver. Shpg. Wgt. 2 lbs. Net.....\$ 25.00
- 148C-1 NBFM ADAPTER. Plugs into 75A-3 and is controlled by switch on receiver. Shpg. Wgt. 2 lbs. Net.....\$ 25.00

LOW PASS FILTER



A 52 ohm 3-section filter which provides additional harmonic attenuation of about 75 DB when connected to output circuit of 32V-3. Coaxial fittings on filter and transmitter permit use of well-shielded transmission line. Shpg. Wgt. 3 lbs.

MODEL 35C-2. Net.....\$ 40.00

ELMAC

AF-67 — TRANS-CITER



AF-67

110 VAC POWER SUPPLY. For use with AF-67. Supplies dual simultaneous high voltages with separate filters. 475 VDC, 170 MA; 230 VDC, 80 MA; 6 VAC, 6 amps or 12 VAC, 3 amps. Input: 110-120 VAC, 60 cycles. Separate filament and plate transformers. 24-volt tap for control or bias supply. Fused primary. Uses 5U4G and 6X5GT rectifiers. Cabinet matches AF-67. Size: 11 $\frac{1}{4}$ "x7 $\frac{1}{2}$ "x8". Shpg. Wgt. 30 lbs.

MODEL PS-2V. Net.....\$ 49.50

ELMAC ACCESSORIES

CONNECTING CABLE. Complete with plug and fanning strip to connect PS-2V power supply to AF-67 Trans-Citer.

MODEL CFS-1. Net.....\$ 4.75

"PUSH-TO-TALK" KIT. Includes rectifier, relay, and filter condenser to allow "push-to-talk" operation of a station from an AC supply.

MODEL PTR-1 KIT. Net.....\$ 6.75

Designed as an exciter-speech amplifier, VFO, driver, or may be used as a complete low-powered transmitter. Ideal for underdash mobile or wherever an all band VFO transmitter is required. Single control bandswitches all stages simultaneously 160 through 10 meters. Full 60 watts input Phone, CW, or NBFM. Temperature compensated VFO operates on 1.75 MC for 160-80 meter bands and on 3.5 MC for all remaining bands. VFO dial is directly calibrated in MC for each band. Seven amateur bands: 1.75-2.00 MC, 3.50-4.00 MC, 7.00-7.30 MC, 14.00-14.35 MC, 21.00-21.45 MC, 26.90-27.23 MC (xtal only) and 28.00-29.70 MC. 5-circuit meter switch reads voltages and currents. Untuned crystal oscillator has provision for two crystals which will work straight through. Works on either 6 or 12 volts AC or DC. Any "B" supply delivering 350-500 volts, 230 MA may be used. Uses 2-5881 modulators, 1-6146 output. Uses either carbon or crystal or high impedance mike. Has universal pi-network which matches wide variety of antennas. Grey steel cabinet, size 11 $\frac{1}{4}$ "x7 $\frac{1}{2}$ "x8 $\frac{1}{2}$ "D. With tubes, less mike, crystals and power supply. Shpg. Wgt. 20 lbs.

MODEL AF-67. Net.....\$ 177.00



MOBILE RECEIVER

A 10-tube, dual conversion, communications receiver. Also ideal for fixed station use. Covers 160, 80, 75, 40, 20, 15, and 10 meter amateur bands plus BC band. Six ranges: 600-2000 KC, 3.5-4.0 MC, 6.9-7.4 MC, 13.95-14.45 MC, 20.95-21.65 MC, 28-29.7 MC. 10 tuned circuits, tuned RF provide high selectivity, sensitivity, and image rejection. Regulated voltage to oscillator, BFO, and second detector. Illuminated dial. 3 $\frac{1}{2}$ watts audio output. Antenna input matches 50 ohm coax. For 3-4 ohm speaker. Power requirements: 6 volts at 3.3 amps. 250 VDC at 90 MA. Grey ham-mertone cabinet, 4 $\frac{1}{2}$ "x6"x8 $\frac{1}{2}$ "D. With tubes, less power supply and speaker. Shpg. Wgt. 8 lbs.

MODEL PMR-6A for 6 volts. Net \$ 134.50

MODEL PMR-12A for 12 volts.....134.50

POWER SUPPLIES

- MODEL P5R-6 for 6 VDC input. Net...\$ 24.50
- MODEL P5R-12 for 12 VDC input.....24.50
- MODEL P5R-116 for 115 VAC input.....24.50

B & W



BALUNS



Requires two coils to match 75 ohm unbalanced transmitter output to 75 or 300 ohm balanced antenna feed lines. Efficient 80 thru 10 meters. For use with Collins 32V, Johnson Viking, and other transmitters up to 150 watts input. Need not be mounted in metal box. Requires an 8x10" mounting plate. Less plate, hardware, and insulators.

MODEL 3975. 2 required. Net Each \$ 3.75
NO. P5-239. Undrilled 8x10 plate..... .88

1-KW BALUNS. Provide desirable impedance match between an unbalanced power source and a balanced load. Maximum transfer of power, maximum signal-to-noise ratio, minimum SWR, minimum line radiation. Coax input connector, ceramic feed-through output terminals.

1-KW Single Band Beam Type Baluns are designed for rotary type antennas which employ "T" match section. Impedance, 75 ohms unbalanced to 100 balanced. Housed in heavy gauge weatherproofed case, size 3 1/2"x3 1/2"x4". Net weight 3 lbs. Shpg. Wgt. 5 lbs.

MODEL 700 For 10 meter band Net \$16.50
MODEL 701 For 15 meter band 16.50
MODEL 702 For 20 meter band 16.50

1-KW Single Band Folded Dipole Baluns are designed especially for half-wave folded dipole antennas fed with 300 ohm line. Impedance, 75 ohms unbalanced to 300 ohms balanced. Housed in heavy gauge weatherproofed case, size 3 1/2"x3 1/2"x4". Net 2 lbs. Shpg. Wgt. 4 lbs.

MODEL 710 For 10 meter band Net \$16.50
MODEL 711 For 15 meter band 16.50
MODEL 712 For 20 meter band 16.50
MODEL 713 For 40 meter band 16.50
MODEL 714 For 80 meter band 16.50

HAMMARLUND



NEW PRO-310

Completely modern, double conversion amateur receiver. Incorporates complete printed circuit for the RF section. Precision differential tuning system makes it possible to read exact frequency to which receiver is set. Coverage of 550 KC to 35.52 MC in six bands with rotary turret selector. Three RF tuned circuits. Second conversion oscillator is crystal controlled. Besides the normal BFO level, an extra high level BFO is incorporated for single sideband reception. Calibrated bandspread. Antenna input impedance 75 ohms, provides for use of coaxial line. "S" meter calibrated 1 to 9 in steps of approximately 6 DB, also includes DB scale above S-9. 3-position variable selectivity, two for phone, one for CW, 4 KC to 350 CPS. Antenna compensator permits compensation for loading effects of various types of antennas and improves image ratio. Uses 14 tubes including rectifier and voltage regulator. Audio output 2 watts, 6 ohms impedance. AVC operates on RF and IF stages. New noise limiter. Sensitivity: 1 microvolt CW signal produces a 10 to 1 signal-to-noise ratio. Operates on 105-115 VAC 50/60 cy. Size: 15 1/2"x17 1/2"x9"H. Less speaker. Shpg. Wgt. 40 lbs.

MODEL PRO-310. Net.....\$ 495.00
MATCHING SPEAKER for PRO-310. Shpg. Wgt. 12 lbs. Net.....\$ 18.50



HQ-140-X

COMMUNICATIONS RECEIVER

Offers many new features which provide improved sensitivity, selectivity, stability and image ratio. 3 watts undistorted audio output gives superior fidelity for music and voice reproduction. Covers 540 KC to 31 MC continuous in six ranges on accurately calibrated main tuning dial. Bandspread dial is calibrated for the 80, 40, 20, 15, and 10 meter amateur bands and has an arbitrary lagging scale. Antenna input for single wire or balanced line. Antenna trimmer on front panel. Calibrated S meter. Special patented Hammarlund crystal filter provides extreme selectivity, switch has six positions, three for phone, two for CW, "off". Tubes: 6BA6 RF, 6C4 asc., 6BE6 mixer, 3-6BA6 IF, 6AL5 det.-AVC-ANL, 12AU7 audio-BFO, 6V6GT output, 5U4G rect. and VR105 voltage reg. 2-tone grey cabinet, 11x20 1/2"x13 1/2"D. For 105-115 VAC 50/60 cycle operation. With tubes, less speaker. Shpg. Wgt. 60 lbs.

MODEL HQ-140X. NET..\$264.50
MATCHING 10" PM SPEAKER for HQ-140X receiver. Shpg. wgt. 10 lbs. NET... \$14.50

STEWART-WARNER



MODEL 73

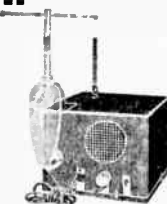


CENTRAL STATION POWER PACK

Portafone
TRADE MARK

2 WAY

CITIZENS RADIO



MASTER STATION AMPLIFIER

A 2-way AM radio communication system cleverly built into telephone type handsets. Operates in the Citizens Radio Band (465 MC) and provides reliable short range communications from several hundred yards to many miles depending on location and terrain. Small and lightweight, assures quick and easy portable operation; can be comfortably held and operated with one hand. Measures only 10 1/2" x 17" with collapsible plug-in type antenna. Weighs only 28 ounces; approximately 3 1/2 lbs. with portable battery pack and carrying case. Central Station Power Pack may

be used for AC operation. Rugged handset of cast metal is finished in rich maroon with black trim. Portafone uses two miniature tubes for transmitter and receiver. Knob adjusts receiver to exact transmitter frequency. Small glow lamp indicates if battery voltage is sufficient for operation of set. Station license easy to obtain; operator license not necessary if authorized by station licensee. FCC license application forms and complete instructions included with each unit. Portafones are sold only in pairs. Less power supply. Shpg. Wgt. 12 lbs.

MODEL 73. (ADD \$7.00 FEDERAL EXCISE TAX.) Net Per Pair.....\$ 199.50

BATTERY PACK. A, B, C, pack for Portafone. Slips into carrying case. Shpg. Wgt. 4 lbs.

NO. F5XX92. Net.....\$ 6.45

6 VDC POWER PACK. Plugs into 6 VDC cigarette lighter outlet of a car, truck, or boat. Supplied with 5-ft. length of cord and terminating plug. Size: 5 1/2"x3 1/2"x5 1/2" Shpg. Wgt. 6 lbs.

MODEL G-698300. Net.....\$ 31.00

12 VDC POWER PACK. Same as above power pack except plugs into 12 VDC cigarette lighter outlet. Shpg. Wgt. 6 lbs.

MODEL G-698400. Net.....\$ 31.00

CENTRAL STATION POWER PACK. For Model 73 Portafones. Plugs into 115-120 VAC, 60 cycle outlets. Includes mounting base to hold Portafone. Shpg. Wgt. 7 lbs.

NO. G-698200. Net.....\$ 34.65

MASTER STATION AMPLIFIER. Amplifies incoming signal and alerts operator who may be engaged in other work. Lifting Portafone from cradle cuts out loudspeaker and applies high voltage to Portafone for instant operation. Operates on 110-120 VAC. Shpg. Wgt. 36 lbs.

MODEL 9179. Net.....\$ 189.50

"Your trade-in's worth more at the **WALTER ASHE STORE**" 5



VIKING II TRANSMITTER KIT

Bandswitching transmitter covers 160, 80, 40, 20, 15, and 10-11 meters. 180 watts input on CW; 135 watts on phone, 100% AM modulation. Sockets for 10 crystals. Effective TVI suppression; all openings and external leads completely filtered. Ventilated copper-plated steel cabinet with phosphor bronze bonding strip. Power socket for external VFO. For use with high impedance microphone. Antenna relay terminals. Pi-network output matches wide range of impedances; provides up to 30 DB 2nd harmonic attenuation. Tubes: 6AU6 crystal osc., 6AQ5 buffer-doubler, parallel 6146's final, 6AU6 speech, 6AU6 driver, PP 807's modulator, parallel 5R4GY's HV rect., 5V4G LV rect., 6AL5 bias rect. Size 20x10¹/₂x13¹/₂". For 110-120 VAC 50/60 cy. operation. With tubes, cabinet, punched chassis, wiring harness, wire, solder, all parts, hardware, and complete assembly and operating instructions. Less crystal, key, and mike. Shpg. Wgt. 85 lbs.

MODEL 240-102-1 KIT. Net.....\$ 279.50
MODEL 240-102-2. Wired, tested.....337.00

VIKING II CIVIL DEFENSE TRANSMITTER

Specifically designed to meet requirements as set forth in FCDA Contributions Manual M 25-1 revised. Qualifies for matching funds program. Basically the same transmitter as standard Viking II with the following modifications: Cadmium-plated cabinet instead of copper plated; Modulation limiting system to prevent overmodulation; Microphone jack which permits use of push-to-talk microphone; Provides continuous coverage from 1.75-4.0 MC, 5.2-8.0 MC, 9.8-15 MC, 15.0-21.8 MC, 21.0-30.0 MC. Wired and tested with tubes, less crystals, key, and microphone. Not available in kit form. Shpg. Wgt. 85 lbs.

MODEL 240-102-15. Net.....\$ 398.00

JOHNSON VIKING

VFO KIT



Stable VFO with 5" dial calibrated for all bands, 160 thru 10 meters. For use with Johnson or other transmitters. Uses 6AU6 ECO, OA2 regulator. Output frequencies: 1.75-2.0 MC for 160, 80, 40 meters; 7.0-7.425 MC for 40, 20, 15, 10 meters; 6.7-7.0 MC for 11 meters. Clean keying for "break-in". Plugs into Johnson transmitter for power. When used with other transmitters, requires 250-300 VDC unregulated at 15 MA and 6.3 volts AC or DC at .3 amps. Size, 7x6¹/₂x6¹/₂". With all parts and instructions. Less tubes. Shpg. Wgt. 6 lbs.
MODEL 240-122-1 KIT. Net.....\$ 42.75
MODEL 240-122-2. Wired, tested.....63.75



NEW JOHNSON VIKING RANGER TRANSMITTER-EXCITER KIT

A rugged, compact, self-contained 75-watt CW or 65-watt phone transmitter which can also be used as a flexible exciter unit without modification. Bondswitching operation on all amateur bands from 160 through 10 meters. Pi-network antenna load matching from 50 to 500 ohms. Frequency control with very stable built-in VFO or crystal. High gain audio and complete TVI shielding and filtering. Velvet smooth, accurate tuning with new 6-to-1 planetary dial. Separate calibrated bandspread dial scales for each of the seven bands, 160, 80, 40, 20, 15, 11, and 10 meters. Excellent keying stability for break-in operation.

REAR OF CHASSIS: Nine-pin receptacle brings out TVI filtered control and audio leads for exciter operation. This plug also permits the Ranger to be used as a filament and plate power source and a modulator for operating auxiliary equipment such as a VHF transmitter. Available at the output plug are 6.3 VAC at 5.5 amp, 500 VDC at up to 210 MA. 300 VDC at up to 50 MA along with the full 33 watts output of the modulator.

TUBES: 6AU6 VFO, OA2 voltage regt, 6CL6 crystal osc., 6CL6 buffer, 6146 final amp, 6AQ5 clamper, 12AX7 dual triode speech amp, 12AU7 dual triode audio driver, 2-1614 PP modulators, 6AX5 low voltage rect. and 5R4 high voltage rect.

As an exciter, the Ranger will drive any of the popular KW level tubes and provides high quality speech driver for high powered modulators. Basic control functions for high powered stage can be handled right at the exciter. No internal changes are necessary to change from transmitter to exciter operation. Unit measures only 15x11¹/₂x9". Designed for easy assembly. Wiring harness, punched chassis, all parts, hardware, and connectors are furnished along with complete assembly instructions, pictorial diagrams, and operating directions. Less tubes, crystal, key, and mike, Shpg. Wgt. 54 lbs.

MODEL 240-161. Net.....\$ 179.50
MODEL 240-161-2. Wired, tested.... 258.00
Full set of tubes for Ranger. Net..... 23.92

STANDING WAVE RATIO BRIDGE



For accurate measurements of SWR on 52 ohm transmission lines and proper adjustment of antenna couplers. May be changed for 70 ohms and open wire lines. Shielded construction. With 83-1R connectors and polarized meter jacks. 1 watt maximum RF power required. Calibrated for use with 0-1 MA, 100 or 250 microamp meters. Wired and tested. Size 2¹/₂x4¹/₂". Shpg. Wgt. 1¹/₂ lb.
MODEL 250-24. Net.....\$ 9.75



MOBILE VFO



MOBILE TRANSMITTER

VIKING MOBILE VFO KIT

Built for rugged mobile operation. Edge-lighted lucite vernier dial accurately calibrated for 75, 40, 20, 15, and 10 meters. Oscillator operates in 3.5-4.0 MC range at all times. 3.75-4.0 MC output for 75 meters, 7.05-7.45 MC for 40/20/10 meters, 10.58-11.17 MC for 15 meters. May be mounted on steering post. Tubes: 6BH6 osc., 6BH6 isolation amp/multiplier, OA2 regulator. May be wired for 6 or 12 volt operation. Requires 6.3 VDC at .45 amps or 12.6 VDC at .25 and 250-300 VDC at 20 MA. Size 4x4¹/₂x5". Complete kit with cables, connectors, all parts, hardware, assembly and operating instructions. Less tubes. Shpg. Wgt. 3 lbs.

MODEL 240-152-1 KIT. Net.....\$ 29.45
MODEL 240-152-2. Wired, tested..... 44.95

MOBILE TRANSMITTER KIT

Bandswitching on 75, 40, 20, 15, 11-10 meters. Up to 60 watts input at 600 volts; 30 watts at 300 volts; 100% modulated. Selector for four crystals and external VFO. For under-dash installation. All stages metered. For dynamic, crystal, or carbon microphone; "push-to-talk" operation. 52 ohm output. Tubes: 6BH6 osc., 6AQ5 buffer-doubler, 807 final, 6BH6 speech, 6BH6 driver, PP 807's modulator, 12AU7 bios osc. Size: 6¹/₂x7¹/₂x10¹/₂". With all parts and instructions. Less tubes, crystals, microphone, and power supply. Shpg. Wgt. 20 lbs.

MODEL 240-141-1. Net.....\$ 99.50
MODEL 240-141-2. Wired, tested.....144.50



JOHNSON "MATCH BOX" ANTENNA TUNER

Self-contained antenna coupling system which performs all transmission line matching and switching functions in medium powered amateur stations. Will load almost every kind of antenna from 3.5-30 MC. Matches balanced antennas from 25-1200 ohms and loads unbalanced or single wire antennas 25-3000 ohms. Tunes out large amounts of reactance. Helps reduce TVI. A companion unit to the Viking I and II. Can be used with any 250-watt transmitter. Nominal input impedances 52 ohms. Built-in changeover relay which also mutes receiver during transmission. "Match Box" also matches antenna input to receiver. All front panel controls, no internal adjustments. Fully shielded. Cabinet finished in maroon and grey, size 9¹/₂x7x10¹/₂"D. Completely assembled and tested. Shpg. Wgt. 9 lbs.

MODEL 250-23. Net.....\$ 49.85

JOHNSON *Viking*

JOHNSON
SIGNAL
SENTRY



Will monitor either CW or Phone signals without regard to operating frequency. Simple circuit change permits using as code practice oscillator. No direct connection to transmitter. Powered by receiver, requires 250 VDC-5 MA, 6.3 VDC .6 A. Simple installation, Signal Sentry plugs into phone jack of receiver, phones plug into monitor phone jack. Loosely coupled lead provides sample signal, receiver output is muted. Size 3 1/2 x 3 3/4 x 3/4" D. With cables, connectors, and instructions but less 12AX7, and 12AU7. Shpg. Wgt. 3 lbs.

MODEL 250-25. Net.....\$ 14.70



WHIPLoad-6
BANDSWITCHING
MOBILE ANTENNA
LOADING COIL

Instant bandswitching on 6 bands - 75, 40, 20, 15, 11, and 10 meters when this highly efficient loading coil is used with standard mobile antennas. On 75 meters, a special variable capacitor, with a dial scale for accurate calibration, is shunted across the coil to permit tuning the entire band. Complete coverage available on other bands without tuning. Large diameter airwound coil provides high Q. Taps for each band are initially adjusted with a grid dip meter or field strength measurements, and require no further attention. Fibre glass housing protects assembly from shock and exposure.

MODEL 250-26. Net.....\$ 19.50

JOHNSON
"BI-NET"



MOBILE ANTENNA NETWORK

Two band mobile antenna loading network designed for center mounting on standard whip. Provides 10 and 20 meter operation automatically without switching. Has no switches, relays, or other mechanical controls. Has 3/8" thread for antenna mounting. Enclosed in streamlined plastic housing. May be used in conjunction with the Whipload-6 for automatic 10 and 20 meter operation and bandswitching for other bands.

MODEL 250-22. Net.....\$ 10.95

JOHNSON

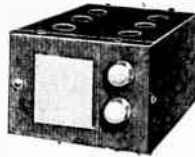
LOW PASS FILTER



Provides 75 DB or more attenuation of transmitter harmonic and spurious output above 54 MC. Will handle a full KW 100% modulated. Characteristic impedance of filter is 52 ohms. Equipped with coaxial input and output connectors. Shpg. Wgt. 3 lbs.

TYPE 250-20. Net.....\$ 13.50

MONITORADIO



CRYSTAL CONTROLLED
SINGLE FREQUENCY
MOBILE FM RECEIVERS

High quality crystal controlled single frequency receiver to be used as additional receiver for separate frequency channel monitoring to supplement 2-way communications systems. May also be used to dispatch police, fire, civil defense personnel, ambulances, etc. All units are shipped with crystal installed to order and aligned to frequency. High sensitivity and selectivity, adjustable squelch. Antenna impedance 53 ohms. Built-in 4" PM speaker. Available for 6 or 12 volt ignition systems, specify. Size 4 1/2 x 6 1/2 x 1 1/4". Shpg. Wgt. 12 lbs.

MODEL FMC1-H-6. 147-174 MC, 6 VDC input. Specify xtal frequency. Net...\$ 129.76

MODEL FMC1-H-12. 147-174 MC, 12 VDC input. Specify xtal frequency. Net \$129.76

MODEL FMC1-L-6. 30-50 MC, 6 VDC input. Specify xtal frequency. Net...\$ 129.76

MODEL FMC1-L-12. 30-50 MC, 12 VDC input. Specify xtal frequency. Net...\$ 129.76

MODEL A-101. Gutter mount antenna for Model FMC1-H receivers. Net.....\$ 7.00

POLICE ALARM



FM RECEIVERS

FOR EMERGENCY CALLS

A home radio built to receive emergency calls in the 152-174 MC band. Brings in police calls, fire alarms, railroad, border patrol, etc. Uses five tubes plus rectifier, superhet circuit with 10 microvolt sensitivity, 100 KC selectivity. Built-in Alnico V 5" speaker. Full vision illuminated dial. Brown plastic cabinet, size 10 1/2 x 7 x 7" D. Complete with 14" whip antenna. Operates on 115 VAC or 115 VDC. Shpg. Wgt. 7 1/2 lb.

MODEL PR-9. Net.....\$ 49.95

MODEL PR-31. Similar to MODEL PR-9 but operates in 30-50 MC. Net.....\$ 49.95

MODEL PR-74. Similar to above but operates in 72-76 MC band. Net.....\$ 49.95

MODEL S-19. Squelch adapter for above receivers. Easy to install. Net.....\$ 12.50

MODEL CA-2. Coaxial antenna for PR-9 receiver. Net.....\$ 5.00

MODEL A-30. Whip antenna for PR-31 and PR-74 receivers. Net.....\$ 6.50

MONITORADIO



FIXED FREQUENCY ALERT RECEIVER

Crystal controlled fixed frequency FM receivers. Designed to pass exacting requirements for commercial and civil defense use. Certified for CD use FCDA type R-74+R-76. Ideal for police and fire departments, pipelines, taxicabs, forestry units in weak signal areas. Extreme sensitivity, selectivity, and image rejection. 12 tubes. Dual conversion. Built-in speaker and squelch. 1 watt audio. Provisions for operating external switches to activate alerting devices or remote sirens. Complete with tubes, crystal installed to order, (specify exact frequency). Size: 8 x 9 1/2 x 1 1/4". For 110-120 VAC 60 cycle operation. Shpg. Wgt. 22 lbs.

MODEL MCA-100-L. For 25-50 MC. Specify exact crystal frequency. A-30 whip antenna recommended. Net.....\$ 149.50

MODEL MCA-100-H. For 147-174 MC. Specify exact crystal frequency. CA-2 coax antenna recommended. Net.....\$ 149.50

MODEL CA-2. Coaxial antenna for PR-9, DR-200 (high band), MCA-100-H. Net.....\$ 5.00

MODEL A-30. Whip antenna for PR-31, PR-74, DR-200 (low band), MCA-100-L. Net.....\$ 6.50

MONITORADIO



TWO BAND TUNABLE

FM COMMUNICATIONS RECEIVER

Two band FM communications receiver operating in 30-50 and 152-174 MC ranges. Excellent sensitivity, dual conversion with separate front end for each range. May be used as fixed frequency or is tunable throughout entire range. Has provision for 2 crystal controlled receiving frequencies (crystals not included), one in each range. Front panel squelch adjustment. Front panel switch selects type of operation. Tuned RF stage for better image rejection. Illuminated slide rule dial. 14 tubes plus rectifier. Two-tone metal cabinet. Size: 14 1/2 L x 9 1/2 D x 8" H. For operation on 105-120 VAC, 60 cy. With tubes, less speaker. Shpg. wgt. 21 lbs.

MODEL DR-200. NET...\$149.95

MATCHING SPEAKER FOR DR-200. NET...\$14.95

"Your trade-in's worth more at the WALTER ASHE STORE" 7

Casco

TEL-O-PATCH



High quality sound receiving and transmitting unit for low impedance lines, designed for experimental and amateur use. Affords true undistorted voice reproduction with perfect intelligibility at 100% modulation. Feedback, hum, noise, and other undesirable factors are eliminated. Receive position designed to work on any receiver with output impedance from 500 to 5000 ohms. Transmit position designed for high gain or mike input, can be modified easily to low gain stage. Easy installation.

THE ORIGINAL

General purpose model for use with all types of receivers and transmitters. Provides standard phone jack output for connection to receiver. Equipped with the Amphenol 75-PC1M connector for connecting to speech input. Complete with instructions. Shpg. Wgt. 3 lbs.

ORIGINAL TEL-O-PATCH. Net....\$ 14.95

THE REGENCY

Designed for the ham who uses Collins Equipment such as 32-V series, 75-A series, and KW-1. Equipped with lever action telephone type switch, which controls both transmitter and modulation. Separate Tel-O-Patch OFF-ON switch. Designed for high gain input. No modifications are necessary, complete and ready for use, including cord and plug to fit microphone and transmitter control socket, reversible mounting plate, mounting screws, and instructions. Shpg. Wgt. 3 lbs.

REGENCY TEL-O-PATCH. Net....\$ 24.95



SONAR

PHONE

PATCH

Simple to install and adjust. Three sets of cables connect to telephone line, transmitter mike input, and receiver power output. Controls: receiver gain, transmitter gain, off-on switch, mike jack. Black metal cabinet, 4Wx4Hx2"D. Complete instructions. Shpg. wgt. 2 1/2 lbs.

MODEL PP-24. NET ... \$19.50

MALLORY

VIBRAPACKS



Vibrator-operated power supplies furnish high voltage DC to portable-mobile installations. Built-in noise suppression. 6 VDC input. Easy to install in trunk or other convenient location. Shpg. wgt 10 lbs.

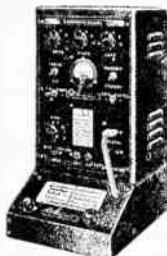
TYPE VP-555H. 300 VDC or 200 MA. NET\$47.01

TYPE VP-557. 400 VDC at 150 MA. NET\$47.01

Harvey-Wells

Bandmaster Transmitters

80, 40, 20, 15, 11, 10, 6 and 2 Meters (completely wired and tested — not a kit)



BANDMASTER TRANSMITTER
FOUNDED ON VFO UNIT

BANDMASTER VFO

Designed especially for all Harvey Wells Bandmasters but may be used with other types of transmitters. Highly stable Clapp oscillator circuit uses 6AQ7, OB2. Has slanted illuminated dial face for ease of operation with full visibility. 6 bands directly calibrated, 80, 40, 20, 15, 11 and 10. Furnishes 30-35 volts RF output over entire frequency range. 300 ohm output plugs into transmitter crystal socket. Heater voltages and plate power are supplied from terminal strip on Bandmasters. Requires 300 VDC at 30 MA, 6.3 volts at .65 amps. Bandmaster will mount on VFO unit as illustrated. Shpg. wgt. 8 lbs.

BANDMASTER VFO. NET. ...\$47.50

BANDMASTER SENIOR

A complete ready to go crystal-controlled transmitter including the new crystal-oscillator-VFO switching circuit. Phone or CW — 8 bands — 80, 40, 20, 15, 11, 10, 6 and 2 meters. Ideal for either mobile or fixed station use. Will operate from AC power packs up to 450V at 275 MA vibrator supply or dynamotor supply for portable mobile operation. Employs Pi antenna matching network. Power input to final is 50 watts with 450V power supply on bands 1 through 7, 30 watts on band 8. No tuning adjustments are necessary except those required to resonate the final output to the antenna. May be mounted on rack panel with power supply. For use with carbon microphone. No plug-in coils. CONTROLS: Band Switch, Excitation Control, Antenna Loading, Amplifier Tuning, Power-on Switch, Carrier-on Switch, Meter Switch. Antenna network will match non-reactive feeder of approximately 50-500 ohms. Frequency calibration chart on front panel as well as two scale grid and plate DC milliammeter. TUBES: 6AQ5 Crystal Oscillator, 6AQ5 Buffer-Multiplier, 807 Final Amplifier, 2-6L6G Class B Modulators. In sturdy steel cabinet, 8Wx12Hx8"D. Complete with tubes. Shpg. wgt. 19 lbs.

MODEL TBS-50C. NET. \$111.50

BANDMASTER DELUXE

The last word in a versatile small transmitter for ham or commercial use. Used extensively in foreign countries for important commercial applications. Has built-in 3-tube preamplifier for use with crystal mike, and ALL the features of the Bandmaster Senior. Shpg. wgt. 20 lbs.

MODEL TBS-50D. NET. \$137.50

AC POWER PACK

For use with Bandmaster Transmitters. May be mounted on rack panel. Uses two 5U4G rectifiers. Delivers 425V at 275 MA; 6.3V at 4 amps. For 110 VAC 50/60 cy. Shpg. wgt. 23 lbs.

MODEL APS-50. NET.\$39.50

RACK PANEL

Specially drilled for mounting Bandmaster Transmitters and AC power supply APS-50. Black crackle finish. Size: 12 1/2x19". Shpg. wgt. 8 lbs.

TBS-1A PANEL. NET.\$5.75

GONSET



GONSET "SUPER-CEIVER"

Provides sensational communications receiver performance in mobile installations when used with high quality converters such as the Gonset "Super-Six". Consists of four IF stages (262 KC), adjustable squelch, noise clipper, internal speaker, vibrator power supply, stable BFO for CW and SSB. Crystal controlled. Dual conversion; excellent selectivity. Provisions for external speaker and S meter. Main controls are on separate small control head which mounts near converter for finger-tip operation. 1430 KC crystal furnished; may be factory exchanged for other inputs. Size: 6 1/2x6 1/2x5 1/4". With tubes, cables, and connectors. (Price does not include converter). Shpg. Wgt. 10 lbs.

MODEL 3041-6.6 VDC input. Net \$ 119.50

MODEL 3041-12. 12 VDC input.....119.50

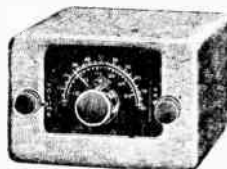


AUDIO AMPLIFIER - POWER SUPPLY

An audio amplifier-power supply specifically designed to supply output audio and power for tuners with low-level audio outputs. Has built-in PM panel speaker, audio gain and tone controls. Ideal for use with Gonset FM-AM tuners, two meter tunable and crystal controlled tuners, to provide a complete, independent communications receiver. Size: 6 1/2Dx7Wx6 1/4"H. Shpg. Wgt. 9 lbs.

MODEL 3034. 6 VDC Input. Net....\$ 44.50

MODEL 3036. 115 VDC Input. Net \$ 44.50



AIRCRAFT VHF ADAPTER

VHF adapter for private aircraft, covers 108 to 128 MC band when used in conjunction with medium or low frequency aircraft or auto radio. Requires 120-180 VDC, obtained from associated receiver. Built-in series gate noise clipper reduces ignition noise. Size: 5 1/2x3 1/2x5 1/2". Shpg. Wgt. 5 lbs. Specify if for 6 or 12 volt operation.

MODEL 3014. Net.....\$ 69.50

MODEL 3015. With Built-In Squelch. Net.....\$ 79.50

8 NEED NEW TEST EQUIPMENT? We'll Trade In Your Old Units!



"Commander"

35-50 watt MULTI-BAND TRANSMITTER

This new compact sturdily-built crystal controlled transmitter has a continuous frequency range of 1.7 to 54 MC. An ideal unit for mobile or fixed station use. Tubes: RF, 6AG7, 6146, AF, 12AT7, 2-6AQ5. Will accommodate any standard carbon or high impedance dynamic or crystal microphone. Modulator: Class AB2 beam tetrodes and integral high level speech clipping which requires no adjustment. Extremely efficient operation with all conventional types of feedlines including coax, ribbon, open line, or direct to Marconi antennas. Power output of this unit of 300 volts is comparable to that of many other transmitters which run at 400 to 500 volts. Rated at 35 watts input on phone, 50 watts CW. Power requirements: 300 VDC at 200-225 MA (phone) and 6.3 volts AC or DC at 3.15 amps. Small in size and suitable for under dash mounting. 5 3/8" H x 8 1/2" W x 7 1/4" D. Completely wired and tested with all tubes, including two high-Q coils which cover 10-11, 15, 20, 40, 75 and 80 meters. Blue grey hammertone finish. Shpg. wgt. 12 lbs.

MODEL 3016. NET. \$124.50

VFO FOR COMMANDER

A unique circuit employing no tubes; good stability because no heat is generated in cast aluminum box. Plugs directly into plug receptacle on front of Commander. Covers 10, 11, 15, 20, 40, and 75 meters. Size 5 1/2" x 5 1/2" x 3 1/2". Shpg. Wgt. 5 lbs.

MODEL 3020. Net.....\$ 29.95



SIGNAL SLICER

A highly selective IF amplifier for almost any auto or home radio using a 455 or 262 KC IF system, except those with a seeking tuner. Will increase the selectivity to 3.5 KC, permitting operation under conditions of severe interference. Built-in noise clipper. Broad-sharp position switch permits receiver to be used for normal reception. Unit obtains its power from the radio to which attached. Easy to install. Measures only 6 1/2" W x 5 1/2" H x 3" D. Shpg. wgt. 5 lbs.

MODEL 3028 (455 KC). NET. ... \$29.95
MODEL 3048 (262KC). NET. ... \$29.95



NOISE CLIPPER. Reduces ignition and similar type interference. Easily installed on mobile or fixed receivers having conventional diode second detectors. Size: 2x4x2 1/2". With tube, cables, and instructions. Shpg. Wgt. 2 lbs.

MODEL 3001. Net.....\$ 9.25

DELUXE NOISE CLIPPER-SQUELCHER. Combines the famous Gonset noise clipper with the Gonset adjustable squelch circuit. For any mobile or fixed receiver. Easy to install. Size: 4 1/2" x 5 1/2" x 2 1/4". Shpg. Wgt. 3 lbs.

MODEL 3000. Net.....\$ 24.50



"COMMUNICATOR II"

COMPLETE 2 METER STATION

A completely self-contained 2 meter station in a single, highly compact unit. Power supply is for both 6 VDC and 110 VAC operation to provide utmost flexibility and the ability to adequately handle casual or emergency communications. Receiver is an extremely hot superhet; transmitter is crystal controlled for maximum stability. Self-contained speaker and audio channel may be utilized as an excellent emergency PA system. Tuning range 144-148.3 MC. All controls located on front panel. Has a range of up to 100 miles under ideal conditions.

RECEIVER has 10 tubes (4 dual purpose). 6BQ7 coscode RF, 12AT7 mixer-osc., 6BH6 IF (6 MC), 6BH6 IF, 6B6 IF, 6T8 2nd det, audio and noise clipper, 12AX7 audio, 6V6 audio, 6X4 (2) rectifiers. Built-in adjustable squelch. Dynamic speaker. Headphone jack. Edge-lit calibrated tuning dial with on/off light switch.

TRANSMITTER uses 6CL6 xtl osc.-tripler, 12AV7 tripler-doubler, 2E26 final, 9036 tuning eye rectifier, 6E5 tuning eye. 5-7 watts output. Uses 8 MC crystals. Tuning eye metering on all stages; no external meter required. Either crystal or carbon mike may be used.

Steel cabinet finished in grey hammertone. Weighs approx. 19 lbs. Size 10 1/4" x 9 1/4" x 7". Complete with 19' whip antenna, less mike and crystal. Shpg. wgt. 25 lbs.

MODEL 3025. NET. \$229.50

VFO AND AUDIO PREAMP

Stable VFO plugs into crystal socket of Communicator. 24 MC output. Built-in audio preamp increases mike pickup when desired. Switch permits "zeroing in" on received signal. Self-contained power supply permits use with most any 2-meter rig. Cabinet matches Communicator. For 115 VAC 60 cycle operation.

MODEL 3024. Net.....\$ 84.50



"3-30" CONVERTER

Continuous coverage 3-30 MC. Bandspeed dial with plenty of bandspeed on ham bands. High sensitivity on a short whip. High stability. Four working (RF) tubes give lots of reserve gain. Extremely compact. 5 1/2" x 3 1/2" x 5 1/4" D. Output frequency 1500-2000 KC. Shpg. wgt. 4 3/4 lbs.

MODEL 3002. NET. \$44.75

POLICE, MARINE, C.A.P.

Performance and construction comparable to 3-30 model except covers 1.6 to 6 MC in 2 bands and employs 1 MC output (IF). Ideal for police, marine, CAP, civil defense, disaster communications, and amateur 75 and 160 meter mobile work.

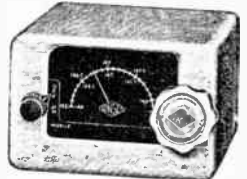
MODEL 3003. NET. \$46.00



"SUPER 6"

The "SUPER 6" is a compact converter covering the 10, 11, 15, 20, 40 and 75 meter amateur phone bands with lots of bandspeed. Also covers the 49 and 19 meter short wave BC bands. Very high sensitivity on an 8 ft. whip antenna. Low drift, noise factor and image response. Uses 6CB6 low noise RF stage with panel controlled antenna trimmer, 6AT6 low noise triode mixer, 6C4 modified Clapp oscillator and 6BH6 IF stage for gain and isolation. High-low impedance antenna switch on 40 and 75. RF gain control and oscillator compensator all accessible on rear panel. Uses power supply of receiver to which attached. Separate BC antenna input. 1430 KC output. Size: 5 1/4" x 5 1/4" x 3 1/2". Complete with tubes and cables for connecting. Shpg. wgt. 5 lbs.

MODEL 3030-6. For 6 VDC. Net.....\$ 52.50
MODEL 3030-12. For 12 VDC.....\$2.50



2 METER CONVERTER

An amateur converter covering 144-148.2 MC, for fixed or mobile use. Unique superposition tuning feature and 1 MC (output) IF doubles bandspeed, speeds tuning, and avoids images from TV, taxicabs, police, or other stations outside 2 meter band. High stability permits use with auto or home broadcast set, providing same order of selectivity obtainable on lower frequency bands. Excellent sensitivity. 50 ohm coax input easily adapted for use with open wire line or 300 ohm ribbon. Utilizes power supply of receiver to which attached. Standard Gon-Set case, 5 1/4" x 3 1/2" x 5 1/4" D. High frequency and extended to cover CAP frequency. 6CB6 RF, 12AT7 oscillator-mixer, OB2 voltage regulator. Shpg. wgt. 5 lbs.

MODEL 3008. NET. \$44.50



AM AND FM TUNERS

Compact tuners provide sensitive, stable receiver when used with auto, home, or communications receiver or when used with the Gonset audio amplifier-power supply unit. Includes squelch and noise clipper, IF and low level audio. 50 ohm input. Shpg. Wgt. 5 lbs.

MODEL 3009-FM	30-40 MC FM	Net \$ 69.50
MODEL 3009-AM	30-40 MC AM	69.50
MODEL 3010-AM	40-50 MC FM	69.50
MODEL 3010-AM	40-50 MC AM	69.50
MODEL 3011-FM	88-108 MC FM	69.50
MODEL 3012-FM	152-162 MC FM	69.50
MODEL 3013-FM	162-174 MC FM	69.50

STEERING POST MOUNTING BRACKET. For all models of Gonset converters. Converter may be mounted in position most convenient to driver of car. With mounting straps and hardware. Shpg. Wgt. 3 lbs.

MODEL 3006. Net.....\$ 3.90

"Your trade-in's worth more at the WALTER ASHE STORE" 9

LYSCO

**TVI SUPPRESSED
TRANSMITTER**

The LySCO 600 is a VFO or crystal-controlled band-switching transmitter, covering 160, 80, 40, 20, 15, 11 and 10 meter amateur bands. Conservatively rated at 35 watts input. Tube line-up: 6AG7 osc., 6AG7 Buffer-Doubler, 807 amp., 5U4G rect., VR-150. Oscillator fundamental on 160, 80 and 40 meters. Amplifier runs straight through on all bands and is mounted in a compartment under the chassis, providing double shielding for prevention of spurious and harmonic radiation. Filters which are provided reduce spurious and harmonic radiation at least 60 DB below maximum power



output at the fundamental frequencies. Oscillator keying for break-in operation. Terminals for external modulator. Attractive black wrinkle cabinet with large illuminated full vision dial, each band calibrated indicating approximate band limits. Size: 17x9x11. Complete with tubes and instructions, less modulator. Shpg. wgt. 35 lbs.

MODEL 600. NET. \$143.95
For rack mounting. Standard panel, 10 1/2" high. No cabinet.
MODEL 600R. NET. \$143.95

MODEL 600 TRANSMITTER WITH MODULATOR

This version of the famous 600 retains all of its features. In addition, has a built-in CLAMPMASTER modulator which uses 6SJ7 1st speech, 6SN7GT 2nd speech and audio rectifier, 6V6GT clamp modulator. Input for crystal or high im-

pedance dynamic mike. An added feature enables the operator to "zero-beat" any signal by allowing osc. operation only. Shpg. wgt. 37 lbs.

MODEL 600S. NET. \$189.95



25 WATT MODULATOR

Will modulate 50 watts RF input to transmitter. For high impedance dynamic or crystal mike. Output impedance, 4000 ohms RF load. Uses 6AU6, 12AU7 and 2 6L6G's in class B. Has pilot light, gain control and mike jack on front panel. Power requirements: 400 VDC @ 175 MA, 6.3 V @ 3 amps. Attractive grey hammetone cabinet with silk screened panel. Size 8Hx8Wx5"D. With tubes, less mike. Shpg. wgt. 9 lbs.

MODEL 403. NET. \$39.95

**CLAMPMASTER
MODULATOR**



Here is an efficient and inexpensive clamp type modulator which will modulate any modern transmitter with pentode or tetrode power amplifiers with input up to 1 KW. Designed for operation with crystal or dynamic high impedance microphone. Simple to install. Uses 6SJ7 1st speech, 6SN7GT 2nd speech, 6V6GT modulator. Black wrinkle finish cabinet 4x4x6". Panel controls: modulator on/off switch and gain control. Power requirements: 300-400 volts DC, 20 MA, 6.3 volts AC/DC (obtained from transmitter). Wired and tested, complete with tubes. Shpg. wgt. 7 lbs.

MODEL 401. NET. \$19.95



**MINIATURE
VFO**

Extremely compact VFO can be dash mounted for mobile operation, 14" ribbon load with plug to fit crystal socket of transmitter to be driven. Voltage regulated oscillator circuit. Slug-tuned RF circuit. Full-vision calibrated illuminated dial for 80, 40, 20, 10 meters. Tubes: 6AK5 osc., 6AK5 buffer, 6AK5 doubler. VFO output on 80 or 40 meters. Power requirements: 6.3 V. AC/DC 1.35 amps., 200 VDC 30 MA. Size: 4x4 1/2x5". With tubes. Shpg. Wgt. 7 lbs.

MODEL 382. Net. \$34.95



**ANTENNA
COUPLER**

Designed to work with any length antenna over 50 feet long against ground. Rated at 50 to 75 watts. Unit is fed with 50 ohm coaxial line with connector at rear of well shielded metal case. 5-position switch for coarse tuning; capacitor for fine tuning; Neon lamp RF indicator. Unit will indicate RF on all frequencies from 1.75 to 29.7 MC without antenna. Will greatly attenuate harmonics for the reduction of TVI. Tests with a transmitter on 75 meters indicated a reduction of the second harmonic from S-9 to S-1 at 1000 feet. Size: 4x4 3/4x5". Shpg. wgt 6 lbs.

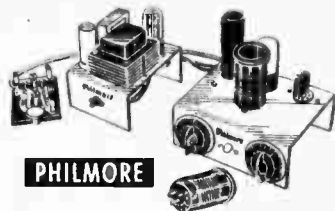
MODEL 50. NET. \$14.50

**BLILEY
CRYSTAL CONTROLLED
OSCILLATOR**



Completely packaged oscillator unit to utilize direct crystal control output on the 6 and 10-11 meter bands. Single dial tuning. Adequate output to drive VHF medium power tubes, no self oscillation. Uses one 6AG7 tube. Complete less crystal and tube. Shpg. wgt 1 lb.

MODEL CCO-2L. Net. \$11.95
AX-2 CRYSTALS. 7.9 MC crystals for Model CCO-2L. Net Each. \$ 2.95



PHILMORE

**NOVICE TRANSMITTER
AND POWER SUPPLY KIT**

The new Novice Transmitter Kit is a 25-watt input 2-band transmitter operating in the 3.7 MC to 3.75 MC and 26.96 to 27.23 MC bands. Especially designed to provide ease of assembly and operation, simple to tune and requiring only a simple antenna system. The untuned Pierce type crystal oscillator will oscillate freely with any type crystal, uses one 6V6 tube. The tuned output amplifier with pi type tuning system uses one 6L6 tube. Works with simple single wire antenna, no meters or required for tuning and loading the antenna. The especially planned foolproof pictorial wiring diagrams are easy to follow and can be used by anyone. Tuning condenser is of the transmitting type. Kit comes complete with tubes and transmitting key. Low loss plug-in coil forms and wire are also included in this easy-to-build kit. The power supply includes power transformer, choke, and rectifier tube type 5Y3. An excellent unit for the novice amateur. Complete with all parts shown above but less hook-up wire, solder, and crystals. Shpg. wgt. 16 lbs.

MODEL NT-200. Net. \$29.40

**MEISSNER NOVICE
TRANSMITTER KIT**



A well designed novice transmitter kit of simple construction which requires a minimum of radio knowledge to assemble and operate. Operates as a transmitter with a folded dipole antenna and with an input of 20 to 25 watts on 80 meters. Circuit is a straight forward oscillator. Provisions for metering and plate current are provided by terminal strip at the rear of chassis. Kit contains all parts except the crystal, 6V6 and 5U4 tubes. Wire and solder furnished. Controls include off/on switch and tuning knob. Jack for key on front panel. 80 meter coil included. An excellent way for the novice to get started. Husky power supply assures full power ratings.

MODEL 2-CW. NET. \$24.45

NO. 18-3912. 20 Meter Coil. NET. \$2.94
NO. 18-3913. 40 Meter Coil. NET. \$2.94



MILLEN

SSB PHASING UNIT

A precision 90 degree differential phase shift unit. Phase shift between the two sets of output terminals is 90 degrees plus or minus 1.3 degrees over a frequency range of 225 cy. to 2750 cy. A single sideband transmitter using this unit will have 40 DB suppression of the unwanted sideband. Can be used either in receiving or transmitting service. Contains two independent networks. Precisely adjusted at factory. Size 1 1/2x2x4". May be mounted like an IF transformer.

MODEL 75012. NET. \$9.75

10 READY FOR A NEW RECEIVER? - We'll Trade In Your Old One!



Variable Frequency Oscillator

A complete transmitter control unit with a stable gang-tuned electron-coupled oscillator and amplifier, voltage-regulated power supply which operates from 105-125 VAC 50/60 cycle power line. High or low impedance output with enough power to drive any tube up to an 807, output on 80 or 40 meters. Accurately calibrated full vision bandspread dial calibrated for 10, 15, 20, 40 and 80 meter amateur bands. Provisions for controlling complete transmitter from the oscillator panel. Unit is unusually stable and drift-free. Good electrical bandspread is provided for each amateur band. Band change, including bandspread, is accomplished by a switch on the oscillator panel, no plug-in coils. Keying is clean and free from all annoying chirp, quick drift, jump, and similar difficulties. Complete with tubes and impedance adapter. Size: 12 3/4" W x 12" D x 11" H. Shpg. wgt. 30 lbs.

MODEL 90711. NET. . . . \$124.50



GRID DIP METER

One of the most versatile instruments ever developed. A 2" meter, calibrated RF oscillator unit with a 1/2" tube to read grid current. Frequency-determining coil is plugged into unit so that it may be used as a probe. Operates on 115 VAC 50/60 cy. or may be used with batteries. 270° calibrated drum dial provides 7 direct reading scales plus an additional universal scale. Frequency range 1.5 to 300 MC in 7 overlapping ranges. Each range has individual plug-in probe. Far extended range, see coils below. Size: 7x-3 1/2 x 3 3/8".

4-in-1 instrument:

1. Grid Dip Oscillator
 2. Oscillating Detector
 3. Signal Generator
 4. Indicating Absorption Wavemeter
- Many applications of this grid dip meter.
1. Aligning receiver tuned circuits.
 2. Determining frequency of transmitter tuned circuits with power off.
 3. Transmitter neutralization.
 4. Finding of parasitic oscillations.
 5. Pretuning wave traps.
 6. Indication of circuit Q.
 7. Measurement of self-resonant frequency of RF chokes.
 8. Measurement of inductance and capacity.
 9. Measurement of antenna resonant frequency.
 10. Adjustment of tuned feeders.
 11. Tuning beam antennas, etc.

Complete with 7 inductors, rack, tube, and instructions. Shpg. wgt. 3 1/2 lbs.

MODEL 90651. NET. . . . \$61.50

ADDITIONAL COILS FOR ABOVE

Number	Freq. Range	Net
46702	925-2000 KC	\$6.72
46703	500-1050 KC	6.72
46704	325-600 KC	6.72
46705	220-350 KC	6.72



NEW EXCITER-TRANSMITTER

Modern design Exciter-Transmitter includes features and shielding for TVI reduction, bandswitching for the 4-7-14-21 and 28 MC bands, circuit metering. Conservatively rated for use either as a transmitter or exciter, 5763 ascillator-buffer-multiplier and 6146 power amplifier. 90 watts input for CW. Can be keyed in the oscillator and/or amplifier or by means of keyed external VFO such as Millen 90711. 67 watts input phone. Rack mounted, 3 1/2" panel height. Shpg. Wgt. 20 lbs.

MODEL 90801. Less tubes. Net....\$ 75.00



MODULATOR

40-watt modulator designed especially for use with 90801 Exciter-Transmitter. 12AX7 speech amplifier, 6C4 voltage amplifier class AB1 6146's. Suitable for modulating transmitters with power input up to 80 watts. Gain is ample for the use of low level, high impedance crystal or dynamic mikes. Frequency response is adjusted for good communication intelligibility with limited side bands. Modulator incorporates a switch for complete changeover of modulator and transmitter from CW to phone. Rack mounted. Panel height 5 1/2", Shpg. Wgt. approximately 15 lbs.

MODEL 90831. Less tubes. Net.....\$ 60.00

High Frequency RF Amplifier

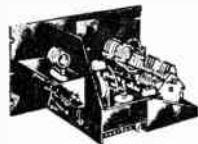


Capable of power output of 70 to 85 watts on phone or 87 to 110 watts on CW on 20, 15, 11, 10, 6, or 2 meter ham bands. Quick band shift. Uses 829B or 3E29 tube in push-pull circuit. Requires external power supply, modulator, and grid and plate meters. Only .8 watts required to drive unit to full power output. May be excited directly by crystal oscillator or low power VFO on 20, 15, 11, 10, or 6 meters. Size: 8 3/4" L x 4 1/2" W x 3 3/4" H. Requires power supply of from 400 to 750 volts at 180 to 275 MA. Grid and plate coils for 10 meters supplied. Less tubes. Shpg. wgt. 6 lbs.

MODEL 90811. NET. . . . \$37.50

GRID AND TANK COILS FOR 90811

Number	Band	Net
48002	2 mtr. grid coil and link	\$2.01
48006	6 mtr. grid coil and link	2.01
48011	10 mtr. grid coil and link	2.01
48021	20 mtr. grid coil and link	2.01
48102	2 mtr. tank coil and link	2.01
48106	6 mtr. tank coil and link	2.01
48111	10 mtr. tank coil and link	2.01
48121	20 mtr. tank coil and link	2.01



RF POWER AMPLIFIER

A Universal RF Power Amplifier designed for use with PP tubes such as 35T's, T-40's, 812's, etc., with plate power input about 500 watts. Grid and plate MA meters. Plug-in coils. Provision for vacuum condenser plug-in. Far standard rack mounting. With one set of coils, less tubes.

MODEL 90881. NET. . . . \$100.50

500 WATT TANK COILS FOR 90881

Number	Frequency	Net
42010	10 Meters	\$3.18
42020	20 Meters	3.18
42040	40 Meters	3.18
42080	80 Meters	3.18
42160	160 Meters	3.69

75 WATT GRID COILS FOR 90881

Number	Frequency	Net
43011	10 Meters	\$1.41
43021	20 Meters	1.41
43041	40 Meters	1.41
43081	80 Meters	1.41
43161	160 Meters	2.70



Standing Wave Ratio Bridge

The Millen S.W.R. bridge provides easy and inexpensive measurement of standing wave ratios on antennas using coax cable. The compact and sturdy rectangular shielding case (only 4 1/4 x 2 1/4 x 1 3/8") is fitted with coax terminals at both ends. Socket type binding posts provide connection to a 0-1 MA meter. (Use your own meter.) Matching plug is furnished. As assembled the bridge is set up for 52 ohm line. A calibrated 75 ohm resistor is mounted inside the case for substitution in the circuit when 75 ohm line is used. A calibration curve showing standing wave ratio against meter reading is furnished.

MODEL 90671. NET. . . . \$16.80

Midget Absorption Frequency Meters



Can be used close to transmitter coils, chassis, etc. Will check parasitics, harmonics, oscillator, doubler, tank tuning. All models directly calibrated in frequency. Shpg. wgt. 1 lb.

Number	Range	Net
90605	3.0-10 MC	\$7.50
90606	9.0-23. MC	7.50
90607	23-60 MC	7.50
90608	50-140 MC	7.50
90600.	Complete set, 90605 through 90608.	
Wad case. NET.		\$30.00

ANTENNA MATCHING PREAMPLIFIER R9'er

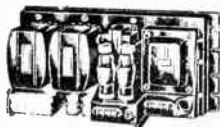


An electronic impedance matching device and broadband pre-amplifier combined in a single unit. Specifically for the 6 and 10 meter ham bands. Average gain of 30 db with most receivers. Extremely compact. Utilizes plug-in coils. Power obtained from receiver. Uses one 6AK5 tube. Complete with power plug, input and output connectors but less tube and coils.

MODEL 92101. NET. . . . \$24.26

R9'er COILS

Type	Frequency	Net
46906	6 Meters	\$3.54
46910	10 Meters	3.54
46915	15 Meters	3.54
46920	20 Meters	3.54



HIGH VOLTAGE POWER SUPPLY. 700 VDC at 235 MA output and 6.3 at 4 amps. For use with the Millen 90801 Exciter or any application where power supply of this type is needed. 115 VAC 50/60 cycle operation. Less tubes. Shpg. Wgt. 60 lbs.

MODEL 90281. NET. . . . \$94.50

MORROW

AMATEUR MOBILE COMMUNICATIONS EQUIPMENT



5 BAND CONVERTER

Covers 75, 40, 20, 15, and 10 meter bands. Big edge-lighted slide rule dial. 1/2 microvolt sensitivity. Excellent image rejection. Extremely stable and ruggedly built for rough mobile use. Built-in series noise limiter. 1525 KC output. Band switch, tuning control, and antenna trimmer. Uses 6CB6 RF, 12AT7 mixer osc., 6BA6 IF, 6AL5 noise limiter. Requires 6 or 12 volts at 1.5 amps and 200 VDC at 20 MA. Strong steel case finished in grey hammertone. Size: 4x5 1/2 x 7". With Tubes. Shpg. Wgt. 6 lb. **MODEL 5BR-1. Net.....\$ 74.95**

CONVERTER FOR FTR RECEIVER

Same converter as the 5BR-1 but does not have built-in noise limiter. It is specifically designed for use with the Morrow FTR receiver without modification. Shpg. Wgt. 6 lbs. **MODEL 5BRF. Net.....\$ 67.95**



FIXED TUNED MOBILE RECEIVER

Crystal controlled, fixed tuned. Companion unit for use with 5BRF converter but other good converters may be adapted for use with it. The two units combine to give double conversion and steep-sided skirt selectivity. Nine tubes. BFO. Exceptional stability affords excellent SSB reception. Sensitivity 1/2 microvolt. Novel noise limiter and noise balanced squelch circuits. Effective S meter. Same size as 5BRF converter. Power supply and speaker not included in receiver so that heat and vibration will not affect receiver's fine selectivity and stability. Major controls on front panel. Relay control terminals for receiver muting. Send-Receive relay on power supply. Furnished with 1525 KC crystal for use with Morrow converters but 1425 and 1550 KC crystals for use with other converters available on exchange basis. With tubes, power supply, shielded power cables. Less speaker. Shpg. Wgt. 15 lbs. **MODEL FTR-6. For 6 volts. Net \$ 128.40**
MODEL FTR-12. For 12 volts.....128.40

RME



THREE BAND MOBILE CONVERTER

A mobile converter for 2, 6, and 10-11 meters. Separate antenna input connectors for each band. Individual slug-type coils for each band. Sensitivity of 1.25 MV on all bands. Four tuned circuits in IF output stage. Output frequency 1550 KC. Has built-in noise clipper, antenna change-over switch, transmit-receive switch, edge-lighted dial. Requires 150-180 VDC @ 25 MA from car radio. Rugged and stable tuning mechanism. Uses 6AK5 RF amp., 12AT7 osc.-det., 6BJ6 IF amp., 6AL5 ANL, and OB2 voltage regulator. Finished in dark grey enamel. Size: 5 3/4 x 4 3/8 x 5 1/4" D. Shpg. wgt. 4 lbs.

MODEL MC-53. NET....\$66.60



PRESELECTOR

This broadband preselector greatly improves the gain and signal-to-noise ratio of any good amateur receiver. Average overall gain is 25 DB on all bands 3.5 through 30 MC. Covers all amateur bands 80 through 10 meters. Uses 3 6J6 tubes plus rectifier. Controls: on-off, band selector and antenna peaking. Input impedance 600 to 50 ohms for coax, doublet or twin lead. 52 to 300 ohms output to receiver through shielded cable. Blue-grey steel cabinet, 5Hx7 1/2 Wx6" D. For 115 VAC, 50/60 cy. operation. Shpg. wgt. 8 lbs.

MODEL DB-23. NET....\$49.50



MOBILE CONVERTER

A mobile converter covering all amateur bands, 10 through 80 meters in 5 ranges—26.5-30, 21-21.45, 14-14.3, 7-7.3 and 3.5-4 MC. Sensitivity 1.25 MV on all bands. Input impedance 50 or 72 ohms. Highly efficient noise limiter built in. Uses 6AK5 RF amp., 12AT7 osc.-det., 6BJ6 IF amp., 6AL5 noise limiter. Slug-type coils for each band, 4 tuned circuits in IF output stage for high signal-to-noise ratio. Tuning knob located on the side provides easy finger tuning through a 25-to-1 worm gear assembly. Has transmit-receive switch to silence receiver and operate transmitter relays. Output frequency 1550 KC. Requires only 150-180 VDC at 25 MA. Metal case finished in dark grey enamel. Size: 4 7/8 Hx5 3/4 Wx 5 1/4" D. Complete with tubes, connecting cables, and instructions. Shpg. wgt. 7 lbs.

MODEL MC-55. Net....\$69.50



RME SPEECH CLIPPER

A peak limiting preamplifier which will improve performance of phone transmitters. Attenuates frequencies above 3000 CPS and below 200 CPS. Harmonics resulting from clipping are eliminated by pi low-pass filter. Operates directly into speech amplifier through 18" shielded cable. For high impedance mike. Uses 6SC7 and 6H6 tubes. Built-in power supply. Blue grey steel case, size 5Hx7 1/2 Wx6" D. For 110-120 VAC. 50/60 cy. operation. With tubes. Shpg. wgt. 9 lbs.

MODEL 100. NET.....\$39.50

MORROW



SH



GC

MOBILE SPEAKER. May be mounted overhead, under dash, or on fire wall. 5" heavy duty PM. Cast aluminum case. Chromed steel grill. With mounting bracket. Shpg. Wgt. 5 lbs.

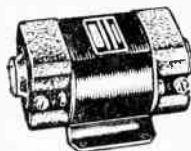
MODEL SH. Net.....\$ 7.50

GENERATOR NOISE FILTERS

Tuned circuit RF filter attenuates generator noise created by brush sparking. Easy to install. Just tune to minimum hash level in mobile receiver. Shpg. Wgt. 1 lb.

MODEL GC-10. For 10 meters. Net..\$ 3.75
MODEL GC-20. For 20 meters. Net..\$ 3.75

CARTER GENEMOTORS



For mobile use. Will furnish the necessary "B" power for ham mobile installations. Will give long life and quiet operation. Supplied less filter but in most cases AM transmitters usually only require a 2 or 4 mfd oil condenser across output for quiet operation. Size: 7 1/2 Lx4 3/8 Wx3 1/2 H including base. Shpg. Wgt. 15 lbs.

Model	Input VDC	Output VDC	Net
450AS	6 @ 29 A.	400 @ 250 MA	\$ 49.25
520AS	6 @ 28 A.	500 @ 200 MA	49.25
624VS	6 @ 46 A.	600 @ 240 MA	52.32
450BS	12 @ 13 1/2 A.	400 @ 250 MA	49.98
520BS	12 @ 14 A.	500 @ 200 MA	51.03

ELDICO KITS



TUBELESS VFO KIT

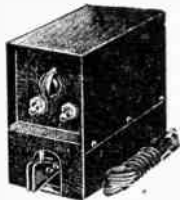
Compact remote VFO for use with Eldico TR-1TV and TR-75TV transmitters. Covers 80, 40, 20, 15, and 10 meters. Plenty of bandspread an 6" dial; 80 meter band is divided into two sections. Sturdy construction and lack of heat because of no tube in unit assures extreme stability. No power connections required; just single coaxial line from VFO to the transmitter. With cabinet, all parts, and instructions. Shpg. Wgt. 5 lbs.

MODEL VFO-2 KIT. Net.....\$ 24.95
MODEL VFO-2. Wired and tested.....29.95

ELDICO



AT-1



EE-1

ANTENNASCOPE

The instrument to give you positive antenna performance and efficiency. The Antennascope is an impedance measuring meter used in conjunction with the Grid Dipper. With the Antennascope you can measure radiation resistance of your antenna; resonant frequency of your antenna; impedance of your transmission line; input impedance of your receiver; standing wave ratio of your feedlines. Each kit is absolutely complete with special hand-selected parts; 0-100 microammeter; silk screened dial; drilled and fabricated case. Complete kit with instructions. Shpg. wgt. 5 lbs.

MODEL AT-1 Kit. NET . . . \$29.95

MODEL AT-1, wired and tested, NET. . . \$34.95

ELECTRONIC BUG

SELF-COMPLETING DOTS AND DASHES

Self-completing type of automatic keying device. Features self-completing characters that automatically insure perfectly formed sending; continuous variable speed control for any rate of sending from 9 to 50 WPM; separate control for weight of characters and ratio of dashes to dot length. Built-in power supply. Complete kit with instructions. Shpg. wgt. 20 lbs.

MODEL EE-1K. NET \$29.95

MODEL EE-1, wired and tested, NET. . . \$39.95

MODEL EE-2K, complete kit including addition of integral keying monitor with speaker. \$34.95

MODEL EE-2, wired and tested with keying monitor. NET. \$49.95



TR-75TV TRANSMITTER

60-watt CW transmitter kit includes anti-TVI features—special shielding and bypassing to reduce harmonics. An easily built beginner's transmitter. Covers all bands 80, 40, 20, 15 and 11-10 meters. Antenna tuner output permits easy matching to any single or long wire antenna. Uses 6AG7 crystal oscillator and 16Z5 final. Husky power supply with 5U4G rectifier delivers 550 volts. Complete with every part including all tubes, capacitors, meter, resistors, hardware, chassis, cover, low pass filter, call forms and wire for any one band, complete simple instruction manual. Size: 17x10x9". This transmitter is easily adaptable to phone operation by using the AM-40 modulator. For operation from 110-120 volts, 50/60 cy. AC. With complete simple instruction manual. Shpg. wgt. 50 lbs.

MODEL TR-75TV Kit. NET. \$64.95

MODEL TR-75TV, Wired and tested. NET \$94.95

Extra Coil Set Kits for additional bands.

Each Coil Set Kit. NET. \$4.50



ELDICO MODULATOR KIT

The ideal modulator and speech amplifier for TR-75TV and transmitters of similar power. Pair of 6L6G's delivers 40 watts of audio. Built-in power supply furnishes 350 VDC at 200 MA. Uses 6 tubes plus 5U4G rectifier. Complete with all parts and instructions. Less mike. For operation on 110-120 VAC, 50/60 cy. Shpg. wgt. 40 lbs.

MODEL AM-40 Kit. NET \$59.95

MODEL AM-40. Wired and tested. NET.\$79.95

BARKER & WILLIAMSON



TRANSMITTER

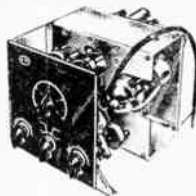
BANDSWITCHING - 150 WATTS

Completely self-contained, fully band-switching, VFO or crystal controlled transmitter. Covers 80, 40, 20, 15, 11, and 10 meters. 150 watts input on CW, 135 watts an phone. Stable VFO with accurately calibrated scale. Crystal oscillator uses 80-meter crystals for all bands. Pi-network output. Thorough TVI precautions taken include built-in low pass filter. May be used as exciter for high power modulator and RF amplifier. Unitized construction permits quick access and easy removal of any major section without disturbing other sections. Tubes used: 6BJ6 VFO, 6BJ6 crystal osc., 6BJ6 buffer, 4-6AQ5 multipliers, 2-6146 RF amp., 6U8 speech amp., 6AQ5 driver, 2-6146 modulators, 5V4G and 2-5R4GY rectifiers, OC3 and OD3 regulators. Cabinet finished in blue grey, etched aluminum panel. For 110 VAC 50/60 cycle operation. Wired and tested with tubes. Less crystal, microphone, and key. Shpg. Wgt. 90 lbs. Size: 22x11 1/2 x 14 3/4".

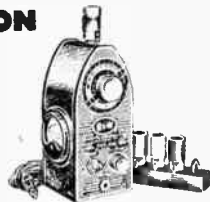
MODEL 5100. Net.....\$ 442.50

SINGLE SIDEBAND ADAPTER. For use with the B&W Model 5100 Transmitter. Permits operation on CW, AM, SSB with comparable power output on all bands. Write for full description and price.

BARKER & WILLIAMSON



DIP METER



Highly sensitive, accurately calibrated. Has enumerable uses in the laboratory, service shop, and ham shack. Incorporates many features. Can be used as a grid dip oscillator, signal generator, or absorption wave meter. May also be used to make measurements of capacity, inductance, circuit "Q", and as a means of determining other factors in electrical circuits. Complete instruction book enclosed with instrument. Self-contained power supply operates from 110 volts AC. Covers 1.75 to 260 MC in five calibrated overlapping bands. 500 microamp meter with adjustable control. Wedge-shaped for ease of getting into tight places. Uses 955 acorn-type tube. Size: 3x3x7". Finished in hammeroid grey. Weight 2 lbs. Shpg. Wgt. 3 lbs.

MODEL 600. Net.....\$ 39.75

ALL-BAND FREQUENCY MULTIPLIER

Fixed tuned, broadband frequency multiplier designed for use with an external VFO. Output an all amateur bands 80 thru 10 meters at flip of a switch. Uses four 6AQ5 multipliers and an 807 with at least 25 watts output an all bands. Pi-network in final output. Terminal strip indicates voltages required; approximately 600 plate volts and 250 screen volts. With tubes. Shpg. Wgt. 8 lbs.

MODEL 504C. Net.....\$ 85.00

CRYSTAL OSCILLATOR. Separate unit which will attach to the 504C multiplier. Write for description and price.

"Your trade-in's worth more at the WALTER ASHE STORE" (13)

Central Electronics

SINGLE SIDEBAND



SSB EXCITER TRANSMITTER KIT

Phasing type exciter or low power transmitter kit for the following types of transmission: switchable single sideband (with or without carrier), double sideband reduced carrier AM, narrow band phase modulation, break-in CW. Features voice controlled break-in and receiver muting. Unit operates on 160 through 10 meters. 10 watts peak output. Will drive KW beam power linear amplifier or 400 watt triode linear amplifier. 9000 KC master crystal oscillator. Socket on panel for injection frequency crystal. Rear power socket for external VFO. Tubes: 3-12AT7, 12AU7, 6BA7, 6AG7 linear amp., 5U4G and 6AL5 rectifiers. Steel cabinet, grey finish, 14 1/2" x 8 1/2" x 10". With 9000 KC crystal, prealigned phase shift network, wiring harness, tubes, and all parts, building and aligning instructions, plug-in coils for one band (specify band); less injection frequency crystal. For 110-120 VAC 60 cycle operation. Shpg. Wgt. 35 lbs.

- MODEL 10B KIT. Net.....\$ 129.50
- MODEL 10B. Wired and tested. Plug-in coils for one band (specify band) and instructions. Net.....\$ 179.50

SIDEBAND SLICER KIT. Improves any receiver with 450-500 KC IF. Upper or lower sideband reception of SSB, AM, PM, and CW at flip of switch. Cuts QRM in half. Substitutes for diode detector in receiver. Self-contained power supply. Grey finish case, size 5 1/2" x 8 1/2" x 13". With tubes, wiring assembly, prealigned phase shift network and instructions. For 110-120 VAC 60 cycle operation. Shpg. Wgt. 15 lbs.

- MODEL A KIT. Net.....\$ 49.50
- MODEL A. Wired and tested. Net...\$ 74.50

MODEL AP-1 PLUG-IN ADAPTER. IF stage used with Sideband Slicer. Allows receiver to be switched back to normal. wired and tested. Shpg. Wgt. 15 lbs.

- Net.....\$ 8.50

MODEL QT-1 ANTI-TRIP UNIT. Prevents loud noises from loudspeaker such as loud signals, heterodynes, and static from tripping the voice break-in circuit. Shpg. Wgt. 2 lbs. Net.....\$ 12.50

EXTRA PLUG-IN COIL SETS. For Model 10B. Specify band. Shpg. Wgt. 1 lb. Per Set, Net.....\$ 3.95

BANDSWITCHING SSB TRANSMITTER KIT

Has same features as the 10B but, in addition, is completely bandswitching on all bands, has 20 watts peak output and features magic eye carrier null and modulation peak indicator. Tubes: 3-12AT7, 12AU7, 6BA7, 12BH7, 2-6AG7 linear amp., 6E5 magic eye, 5U4G and 6AL5 rectifiers. Steel case, grey finish, 14 1/2" x 8 1/2" x 10". With 9000 KC crystal, prealigned phase shift network, wired and tested 3-stage bandswitch RF unit, wiring harness, tubes, all parts, and complete building and aligning instructions; less injection frequency crystal. For 110-120 VAC 60 cycle operation. Shpg. Wgt. 40 lbs.

- MODEL 20A KIT. Net.....\$ 199.50
- MODEL 20A. Wired, tested. Net...\$ 249.50

MODEL PS-1 PLUG-IN ALIGNED PHASE SHIFT NETWORK. With socket. Available separately for home constructors. Sideband rejection 40 to 45 DB over 225 to 2750 CPS. For use with GE Signal Slicer and SSB Jr. Shpg. Wgt. 1 lb. Net.....\$ 8.95

Barker & Williamson

LOW PASS FILTERS



Two low pass filters for use at the transmitter for reducing or eliminating TVI. Either will handle 1 KW of RF power safely if SWR is not excessive. Measured attenuation is better than 85 DB throughout all TV channels and over 100 DB in channel 2. Constructed of heavy gouge copper sheet.

- MODEL 425 52 ohms Net \$ 14.85
- MODEL 426 75 ohms 14.85

"ON-THE-AIR" SIGNAL



Shows when you are on the air. Large, bright red letters are clearly read across the room. Fine for mobile or fixed station. Black metal case, 5x-2 3/4 x 1 1/4". Uses screw base pilot lamp. Requires 5.3 volts to operate. Shpg. wgt. 1 lb.

- "ON-THE-AIR" SIGNAL. NET.....\$1.50

SYLVANIA

MODULATION METER



A convenient method of monitoring the % modulation of an AM transmitter. Frequency range, through 54 MC. Ear-phone jack for monitoring. Simple to install and operate. Shpg. wgt. 4 lbs.

- MODEL X-7018. NET.....\$29.50

MALLARD MOBILE BFO

Receive SSB and CW with your present mobile converter and receiver. This stable unit has 262 KC and 455 KC outputs. Low current drain; power may be obtained from converter power plug. Uses 6C4 tube. No connections to receiver necessary. Perfect for fixed station receivers which are not stable enough for SSB reception. Size: 4x 1 1/2 x 2". Shpg. Wgt. 3 lbs.

- MODEL BFO-1. Net.....\$ 10.95

20% DEPOSIT REQUIRED ON C.O.D. ORDERS



TRIPOLET

FREQUENCY METER

Bandswitching type covers 5 ham bands. Uses new germanium crystal and DCMA. Direct calibration. Audio jack for monitoring phone signals. Can be used for checking fundamental frequencies, parasitics, neutralizing RF amplifier, standing wave ratio on lines, undesirable or small RF signal, etc. Shpg. wgt. 1 1/4 lbs.

- MODEL 3256. NET.....\$17.15

W9IOP'S "SECOND OP" HANDY OPERATING AID FOR HAMS

Ingenious computer gives complete DX information instantly. With one setting you get all of the following information at a glance: prefix; great circle beam heading; time and date of DX location; air mail, first class, and QSL card postage rates; international reply coupon exchange table; continent; DX zone; prefix-to-country translation. Also included is a list of QSL Bureau addresses. Measures 10 1/2" in diameter. POSTPAID IN U.S.A.

- SECOND OP. Net.....\$ 1.00

14 NEED NEW TEST EQUIPMENT?-We'll Trade In Your Old Units!

ELENCO SINGLE SIDEBAND

AMATEUR

ELENCO
INDIVIDUAL SSB UNITS



X-4 SINGLE SIDEBAND SERIES

SSB EXCITER. Compact unit suitable for mobile or fixed installations. Utilizes a very stable crystal filter for sideband generation. Choice of transmitted sideband by using crystal or VFO on proper heterodyning frequency above or below the desired operating frequency in the range of 3.6 to 4.0 MC. Uses 6SA7 crystal osc. and audio mixer, 6SL7 speech amp., 6SA7 2nd mixer and VFO, 6F6 4 MC power output. Enough audio gain for microphone of -60 DB output level or higher. Power output up to 10 watts depending on power supply used. Power requirements: 6.3 volts at 1.6 amps, 200-300 VDC at 80 MA. Cabinet finished in black ripple measures only 6x6x6". Wired and tested, with tubes; crystal filter aligned. Less power supply.

MODEL X-4 SSB EXCITER. Net....\$ 69.50

VFO. Small, rugged VFO uses a modified Clapp circuit and utilizes the 6SA7 2nd mixer of the X-4 exciter to furnish oscillator voltage. Plugs into crystal socket on back of X-4 exciter with 18" twin cable and plug which are furnished with VFO. Provides sideband selection and is extremely stable. Silver mica padders and ceramic oscillator coil forms are used, no heat is developed because there is no tube in the unit. 4" tuning dial covers 3.6 to 4.0 MC in approximately 50 KC steps. Black ripple cabinet measures 4x4x2". Also provides VFO operation on 20 and 40 meters when using the X-4 mixer. Wired and tested.

MODEL X-4 VFO. Net.....\$ 24.50

VOICE CONTROL UNIT. Designed to permit voice-controlled operation of the X-4 exciter and associated receiver. Circuit uses 6SN7 dual triode; one section as a voltage amplifier, other section as a negative pulse gating tube which controls the voice-operated relay. May be used with some power supply as used with exciter. Requires 6.3 volts at .6 amps, 200-300 VDC at 10 MA. Black ripple cabinet, 4x4x2". Wired and tested with power plug, socket, and tube, less connecting cable.

MODEL X-4 VOICE CONTROL UNIT. Net.....\$ 19.95

MIXER. Designed to use with the X-4 exciter to convert the 4 MC SSB signal to 10 and 20 meters with power output up to 10 watts. A 6L6 is used as a combined crystal oscillator and mixer stage. To change bands when using the X-4 exciter and mixer, it is only necessary to change one coil and one crystal in the mixer. May be operated from some power supply as the exciter. Requires 6.3 volts at .9 amps, 200-300 VDC at 60 MA. Black ripple cabinet, 4x4x2". Wired and tested with tube, power plug, and socket, plus one coil and one crystal for 20 meters. Less connecting cable.

MODEL X-4 MIXER. Net.....\$ 19.95
Coil for 40 meters. Net.....\$ 1.75
Crystal for 40 meters.....\$ 3.95



75-METER SSB TRANSMITTER-EXCITER

A complete 75-meter single sideband transmitter with 10 watts peak output - enough power to drive most high power tubes to a full KW. Uses 12 tubes with an 807 linear amplifier. Built-in power supply; voltage regulator for 450 KC crystal oscillator and for the very stable VFO. Unit uses crystal filter type of circuit and provides SSSC or SS with carrier. 4 MC output. Other features include voice control circuit with plate relay, variable receiver carrier injection, provisions for break-in CW operation. Spare wired socket for additional 807 amplifier parallel 807's with larger external power supply will deliver up to 100 watts peak output. Unit may also be operated on 20 and 40 meters when used with the BSM-3 Bandswitching Mixer. Grey ripple cabinet, 20x12x12". For 115 VAC, 60 cycle operation. Complete with tubes.

MODEL SS-75. Net.....\$ 245.00

BANDSWITCHING MIXER

The bandswitching mixer is used to convert the 4 MC output frequency of the SS-75 to 20 and 40 meters. Unit has individually pretuned tank circuits for each band. No retuning necessary in the exciter or mixer stages when changing bands - just turn the bandswitch. Tubes used are two 807's as mixers and a 6AG7 heterodyning crystal oscillator. 20 watts power output on 20 and 40 meters when using a 600 volt power supply. When using the BSM in conjunction with the SS-75, the units convert the receiver carrier from the exciter, as well as the transmitted SSB signal, to the desired band. When bandswitch is on 75 meters, the mixer power supply is automatically turned off, and the 4 MC output from the exciter is switched straight through to the final. Grey ripple finished panel measures 19x3 1/2". Chassis extends 7" behind panel. Completely aligned with tubes and crystals, less power supply.

MODEL BSM-3. Net.....\$ 75.00

SPEAKATROL. Designed for use with any voice operated relay control system. By using this unit, the microphone can "distinguish" between the local operator's voice and sounds coming from the loudspeaker. The unit operates by taking voltage from the voice coil winding of the receiver output transformer. The AC voltage is rectified to a negative DC voltage. A 6J5 is used as a negative pulse gating tube with a relay in the plate circuit. A signal from the receiver causes voice control in transmitter to be inoperative and any sound into microphone will not trip transmitter on. As soon as the receiver output drops off, the voice control becomes operative. Operating voltages may be obtained from the SS-75 exciter when used with that unit. Housed in black ripple cabinet, 4x4x2". With tube, connecting socket, and plug, less cable.

MODEL SPEAKATROL. Net.....\$ 24.50

CRYSTAL FILTER. An exact duplicate of the filter used in the SS-75 exciter. It is designed for those who would like to construct a high quality crystal filter transmitter or exciter, without concern of the alignment and design of the crystal filter. Unit is completely aligned and ready to use by connecting to the input and output terminals. Alignment guaranteed for three years. Complete with carrier oscillator crystal installation notes and schematic diagram of the SS-75 exciter. Mounted on small chassis, 4x2x4 3/4". For mounting on larger chassis.

MODEL FL-1 FILTER. Net.....\$ 29.50

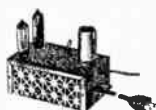
TR SWITCH. A unit which is effectively an electronic antenna relay. Especially useful when fast break-in is used; such as push-to-talk AM, break-in CW, or voice control break-in on SSB. No power supply required; input connects across coax line from transmitting antenna, output connects to receiver antenna terminals, adjust trimmers on switch for maximum received signal on receiver 5 meter. "Limiter" or "clipper" circuit limits amount of power that can get from local transmitter to the receiver, yet allows relatively weak signal to pass through with little attenuation. Black ripple cabinet, 4x4x2". Supplied with plug-in coil for 75 meters.

MODEL TR SWITCH. Net.....\$ 9.95
10 meter coil for TR Switch. Net.....\$ 1.75
20 meter coil for TR Switch.....\$ 1.75
40 meter coil for TR Switch.....\$ 1.75

NEW BUD 2-Tube Frequency Calibrator

This self-powered unit assures accurate check of transmitter frequency as required by the FCC. Eliminates frequency drift and locates exact band edges. Consists of a 100 KC crystal oscillator giving 100 KC check points on all bands to 30 MC. Uses 50C5 and 35W4 tubes; has On-Off and Standby switches. Plug into 110 VAC, 60 cycles, connect pickup lead to receiver antenna binding post and unit is ready for operation. Complete with tubes and crystal. Shpg. Wgt. 3 lbs.

MODEL FCC-90A. Net.....\$ 16.90



FCC-90A



GX-79

GIMIX

Multi-purpose unit, high sensitivity absorption type frequency meter and field strength indicator. May also be used as monitor, carrier shift indicator and neutralizer. Calibrated for use on 10, 20, 40 and 80 meter ham bands. Shpg. wgt. 4 lbs.

MODEL GX-79. NET.....\$ 8.80

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LEARN THE CODE FROM YOUR PHONOGRAPH



**ELECTRONIC
TECHNICAL
INSTITUTE**

Code Instruction Course

Learn the code the new easy way! You learn only by sound. These code records are particularly designed to help you pass FCC amateur and radio-telegraph code examinations. Records play at 78 RPM and are unbreakable at normal usage. May be used with record changers. Course includes records used in practicing copying code through static and interference. Instructions included on how to construct code oscillators and use of headphones. Album No. 1 contains alphabet, numbers, and punctuation. Album No. 2, 4 to 10 words per minute. Album No. 3, 11 to 20 words per minute. Shpg. wgt. of single album, 8 lbs. Shpg. wgt. of set of 3 albums, 20 lbs.

ALBUM NO. 1, NET.....\$10.78
ALBUM NO. 2..... 10.78
ALBUM NO. 3..... 10.78
SET OF THREE ALBUMS..... 29.35



ELDICO "PRIVATE TUTOR" RADIO COURSES

Novice Amateur Radio Course

A complete theory and code course tailor-made for the Novice. Consists of five Columbia long-playing 33 1/2 RPM microgroove recordings for code instructions, six novice theory lessons and examinations, an ARRL License Manual and various supplementary aids. The unbreakable microgroove 12" records give a total of almost five hours of code instructions at the equivalent of 50 standard speed records. Code instructions are accompanied by the voice of the instructor.

Novice Course (Code & Theory), NET...\$25.00
Records only (Code Course), NET...\$17.00
Theory Course only, NET...\$10.00

Advanced Code Course

The Eldico "Private Tutor" Advanced Code Course consists of five long-playing Columbia microgroove recordings. Each record can be played at three different speeds on a three-speed record player. By this means, these records will reproduce code from 8 to 30 WPM. Each record has approximately 30 minutes of practice time when played at 33 1/2 RPM. Course includes straight text, numbers, coded groups and cryptograms. Records are available individually. Order by record number.

Record No.	Words Per Minute at the Three Speeds		
	33 1/2 RPM	45 RPM	78 RPM
1	6	9	14
2	8	13	21
3	10	15	23
4	11	16	26
5	13	17	30

EACH RECORD, NET.....\$3.95

AMECO



CODE AND THEORY COURSES

AMECO home study courses are designed to prepare you for amateur and commercial exams and amateur theory exams. Courses are simple, modern and low in price. No previous background required. All necessary material for the FCC tests is included. Order by course number.

NOVICE CODE COURSE. Prepares you for NOVICE and TECHNICIAN code tests. Includes five double faced 78 RPM records, album, and code learning book. Records, which teach sending and receiving, start with the alphabet and go up to 7 1/2 WPM. Typical FCC type exams are included in the recordings. Code books give fastest methods for learning code and charts to check receiving accuracy.

COURSE NO. 1, Net.....\$ 7.95

SENIOR CODE COURSE. Prepares you for the NOVICE, TECHNICIAN, GENERAL, CONDITIONAL and 2ND CLASS radiotelegraph code examinations. Consists of everything included in Course No. 1 plus six additional double faced 78 RPM records which bring your speed up to 18 WPM. Also includes FCC type exams for GENERAL and 2ND CLASS radiotelegraph licenses.

COURSE NO. 2, Net.....\$ 12.95

ADVANCED CODE COURSE. Prepares NOVICE operators for GENERAL CLASS and 2ND COMMERCIAL exams. Consists of last six records of No. 2 Course and learning book. Code speeds from 8 1/2 to 18 WPM. Included are FCC type exams for GENERAL CLASS and 2ND CLASS radiotelegraph licenses.

COURSE NO. 3, Net.....\$ 6.95

RADIO AMATEUR THEORY COURSE. Prepares the beginner for theory examinations of the NOVICE, TECHNICIAN, CONDITIONAL and GENERAL licenses. The course consists of fourteen lessons, close to 400 FCC type questions and answers, three study guides — all under one cover, plus a guide on how to set up a ham station.

COURSE NO. 4, Net.....\$ 3.95

AMECO RADIO AMATEUR QUESTION AND ANSWER LICENSE GUIDE

Contains FCC-type multiple choice questions and answers, FCC-type exams similar in all respects to those given by FCC. Sections on preparing Novice examination, General Class and Technician, Basic Electricity, Power Supplies, Rules and Regulations, etc. Postpaid in U.S.A. Net....\$ 5.00

BARGAIN

TELEGRAPH KEY



MODEL J-38. Signal Corps key packed in original carton. Excellent for beginners or ham operators. Sturdily built, will last a lifetime. With switch. Shpg. Wgt. 1 lb. Net.....\$.98

NOVICE LICENSE COURSE

Simple and easy way to learn the code to qualify yourself for the novice license. Course contains 34 4-minute code recordings (alphabet through 6 WPM); 2 12-record albums; tone record for sending practice; instructions for using your record player to send radio code; Novice lesson No. 1—Basic Radio Theory (8 record sides explaining pictures covering all the basic radio theory needed in passing novice examination); Novice lesson No. 2—Radio Operation (Correct method for going on the air and all rules and regulations needed by the amateur); Novice lesson No. 3—The Amateur Station (Information on building your transmitter, code practice oscillator, and station monitor. Pictorial instructions. Parts list and schematic diagram.). Shpg. Wgt. 8 lbs.

E.T.I. NOVICE COURSE, Net.....\$26.95



Linguaphone Code Records

Learn the International Morse Code—quickly and easily with these records. Combines EYE and EAR method. Complete LINGUAPHONE code equipment consists of 5 double faced electrically transcribed records in durable album. Discs play at 78 RPM and are unbreakable with normal usage. This is the scientific way to learn the code. Shpg. wgt. 5 1/4 lbs.

MODEL 1800, NET.....\$10.73

BUD Code Practice Oscillators



CPO-128A



CPO-130A

Code practice oscillator and use as monitor after you learn the code. Built-in 4" PM speaker. Will operate up to 20 headphones. Volume control and pitch control to suit individual requirements. Any number of keys may be connected in parallel for group practice. External speaker may be plugged in without use of output transformer. Uses 50C5 and 35W4 tubes. Operates on 117 volts AC/DC. Grey hammerstone. Size: 6 1/2 x 5 1/2 x 3 1/2" D. Shpg. Wgt. 4 lbs.

MODEL CPO-128A, Net.....\$ 15.43

Earphone type code practice oscillator and monitor less speaker. Similar in other respects to the Model CPO-128A. Shpg. Wgt. 3 lbs.

MODEL CPO-130A, Net.....\$ 13.82



ICA TRIPLEX

A single unit key which incorporates blinker light, radio signal, and telegraph sending. Using only two small flashlight cells, this unit may be used for beginners in learning the code by telegraph signals or by blinker light. Easy to hook up and operate, code symbols are on top of instrument, with switch to select type of transmission on side. Two units may be used in conjunction with each other to send messages up to several hundred feet apart. Well made and attractively finished. Less batteries.

MODEL 70, NET EACH.....\$1.91

ICA Code Practice

Oscillator



Combination Audio Oscillator, Code Practice Set and Keying Mania complete with tube and self-contained speaker. 110 volt AC/DC operation. 3 different output frequencies and variable volume control. A number of phones and keys may be used in classroom operation. All controls and jacks are on front panel for easy operation. Shpg. wgt. 4 lbs.

MODEL 4300 Deluxe Signatone NET....\$15.43

20% DEPOSIT REQUIRED ON C.O.D. ORDERS

QUALITY AMPLIFIERS

AUDIO-HI-FI

MASCO "ECONOMY LINE"

PHONO TOP

PORTABLE SYSTEM

RECORD CHANGER

MOBILE AMPLIFIER



MODEL MM15P3. Operates from 6 volts DC or 117 volts AC. Output 15 watts, peak 20 watts. Inputs for one mike and one phono. Standby "battery saver" switch. Outputs: 2-4-8-15-500 ohms and 70 volts. Frequency response 50-15,000 CPS. Power consumption, AC 30 watts, DC 15 amps. 3-speed phono plays all records, turn-over crystal cartridge. Tubes: 1-6SC7, 1-6SL7GT, 2-6V6GT, 1-6AX5GT. Size: 12x10x8 1/2". Shpg. Wgt. 22 lbs. Net \$ 91.87



MODEL MM15P3. Same as Model MM15P3 plus carrying case with two built-in 12" PM speakers with 25' cables and connector. Model JT-30 mike with 15' cable. Shpg. Wgt. 43 lbs. Net \$ 135.97



MODEL ME36R. Same amplifier as Model ME36 but features addition of Webster Model 114 Record Changer. Plays all three speeds (33-1/3, 45, 78 RPM) automatically. Size: 15x15x9". Shpg. Wgt. 48 lbs. Net \$ 141.61

In addition to regular voice coil outputs, all Masco amplifiers now include 70 volt tap (constant voltage) for easy matching of speakers.

MASCO MUSICAL INSTRUMENT AMPLIFIERS

MODEL MU-5. Versatile instrument for use by musicians, singers, lecturers and all other entertainment applications. The 3-channel input permits mixing of singing with dance band or other music. Inputs for two musical instruments and one microphone. 5 watts output with less than 5% harmonic distortion. Controls: 1 volume, 1 tone, 8" speaker. Control panel mounted on top of case. Attractive two-tone brown and tan carrying case. Tubes: 1-6SL7GT, 1-6V6GT, 1-6X5GT. Frequency response ± 2 DB 100-8000 cy. Size: 11 1/2 x 8 1/2 x 13 1/2". For 117 VAC. Shpg. Wgt. 15 lbs. Net \$ 39.69



MODEL MU-17. Deluxe model high power musical instrument amplifier with four inputs, one for microphone and three for musical instruments. Separate volume control for each input gives great versatility in mixing. Sufficient power output (17 watts normal, 25 watts peak) for any application. Heavy duty 12" speaker in attractive carrying case, covered in two-tone brown and tan fabricoid. Control panel on top of case. Indicating pilot light. Frequency response: ± 2 DB 50-12000 cy. Tubes used: 1-6J7, 2-12AX7, 2-6L6G, 1-5Y3GT. Case size: 15x8 1/2 x 16 1/2". For 117 VAC operation. Shpg. Wgt. 32 lb. Net \$ 82.03

TECH-MASTER Ultra linear

WILLIAMSON-Type Amplifier Kit

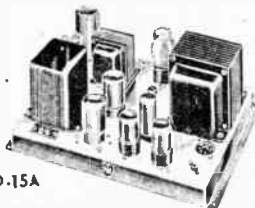
MODEL TMD-15A. Uses the famous Williamson circuit with unique modification for true high fidelity reproduction at increased power output. Utilizes specially wound Peerless Output Transformer. After few hours of easy assembly, builder will be repaid with finest listening quality. Less than .2% distortion at normal listening levels. Power output: 15 watts undistorted. Inputs: high impedance for crystal pickup, tuner, pre-amp, etc. Output impedances are 4, 8, and 16 ohms. (Tech-Master TMD-15P preamplifier is recommended as companion unit). Response at 5 watts 8-80000 CPS. ± 1 DB. 10 watts 12-56000 CPS. ± 1 DB. Tubes: 2-6SN7, 2-5891, 1-5V4G. Kit is furnished complete with all tubes, punched chassis, all components, full instructions. Size: 9x12x6 1/2". For operation on 105-125 VAC 50/60 cy. All major components are mounted in place on chassis and are ready to wire. Shpg. Wgt. 27 lbs.

MODEL TMD-15A

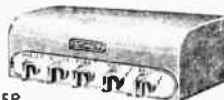
Net \$ 48.95

TECH-MASTER

HI-FI AMPLIFIER KITS



TMD-15A



TMD-15P

TECH-MASTER Four Channel

PRE-AMPLIFIER KIT

Input Selector—

Phono Pre-Amp—Tone Control

MODEL TMD-15P. Four channel preamplifier kit for the discriminating listener. Has all wanted features, four input channels, magnetic cartridge, crystal pickup, FM-AM-TV tuner, tape or wire recorder, etc. 3-position equalizer switch in high gain input circuit permits selection of turn-over and roll-off characteristics to match most types of recordings. Two independent, continuous controls provide full bass and treble boost and attenuation. Power is obtained from main amplifier. AC outlet on rear of chassis. Tube complement: 1-12AX7, 1-12AU7. Kit is furnished complete with all parts, tubes, punched chassis, cabinet, and detailed instructions. All major components are mounted in place on chassis and ready to wire. Size: 10 1/2 x 4 x 4". Shpg. Wgt. 4 lbs.

MODEL TMD-15P

Net \$ 19.55

"Your trade-in's worth more at the **WALTER ASHE STORE**"

17

8 WATT AMPLIFIER

PORTABLE SYSTEMS

MOBILE SYSTEMS



MODEL MA8N - OUTPUT, 8 watts. PEAK, 13 watts. INPUTS 2: 1 Mike, 1 Phono. FREQUENCY RESPONSE: ±2 DB 50 to 10,000 CPS. GAIN: Mike 128.5, Phono 75DB. CONTROLS: Mike, Phono, tone (with on/off sw.). TUBES: 4: 6SF5, 6SJ7, 6L6, 5Y3GT. OUTPUT IMPEDANCES: 3.2, 8, 500 ohms. VOLTAGE: 105-125 VAC, 60 CY. FINISH: Blue and gray hammertone. SIZE: 10"x6"x7 1/2" H. Complete with tubes, less cover. Shpg. Wgt. 14 lbs. Net Less Cover \$ 38.22 With Cover 43.28



MODEL MAS8N - Complete with MA8N amplifier and cover, 10" speaker, 25 ft. cable and plug, JT-30 Astatic mike in 2-piece carrying case (not illustrated). Shpg. Wgt. 30 lbs. Net \$ 77.91



MODEL MC126P-3. 3-speed (33-1/3, 45 & 78 RPM) Phono Top Mobile Amplifier with turnover cartridge. OUTPUT: 12 watts. PEAK: 18 watts. INPUTS 2: 1 Mike, 1 Phono. FREQUENCY RESPONSE: ±3 DB 100 to 8,000 CPS. GAIN: Mike 110 DB, Phono 75 DB. CONTROLS: Mike, phono, on/off/standby/operate (has battery saver switch). TUBES 5: 1-6SF5, 1-6SL7GT, 2-6V6GL1-724. OUTPUT IMPEDANCES: 3.2, 8, 15 ohms. POWER CONSUMPTION: 117V AC 60 watts, 6 V DC 8 amps. SIZE: 12x6x8"H. Shpg. Wgt. 15 lbs. 1 Net \$ 88.93



25 WATT

MODEL MA25N - OUTPUT, 25 watts. PEAK, 40 watts. 1 Phono and 3 separate mike inputs. FREQUENCY RESPONSE ±2 DB, 50 to 15,000 CPS. GAIN: Mike, 133.5 DB; Phono, 79 DB. CONTROLS: 6: 3 Mike, Phono, Bass, Treble. TUBES: 4-6J7 2-6SC7, 2-6L6G, 1-5V4G. OUTPUT IMPEDANCES: 4, 8, 15, 125, 250, 500 ohms. HUM LEVEL: 64 DB below rated output. Operates on 110V AC, 60 CPS, 145 watts. Size: 15x8 3/8 x 3/8"H. Shpg. Wgt. 30 lbs. Net \$ 85.26

MODEL MAS25N - Same as MA25N but includes Astatic JT-30 mike, with 12 ft. cord, two 12" speakers with 25 ft. cable each and carrying case. Shpg. Wgt. 60 lbs. Net \$ 141.12

MODEL MAS17N - Same as MA17N but includes Astatic JT-30 mike, two 10" speakers with 25 ft. cable each and carrying case. Shpg. Wgt. 45 lbs. Net \$ 124.07

MODEL MAS35N - Same as MA35N but includes Astatic JT-30 mike with 12 ft. cord, two 12" heavy duty speakers with 25 ft. cord each and carrying case. Shpg. Wgt. 63 lbs. Net \$ 175.66

25 WATT

PHONO TOP SYSTEM

Same as Model MAS25N with addition of 3-speed record player and all-purpose "Turnover" crystal cartridge. Ideal for indoor or outdoor use where it is necessary to have music. Shpg. Wgt. 61 lbs. MODEL MAS25PN-3. Net.....\$ 167.58



MODEL MC25PN-3. 3-speed (33-1/3, 45 & 78 RPM) Phono Top Player with turnover cartridge. OUTPUT: 25 watts. PEAK: 40 watts. 1 Phono and 3 separate Mike inputs. FREQUENCY RESPONSE: ±2 DB, 50 to 15,000 CPS. GAIN: Mike 133.5 DB, Phono 79 DB. CONTROLS: 6, 3 Mike, Phono, Bass, Treble. Separate Battery Saver Switch. TUBES: 4-6J7, 1-6SC7, 1-6SL7GT, 2-6L6G, 2-7Z4. OUTPUT IMPEDANCES: 4, 8, 15, 125, 250, 500 ohms. HUM LEVEL: 64 DB below rated output. Operates on 110V AC, 60 CPS, 145 watts. OR, DC 6V, 23 Amps. SIZE: 14x11x 8 3/8"H. Tubes included. Shpg. Wgt. 44 lbs. Net \$ 145.50

PHONO-TOP MODEL



Same specifications as Model MA25N with addition of 3-speed record player and all-purpose "Turnover" crystal cartridge. Ideal for indoor or outdoor use where it is necessary to have music. Shpg. Wgt. 32 lbs. MODEL MA25PN-3. Net.....\$ 107.31



MODEL MAC25PN-3. Same as MC25PN-3 (3-speed player and turnover cartridge) but includes Astatic JT30 Mike with 12 ft. cord, two 12" speakers with 25 ft. cord each, and portable carrying case which holds speakers and amplifier. Shpg. Wgt. 72 lbs. Net \$ 202.86

17 WATT

MODEL MA17N - OUTPUT, 17 watts. PEAK, 26 watts. 1 Phono and 2 Mike inputs. FREQUENCY RESPONSE: ±2 DB, 50 to 12,000 CPS. GAIN: Microphone, 132 DB; Phono, 78 DB. CONTROLS: 5 - 2 Mike, Phono, Bass, Treble. TUBES: 1-6SC7, 1-6SJ7, 1-6SL7GT, 2-6L6G, 1-5V4G. OUTPUT IMPEDANCES: 4, 8, 15, 125, 250, 500 ohms. HUM LEVEL: 62 DB below rated output. Operates on 110V, 60 CPS, 125W. Size: 13x8x8 3/8". Shpg. Wgt. 20 lbs. Tubes included. Net \$ 68.21

35 WATT

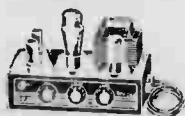
MODEL MA35N - OUTPUT, 35 watts. PEAK, 50 watts. 1 Phono and 3 separate mike inputs. FREQUENCY RESPONSE ±2 DB, 50 to 15,000 CPS. GAIN: Mike, 135 DB; Phono, 80.5 DB. CONTROLS 6, 3 Mike, Phono, Bass, Treble. TUBES: 3-6J7, 1-6SC7, 3-6SN7GT, 2-6L6G, 1-5U4G, 1-6X5GT. OUTPUT IMPEDANCES: 4, 8, 15, 125, 250, 500 ohms. HUM LEVEL: 65 DB below rated output. Operates on 110V AC, 60 CPS, 190 watts. Size: 15x9 1/2 x 8 3/8"H. Including tubes. Shpg. Wgt. 32 lbs. Net \$ 105.34

75 WATT

MODEL MA77 - OUTPUT, 75 watts. PEAK, 90 watts. Has one phono and four mike inputs, separate bass and treble controls. Separate volume controls for each input. Voice coil, line and constant voltage output taps are provided. FREQUENCY RESPONSE ±2 DB, 50 to 15,000 CPS. GAIN: Mike 136.5 DB, phono 82 DB. OUTPUT IMPEDANCES: 4, 8, 15, 125, 250 ohms. Size: 17x11x9. Tubes included. Shpg. Wgt. 45 lbs. Net \$ 164.64

In addition to regular voice coil outputs, all Masco amplifiers now include 70 volt tap (constant voltage) for easy matching of speakers.

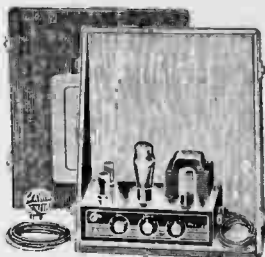
AMPLIFIERS



MODEL MES. 8 watts of undistorted output. Separate inputs and controls for mike and phono. Variable tone control. Frequency response, 50-10,000 CPS. Output impedances, 3, 2, 8 ohms. Uses 4 tubes, 1-6SJ7, 1-6SF5, 1-6L6G, 1-5Y3GT. Operates from 117 VAC, 60 cy., 63 watts. Size: 10x5 1/2 x 4 1/2". Complete with tubes. Shpg. Wgt. 14 lbs. Net \$ 32.93



PORTABLE SYSTEMS

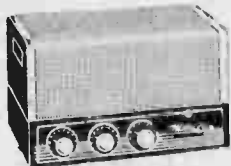


MODEL MES8 PORTABLE SYSTEM. Same amplifier as MES but includes carrying case with 10" PM speaker, 25 ft. cable and plug. Astatic JT30 mike with cable and connectors. Shpg. Wt. 24 lb. Net \$ 59.39

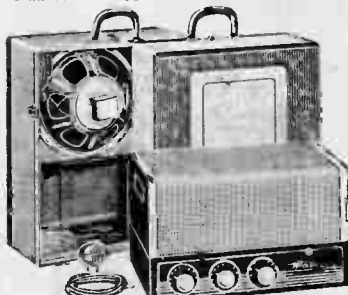
PHONO TOP



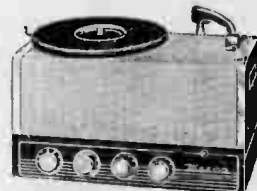
MODEL ME18P3 18 WATTS. Same amplifier as Model ME18 with addition of 3-speed phono top record player and turnover crystal cartridge. Shpg. Wgt. 26 lbs. Net \$ 66.15



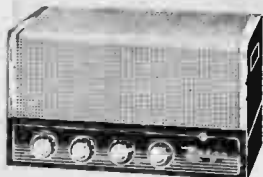
MODEL ME18. POWER OUTPUT 18 watts, PEAK 24 watts. INPUTS 2, mike and phono, individually controlled. Variable tone control. GAIN, Mike 118 DB; Phono 74 DB. FREQUENCY RESPONSE 50-15,000 CPS. OUTPUT tapped 2-4-8-15-500 ohms. TUBES, 1-6SJ7, 1-6SC7, 2-6L6G, 1-5Y3GT. SIZE 12x6 1/2 x 7. Complete with cover and tubes. Operates on 117 VAC, 60 cy., 93 watts. Shpg. Wgt. 17 lbs. Net \$ 45.57



MODEL ME18. 18 WATTS. Same amplifier as ME18 with addition of Astatic JT30 Mike with 12 ft. cable and plug, 2 12" PM speakers, housed in portable carrying case, 2-25 ft. speaker cables and plugs. Shpg. Wgt. 38 lbs. Net \$ 89.67



MODEL ME27P3. 27 watts. Same amplifier as Model ME27 with addition of 3-speed phono top record player and turnover crystal cartridge. Shpg. Wgt. 39 lbs. Net \$ 77.17



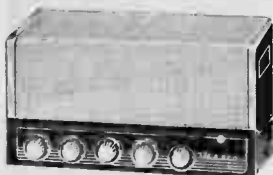
MODEL ME27. POWER OUTPUT 27 watts, PEAK 38 watts. INPUTS 3, 2 Mike and 1 Phono, individually controlled. Variable tone control. GAIN, Mikes 125 DB; Phono 78 DB. FREQUENCY RESPONSE, 50-15,000 CPS. OUTPUT, tapped 2-4-8-15-500 ohms. TUBES 6, 1-6SJ7, 2-6SC7, 2-6L6G, 1-5V4G. SIZE, 15x8x8. Operates on 117 VAC, 60 cy., 100 watts. Complete with cover and tubes. Shpg. Wgt. 30 lbs. Net \$ 56.59

MODEL ME27. 27 WATTS. Same amplifier as ME27 with addition of Astatic JT30 Mike with cable and plug, 2-12" PM speakers with 25 ft. cables and plugs, housed in portable carrying case. Shpg. Wgt. 54 lbs. Net \$ 103.63



MODEL ME27P3. Operates from 6 VDC, 25 A. or 117 VAC 60 cy. "Battery-Saver" switch keeps filaments lit. "B" supply readily available at flick of switch. Heavy duty vibrator. 3-speed phono top with all-purpose turnover cartridge, plays 33-1/3, 45, and 78 RPM records. Power output 27 watts, peak 40 on AC or DC. Inputs 3: 2 mike and 1 phono, individually controlled. Variable tone control. Tubes 6: 2-6SC7, 1-6SJ7, 2-6L6G, 1-5V4G. Size: 12x11x8". Shpg. Wgt. 40 lbs. Net \$111.72

MODEL ME36. 36 WATTS. Same amplifier as ME36 with addition of Astatic JT30 Mike with cable and plug, 2-12" PM speakers, with 25 ft. cables and plugs, housed in portable carrying case. Shpg. Wgt. 58 lbs. Net \$ 120.54

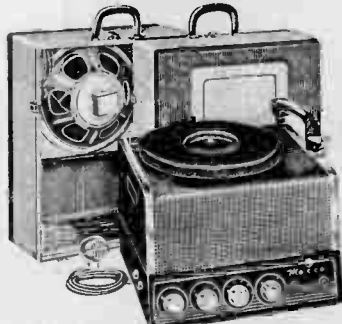


MODEL ME36. POWER OUTPUT 36 watts, PEAK 45 watts. INPUTS 3, 2 Mike and 1 Phono, individually controlled. TONE CONTROLS, 1 bass, 1 treble. GAIN, Mike 125 DB. Phono 78 DB. FREQUENCY RESPONSE, 50-10,000 CPS. OUTPUT, tapped 2-4-8-15-500 ohms. TUBES 7, 2-6SJ7, 1-6SC7, 1-6SN7GT, 2-6L6G, 1-5U4G. SIZE, 15x8x8. Operates on 117 VAC, 60 cy., 130 watts. Shpg. 30 lbs. Net \$ 73.50



MODEL ME36P3 Same system as Model ME18 with addition of 3-speed phono top which plays 33-1/3, 45 & 78 RPM records with all purpose turnover cartridge. Shpg. Wgt. 47 lbs. Net \$ 110.25

PORTABLE



MODEL ME27P3 Same as Model ME27P3 plus Astatic JT30 mike, cable and connectors. 2-12" PM spkrs. with 25-ft. cable and plugs in portable carrying case. Size 15x18x23. Shpg. Wgt. 62 lbs. Net \$ 158.76

MODEL ME27P3. Same as Model ME27 with addition of 3-speed phono top which plays 33-1/3, 45, and 78 RPM records with all-purpose turnover cartridge. Shpg. Wgt. 64 lbs. Net \$ 124.21

In addition to regular voice coil outputs, all Masco amplifiers now include 70 volt tap (constant voltage) for easy matching of speakers.

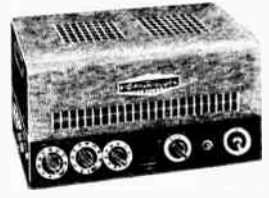
"Your trade-in's worth more at the WALTER ASHE STORE" 19



8 WATT AMPLIFIER. Separate controls for mike, phono, tone. Input for one crystal mike, one phono. **FREQUENCY RESPONSE:** 80-12,000 cycles. **Selec-Tone** tone control. **OUTPUT IMPEDANCE:** 4-8-16 ohms. **TUBES:** 1-6AV6, 1-6SJ7, 1-6L6GA, 1-5Y3GT. Size: (with cage) 11x7x7"H. Operates on 117 VAC. Less cage. U.L. approved. Shpg. Wgt. 10 lbs.
MODEL CH-8. With tubes. Net.....\$ 32.70
CAG-8 CAGE for Model CH-8..... 3.45



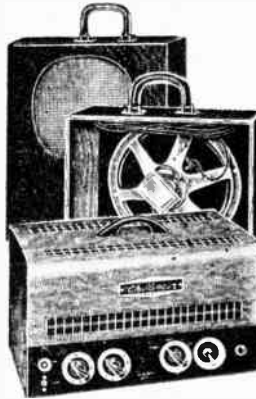
18 WATT AMPLIFIER. One mike input, one phono input. 4-position tone control. **FREQUENCY RESPONSE:** 50-12,000 cycles. **OUTPUT IMPEDANCE:** 4-8-15 ohms, 70 volts. **TUBES:** 2-6SF5, 1-6SL7GT, 2-6V6GT, 1-5Y3GT. Size: 14x8x8"H. Operates on 117 VAC. U.L. approved. Complete with tubes. Fused circuit. Shpg. Wgt. 20 lb.
MODEL CH-18. Net.....\$ 48.90



30 WATT AMPLIFIER. Has input for two mikes, one phono. 4-position tone control. **FREQUENCY RESPONSE:** 40-10,000 cycles. **OUTPUT IMPEDANCE:** 4-8-15 ohms, 70 volts brought out to terminal strip and two speaker sockets. Inverse feedback circuit. Extractor type fuse. **TUBES:** 2-6SC7, 1-6SL7GT, 2-6L6G, 1-5U4G. Operates on 117 VAC. Size: 15x10x8"H. U.L. approved. With tubes and cage. Shpg. Wgt. 27 lbs.
MODEL CH-30. Net.....\$ 58.05



PORTABLE SYSTEM. Consists of CH-8 amplifier with tubes, carrying case with one 8" speaker mounted, mike with stand adapter, cable and plug. Shpg. Wgt. 28 lbs.
MODEL CH-8S1. Net.....\$ 55.56



PORTABLE SYSTEM. Consists of CH-18 amplifier with tubes, two-piece portable carrying case with two 12" Alnico V speakers with 25-ft. cables, plus mike with stand adapter, cable and plug. Shpg. Wgt. 50 lbs.
MODEL CH-18P1. Net.....\$ 94.50



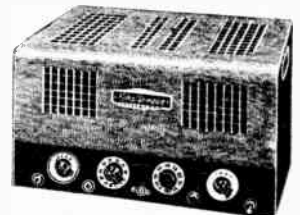
30 WATT PORTABLE SYSTEM. Consists of Model CH-30 amplifier, two 12" Alnico V speakers with 25-ft. cables, mounted in two-piece carrying case, crystal mike with stand adapter, cable and plug. Shpg. Wgt. 56 lbs.
MODEL CH-30P1. Net.....\$ 103.08



PORTABLE SYSTEM. Consists of CH-8 amplifier with tubes, two-piece carrying case with two 10" speakers with 25-ft. cables, mike with stand adapter, cable and plug. Shpg. Wgt. 36 lbs.
MODEL CH-8P1. Net.....\$ 75.75



18 WATT UNIVERSAL MOBILE SYSTEM. Operates on either 6 volts DC or 117 volts AC. Phono top has 3-speed motor for playing 78, 45, 33 1/2 RPM records, turnover crystal cartridge. Input for mike. 4-position tone control. Standby switch. **FREQUENCY RESPONSE:** 50-12,000 cycles. **OUTPUT IMPEDANCE:** 4-8-15 ohms and 70 volts, brought out to terminal strip and two speaker sockets. **TUBES:** 2-6SF5, 1-7Z4, 1-6SL7GT, 2-6V6GT. Size: 15x10x10"H. U/L approved. Complete with tubes. Shpg. Wgt. 50 lbs.
MODEL CH-618Y. Net.....\$ 98.25



60 WATT POWER AMPLIFIER. For all high power requirements in shipyards, industrial plants, stadia, etc. Inputs for two mikes with individual controls. Input for phono with volume control. 4-position tone control. **FREQUENCY RESPONSE:** 40-12,000 cycles. **OUTPUT IMPEDANCE:** 4-8-15 ohms, 70 and 140 volts, constant voltage output for ease of speaker matching. Terminal strip and two speaker sockets for connection of speaker lines. Has extractor type fuse. Off-On pilot lamp indicator. **TUBES:** 2-6SF5, 1-6SL7GT, 1-6V6GT, 2-807, 1-5Y3GT, 1-5R4GY. Operates on 117 VAC. Size: 17x11 1/2x9 1/4"H. With tubes and cage. U/L approved. Shpg. Wgt. 43 lbs.
MODEL CH-60. Net.....\$ 93.60

BOGEN SCHOOL SYSTEMS

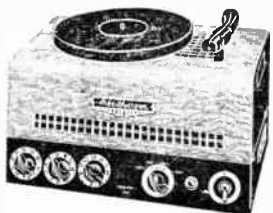
Walter Ashe Radio Company is distributor for Bogen School Systems. A complete engineering service is maintained to assist you in planning and specifying the correct sound equipment for any size installation. Write us your requirements.

20 NEED NEW TEST EQUIPMENT? - We'll Trade In Your Old Units!

BOGEN CHALLENGER AMPLIFIERS



30 WATT PORTABLE SYSTEM. With 3-speed photo top and turnover crystal cartridge. Consists of all features of Model CH-30P1 with addition of record player. Shpg. Wgt. 59 lbs.
MODEL CH-30YP1. Net.....\$ 122.88



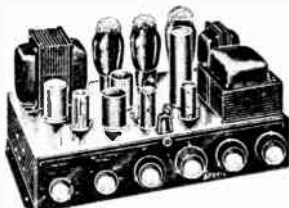
30 WATT AMPLIFIER. Incorporates 3-speed record player and crystal turnover cartridge which plays all speeds and types of records, 78, 45, 33 $\frac{1}{2}$ RPM. All other specifications identical to Model CH-90 but is 10" high. With tubes and cage. Shpg. Wgt. 30 lbs.
MODEL CH-30Y. Net.....\$ 77.55



MODEL
CD6

6 WATT MOBILE AMPLIFIER. For use in emergency cars, mobile PA, bus and trolley announcing systems, etc. Four alternate mounting positions. May be serviced without removing from dashboard. Standby switch. Fused DC power cable. Input for one mike. Output 4-8-15 ohms. Uses 2-5SF5, 1-6L6GA, 1-6X5GT. Size: 3 $\frac{1}{4}$ x8x7". Operates from 6-volt storage battery. Shpg. Wgt. 8 lbs.
MODEL CD. 6. With tubes. Net.....\$ 37.35

THE GREAT *Bogen* DB-20 AMPLIFIER



20 WATT TRUE HIGH FIDELITY AMPLIFIER. Only 0.3% distortion at full power output, peak wattage 30 watts. Rated as one of the best amplifiers obtainable by one of the country's leading research organizations. **FREQUENCY RESPONSE:** 20-20,000 cycles \pm 0.7 DB. **INPUTS:** Magnetic cartridge, crystal cartridge, tuner, TV, tape recorder. Seven different equalization curves available when using magnetic cartridge. **HUM:** -75 DB. Has standard volume control and also Loudness Contour Selector which permits properly compensated response for any listening level. Separate bass and treble tone controls with boost and attenuation. **DAMPING FACTOR:** 13. **OUTPUT IMPEDANCE:** 8 and 16 ohms. **TUBES:** 3-12AT7, 1-12AU7, 2-6L6G, 1-5U4G. Operates on 117 VAC, 150 watts. Size: 15Wx9 $\frac{1}{2}$ Dx8"H. U/L approved. Shpg. Wgt. 30 lbs.

MODEL DB-20. With tubes. Net.....\$ 99.00

"WITH VARIABLE DAMPING FACTOR". Famous Model DB-20 with additional feature, Variable Damping Factor. Has complete range of damping which allows the speaker and cabinet resonance to be effectively "tuned out". Most non-linear characteristics of speaker and enclosure which cause distortion are drastically reduced. Shpg. Wgt. 30 lbs.

MODEL DB-20-DF. Net.....\$ 108.00

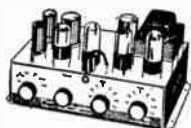
MASCO

Four-Channel Microphone Mixer



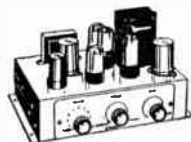
Four independent gain controls, four mike inputs. One output connector and 4-ft. cable. Used to convert one mike input to four channel operation. Shpg. Wgt. 3 $\frac{1}{2}$ lbs.
MODEL Mm. 4. Net.....\$ 12.49

10 WATT HIGH FIDELITY AMPLIFIER



Acclaimed by audio experts and users. Has built-in shock mounted preamplifier for G.E., Pickering, and similar magnetic pickups, input for crystal pickup, tuner or other. **FREQUENCY RESPONSE:** 30-18,000 cycles \pm 1 DB. **HUM:** -68 DB. **POWER OUTPUT:** 10 watts at 3% distortion, peak power 15 watts. Built-in 3-position record equalizer for "LP", "78", and worn records. Has separate bass and treble controls with boost and attenuation. **OUTPUT IMPEDANCES:** 4-8-16 ohms. **TUBES:** 1-6SC7, 1-6SL7, 2-6V6GT, 1-5Y3GT. Operates on 117 VAC, 70 watts. Size: 6x11x7"D. U/L approved. Shpg. Wgt. 15 lbs.
MODEL DB-10A. Net.....\$ 54.45

8 WATT HIGH FIDELITY AMPLIFIER



Quality performance for the low budget audiophile. Removable front panel adapts unit for open shelf or custom cabinet installations. **FREQUENCY RESPONSE:** Within 1 DB from 30-20,000 cycles. **POWER OUTPUT:** 8 watts at 1% harmonic distortion, 0.25% distortion at 1 watt listening level. **HUM:** -60 DB. **OUTPUT IMPEDANCE:** 4-8-16 ohms. **INPUTS:** Low level magnetic cartridge, crystal cartridge, radio tuner, or TV set. Built-in preamplifier for magnetic cartridge. Separate bass and treble controls. **TUBES:** 1-6SC7, 2-6V6GT, 1-6SL7GT, 1-6X5GT. Size: 8 $\frac{1}{2}$ x11x6"H. Operates on 117 VAC. Shpg. Wgt. 10 lbs.
MODEL HF-8. With tubes. Net.....\$ 35.95

10 WATT HIGH FIDELITY AMPLIFIER



Praised by independent consumer research organizations and audiophiles alike. Excellent companion amplifier for R-640G and AM-901 tuners. 4-position tone control. 3-position function selector switch permits use of Phono (high impedance input), Tuner, Auxiliary which may be used for tape recorder, additional phono, etc. Inverse feedback circuit. **POWER OUTPUT:** 10 watts at 5% distortion, peak power 14 watts. **FREQUENCY RESPONSE:** 40-15,000 \pm 1 DB. **HUM:** -80 DB. **OUTPUT IMPEDANCE:** 3.2 and 8 ohms. **TUBES:** 1-6SL7GT, 2-6V6GT, 1-5Y3GT. Operates on 117 VAC, 60 watts. Size: 5x11x6"H. Shpg. Wt. 10 lb.
MODEL PH-10-1. With tubes. Net \$ 35.50

"Your trade-in's worth more at the **WALTER ASHE STORE**" 21



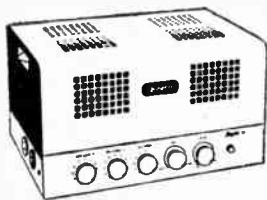
J-15 J-30

15 WATT POWER AMPLIFIER. Two high impedance mike inputs, one phono. (See listing of low impedance input transformers.) **POWER OUTPUT:** 15 watts at less than 3% harmonic distortion. Peak power 25 watts. **FREQUENCY RESPONSE:** $\pm 1\frac{1}{2}$ DB from 30-12,000 cycles. **HUM:** -70 DB. **OUTPUT IMPEDANCE:** 4-8-16 ohms and 70 volts (325 ohms) available at terminal strip and two speaker sockets. **TUBES:** 3-6SF5, 1-6SL7GT, 2-6L6G, 1-5Y3G. Oriental green case, buff control panel, bronze knobs. Size: $15\frac{1}{2} \times 7\frac{3}{4} \times 10\frac{3}{4}$ "D. Operates on 117 VAC 50/60 cycles, 95 watts. U/L approved. With tubes. Shpg. Wgt. 26 lbs.

MODEL J-15. Net.....\$ 68.40

30 WATT POWER AMPLIFIER. Two high impedance mike inputs, one phono. (See listing of low impedance input transformers.) **POWER OUTPUT:** 30 watts at less than 5% harmonic distortion, peak power 40 watts. **FREQUENCY RESPONSE:** $\pm 2\frac{1}{2}$ DB from 20-12,000 cycles. Separate bass and treble tone controls. **HUM:** -68 DB. **OUTPUT IMPEDANCE:** 4-8-16-500 ohms and 70 volts (164 ohms) available at terminal strip and two speaker sockets. **TUBES:** 3-6SF5, 1-6SL7GT, 2-6L6G, 1-5U4G. Oriental green case, buff control panel, bronze knobs. Size: $15\frac{1}{2} \times 7\frac{3}{4} \times 10\frac{3}{4}$ "D. Operates on 117 VAC 50/60 cycles, 140 watts. U/L approved. With tubes. Shpg. Wgt. 30 lbs.

MODEL J-30. Net.....\$ 79.65
Also available for 19" rack panel mounting at extra cost.



50 WATT POWER AMPLIFIER. Less than 3% harmonic distortion. Peak power 90 watts. **FREQUENCY RESPONSE:** ± 2 DB from 30-20,000 cycles. **INPUTS:** 2 high impedance mike, 1 phono. (See listing of low impedance transformers.) **HUM:** -74 DB. **OUTPUT IMPEDANCE:** 4-8-16 ohms, 70 and 140 volts (100 and 400 ohms) available at terminal strip and two speaker sockets. **TUBES:** 3-6SF5, 1-6SL7GT, 1-6SN7GT, 2-807, 1-5Y3GT, 1-5R4GY. Size: $17 \times 9\frac{1}{4} \times 12\frac{1}{2}$ "D. Silver grey cage, green control panel, bronze knobs. Operates on 117 VAC 50/60 cycles, 210 watts. U/L approved. With tubes. Shpg. Wgt. 43 lbs.

MODEL J-50. Net.....\$ 117.90
Also available for 19" rack panel mounting at extra cost.



J-15Y J-30Y

15 WATT AMPLIFIER. With 3-speed phono and turnover crystal cartridge. Other specifications identical to Model J-15 except size which is $15\frac{1}{2} \times 9 \times 10\frac{3}{4}$ "D. U/L approved. With tubes. Shpg. Wgt. 31 lbs.

MODEL J-15Y. Net.....\$ 87.90

30 WATT AMPLIFIER. With 3-speed phono and turnover crystal cartridge. Other specifications identical to Model J-30 except size which is $15\frac{1}{2} \times 9 \times 10\frac{3}{4}$ "D. U/L approved. With tubes. Shpg. Wgt. 35 lbs.

MODEL J-30Y. Net.....\$ 99.15

PORTABLE SYSTEMS



J-15P J-30P

15 WATT PORTABLE SYSTEM. Consists of Model J-15 amplifier, Shure 710 crystal mike with stand adapter and 5-ft. cable and plug, two Jensen P125 speakers with 25-ft. cables, mounted in carrying case. Size: $21\frac{1}{2} \times 16\frac{1}{2} \times 13$ "D. Shpg. Wgt. 60 lbs.

MODEL J-15P. Complete. Net.....\$ 117.48

30 WATT PORTABLE SYSTEM. Consists of Model J-30 amplifier, Shure 710 crystal mike with stand adapter and 5-ft. cable and plug, two Jensen P125 speakers with 25-ft. cables, mounted in carrying case. Size: $21\frac{1}{2} \times 16\frac{1}{2} \times 13$ "D. Shpg. Wgt. 64 lbs.

MODEL J-30P. Complete. Net.....\$ 129.66



J-15Y J-30Y

15 WATT PORTABLE SYSTEM. With 3-speed record player with turnover crystal cartridge. Other specifications same as Model J-15P. Shpg. Wgt. 65 lbs.

MODEL J-15YP. Complete. Net...\$ 136.98

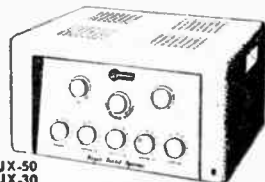
30 WATT PORTABLE SYSTEM. With 3-speed record player with turnover crystal cartridge. Other specifications same as Model J-30P. Shpg. Wgt. 69 lbs.

MODEL J-30YP. Complete. Net....\$ 149.16



23 WATT MOBILE AMPLIFIER. For operation on 117 volts AC or 6 volts DC. Ruggedly constructed to withstand the hard use encountered in sound truck or rental purpose. Has 3-speed phono tone enabling use of all types of records. Turnover crystal cartridge plays 78, 45, 33 $\frac{1}{2}$ RPM records. Peak power 30 watts. 6-position tone control. Input for high impedance mike. **FREQUENCY RESPONSE:** 30-14,000 cycles. **OUTPUT IMPEDANCE:** 4-8-16 ohms and 70 volts available at terminal strip and two speaker sockets. **POWER CONSUMPTION:** AC, 117 volts 115 watts; DC, 6 volts 14 amperes. U/L approved. **TUBES:** 2-6SF5, 1-6SL7GT, 2-6L6G, 1-7Z4. Dimensions (with phono): $15\frac{1}{2} \times 10\frac{1}{4} \times 10\frac{3}{4}$ "D. Shpg. Wgt. 35 lbs.

MODEL H. 623Y. Net.....\$ 117.60



JX-50 JX-30

HIGH FIDELITY PUBLIC ADDRESS AMPLIFIER. With ANTI-FEEDBACK control which permits "tuning out" of objectionable acoustic feedback in sound system without affecting tone quality or output power. Full 50 watts output at less than 3% harmonic distortion, peak power 90 watts. **FREQUENCY RESPONSE:** ± 2 DB from 20-20,000 cycles. Separate bass and treble tone controls with attenuation. **INPUTS:** 5: 4 high impedance mike, 1 phono (See listing of low impedance transformers). **HUM:** -65 DB. **OUTPUT IMPEDANCE:** 4-8-16 ohms, 70 and 140 volts (100 and 400 ohms), available at terminal strip and two speaker sockets. **TUBES:** 5-6SF5, 2-6SC7, 2-807, 1-6SL7GT, 1-6SN7GT, 1-5Y3GT, 1-5R4GY. Case finished in Oriental green, size $17 \times 9 \times 14$ "D. Buff control panel, buff knobs. Operates on 117 VAC 50/60 cycles, 240 watts. U/L approved. Shpg. Wgt. 47 lbs.

MODEL JX-50. With tubes. Net...\$ 167.70

30 WATT HIGH FIDELITY AMPLIFIER. Similar to Model JX-50. Full output at less than 2% harmonic distortion. Peak power 40 watts. **FREQUENCY RESPONSE:** $\pm 1\frac{1}{2}$ DB from 20-15,000 cycles. Incorporates ANTI-FEEDBACK feature. **INPUTS:** 5: 4 high impedance mike, 1 phono (See listing of low impedance transformers). **OUTPUT IMPEDANCE:** 4-8-16-500 ohms and 70 volts (167 ohms), available at terminal strip and two speaker sockets. Separate bass and treble controls with attenuation. **TUBES:** 5-6SF5, 2-6SC7, 1-6SL7GT, 2-6L6G, 1-5U4G. Oriental green case, buff control panel, bronze knobs. Size: $17 \times 9 \times 14$ "D. Operates on 117 VAC 50/60 cycles, 140 watts. U/L approved. Shpg. Wgt. 40 lbs.

MODEL JX-30. With tubes. Net....\$ 131.70

JX-50 and JX-30 available for 19" panel mounting at extra cost.

22 **READY FOR A NEW RECEIVER? - We'll Trade In Your Old One!**

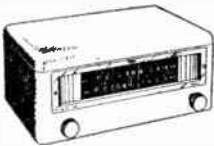


6 WATT UNIVERSAL MOBILE AMPLIFIER. Far use on 6 volt battery or an 117 VAC source. Far use in emergency cars, mobile PA, bus and trolley announcing systems, etc. Mounts easily under dashboard and can be serviced without removing amplifier. Inputs for crystal or other high impedance mike and phono. Peak power 8 watts. **FREQUENCY RESPONSE:** ± 2 DB from 60-9,000 cycles. **OUTPUT IMPEDANCE:** 4-8-16 ohms at speaker socket. **POWER CONSUMPTION:** AC, 117 VAC 50 watts; DC, 6 volts 7 amperes. Standby switch reduces current drain. Size: $6\frac{1}{2} \times 6\frac{1}{2} \times 9\frac{1}{2}$ "D. **TUBES:** 1-6SJ7, 1-6SL7GT, 1-6L6GA, 1-6X5GT. Shpg. Wgt. 15 lbs.

MODEL E-66. Net.....\$ 46.65

DAVID BOGEN

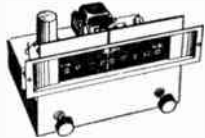
HIGH FIDELITY TUNERS



FM-AM TUNER. Covers bands of 88-108 MC and 530-1650 KC. High sensitivity (5 microvolts), high selectivity, full fidelity. FM response 50-15,000 CPS. AFC control prevents drift. Connects to your present amplifier. Only two controls on tuner, tuning and FM-AM switch. FM-AM audio output 1 volt, high impedance. Loop antenna furnished. **TUBES:** 1-6BC6, 1-6AB4, 2-6BA6, 2-6AU6, 1-6AL5, 1-6BE6, 1-6X4, 1-12AT7. Operates on 117 VAC, 50 watts. Size: $10 \times 7 \times 11\frac{1}{2}$ "D. Shpg. Wgt. 14 lbs.

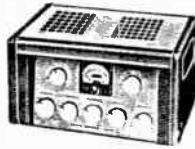
MODEL R-640G. In case. Net.....\$ 112.95

MODEL R-640. Less case..... 105.50



AM TUNER. For high fidelity installations. Covers range 530-1650 KC. Only two controls on tuner, station control and function selector switch. Designed to be used with amplifier of your choice which incorporates its own tone controls, gain control and preamplifier. **RESPONSE:** 50-7500 cycles, audio output 1 volt. Sensitivity is 5 microvolts. Loop antenna furnished. 10 KC whistle filter to eliminate inter-station interference. **TUBES:** 2-6BA6, 1-6BE6, 1-12AT7, 1-6X4. Operates on 117 VAC. Size: $10 \times 7 \times 7$ "H. Hardware furnished. Shpg. Wgt. 12 lbs.

MODEL AM-901-1. Net.....\$ 69.30



BROADCAST QUALITY PREAMPLIFIER. With five inputs. For theatres, recording companies, large P.A. systems, etc. Four high impedance mike inputs (may be converted to low impedance input by means of plug-in transformers T-155, T-156, T-157). One phono input. Broadcast type mike connectors. Has Master Gain control and individual control for each input. Bass-Treble tone corrector. **HUM:** -65 DB. **FREQUENCY RESPONSE:** ± 2 DB from 20-15,000 cy. **OUTPUT IMPEDANCE:** 8 volts at less than 1% distortion into 10,000 ohms. **TUBES:** 5-6SF5, 1-6SN7GT, 1-6X5GT. Operates on 117 VAC 50/60 cycles 27 watts. Size $15\frac{1}{2} \times 8 \times 11$ "D. Shpg. Wgt. 17 lbs.

MODEL JOH. Net.....\$ 79.65

Also available in low impedance output (500 ohms) and for 19" rack panel mounting at extra cost.

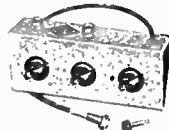


PORTABLE MUSIC-INSTRUMENT AMPLIFIER. For guitars, violins, etc. Provides full range reproduction with dynamic realism. Sufficient output for most auditoriums. 20 watts normal output, 35 watts peak. Attractive, sturdy case covered in blue leatherette. Has three high impedance inputs for musical instruments and one high impedance input for mike. 12" Alnico V PM speaker. Tone control. Operates on 117 VAC 50/60 cycles, 120 watts. Size $15\frac{1}{2} \times 19 \times 8\frac{1}{2}$ ". Carrying weight 24 lbs. Shpg. Wgt. 30 lbs.

MODEL GA-20. Net.....\$ 85.35

HAMILTON ELECTRONICS

**MX-3
MIKE
MIXER**



Mixer unit for adding input channels to any high impedance amplifier. Permits 3 input devices such as mikes, tuners, phono, recorders, etc. to be fed into amplifier. Separate gain control for each input allows perfect mixing. Complete with 33" lead and connectors, Grey hammerloid finish, size $1\frac{1}{2} \times 3 \times 8$ ". Shpg. Wgt. $1\frac{1}{2}$ lbs.

MODEL MX-3. Net.....\$ 8.82



HE-10



HE-10P

10 WATT AMPLIFIER. One high impedance mike input, one phono input. Peak power 15 watts. 6-position Multi-Range Tone Corrector. **FREQUENCY RESPONSE:** $\pm 1\frac{1}{2}$ DB from 60-10,000 cycles. **OUTPUT IMPEDANCE:** 4-8-16-500 ohms (500 ohm tap is equal to a 70-volt constant voltage tap). Two speaker sockets with impedance selector at output. **TUBES:** 1-6SJ7, 1-6SL7, 2-6V6, 1-5Y3GT. Grey cage, green panel, size $11 \times 7\frac{1}{2} \times 7$ "D. Operates on 117 VAC 50/60 cycles, 70 watts. U/L approved. Shpg. Wgt. 15 lbs.

MODEL HE-10. With tubes. Net.....\$ 42.75

10 WATT PORTABLE SYSTEM. Consists of Model HE-10 amplifier with tubes, Shure 710 crystal mike with 5-ft. cord, plug end stand adapter, two Jensen P10S speakers mounted in portable baffles which serve as carrying case for complete system. Size $9\frac{1}{2} \times 12\frac{1}{2} \times 17\frac{1}{2}$ "H. Shpg. Wgt. 39 lbs.

MODEL HE-10P. Complete. Net....\$ 85.80

DAVID BOGEN

HIGH POWER BOOSTER AMPLIFIERS



For use in industrial plants, airports, shipyards, stadia, etc. Ideal for use with type JOH preamplifiers. U/L approved.

125 WATTS at 3%, peak power 140 watts. **FREQUENCY RESPONSE:** (at 1 watt level) ± 1 DB from 20-20,000 cycles. **OUTPUT IMPEDANCES:** 90 ohms and two constant voltage taps, 70 and 140 volts. Unit operates on 117 VAC 50/60 cycles, 325 watts. Size $17 \times 9\frac{1}{2} \times 12\frac{1}{2}$ "D. Shpg. Wgt. 59 lbs.

MODEL HO-125. High imp. Net....\$ 129.45

MODEL HOL-125. Low imp-500 ohm. 139.95

50 WATTS. Similar to Model HO-125. Shpg. Wgt. 45 lbs.

MODEL HO-50. High imp. Net.....\$ 100.50

MODEL HOL-50. Low imp-500 ohm. 114.25

30 WATTS. Similar to above. Shpg. Wgt. 30 lbs.

MODEL JO-30. High imp. Net.....\$ 65.25

MODEL JOL-30. Low imp-500 ohm... 75.75

LOW IMPEDANCE INPUT TRANSFORMERS

Series "J" and "JX" amplifiers are normally supplied with high impedance inputs. In order to convert to low impedance input, use one of the transformers listed below. Sockets to accommodate these transformers are mounted on chassis of amplifier. Shpg. Wgt. 1 lb.

MODEL T-155. 200 ohm plug-in. Net \$9.00

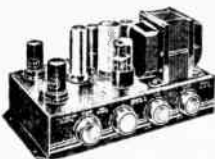
MODEL T-156. 500 ohm plug-in.....9.00

MODEL T-157. 50 ohm plug-in.....9.00

"Your trade-in's worth more at the WALTER ASHE STORE"

BELL Hi-Fidelity Amplifiers

Bell



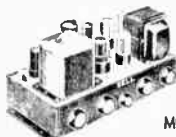
BELL MODEL 2122-C

Combines low price with many desirable features usually found in more costly equipment. **POWER OUTPUT:** 10 watts at 2% distortion, Peak Power 15 watts. **INPUTS:** 4: Radio Tuner, Auxiliary Tape, TV or Crystal Pickup, Two for Magnetic Pickups with built-in preamplifiers and individual equalization. **FREQUENCY RESPONSE:** 20-20,000 CPS $\pm\frac{1}{2}$ DB with controls set for flat. **TONE CONTROLS:** Separate bass and treble controls, flat center positions. **SELECTOR SWITCH:** With equalization; 5 positions, POP-LO NOISE, COL LP-AES-RCA, FFRR-EARLY 78, TUNER, AUX. **HUM LEVEL:** 65 DB below rated output. **OUTPUTS:** 4, 8, 16 ohms, high impedance jack for disc or tape recorders. Socket for Model 2201 Pilot Light Assembly. Complete with template, four 1 $\frac{1}{4}$ " extension shafts for console mounting. Two 117 VAC convenience outlets on rear of chassis for tuner, changer, etc. **TUBES:** 2-6SC7, 1-6SL7, 2-6V6GT, 1-5Y3GT. Operates on 117 VAC 50/60 cycle. **SIZE:** 11 $\frac{1}{2}$ x6x8"D. Net weight 10 $\frac{1}{2}$ lbs. Shpg. Wgt. 13 lbs.

MODEL 2122-C, Net.....\$ 52.87

ACCESSORY: Pilot lamp assembly complete with 5-ft. cord, plug, socket, lamp, and instructions, wired and ready for installation. Serves as indicator that amplifier (or system) is on. For use with Models 2122-C, 2199-B, and 2200-B.

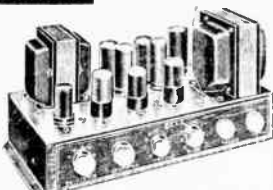
MODEL 2201, Net.....\$ 1.91



MODEL 2199-B

Contains all desirable features wanted by the high fidelity fan. **POWER OUTPUT:** 12 watts at $\frac{1}{2}$ % distortion, Peak Power 20 watts. **HUM LEVEL:** 70 DB below rated output. **FREQUENCY RESPONSE:** 20 to 20,000 CPS $\pm\frac{1}{2}$ DB with controls set for flat response. **INPUTS:** 6: Two for Magnetic Pickup, one Crystal Pickup, one Frequency Modulated or Ceramic Pickup, one Radio, one for Tape, Disc, or TV. **OUTPUT IMPEDANCES:** 4, 8, 16 ohms with auxiliary high impedance jack for tape or disc recorders. **CONTROLS:** 7-position equalization and selector switch; 78 RPM, COL-LP, RCA-AES-NARTB, FFRR, European, Radio, Tape; Continuously variable compensated loudness control; Gain control; Separate bass and treble controls. Motor rumble switch. Three AC convenience outlets on rear for tuner, changer, etc. Socket for 2201 Pilot Light Assembly. Removable etched panel and four 1 $\frac{1}{4}$ " extension shafts for console mounting. **TUBES:** 1-6SC7, 2-6SL7, 2-6V6GT, 1-5Y3GT. Operates on 117 VAC 50/60 cycle. **SIZE:** 13x8 $\frac{1}{2}$ x6 $\frac{1}{2}$ "H. Shpg. Wgt. 17 lbs.

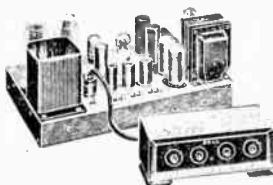
MODEL 2199-B, Net.....\$ 78.35



BELL MODEL 2200-C

Amplifier with truly remarkable features, 20 watts output at less than .3% distortion. Peak Power 35 watts. **FREQUENCY RESPONSE:** 20-20,000 cycles $\pm\frac{1}{2}$ DB with controls set for flat response. **HUM LEVEL:** 80 DB below rated output. **INPUTS:** 7: Radio, Crystal Pickup, Two Magnetic Pickups, TV, Tape Recorder, and Microphone. **CONTROLS:** 5-position equalizer switch; 78 RPM, COL-LP, RCA-AES, FFRR, EUR. Selector switch, Phono w/rumble filter; Phono without rumble filter; Radio; TV; Tape. Continuously variable loudness control. Gain control. Bass control. Treble control with AC switch. Radio level set control (rear panel). **OUTPUT IMPEDANCES:** 4, 8, 16 ohms. Plus Hi-Z tape recording output. Three power outlets on rear for tuner, changer, recorder, etc. Removable etched panel and six 1 $\frac{1}{4}$ " extension shafts for custom installation included. **TUBES:** 1-6SC7, 1-6SN7GT, 2-6SL7GT, 2-5881, 1-5U4G. **SIZE:** 16x8 $\frac{1}{2}$ x7 $\frac{1}{2}$ "H. Operates from 117 VAC 50/60 cycle. Shpg. Wgt. 30 lbs.

MODEL 2200-C, Net.....\$ 97.95



WITH REMOTE CONTROL

Custom high fidelity, all-triode amplifier with remote control unit from which you can adjust volume, bass or treble, compensate for all types of records, or switch from AM to FM radio. Amplifier may be 25 or more feet from remote control, (shipped with 5-ft. cable, 20-ft. extensions available). **POWER OUTPUT:** Less than .2% distortion at 10 watts, less than .4% at 15 watts, less than 2% at 20 watts, Peak Power 30 watts. **FREQUENCY RESPONSE:** 20-30,000 CPS $\pm\frac{1}{2}$ DB. **HUM LEVEL:** 80 DB below full output. **INPUTS:** 6: Two Magnetic Pickups, Crystal Pickup, Microphone, Two Radio. **CONTROLS:** On remote unit - Selector-Equalizer Switch, Compensated Volume Control, Bass Control, or Treble Control; On amplifier - Master Gain Control, AC Switch. **OUTPUT IMPEDANCES:** 4, 8, 16 ohms. **TUBES:** 3-12AU7, 3-12AX7, 2-6SN7GTA, 2-6B4G, 1-5V4G. **SIZE:** Amplifier 8 $\frac{1}{2}$ x17x7 $\frac{1}{2}$ "H., Remote Unit 3 $\frac{1}{2}$ x10x4 $\frac{1}{2}$ "H. Operates on 117 VAC 50/60 cycle. Shpg. Wgt. 35 lbs.

MODEL 2145-A, Net.....\$ 186.15

ACCESSORY: 20-ft. extension cable for more flexible installation of Model 2145-A. Shpg. Wgt. 5 lbs.

MODEL 2148, Net.....\$ 7.20

THREE SPEED TRANSCRIPTION UNITS



Excellent unit for playing all size discs and transcriptions up to 16". Will play any records at 33 $\frac{1}{3}$, 45, or 78 RPM. Output of 2.5 watts is sufficient for most any application. Equipped with 8" Alnico V PM speaker, this unit can be used for commercial or home use. Combination bass and treble tone control. AC switch attached to volume control. Pickup is latest type of 400 Astatic with twin CAC cartridge. Speaker cable is 15 feet long and may be used up to that distance from unit. Operates on 117 VAC 60 cycle, 30 watts - tubes: 1-12AV6, 1-35W4, 1-50B5. **SIZE:** 8 $\frac{1}{2}$ Dx15Hx14 $\frac{1}{2}$ "W. Net weight 15 lbs. Shpg. Wgt. 20 lbs.

MODEL 2198, Net.....\$ 71.91



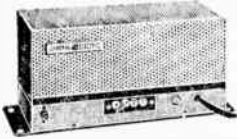
SQUARE DANCE MODEL

High quality transcription player which handles all records or transcriptions up to 16". Sufficient power (10 watts, peak 15 watts) to answer any need. Built-in scratch-noise filter to suppress surface noise of old or worn records. Microphone, Micro-instrument, and phonograph have separate volume controls for simultaneous intermixing. Frequency response 30-15,000 cycle. Inputs for one mike, one mike on instrument, one phono (built-in). Motor is 3-speed, continuously variable 30-80 RPM. Uses 16" professional phono arm with twin crystal cartridge. Heavy duty 12" Alnico V PM speaker in lid with 25-foot cable, 4 ohm outlet for additional speaker. Separate bass and treble controls. Operates on 117 VAC. Case size: 17 $\frac{1}{2}$ Dx18Wx12 $\frac{1}{2}$ "H. Has carrying weight 34 lbs. Shpg. Wgt. 40 lbs.

MODEL 2195, Net.....\$ 154.33

GENERAL ELECTRIC

Custom Music Ensemble



10-Watt High Fidelity Amplifier

MODEL A1-300. 10 watt high fidelity amplifier for home music systems. Designed to be used with Model A1-200 Preamplifier Control Unit, competitive preamplifiers, tuners having own controls, monitor or booster unit. Small in size, 4 1/2" wide, 12 1/2" long, 5 1/2" high, makes hidden installation easy. No controls on unit. Has 15 DB inverse feedback loop, split load triode phase inverter to drive two 6V6GT. Hum balance adjustment. Frequency response, ± 2 DB, 30-15,000 cycles (1/2 watt output). Output impedances 4, 8, 16 ohms. Hum level -70 DB. High impedance input. Tubes: 1-12AX7, 1-6C4, 2-6V6GT, 1-5Y3GT. For operation on 105-120 VAC, 60 cy. Blue lustre finish. Shpg. Wt. 13 lb. Net \$ 46.79



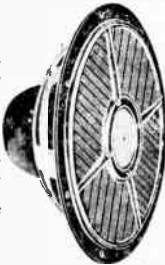
Preamplifier Control Unit

MODEL A1-200. Preamplifier-equalizer for use with GE Model A1-300 Power Amplifier listed above, other amplifiers. Inputs: #1 for Magnetic Cartridge, #2 for FM-AM Tuner, #3 for TV sound, Tape or Disc Recorder, 7-position selector control, 5 are for record compensation, others are for radio or auxiliary. New loudness control compensates for reduced sensitivity of human ear at both ends of audio range. Switch on rear permits selection of conventional volume control in place of loudness control. Separate, continuously variable bass and treble controls with attenuation. AC on-off switch and pilot. 2 AC power outlet receptacles. Size: 3Hx 12 1/2x8 1/2" D. Tubes: 1-6SC7, 1-12AX7, 1-12AU7, 1-selenium rectifier. Complete with 6-ft. cable and plugs to attach to amplifier. Operates on 105-120 VAC 50/60 cy. Shpg. Wgt. 8 lbs. Net \$ 56.79

12-inch Dual Coaxial High Fidelity Speaker

Model A1-400

Dual Coaxial High Fidelity Speaker. Wide angle dispersion speaker with smooth response 40-15,000 cy. Tweeter unit mounted on slotted baffle plate which serves as tweeter baffle, reduces interference between woofer and tweeter units. Built-in 1800 cycle crossover. Woofer diameter 12", tweeter diameter 2 1/2". Alnico V ring magnets, woofer 1 1/2 oz., tweeter 6.8 oz. Speaker may be "front-mounted" on enclosure, 8 ohm V.C. Power rating 25 watts. Size: 12-3/8 dia. by 6-1/8" deep. Shpg. Wgt. 10 lbs. Net \$ 41.11



"BATON" TONE ARMS



MODEL A1-500. Designed for use with all types of records up to 12" diameter. Arm is constructed of strong, lightweight aluminum for minimum lateral and vertical inertia. Cartridge head accommodates GE Variable Reluctance Cartridges which simply plug into head, no soldering. No torsional resonances at all audible frequencies. Cartridge pressure quickly and accurately adjustable by means of sliding weight. Stylus pressure shown directly in grams on calibrated scale. The cartridge head tilts upward 90° for easy stylus inspection. Lateral and vertical bearings are dustproof, lifetime lubricated. Height adjustable up to 2". Arm is 10-7/8" long. Less cartridge. Net \$ 31.31

MODEL A1-501. For use with records up to 16" diameter and designed for broadcast and professional use as well as homes. Length 14-1/8". Less cartridge. Net \$ 34.79

G-E RECORD COMPENSATOR



MODEL A1-900 RECORD COMPENSATOR. A new adjustable high impedance passive network for use with standard type GE cartridges. Five positions, LP, AES, FLAT, GOOD early 73, POOR early 78. Connects between pickup cartridge and pre-amplifier input. Mounts on panel up to 3/4" thick in any position. Requires 4" behind panel. Size: 2 1/2" L. x 2" W. x 3" H. Shpg. Wgt. 1 lb. Net \$ 8.77

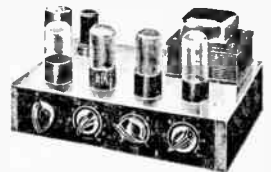
PRECISION ELECTRONICS GROMMES CUSTOM MUSIC AMPLIFIER



This excellent amplifier was chosen as one of those used in a national magazine's suggested combination for a home music system. Frequency response beyond 20-20,000 CPS ± 0.5 DB, 30-20,000 CPS ± 1 DB at 10 watt level. 20 watts peak. Loudness control incorporated. Separate calibrated bass and treble controls. Built-in equalizer preamplifier for magnetic pickups. Two inputs, crystal pickup or tuner. Two AC outlets on rear for tuner and record player. Hum and noise level -80 DB. Uses five tubes and rectifier, 2-6V6GT in output. Size 11x7x7. Brown hammerloid finish. For operation on 105-125 VAC 60 cycle. Output impedance 4, 8, and 16 ohms. Shpg. Wgt. 15 lbs.

MODEL 50PG3. Net.....\$ 53.90

GROMMES MUSIC AMPLIFIER



MODEL LJ2. Power output 8 watts normal, 18 watts peak. Frequency response 20 to 20000 cy. plus or minus 1 DB at 3 watts. Separate bass and treble controls. Built in magnetic pickup pre-amplifier equalization down to 40 CPS; 500 cycle turnover and 47000 ohm input permits use of external record compensator. Input for radio or crystal pickup. Output 4, 8, 16 ohms. AC outlet for tuner, etc. Fused AC line. Tubes: 1-6SC7, 1-6SL7GT, 2-6V6GT, 1-5Y3GT. For operation on 117 VAC. Size: 10 1/2x6 1/2x5 1/2". Shpg. Wgt. 10 lbs. Net \$ 40.91

Precision Ten Watt Amplifier



Versatile high quality amplifier, normal output 10 watts, maximum 12 watts. Mike input gain 105 DB. Phono input gain 65 DB. Frequency response 70-10,000 CPS. Tone control. Output impedances 4 and 8 ohms. Tubes: 1-6SC7, 1-6L6, 1-5Y3GT. Size: 7x10 1/2x5 1/2". Operates on 110/120 VAC, 60 cy. Shpg. Wgt. 14 lbs.

MODEL G-10

Net \$ 27.84

12" DELUXE HIGH FIDELITY SPEAKERS



MODEL 1201A. Unsurpassed in the medium priced field. High fidelity 12" speaker with 50-13,000 cycle response. Cone has "edge-dip" treatment resulting in smooth response and long cone life. Will carry 25 watts output. Equipped with protective rigid dust cap which reinforces cone assembly. 1 1/2 oz. Alnico V magnet. Uses famous GE 1 1/4" aluminum base voice coil. Impedance 8 ohms. Shpg. Wgt. 6 1/2 lbs. Net \$ 19.93

MODEL 1203A. 12" high fidelity speaker similar to above but has 9 oz. magnet. Power, 25 watts. Shpg. Wgt. 5 1/2 lbs. Net \$ 13.94

"Your trade-in's worth more at the WALTER ASHE STORE" (25)

McIntosh

**HIGH FIDELITY
AMPLIFIERS**



MODEL A-116. Fine 30-watt high fidelity amplifier with frequency response of 20-30000 cycles plus or minus 1/10 DB. 10-50000 cy. 1/2 DB. 10-100000 cy. 1 DB at 15 watts. Output impedances 4, 8, 16, and 600 ohms. Has input for any tuner or zero line level. Powers and works with any McIntosh Pre-Amp and others. Uses world famous McIntosh output transformer resulting in finest quality sound. Finished in grey Hammettone. Chassis size: 12Lx8Dx8H. Operates on 117 VAC. Tubes: 1-12AX7, 2-12BH7, 2-6BG6, 1-5U4 G. Shpg. Wgt. 35 lbs. **Net \$ 143.50**

50 WATTS



MODEL 50W-2. One of the finest high fidelity amplifiers yet developed. 50 watt normal output with peak power of 100 watts. Frequency range of 20-20000 CPS at less than 1% distortion. 20-20000 CPS at less than 1% distortion. 20-20000 CPS at less than 1% distortion. 20-20000 CPS at less than 1% distortion. Components. 40 DB gain. 200000 ohm input impedance for tuner, crystal cartridge or AE-2 pre-amp. 600 ohm balanced output & 4-8-16-32 ohms balanced or unbalanced. Noise, 9C DB below rated output. Damping factor 10. Separate amplifier and power supply chassis, size 8-3/16x6-3/4x4-1/2". Finished in grey hammettone. Tubes: Output, 2-6LE6; Inverter Amplifier, 1-12AX7; Pre-amp, (as required) 1-12AX7; Rectifiers, 2-5U4G. Complete with tubes, instructions and connectors. Operates on 105/125 VAC 60 cy. Shpg. Wgt. 60 lbs. **Net \$ 249.50**

Equalizer



Pre-Amplifier

NEW Equalizer Pre-amplifier for use with power amplifiers. Delivers 4 volts at less than 0.3% distortion, 20-20000 CPS. Five input channels. TV audio, FM-AM tuner, low level mike, high level magnetic cartridge, low level magnetic cartridge. Master volume control. Bass and treble accentuate or attenuate. Size 11x7-3/4x4-1/8 wood cabinet. Supplied with connector to obtain power from main amplifier and connect equalizer output to power amplifier.

MODEL C-104A Equalizer Pre-amplifier in wood cabinet (illustrated). **Net \$ 67.50**
MODEL C-104 Less wood cabinet. **59.50**

U T C

**LINEAR STANDARD
AMPLIFIER KIT**



New height of fidelity. Full 20 watts output. Intermodulation distortion: .07% at 1 watt, 1% at 20 watts. Frequency response (controlled): 1 DB 20-20,000 cycles. Hum and noise level: 80 DB below rated output. Feedback: 36 DB. Output impedances (not critical): 4-8-16 ohms, also 2-5-10-20-30 ohms. Tubes: 1-12AX7, 2-6AU6, 2-5881 (KT-66), 1-5V4G. Employs printed circuit panel as the chassis with virtually all components pre-assembled and wired. Each kit which comes complete, including tubes and cover, can be fully pre-tested before shipment. Additional wiring involves only the connection of 17 leads to screw terminals for completion. Complete, ready for final assembly. Size: 5 1/4 x 8 x 1 1/4". Shpg. Wgt. 26 lbs.

MODEL MLF. Net.....\$ 105.84

ARKAY KIT MODEL A-10

**Completely NEW
High Fidelity AMPLIFIER
IN KIT FORM**



10-watt high fidelity amplifier in kit form. Designed to meet the exacting standards of high fidelity enthusiasts. Power output of 10 watts or 32 DB, less than 3% distortion. Frequency response of 20 to 20,000 CPS ±1 DB. Tone control produces maximum bass boost of +8 DB at 100 CPS. Treble control produces maximum treble boost +10 DB at 10,000 CPS. Hum level -70 DB below rated output. Output impedances 4, 8, or 16 ohms. Balanced pre-amplifier stage for reluctance pickup. Inputs for reluctance pickup, and/or microphone, tuner, or crystal pickup. Tubes: 1-6CS7, 1-6SL7, 2-6V6GT, 1-5Y3GT. Size: 11 1/2 x 6 1/2 x 2 1/2"H. Operates on 110-120 VAC. Complete with tubes. Shpg. Wgt. 15 lbs.
MODEL A-10. Net.....\$ 22.95

Egypto

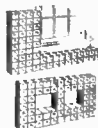
**HEAVY DUTY
STEEL DRAWERS**



Heavy duty steel drawer units make excellent small parts bins for home, shop, and store. Securely welded with strong handles. Drawer size, 11 1/2 x 5 1/2 x 3 1/4"H. Each drawer comes equipped with two dividers. Finished in olive green. Label holders on every drawer and cross divider. Units may be
NO. 8. 8 drawers. Cabinet size, 25 1/2 W x 10 H x 12 D. Shpg. Wgt. 30 lbs. Net....\$ 14.35
EXTRA DIVIDERS. Net Each.....\$.09
NO. 11. 18 drawers. Cabinet size, 34 W x 13 1/2 H x 12 D. Shpg. Wgt. 75 lbs. Net....\$ 23.35
EXTRA DIVIDERS. Net Each.....\$.09



**ALL-STEEL
CONSTRUCTION**



MULTI-DRAWER

Build your small parts cabinet to fit your space - add any number of units as needed. Unit rigidly interlocks with others at top, bottom, and sides. For storage of small parts, sturdy all-steel construction. Flexible cabinet arrangement with smooth sliding drawers. Holder for contents identification. Size: 5" front to back, 2 1/2" wide, 2 1/2" deep. Each unit accommodates three all-steel drawer dividers.

M-1010 MULTI-DRAWER. Net Each...\$.42
Set of 10 Drawers.....\$ 3.78
M-1011 DIVIDERS. Net Each.....\$.03
Set of 10 Dividers.....\$.27
Set of 100 Dividers.....\$ 2.50

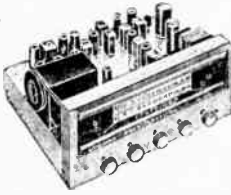


MICROCIRCUITS

Conducting and resistance ink and paints. For use in building or repairing of miniature tube sets, hearing aids, control circuits, amplifiers, etc. Kit contains silver conducting paint, low, medium, high, and very high resistance paint, brush, brush cleaner, and solvent. Complete manual tells you how to make chokes, coils, resistors, coupling transformers, etc. Shpg. Wgt. 2 lb.
MODEL S-21 SUPER KIT. Net.....\$ 10.26

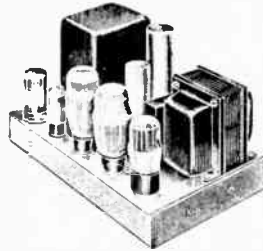
CRAFTSMEN AMPLIFIERS - PREAMPS AUDIO-HI-FI

THE *craftsmen*



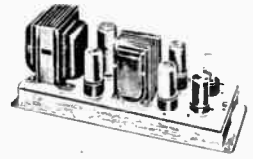
FM-AM TUNER WITH EQUALIZER PRE-AMP. FM section of the superlative tuner has high sensitivity with AFC to assure negligible drift, AFC may be disabled by means of switch on front panel. AM section features 2-position bandwidth, sharp for noisy locations and DX, broad position for high fidelity reception. AM section has 10 KC whistle filter to eliminate adjacent channel interference. Audio section contains separate bass and treble controls with boost and attenuation, high quality built-in preamplifier for magnetic cartridges and four positions of record equalization. Has extra input for tape and TV. Works beautifully with amplifier such as Craftsman C550. Tubes: 2-6BJ6, 1-6BE6, 1-6BC6, 1-6BN6, 2-6AU6, 2-6AL5, 1-6BK7A, 1-6U8, 1-6AV6, 3-12AX7, 1-5Y3GA. Loop antenna included. Frequency response: FM, 20-20,000 CPS $\pm 1/2$ DB; AM, 20-5,000 CPS $\pm 1/2$ DB. Chassis finished in beautiful chrome plating, front panel suitable for use with or without custom cabinet. Size: 14" x 13" x 6 3/4" H. Operates on 110-120 VAC, 65 watts. Complete with all instructions, mounting hardware, interconnecting cables. Shpg. Wgt. 22 lbs.

MODEL C1000. Net.....\$ 179.50



HIGH FIDELITY AUDIO AMPLIFIER. Delivers full 30 watts of power with only 1/10 of 1% harmonic and 1/2% of 1% IM distortion. Uses exclusive thermal type time delay relay for protection of power supply. Frequency response: ± 0.1 DB 20-20,000 cycles, ± 2 DB 5-100,000 cycles. Power response 30 watts ± 1 DB 10-50,000 cycles. Phase shift: ± 15 degrees 20-20,000 cycles. Hum and Noise: 90 DB below rated output. Damping Factor: 32:1. Output Load Impedance: 8 and 16 ohms nominal. Output Internal Impedance: 0.57 ohm on 16 ohm tap. Tubes: 2-6SN7GTA, 2-KT66, 1-5U4G. Operates on 117 VAC, 130 watts. Specially designed, fully potted output transformer. Since the C550 has no control functions, it may be placed in any convenient location. Chassis finished in beautiful chrome plating. Size: 8 x 13 1/2 x 7 1/2" H. Complete with instructions, mounting hardware, and interconnecting cables. Shpg. Wgt. 30 lbs.

MODEL C550. Net.....\$ 109.50



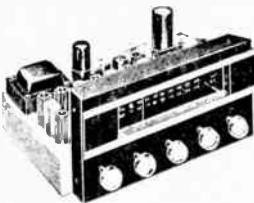
HIGH FIDELITY AMPLIFIER. Features a direct-coupled, split-load triode phase inverter driving PP 6V6 power output tubes. Designed to operate with Craftsman tuners and TV chassis. Frequency response ± 1 DB 10-30,000 CPS (1/2 watt output); power response 10 watts ± 1 DB 15-20,000 CPS. Hum and noise level: 70 DB below rated output. For 110-120 VAC 60 cycle, 65 watts. Size: 14x4 1/2 x 5 1/4" H. Shpg. Wgt. 12 lb.

MODEL C400. Net.....\$ 42.90



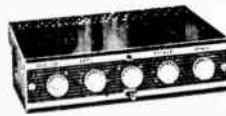
SHARP CUT-OFF FILTER SYSTEM. Designed for use with Model C350 Equalizer Preamplifier. Used in eliminating distortion present at the extremes of the audio frequency range. LO range lever affords sharp filter action to reduce hum or turntable rumble. HI range lever controls the action of the high frequency filtering which reduces hiss and record scratch. Both HI and LO filters have a flat position which permits frequency response of ± 0.5 DB 20-20,000 CPS. Hum level 70 DB below 1/2 watt output. Operates on 110-120 VAC. Size: 12 1/2 x 6 1/2 x 1 1/2" H. Shpg. Wgt. 8 lbs.

MODEL C375. Net.....\$ 39.50



FM-AM TUNER WITH PHONO PREAMP. High quality tuner for custom builders. Has preamp for magnetic cartridges. Edge-lighted slide rule dial. Automatic frequency control. Input channels for phono and TV as well as two power outlets are switched from front panel. AM low impedance loop and built-in FM antenna. External antennas may be used. Wide band IF channels provide outstanding audio fidelity. Double triode audio amplifier with negative feedback handles up to 3 volt output at less than 1% distortion. Audio output matches high or low gain amplifier such as Craftsman C550 and C400. Continuously variable bass and treble controls; flat response 20-20,000 CPS. Sensitivity 5 MV. 11 tubes plus rectifier. Chassis finished in polished chromium. Size: 13 1/2 x 9 1/2 x 7". Operates on 105-125 volt 60 cycles, 45 watts. Complete with tubes. Shpg. Wgt. 16 lbs.

MODEL C10. Net.....\$ 131.50



EQUALIZER PREAMPLIFIER. A centralized audio control system designed for exceptional flexibility and low distortion. Features "hinged" tone control circuits, flexible and complete record equalization, new preamp circuit designed for low noise, hum. Specially designed, accurately compensated loudness control. Four inputs - Low level magnetic cartridge, Tape, TV, Tuner, each with separate level control. Equalization: seven positions, Bar, LP, Orth, AES, Lon, Eur, 78. Tone controls: Separate, Compensated Bass and Treble. Outputs: 2, one to power amplifier, one to recorder. Harmonic distortion: Less than 0.1%. Hum and Noise: Less than -75 DB. Compensated loudness control or regular volume control. Operates on 110-120 VAC. Size: 3 1/2 x 12 x 7" D. Tubes: 1-2729, 3-12AX7, 1-6X4. See Model C375 Sharp Cut-Off Filter System. Shpg. Wgt. 11 lbs.

MODEL C350. Net.....\$ 129.50

SPECO



AMPLIFIER-PREAMPLIFIER

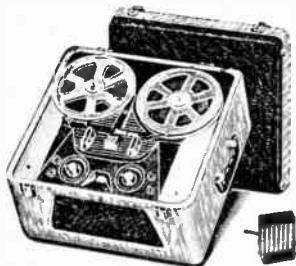
MODEL 201. For phono reproduction or use with mike. 2 watts output. Tone control, volume control/AC switch. Size: 2x5 1/2 x 3 3/8". 1-125Q7, 1-50L6, 1-35Z5GT. For 110-120 AC-DC operation. Less tubes and output transformer. Shpg. Wt. 3 lbs. Net \$ 4.85



MODEL 309. Full 5-watt amplifier for use with magnetic or crystal pickups. Built-in preamp for GE and similar cartridges. 2 inputs. Response, 50-14,000 cycles. Tone, volume control/AC switch. 1-125Q7, 1-1255GT, 2-35L6, 1-35Z5GT. Less output transformer. Size: 8 1/2 x 5 x 3 3/8" W. For 110-120 AC-DC operation. Shpg. Wgt. 6 lbs. Net \$ 18.52

"Your trade-in's worth more at the **WALTER ASHE STORE**" 27

**MULTI-SPEED
PENTRON
TAPE RECORDER**



MULTI-SPEED RECORDER

Dual speed, 3 3/4" or 7 1/2" per second. Dual track, provides two full hours of recording on 7" reel at 3 3/4" speed, one hour at 7 1/2". Amplifier equalizes automatically at either speed. Has fast forward and rewind speeds. Editing key permits adding or deleting on any section of the tape while playing. Lid may be closed when recording or playing 7" reels. Magic eye recording indicator. Positive interlock control switch prevents accidental erasure and tape spillage. Frequency response: 7 1/2" per second, 50-9500 CPS, 3 3/4" per second, 50-5000 CPS. Less than 0.5% flutter. 6" Alnico V speaker. Power output 5 watts. Mike input jack for recording from mike. Radio input jack for recording direct from radio, TV sound, phono. Auxiliary speaker jacks for external speaker. Auxiliary amplifier jack for direct connection to external amplifier or for monitoring. Operates on 105-120 VAC 60 cycle. Playback tone control. Complete with mike. Size: 16x15x11". Shpg. Wgt. 32 lbs.

MODEL TR-4. Net.....\$ 139.50

Pentron

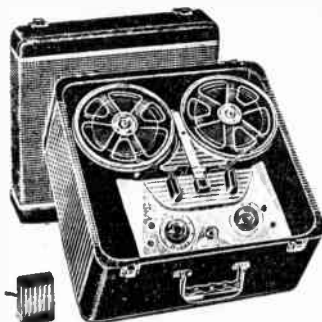


DUAL SPEED RECORDER

Single knob control provides instant selection of Record or Play in speeds of either 7 1/2" or 3 3/4" per second tape speeds. Has fast forward and fast rewind, 40-1. Straight line loading of tape. Frequency range: 7 1/2" per second, 50-8000 CPS; 3 3/4" per second, 50-5000 CPS. Will record or play back two full hours on 3 3/4" per second on 7" reel, one full hour on 7 1/2" per second. Volume control with an/off switch. Continuously variable tone control. 3 watts output. Has built-in 4x6" Alnico V speaker. Output jack for external speaker. Inputs for mike, radio, TV, phono. Neon bulb level indicator. Less than 0.5% flutter at 7 1/2" per second. Professional quality record and erase heads. Complete with microphone. Two-tone leatherette case, size 15 1/2"x13 1/2"x 8 1/2" H. Operates on 105-120 VAC 60 cycle. Shpg. Wgt. 30 lbs.

MODEL CT-1. Net.....\$ 99.50

PENTRON



HIGH FIDELITY RECORDER

Three-speaker high fidelity tape recorder, dual speed, dual track. Push-button speed change, 3 3/4" and 7 1/2" per second. Lid can be closed when using 7" reels. Automatic amplifier equalizing. Two hours recording at 3 3/4" on 7" reel, one hour at 7 1/2" speed. Magic eye recording indicator. Positive interlock control switch prevents accidental erasure and tape spillage. Uses two 6" woofers built into case and external tweeter with individual volume control. Frequency range: 50-10,000 CPS at 7 1/2" per second, 50-5000 CPS at 3 3/4" per second. Provision for external woofer speaker. Fast forward and fast rewind speeds. Power output 5 watts. Less than 0.5% flutter. Editing key permits editing any section of tape while in motion. Separate record and erase heads. Complete L/C crossover network at 1000 cycles. Mike input jack for recording from mike. Radio/Tape/TV input jack. Tape control. Complete with mike. For operation on 105-120 VAC 60 cycles. Size: 16x15x 11". Shpg. Wgt. 37 lbs.

MODEL HT-225. Net.....\$ 168.75



RECORDING MECHANISM FOR CUSTOM INSTALLATIONS

Two-speed tape mechanism. For use with preamps PRE-7 and HFP-1. For custom installations, portable use, schools, sound studios, etc. 3 3/4" and 7 1/2" per second. Push-pull speed change. Up to two hours recording or playback. Fast forward and rewind speeds. Flutter: 0.3% at 7 1/2", 0.5% at 3 3/4" per second. Shaded four pole self-starting induction motor, balanced. Space required for mounting, 9 1/2"x8x5 3/4"D. Dual track heads. Operates on 117 VAC 60 cycle. Shpg. Wgt. 26 lbs.

MODEL 9T-3M. Net.....\$ 59.75



DELUXE PREAMPLIFIER. Wide frequency response (50-12,000 CPS ±3 DB). Fully wired, ready to plug into any hi-fi system. Complete with illuminated VU recording meter, monitor jack, motor switch, input-output jacks, volume control, play-record switch. Output, high impedance. Space required for cutout, 9 1/2"x4 1/2"x5 1/2"D. Operates on 117 VAC 60 cycles. Tubes: 2-6AU6, 1-12AT7, 1-12AU7, 1-6X4. Shpg. Wgt. 6 lbs.

MODEL HFP-1. Net.....\$ 59.75

STANDARD PREAMPLIFIER. Fully wired, ready to plug into any hi-fi system. Complete with magic eye level indicator, motor switch, pilot light, volume control, play-record switch. Output and input jacks are mounted on front panel. Frequency range: 50-9500 CPS ±3 DB at 7 1/2" per second. Outputs: audio amplifier, headphones. Operates on 117 VAC 60 cycles. Space required for cutout: 10 1/2"x4 1/2"x6". Tubes: 2-12AU7, 1-12AX7, 1-6X4, 1-6E5. Shpg. Wgt. 6 lbs.

MODEL PRE-7. Net.....\$ 39.75

Pentron



RECORD-O-FONE

THREE-SPEED TAPE RECORDER

Dual track recorder with many desirable features. Three recording speeds, 1 1/2" per second (for voice only), 3 3/4" per second and 7 1/2" per second. 7 1/2" is ideal for making high fidelity recordings direct from mike, radio, or phono. Up to four hours recording time at 1 1/2" per second, two hours at 3 3/4". Tape is easy to erase and may be used over and over. Neon recording level indicator. Changing speeds is quick and easy. Has fast forward and rewind feature. Plays back through internal speaker, jack for external speaker. Storage space in case (with cover) for accessories. Case size: 15x16x8 1/2". For operation on 117 VAC. Complete in portable carrying case with crystal microphone, tape, and reels. Net wgt. 33 lbs. Shpg. Wgt. 40 lbs.

MODEL RT-65B. Net.....\$ 124.30

Complete recorders with preamplifier and tape mechanism mounted in specially built carrying case.

MODEL PMC. Consists of 9T-3M mechanism with PRE-7 amplifier. Net....\$ 114.50

MODEL PMD-1. Consists of 9T-3M mechanism with HFP-1 amplifier. Net...\$ 134.50

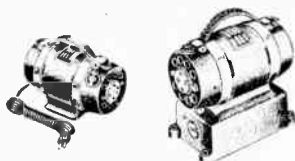
OSCILLATOR COIL. Required only when preamp other than PRE-7 or HFP-1 is used with 9T-3M mechanism.

NO. 311-A-13. Net.....\$ 1.50

MOUNTING BOARD. For mounting Pentron 9T-3M mechanism in cabinets.

NO. X-305. Net.....\$ 1.95

Carter CONVERTERS FOR TAPE AND WIRE RECORDERS



Converts 6 volts DC to 115 volts AC 60 cycle, 60 watts. 29 DC amperes drain. For use with the following models: Air King 750, Ampro 730-731, Crescent H22A1, 903-907, Knight Wire, Webcor 80-180-228-18, Wilcox Goy 8U12, Wireway, Dictorol. Size: 8 $\frac{1}{4}$ x4 $\frac{1}{2}$ x5 $\frac{1}{2}$ "H. Shpg. Wgt. 17 lbs.
MODEL A1060CW. Net.....\$ 52.92

Input 6 volts DC 31 amperes. Output 115 volts AC 60 cycles 80 watts. For following models: Bell RT50-RT65B, Crestwood CP201, Dukane, Gray Auddograph, Eicor 1000-15-115, Knight Tape, Peirce 55B, Masco D37, LD37, DC37, Pentron T-3, 9T3, 9T3C, Revere T130, T500, Tape Master Foundation Unit, Webcor 210-1, Wilcox Goy 1C10-2C10-3F10-3A10. Size: 8 $\frac{1}{4}$ x4 $\frac{1}{2}$ x5 $\frac{1}{2}$ "H. Shpg. Wgt. 17 lbs.
MODEL A1080CW. Net.....\$ 53.28

Input 6 volts DC 35 amperes. Output 115 volts AC 60 cycles 130 watts. For the following models: Concertone 1401-1501, Brush BK401-403, Crescent H19A1, Magnecord PT6-PT6A-PT63, Mognecord Voyager, Pierce 260-265-270-Reelset, Revere T700, Webster Ekotape 101-109-111-114-205. Size: 10 $\frac{1}{4}$ x4 $\frac{1}{2}$ x5 $\frac{1}{2}$ "H. Shpg. Wgt. 20 lb.
MODEL A1010CW4. Net.....\$ 61.74

Changes DC to AC for most uses where AC is not readily available. DC input 6 volts, 40 amperes. AC output 115 volts, 60 cycles 150 watts. For all non-inductive loads. Easy to filter. 100% PF. Size: 8 $\frac{1}{4}$ Lx4 $\frac{1}{2}$ Wx5 $\frac{1}{2}$ H. Shpg. Wgt. 15 lbs.
MODEL A1015C. Net.....\$ 55.86

CUSTOM MODEL CONVERTER WITH MANUAL FREQUENCY CONTROL

Input 12 volts DC 29 amperes. Output 115 volts AC 60 cycles 210 watts. With manual frequency control, designed for broadcast service. For use with Ampex 400A-401A, Magnecord Bi-Naural, Webster, etc. Output frequency can be maintained at 60 cycles with constant 70% power factor load, \pm 10% input voltage variation. Size: 11 $\frac{1}{2}$ x6 $\frac{1}{2}$ x10"H. Shpg. Wgt. 30 lbs.
MODEL BR1021CP. Net.....\$ 187.42

BELL

RE-CORD^ofone DUAL-SPEED DISC RECORDER



MODEL RC-47A. New model recorder which will record and give immediate playback at speeds of 78, 45, and 33-1/3 RPM (45 RPM converter spring supplied). Compact, complete self-contained, easily portable in single carrying case. Will record direct from any radio. Also serves as a public address system. Has separate channel for copying records or dubbing in sound effects. Recording is visual, level indicator on panel. Headphone monitoring jack. Records 15 minutes on a 10" disc at 33-1/3 RPM. Copies a 12" commercial record on a 10" blank at 78 RPM, cuts 160 lines per inch. All controls are easily available and permit dubbing in while recording is in process. Uses 6" heavy duty PM speaker. Crystal microphone with shielded rubber cable and plug supplied. Uses newest style Astatic CAC-D-J turnover arm and cart-ridge. Magnetic cutting head. Power output 3 watts, peak power 5 watts. Inputs for microphone, radio-phonograph, direct external recording. Has jack for external speaker. For operation on 105-120 VAC 60 cy. Size: 18x10x16". Shpg. Wgt. 42 lbs.

MODEL RC-47A

Net \$ 114.74

MODEL RA-6. Records and plays back all three speeds, 33-1/3, 45, and 78 RPM. All recordings made at 160 lines per inch. Records directly from microphone, radio, tape or wire recorder, or from another phonograph. Automatic recording equalization for each speed, supplied by Speed Change Switch. Magic-eye tube permits accurate control of recording level. Unit may also be used as record player or 5-watt public address system. Adjustable cutting head. Built-in 5x7 speaker. Output jack for external speaker. Records on discs up to 10" for 15 minutes recording time at 33-1/3 RPM. Playback pickup has tilting cartridge with twin styli. Inputs for 1 Microphone, 1 Radio-Phonograph. Tubes: 2-6SL7GT, 1-6V6GT, 1-6U5, 1-6X5GT. Operates on 117 VAC 60 cycles. Attractively styled case covered in brown and tan leatherette. Size: 16x15 $\frac{1}{2}$ x9 $\frac{1}{2}$ "H. Shpg. Wgt. 40 lbs. Net \$ 117.75

MODEL BK-6R. Same as above but has built-in AM radio which tunes 535-1720 KC. Recordings can be made from radio or simply use radio as regular receiver.

Net \$ 142.87



SOUND-REEL

TAPE RECORDERS

MODEL 53. Dual speed, dual track tape recorder provides professional quality inexpensively for home or school, business man or professional. Frequency response: 80 to 8500 CPS \pm 3 DB at 7.5 inches per second, 80 to 5000 CPS \pm 3 DB at 3.75 inches per second. 5 watts output to internal or external speaker. Has outputs for external speaker and external amplifier or telephone line (500 ohms). Dual track, up to 2 hours of recording time. Inputs for Microphone and Radio or Phonograph. Fast forward and rewinding speeds. Press-To-Record pushbutton for foolproof recording and playback without accidental erasure. Flutter and wow .3%. Monitoring switch using headphones or speaker. Automatic equalization on both recording speeds. Has separate motors for takeup and drive for minimum wow and flutter. Complete with crystal mike with 7 $\frac{1}{2}$ -ft. cord, 1-7" reel with 625-ft. tape and 1-7" empty reel mounted inside cover. Case size: 14 $\frac{1}{2}$ x13x10 $\frac{1}{2}$ "H. Luggage type-case finished in maroon and grey leatherette. Operates on 117 VAC 60 cy. Carrying weight 35 lbs., Shpg. Wgt. 40 lbs.
Net \$ 163.34

MODEL 53-R. Same as above but has built-in AM radio which tunes 500 to 1700 KC. Radio programs may be recorded directly without additional connections, or can be used as regular radio when not recording. For 117 VAC 60 cy. Carrying weight 38 lbs., Shpg. Wgt. 43 lbs.
Net \$ 191.27

THREE SPEED DISC RECORDER



"Your trade-in's worth more at the WALTER ASHE STORE" (29)

AUDIO-HI-FI RECORDING WIRE - TAPE - DISCS

SCOTCH Sound Recording Tape



High Output

Scotch HIGH OUTPUT recording tape is a recent development which features reduced background noise, output of at least 8 DB greater, lower distortion, greater fidelity range, and elimination of squeal and sticking by new dry lubrication method. Available in types "A" or "B". All types have plastic backing. Plastic reels.

NUMBER	LENGTH	NET EACH	
		1-11	12 OR MORE
120A-3	300 ft.	\$1.33	\$ 1.20
120A-6	600 ft.	2.67	2.40
120A-12	1200 ft.	4.34	3.90
		1-5	6-12
120A-24H	2400 NARTB Hub	8.00	7.20
120A-24R	2400 10 1/2" Reel	9.90	8.91
120A-48H	4800 NARTB Hub	16.00	14.40
120A-48R	4800 14" Reel	20.00	18.00

- A Magnetic coating wound facing in.
- B Magnetic coating wound facing out.

Magnetic Tape

Plastic base recording tape made for professional and home recording uses. Individually packaged in attractive hinged boxes. High fidelity tape with plastic backing and red oxide coating. Designed especially for the critical user. Lengths up to 1200 feet are wound on specially designed light sturdy plastic reels.

NUMBER	LENGTH	NET EACH	
		1-11	12 OR MORE
111A-1.5	150 ft.	\$.67	\$.60
111A-3	300 ft.	1.17	1.05
111A-6	600 ft.	2.34	2.10
111A-12	1200 ft.	3.67	3.30

111A-24H	2400 NARTB Hub	6.67	6.00
111A-24R	2400 10 1/2" NARTB Reel	8.57	7.71

EMPTY PLASTIC REELS

NUMBER	HOLDS	NET EACH	
		1-11	12 OR MORE
3"	150 ft.	\$.17	\$.15
5"	600 ft.	.44	.39
7"	1200 ft. Plastic	.50	.45
7"	1200 ft. Metal	.50	.45
10 1/2"	2400 ft. NAB Metal Reel	3.00	2.70

SCOTCH BRAND SPLICING TAPE
NO. 41. Length 1/4" x 150". Net Each...\$.35

LEADER AND TIMING TAPE
NO. 43. 1/4" x 150 ft. Net Each...\$.40



Professional TAPE AND REELS

Scotch PROFESSIONAL 7" reel with large-sized hub, 2 1/2" diameter instead of conventional size 1 1/2". This gives new reel same ratio of outside diameter to hub diameter of standard NAB metal reel, making for more accurate timing. Reel contains 1200 splice-free feet of plastic-backed dry lubricated tape which minimizes "tape squeal".

NO. 111-AP. 1200 ft. type "A" tape on 7" reel with 2 1/2" hub. Net Each.....\$ 4.00
12 reels or more. Net Each.....\$ 3.60
7" Professional Reel only..... .83
12 reels or more..... .75

audiorecords

ALUMINUM
BASE



RED LABEL AUDIODISCS

Professional type for broadcast stations, sound movies, etc. Double sided with center pin and three drive pin holes. Aluminum base.

Size	Std Pkg	Net Ea Bkn Pkg	Wgt Ea 12 oz.	Net Ea	Std Pkg	Pkg Wgt
8"	25	\$.66	12 oz.	\$.59	6 lb.	
10"	25	.91	1 lb.	.82	8	
12"	25	1.50	1 lb.	1.35	14	
16"	25	2.77	2	2.50	25	

YELLOW LABEL AUDIODISCS

For commercial recording studios, schools, and home recording. Excellent general purpose record. Center pin and three drive pin holes. Aluminum base.

Size	Std Pkg	Net Ea Bkn Pkg	Wgt Ea 12 oz.	Net Ea	Std Pkg	Pkg Wgt
8"	25	\$.55	12 oz.	\$.49	6 lb.	
10"	25	.74	1 lb.	.65	8	
12"	25	1.22	1 lb.	1.10	14	
16"	25	2.17	2	1.95	25	

BLUE LABEL AUDIODISCS

Size	Std Pkg	Net Ea Bkn Pkg	Wgt Ea 12 oz.	Net Ea	Std Pkg	Pkg Wgt
8"	50	\$.40	12 oz.	\$.36	8 lb.	
10"	50	.59	12 oz.	.53	11	

audiotape

MAGNETIC Recording Tape



A superior plastic base tape for professional or amateur use. 7" reels have 1250 feet. 600-ft. lengths available on 5" sturdy plastic reels, larger rolls are wound on aluminum hubs. Block oxide or red oxide.

No.	Coating	Feet	Oxide	Net Each	
				1-9	10
640	Black	600	Out	\$ 2.28	\$ 2.06
641	Black	600	IN	2.28	2.06
1240	Black	1250	Out	3.60	3.23
1241	Black	1250	In	3.60	3.23
650	Red	600	Out	2.28	2.06
651	Red	600	In	2.28	2.06
1250	Red	1250	Out	3.60	3.23
1251	Red	1250	In	3.60	3.23
253III	Red	2500	In	6.54	5.88
505III	Red	5000	In	13.06	11.76

JENSEN SILCLOTH

A record cloth which discharges static on records and keeps them that way. Also furnishes lubricant for record grooves, prolongs life of both record and stylus. Excellent for cleaning picture tubes, puts a silicone film on front of picture tube, this film knocks the static charge and keeps it off.
NO. 200. Net.....\$.88



GREEN LABEL DISCS

Highest quality recording discs which are widely used by broadcast stations and professional recordists. Perfectly coated double sided types on aluminum base. Packed 25 to a carton.

TYPE 616A. 16" disc. Net Each \$ 2.77
TYPE 616A. 16" disc. Carton of 25. Shpg. Wgt. 30 lbs. Net \$ 63.00
TYPE 611A. 11-7/8" disc. Net Each \$ 1.53
TYPE 611A. 11-7/8" disc. Carton of 25. Shpg. Wgt. 25 lbs. Net \$ 34.75

TAPE SPLICER



"JIFFY-SPLICE". Makes a professional job every time. Handles all types of recording tape. Uniform 30° butt-joint eliminates waste. Clean, uniform cutting.
Net \$ 1.47



RECORDING WIRE

High quality stainless steel recording wire for all wire recorders. Plastic leaders. High tensile strength.

NO. 5173. 1/4 Hour Spool. Net.....\$ 1.47
NO. 5172. 1/2 Hour Spool..... 1.76
NO. 5171. 1 Hour Spool..... 2.94

30 WALTER ASHE RADIO CO.

PHONE CHESTNUT 1-1125
1125 PINE ST., ST. LOUIS 1, MO.

Crest

Triumph

CROWN



3-SPEED PLAYER

CREST, 3-speed manual record player. Has 4-pole motor with balanced armature and heavy drive shaft, no "wows" or wavers. Universal cartridge shell, fits all magnetic or crystal cartridges. Ball-bearing mounted pull-away idler wheel for longer life, smoother performance. Automatic start and stop, move tone arm to start, shuts off at end of record. Arm locks in place when not in use. Condenser-resistor network across switch, eliminates "pop" shut-off noise. Bronze bearings at all moving parts. 10" turntable. Minimum cabinet dimensions: 13 3/4" left to right, 12 3/4" front to rear, 3 3/4" clearance above board, 3/8" below board. Operates on 100-130 and 200-250 VAC, 60 cycle. Less cartridge. Shpg. Wt. 15 lbs.

MODEL T Net \$ 31.85
WB1 Wood Base for Model T. Net \$ 5.15



AUTOMATIC 3-SPEED RECORD CHANGERS

Garrard's popular model, designed for music lovers who demand excellence of performance in their record changers. Plays all types of records - 33 1/2, 45, 78 RPM. Plays all types of records regardless of diameter (7", 10", or 12") or size of spindle hole. Player action is simple and easy, entirely automatic, with unfailing switch-off end of last record. Extremely simple to operate. Has one turntable, one tone arm, one set of switches. Tone arm is jewel mounted. Reject lever allows instant rejection of any record. Minimum mounting space required as follows: 15 1/2" long, 13 1/4" wide with 5 3/4" clearance above and 3 1/2" clearance below top of motor board. With two interchangeable plug-in heads for cartridges, such as GE, Pickering, etc., hardware, 6' line cord, and 4' pickup cable. Less cartridges. For operation on 100/130, 200/250 VAC 60 cycle. Does not include 45 RPM spindle, Shpg. Wgt. 20 lbs.

MODEL RC-80, Net.....\$ 48.51
45 RPM SPINDLE, Net.....\$ 3.47
WB-80/90 WOOD BASE for RC-80 or RC-90, Net.....\$ 5.83
GX-80 GARRARD SHELL with turnover cartridge for RC-80, Net.....\$ 5.88
EXTRA SHELLS, Net.....\$ 1.50
50 CYCLE ADAPTER, Net.....\$.75
DRIVE BELT for RC-80, Net.....\$.22



Finest changer in Garrard's history. Has new and exclusive features such as four-pole motor which is adjustable on all speeds by means of eddy current brake control, not mechanically. Manual position for playing single records. Fast change cycle, regardless of speed of turntable. Improved pulley drive, no belts. Plays all records, all speeds - 7", 10", 12", 33 1/2, 45, 78 RPM. Mechanism stops after last record and tone arm returns to rest position. Muting switch for silence during change cycle. Drive wheel retracts during change cycle and when switched off assuring no flat surfaces to cause "wow". Supplied with two pickup heads which accommodate all model cartridges, magnetic or crystal, 15 3/4"W., 13 3/4"D., 5 3/4" above motor board, 4" below motor board, (fits former Garrard motor boards). Unit plate and tone arm finished in high gloss enamel, chrome accessories. Complete with spring mountings, 6' line cord, 4' pickup cable, hardware, template, and instruction manual. Less cartridges and 45 RPM spindle. Operates on 100/130, 200/250 VAC 60 cycle. Shpg. Wgt. 25 lbs.

MODEL RC-90, Net.....\$ 68.11
45 RPM SPINDLE, Net.....\$ 3.47
WB-80/90 WOOD BASE for RC-80 or RC-90, Net.....\$ 5.83
GX/T90 GARRARD SHELL with turnover cartridge for RC-90 and Crest, Net..\$ 5.88
50 CYCLE ADAPTER, Net.....\$.75
EXTRA SHELLS, Net.....\$ 1.50

GARRARD PRESSURE GAUGE



STYLUS PRESSURE GAUGE. Simple, accurate, inexpensive instrument to measure stylus pressure of microgroove pickups. Scale calibrated 0-15 grammes. Net \$ 2.45

CLARKSTAN ARM FOR MICROGROOVE OR STANDARD



"Trionic" arm available in two lengths for home or professional use. Slide-in cartridge holder allows instantaneous mounting. Any cartridge not over 3/4" wide may be used. Height adjustment from 1 1/4" to 2 1/4" above base plane. Weight adjustment with any pickup from 5 grams up. Vertical roller bearing. Low arm resonance, aluminum castings. Finish grey wrinkle, brushed chrome. Less cartridge. Shpg. Wgt. 6 lbs.

NO. 213 12" Arm Net \$ 21.56
NO. 212 16" Arm 22.05
NO. 213G 12", For GE Head Net \$ 21.56
NO. 212G 16", For GE Head 22.05

CLARKSTAN

NEEDLE FORCE GAUGE

IMPROVED

Model 301



For measuring needle pressure of pickups including new Microgroove. Two scales: in grams to 1 oz., other scale in ounces reads to 4 oz. One moving part.

MODEL 301 Net \$ 1.47



CLARKSTAN

STROBOSCOPIC CARD

NO. 610-STROBOSCOPIC CARD. For checking turntable speed of microgroove and standard records. 33-1/3 RPM, 45 RPM, 78 RPM. Includes replaceable punch-out for 1 1/2" center hole for 45 RPM records. Printed by letter press on quality enameled stock. Net \$.15

"Your trade-in's worth more at the **WALTER ASHE STORE**"

V-M tri-o-matic RECORD CHANGERS



45 rpm
33 1/3 rpm
78 rpm



RECORD CHANGERS

HIGH FIDELITY

Model 935HF Record Changer

MODEL 935HF. Custom-precision quality record changer for the high fidelity fan who wants the best. Records may also be played manually. Exclusive four-pole, four-coil motor, no hum, rumble or wows. Completely jamproof mechanism. Records are lowered, not dropped on extra heavily-flocked weighted and balanced turntable. Two plug-in tone arm heads supplied; adaptable to GE "Triple-Play" or single stylus cartridges, Clarkstan or other magnetic types. Balanced, die-cast aluminum tone arm is resonance-free, easy to adjust to exact needle pressure. Cartridges requiring less than 5 grams pressure may be used. Muting switch for silence during change cycle. Completely automatic shutoff, changer shuts off after last record is played. Record capacity: 10-12", 12-10", 14-7". Positive intermix of any ten 12" or 10" of same speed. VM 45 spindle included with unit. Size: 13 1/2 x 13 1/4 x 8 1/4". Beautiful gold base-plate, burgundy tone arm record support arm, control knob. For operation on 117 VAC. U/L approved. Requires preamp. (Not supplied). Less cartridge. Shpg. Wt. 12 1/2 lbs. Net \$ 38.97

Model 936HF Changer Attachment



MODEL 936HF. Same changer as listed above but mounted on metal base. Shpg. Wgt. 18 1/2 lbs. Net \$ 45.47

VM-45 SPINDLE. With this spindle, you can play a stack of 12 large-center hole records without the bothersome task of inserting center-hole adapters in each record. Simple to use, simply slide down over present spindle when playing 45 RPM records. Fits all current and older models of VM changers. Net \$ 1.88

No. VM-3994, 50 cycle adapter for Models 951, 951GE, 956, 956GE, 920. Net \$.07

V-M

AUTOMATIC

record changer attachment



MODEL 920. Plays all size records, 7", 10", 12" all speeds, 33-1/3, 45, 78 RPM Fully automatic. 10" and 12" of same speed may be intermixed. Plays 10-12", 12-10", 14-7". Simple one-knob control, load changer, set speed and needle and listen. Shuts off after last record. Has turnover crystal cartridge with .001 and .003 stylus. Unit may be wired into your radio or amplifier so that entire system shuts off after last record. Mahogany plastic base with gold accessories. Size 11 1/2 x 9 1/2 x 7 1/4". Complete with 6-ft. AC cord, 4-ft. shielded phono lead. For 117 VAC. Shpg. Wgt. 10 lbs. Net \$ 29.95

CLARKSTAN RECORDING MICROSCOPE



MODEL 232 MICROSCOPE. For use in laboratory, shop, or production. Excellent for inspecting record grooves. Built-in illumination, measuring scale (reticle) and high quality optics which are usually found only in much higher priced instruments. Magnification, 20X and 40X, high resolving power. Direct measurements of .002" and .004". Finished in black Du Lite, polished nickel and maroon baked enamel. Complete in dovetailed wood carrying case. Net \$ 24.01

UNIVERSAL

FREQUENCY RECORD

Double sided, 78 and 33-1/3 RPM, 96 lines per inch. Low surface noise. Vinyl. 50-10,000 CPS. 19 spot check frequencies. 15 seconds of unmodulated grooves for rumble measurements. Voice announcements clearly identify each frequency band. Shpg. Wgt. 12 oz. Net \$ 2.50

STORE HOURS:

9:00 A. M. to 5:30 P. M.

Monday through Saturday

SHOP IN COMFORT IN OUR

AIR CONDITIONED STORE

Changer Attachment



MODEL 956. Same as Model 951, mounted on "plug-in" base. Shpg. Wgt. 14 1/2 lbs. Net \$ 32.66

MODEL 956-GE. Same as Model 951-GE, mounted on "plug-in" base. Shpg. Wgt. 15 1/2 lbs. Net \$ 35.91

V-M 45 Spindle Accessory



32 NEED NEW TEST EQUIPMENT?-We'll Trade In Your Old Units!

PHONOGRAPH MOTORS

AUDIO-HI-FI

GENERAL INDUSTRIES
Smooth Power PHONOGRAPH MOTORS,
RECORDERS AND RECORD CHANGER-RECORDERS

PHONOMOTOR FOR HIGH FIDELITY



An excellent motor for high fidelity reception. Quality reproduction on 78, 45, and 33-1/3 RPM. Four-pole, four-coil 3 speed motor with speed changes accomplished by vertical movement of idler wheel to appropriate diameter of motor shaft. Precision construction throughout assembly features oilless bearings in motor and turntable. Dynamically balanced rotor. Complete with 10" turntable, speed indicator dial, 45 RPM record adaptor, on-off switch. Size 6-1/16L x 6-1/2 W x 4 1/2 H. For operation on 115 VAC 60 cy. Shp. Wgt. 6 1/2 lb.

MODEL DSS Net \$ 14.70



MODEL RM SERIES. Heavy-duty rim drive 4-pole motor. Rubber insulated from both mounting plate and turntable for exceptionally quiet operation. Turntable shaft revolves with turntable and is grooved for holding clip. Retractable pin for holding home recordings firm does not interfere with regular records. Size: length, 3-3/8, width, 3-3/8, depth 2-15/16 below mounting plate. Complete with 10" weighted turntable and mounting plate. For operation on 115 VAC. 60 cy. Shpg. Wgt. 9 lbs.

RM-4	79 RPM	Net \$ 11.70
RM-4-3	33 1/3 RPM	12.15
RM-4-45	45 RPM	12.15



MODEL LX SERIES. Rim drive 2-pole motors. Rubber insulated from both mounting plate and turntable for quiet operation. Turntable shaft revolves with turntable and is grooved for clip. Size: length, 3 1/2, width, 2, depth, 2-5/16 below mounting plate. Complete with 9" turntable and mounting plate. All models for operation on 115 VAC, 60 cy.

LX	78 RPM	Net \$ 4.32
LX-3	33 1/3 RPM	5.04
LX-45	45 RPM	5.04

GENERAL INDUSTRIES



DELUXE DUAL SPEED PHONOMOTOR

HOME RECORDING PHONO ASSEMBLIES



MODEL GI-R85L - LP, 78 and 33 1/3 RPM with conversion spring for changing 33 1/3 RPM speed to 45 RPM.

MODEL GI-R90L - STANDARD. 78 and 33 1/3 RPM.

Model GI-R90L is the standard model which cuts 120 lines per inch and plays back records with standard needle pressure. The Model GI-R85L incorporates a dual purpose pickup cartridge and an excellent and simple adjustment for playing the LP records and standard records. Cuts 160 lines per inch. Conversion spring for changing the 33 1/3 RPM speed to 45 RPM with mounting instructions furnished. Both models cut records up to 10" diameter, play records up to 12" diameter. Dynamically-balanced, rim drive, 4-pole motor. Assembly includes dual speed motor; 10" weighted turntable; cutting mechanism; crystal pickup; compensation switch; pickup and cutter arm rests; drawn steel base plate with formed down edges. Size: 15" wide, 11 1/2" front-to-back, height 2 1/2", depth below base plate 3 1/2". Operates on 115 VAC 60 cycles. Shpg. Wgt. 17 lbs.

GI-R85L. With crystal cutter. Net...\$ 33.90

GI-R85L. With magnetic cutter..... 35.10

GI-R90L. With crystal cutter. Net...\$ 31.20

GI-R90L. With magnetic cutter..... 32.40

3-SPEED PHONO MOTOR



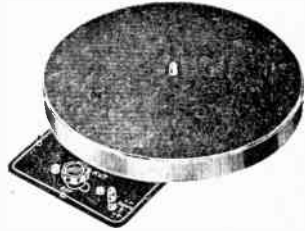
MODEL TR. Deluxe 3-speed rim drive, 2-pole motor. Has turntable speeds of 33 1/3, 45, 78 RPM. Change of speeds accomplished by throwing lever to desired position. Has 3 separate pulleys which run on oil impregnated bearings, 2 pulleys not being used remain stationary. Size: length, 3-1/8, width, 2 1/2, depth, 2 1/2. Complete with 9" turntable. For use on 115 VAC. 60 cy. Shpg. Wgt. 4 lbs. Net \$ 7.26

MODEL LR. Deluxe 2-speed (78, 33 1/3 RPM) motor. Uses 4-pole motor with simple and positive mechanism for shifting from one speed to another. Speed change is accomplished by means of an external push-pull lever, an ingenious mechanism raises and lowers the entire idler assembly, disengages the idler wheel from the two diameter motor shaft and moves the idler wheel from one diameter to the other assuring positive action. Size: length, 6, width, 5-5/8, depth, 2-5/8, below mounting plate. Complete with 10" turntable and mounting plate. For operation on 115 VAC. 60 cy. Shpg. Wgt. 4 1/2 lbs. Net \$ 13.05

REK-O-KUT

Model LP-743 3-Speed

Turntable



3-SPEED PRECISION TURNTABLE. 12" turntable which plays all speeds of records and transcriptions, 33 1/3, 45, 78 RPM. For the discriminating high fidelity operator who requires vibration-free, quiet performance. Four pole, constant speed induction motor. Instantaneous speed shift, not necessary to stop turntable or remove disc. Heavy gauge steel plate chassis, finish is Hammerstone grey. Size: 12x15", height above chassis 1 1/2", depth below chassis 5". Operates from 110-120 VAC 60 cycles. Shpg. Wgt. 15 lbs.

MODEL LP-743. Net.....\$ 59.50

CLARKSTAN



STROBOSCOPIC CARD

Brand new stroboscope which will check all speeds of record playing equipment, 33-1/3, 45, 78 RPM at both 50 and 60 cy.

NO. 610

Net \$ 1.10

AUDIO DEVICES

CHIP-CHASER



For disc recorders. Has heavy base which is placed beside the turntable, require no fastening down or adjusting. Fits ar machine or turntable. Wiper blade is set on disc before starting to record. Chip Chaser rushes thread towards the center and winds thread on center post. Nothir to get out of adjustment. Tips up out c way when not in use. Will not scratch c damage recording. Shpg. Wgt. 3 lbs.

For 12" Turntable
For 16" Turntable

Net \$ 3.45
4.10

"Your trade-in's worth more at the **WALTER ASHE STORE**"

REPLACEMENT PICKUP

CARTRIDGES



Type	Record	Needle Supplied	Output Voltage	Response	Needle Pressure	Net Each
14L3	33-45	M-.001	2.4	50-4,000	10 gr.	\$ 4.12
14L3-AG	All	M-.002	2.4	50-4,000	10	4.12
14L3-78	78	M-.003	2.4	50-4,000	10	4.12
14L3-D*	All	M-.001-.003	2.4	50-4,000	10	5.00
15L3	33-45	M-.001	3.5	50-5,000	10	4.12
15L3-AG	All	M-.002	3.5	50-5,000	10	4.12
15L3-78	78	M-.003	3.5	50-5,000	10	4.12
15L3-D*	All	M-.001-.003	3.5	50-4,000	10	5.00
16L3	All	None	4.0	50-5,000	16	3.53
401-A	Replacement for RCA.					
402-M	Snap-in Replacement for Admiral 78 RPM, Pt. A-1372.					
403-J	Replaces RCA 70338, 70339, 72551.					
AC-AG-J	All	J-.002	1.0	50-10,000	6 gr.	3.82
AC-C-AG-J	All	J-.002	0.4	50-6,000	6	3.82
AC-C-J	33-45	J-.001	0.4	50-6,000	5	3.82
AC-C-78-J	78	J-.003	0.4	50-6,000	6	3.82
ACD-C-J*	All	J-.001-.003	0.4	50-5,000	6	5.48
ACD-C-1J	Some as ACD-C-J except equipped with spindle for turnover knob. Replacement cartridge for ACD-C-2J assembly.					
ACD-C-2J	Same as ACD-C-J except equipped with complete assembly turnover and knob.					
ACD-J*	All	J-.001-.003	1.0	50-6,000	6 gr.	5.88
ACD-1J	Same as ACD-J except equipped with spindle for turnover knob. Replacement cartridge for ACD-2J assembly.					
ACD-2J	Same as ACD-J except equipped with turnover bracket and knob.					
AC-J	33-45	J-.001	1.0	50-10,000	5 gr.	3.82
AC-78-J	78	J-.001	1.0	50-10,000	6	3.82
AC-R-J	33-45	Replacement for RCA Pt. 76257 with mounting bracket. .456" hole center.				5.23
8-2	78	Optional	2.5	50-4,000	2 1/2 oz.	3.26
CAC-AG-J	All	J-.002	1.35	30-11,000	10 gr.	4.41
CAC-D-J*	All	J-.001-.003	0.7	30-11,000	10	6.17
CAC-J	33-45	J-.001	1.0	30-11,000	6	4.41
CAC-78-J	78	J-.003	1.35	30-11,000	10	4.41
CAC-W-J	Same as CAC-J with special fittings and terminals for easy installation in plug-in heads.					
CAC-78-W-J	Same as CAC-78-J with special fittings and terminals for easy installation in plug-in heads.					
GC-AG-J	All	J-.002	0.7	50-10,000	8	4.35
GC-J	33-45	J-.001	0.55	50-10,000	6	4.35
GC-78-J	78	J-.003	0.7	50-10,000	12	4.35
L-12	78	None	4.0	50-5,000	1 oz.	2.94
L-29	All	None	3.0	50-5,000	10 gr.	3.53
L-78	78	Special PN crystal for Soeburg Changers.				6.56
L-26-A	78	None	1.4	50-4,500	2 1/2 oz.	2.94
L-40-A	78	None	0.6	50-4,500	1 1/2	2.94
L-70-A	78	None	1.0	50-4,000	1 1/2	3.26
L-72-A	78	None	3.5	50-4,000	1 1/2	3.91
L-74-A	78	None	1.4	50-000	1 1/2	5.88
L-82-A	78	None	3.5	50-5,000	1 1/2	3.26
L-92-A	78	None	2.25	50-7,000	1	3.53
LQD-J*	All	J-.001-.003	1.0	50-7,000	8 gr.	5.58
LQD-1J	Same as LQD-J but equipped with needle guards and spindle for turnover knob.					
LQD-1JB	Same as LQD-J but equipped with complete turnover assembly and knob.					
LT-4AG	All	M-.002	2.0	50-5,000	8	4.12
L-12-U	78	None	1.25 or 4.0	50-5,000	1 oz.	3.23
M-22	78	None	2.9	50-6,500	2 1/2	3.26
P-7	Replacement for Philco 35-2671, 35-2671-1.					
U-J	33-45	J-.001	0.5	30-10,000	5 gr.	5.23
U-78-J	78	J-.003	0.5	30-10,000	5	5.23
QT-2J	78	J-.003	0.85	50-10,000	3/4 oz.	5.23
QT-2J-PN	78	J-.003	0.3	50-10,000	1	6.85
S1-1J	33-45	J-.003	0.7	50-15,000	8 gr.	4.35
S1-2J	All	J-.002	0.7	50-15,000	8	4.35
S1-3J	78	J-.003	0.7	50-15,000	8	4.35
S3-1J	33-45	J-.001	0.7	50-15,000	8	4.35
S3-2J	All	J-.002	0.7	50-15,000	8	4.35
S3-3J	78	J-.003	0.7	50-15,000	8	4.35
S5-T-J*	All	J-.001-.003	0.8	50-15,000	10	5.58

* TURNOVER TYPE. M. - PRECIOUS METAL. J. - SAPPHIRE TIP.
 † CERAMIC TYPE.

PHONOGRAPH PICKUPS

FOR LONG PLAYING RECORDS

MODEL P-CAC. Designed to meet requirements of long playing records. Frequency range: 30 to 11,000 CPS. Output: 1.0 V. at 1000 CPS. Has replaceable stylus, sapphire tipped .001, for all 33-1/3 and 45 RPM records. Overall length 8 1/4". mounts in 1/2" hole. 13" super-flexible, single conductor cable. Plays all records up to 12". Finished in Grey Hammerlin. Shpg. Wgt. 1 lb. Net \$ 6.32

FOR 78 RPM RECORDS

MODEL P-12. High quality, low priced pickup for playing all 78 RPM records up to 12" diameter. Curved arm with spring counterbalance for correct stylus pressure. Frequency range: 50 to 5,000 CPS. Output: 4.0 volts at 1000 CPS. Stylus pressure 1 oz. Stylus not included. 13" leads. Finished in Brown Hammerlin. Shpg. Wgt. 1 lb. Net \$ 3.53



WITH TURNOVER CARTRIDGE FOR V-M CHANGERS

MODEL 9-D. Turnover pickup assembly with Astatic "CAC" twin cartridge. Replaces V-M Models 920, 950, 955, 970, 971, 980, 985, etc. and similar makes. Simple instructions included, no tools but screw driver needed. Independent needles, free of interaction. Sapphire needle for 45-33-1/3 records, Osmium needle for 78 RPM. Net \$ 6.76



FOR WEBSTER-CHICAGO CHANGERS

ASTATIC 8-D FLIP-OVER ARM AND CARTRIDGE. Replacement arm and cartridge complete with needles for standard and micro-groove records. Exact replacement for Models 356, 346, 256, 246, 355, etc. No tools other than screwdriver needed, no soldering necessary. Shpg. Wgt. 1 lb. No. 8-D Net \$ 6.76



7-D TURNOVER PICKUP

MODEL 7-D. Plays all records 8 grams needle pressure. Turnover type pickup with double needle crystal cartridge. Switches from playing 33-1/3 or 45 RPM records to standard 78 RPM records with turn of knob at front end of tone arm. Unique in its ability to play both types of records at low pressure. Needs no extra mechanism to change pressure when knob is turned. Sapphire needle for long plays, 33-1/3 - 45, and precious metal point for standard 78. Needles easily replaceable. Mounts 7" from turntable center. Response: 50-6000 CPS. Finished in dark brown Hammerlin. Complete with cartridge. Shpg. Wgt. 2 lbs. Net \$ 9.35



400-D TURNOVER PICKUP

MODEL 400-D. Turnover type transcription pickup. Plays 33-1/3, 45 or 78 RPM records, 10", 12" or 16", at 8 grams needle pressure. Uses LQD-1 dual needle crystal cartridge. Excellent response, 50-7,000 CPS. Finished in light brown hammerlin. Shpg. Wgt. 1 1/2 lbs. Net \$ 14.70



RECORDING HEADS

Superior qualities of these cutting heads are due to high order of needle stiffness, excellent power sensitivity and wide range response. Replacements for most every type of cutter now in use in home recorders. Shpg. Wgt. 8 oz.



X-26



M-41

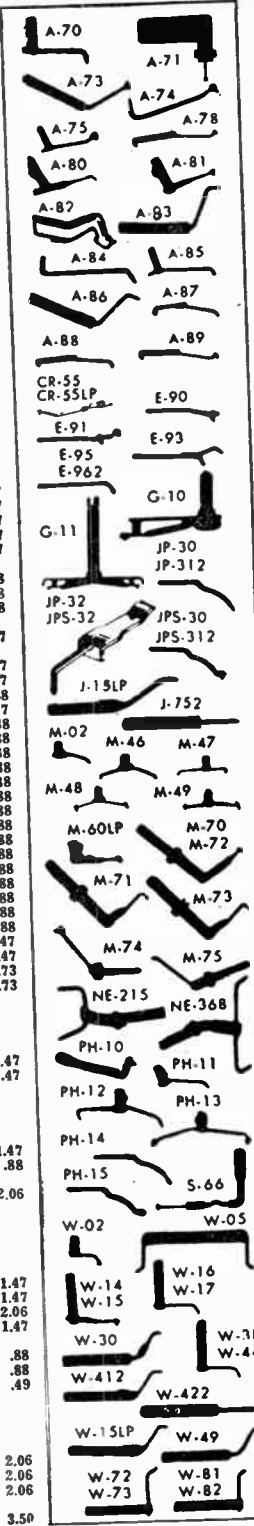
Number	Type	Max. Rec. Voltage	Upper Useful Limit	Net
X-26	Crystal	150V RMS	6000 CPS	\$ 7.53
M-41-8	Magnetic (8 ohms)	3V RMS	7000	7.53
M-41-500	Magnetic (500 ohms)	30V RMS	7000	7.53

JENSEN EXACT REPLACEMENT NEEDLES

AUDIO-HI-FI

Complete line of exact replacement needles for all popular phono cartridges. Figures in point column indicate point size. 1 = .001" micro-groove for 33½ and 45 rpm; 2 = .002" for all 3 speeds; 3 = .003" standard for 78 rpm; ½ = twin needle. .001" and .003"; 2.5 = .0025" transcription. Needles with sapphire points, indicated by asterisk (*); others have osmium points. Illustrations (except GE-11 and S-66) are exact size. Illustrations showing .003" needles apply also to corresponding .001" and .002" stock numbers.

Jensen Type	Point	For Cartridge Type No.	Net
For Astatic Cartridges			
A-70	3	14L3-78M; 15L3-78M; 14L3D; 15L3D	.88
A-70LP	1	14L3-M; 15L3-M; 14L3D; 15L3D	.88
A-702	2	14L3-AG-M; 15L3-AG-M	2.06
A-71	½	GC-DM, GC-DJ	1.47
A-73	3	LT-3D; LT-4D	1.47
A-73LP	1*	LT-3D; LT-4; LT-4D	1.47
A-732	3*	LT-4-AG; LT-5-AG	1.47
A-74	3	GC-78-J	1.47
A-74LP	1*	GC-J; GC-1J	1.47
A-742	2*	GC-AG-J	1.47
A-75	3*	AC-78; ACD Series; 10L3; 11L3	1.47
A-75LP	1*	AC; ACD Ser; 10L3; 11L3	1.47
A-752	2*	AC-AG-J	1.47
A-78	3*	U-78-J	1.47
A-78LP	1*	U-J	1.47
A-80	3	QT-M; QT2-M; QT3-M; LQD; LQD-1; CAC Series	.88
A-80LP	1	CQ-M; LQD; LQD-1; CAC Series	.88
A-802	2	CQ-AG-M; CAC-AG-M	.88
A-81	3*	QT-J; QT2-J; QT3-J; LQD; LQD-1; CAC Series	1.47
A-81LP	1*	QT-33-J; CQJ; LQD; LQD-1; CAC Series	1.47
A-812	2*	CQ-AG-J; CAC-AG-J	1.47
A-82	3	Nylon 1M	.88
A-82S	3*	Nylon 1J	1.47
A-83	3	LT-3D; LT-4D; LT-4D1; MD	.88
A-83LP	1	LT-3D; LT-4; LT-4D; LT-4D1	.88
A-832	2	LT-4-AG; LT-5-AG	.88
A-84	3	GC-78-M; MG-78-M; 402-M	.88
A-84LP	1	GC-M; GC-1M; MG-1M	.88
A-842	2	GC-AG-M; MG-AG-M	.88
A-85	3	AC-78; ACD Series; 10L3; 11L3	.88
A-85LP	1	AC; ACD Ser; 10L3; 11L3	.88
A-852	2	AC-AG-M	.88
A-86	3	LT1-M; LT2-M; LT3-M	.88
A-86LP	1	LT-33	.88
A-87	3	MD-3 Markel Playmaster	.88
A-87LP	1	MD-1 Markel Playmaster	.88
A-88	3	U-78-M	.88
A-88LP	1	U-M	.88
A-89	3*	MD-3 Markel Playmaster	1.47
A-89LP	1*	MD-1 Markel Playmaster	1.47
J-15LP	1	L-92-33	.73
J-152	2	L-92; 16L3	.73
For Collaro Cartridges			
CR-55	3*	Studio O, Studio P	1.47
CR-55LP	1*	Studio O, Studio P	1.47
For Columbia Cartridges			
A-81LP	1*	CQ; CAC-J	1.47
M-60LP	1*	45-1609; 45-1612	.88
S-66	½	W9980-S; W9980-SD (both for 360).	2.06
For Electro-Voice Cartridges			
E-90	3*	10; 30; 40; Series 12,	1.47
E-90LP	1*	32, 42, 36, 46, 96	1.47
E-902	2*	Series 33, 43; Admiral 409A13-1	2.06
E-91	½	16TT; 22TT	1.47
E-93	3	16TT; 22TT	1.47
E-95	3	10; 30; 40; Series 12,	.88
E-95LP	1	32, 42, 36, 46, 96	.88
E-962	2	Series 33, 43; Admiral 409A13-1	.49
J-752	2	50; 60	.88
For G-E Cartridges			
G-10	3*	RPX-040; RPX-041;	2.06
G-10LP	1*	RPX-042; RPX-046;	2.06
G-1025	2.5*	RPX-041; RPX-063.	2.06
G-11	½	RPX-047; RPX-050; RPX-051; RPX-052; RPX-053	3.50

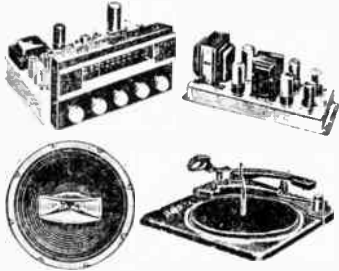


Jensen Type	Point	For Cartridge Type No.	Net
For Magnavox Cartridges			
M-02	3	560101	.88
M-46	½	560133	1.47
M-47	½	560151-5	1.47
M-48	½	560133-4	2.06
M-49	½	560151-6	2.06
S-66	½	560161-1	2.06
For Philco Cartridges			
PH-10	3*	76-1622 Dyn. Reproducer	1.32
PH-11	1	45-1609; 45-1612	.88
PH-12	½	78-4649	1.47
PH-13	½	78-4649	2.06
M-60LP	1*	45-1609; 45-1612	.88
PH-14	3	35-2671; 35-2674	.88
PH-15	3*	35-2671; 35-2674	1.18
For RCA Cartridges			
M-70	3*	70338; 70339; 72551	2.32
M-70LP	1*	74067	.94
M-71	3	70338; 70339; 72551	1.18
M-71LP	1	74067	.88
M-72	3*	9890; 39919; 39550; 38598;	2.32
		70332; 39851	
M-73	3	9890; 39919; 39550; 38598;	1.18
M-74	3*	75475; 77779	1.47
M-74LP	1*	75475; 74625; 75575;	1.47
		76318; 77779	
M-75	3	75475	.88
M-75LP	1	75475	.88
For Shure Cartridges			
JP-30	3	P30; P57; P70; P72; P76; P77; P79; P85; P88; P89; P94; PN30; W22AB; WC22AB; W23B; W60B; W60HS; W60FN; W61B; W65B; Admiral 409A11	.88
JP-30LP	1	P73; P72V; P76V; W21F; Admiral 409A11	.88
JP-312	2	P71; P81; P37; W26B; W66B; Admiral 409A13	.88
JPS-30	3*	P30; P57; P70; P72; P76; P77; P79; P85; P88; P89; P94; PN30; W22A; W23A; W26B; W60A; W66B; Admiral 409A13	1.47
JPS-30LP	1*	P73; P72V; P76V; W21A; W21AR; W22A; W22AB; WC22AB; Admiral 409A11	1.47
JPS-312	2*	P71; P81; P37; P81AD; W26A; Admiral 409A13	1.47
JP-32	3	WC33B; WC24; PC40; PC9	.88
JP-32LP	1	W31AR; WC31AR; WC24; PC40; PC11	.88
JP-322	2	WC33B; WC26; PC10	.88
JPS-32	3*	WC33B; WC24; PC40; PC9	1.47
JPS-32LP	1*	W31AR; WC31AR; WC24; PC40; PC11	1.47
JPS-322	2*	W36B; WC33B; PC10	1.47
J-15LP	1	P93MG; P95MG; W53MG	.73
J-752	2	P93MG; P95MG; W53MG	.49
For Webster-Chicago Cartridges			
NE-215	½	21P247; 21P402; 21P403	2.35
NE-368	½	21P404	2.35
For Webster Electric Cartridges			
W-02	3	M-1	.88
W-05	½	F14; F14-1; F14-2; F14-3; F14-4	1.47
W-14	3*	A1; A7; A8	1.47
W-15	1*	A1; A2; A3; A4; A5; A6; A7; A8	1.47
W-15LP	1	F7; F7-1; F7-2; Q2; F13	.81
W-16	3	A1M; A1M-1; A5M; A6M; A7M	.81
W-17	1	A1M; A1M-1; A2M; A5M; A6M; A7M	.81
W-30	3	Q1	.81
W-38	2	A9M; A9-1; A11	.81
W-412	2	Q3; A9; F-13	.81
W-422	2	C9; C10	.81
W-44	3	F20	.81
W-44LP	1	F20	.81
W-49	3	Q2	.81
W-72	3	F16; F16-1; F16-2	.81
W-73	1	F16; F16-1; F16-2	.81
W-81	3	F15; F15-1; F18; F19	.81
W-82	1	F15; F15-1; F18; F19	.81
JP-30	3	F10; F11; F11-1	.81
JP-30LP	1	F11; F11-1	.81

"Your trade-in's worth more at the WALTER ASHE STORE" 35

craftsmen
"Assembly"

high fidelity home music system



THE CRAFTSMEN ASSEMBLY. Consists of Craftsman C-10 FM-AM Tuner, C-400 Audio Amplifier, C-20 Woofer and Tweeter, coaxially mounted speaker, and C-30 3-speed Record Changer. Changer face is chrome plated and features built-in dual sapphire cartridge. In addition to four basic components, the "Assembly" includes all hardware, escutcheons, connecting cables, instructions, changer mounting board, and actual working plans for several different kinds of installations, drawings of typical cabinets including horn-loaded corner types. All units except C-30 Changer are available separately. No technical knowledge is needed to gain a professional job. Complete system packed in one carton, approximate shipping weight 80 lbs. Net..\$ 275.00

C-10 TUNER. Receives both FM-AM signals, standard broadcast band and FM band 88-108 MC. Built-in preamp for GE dual sapphire-tipped cartridge. Inputs for TV and phono as well as two power outlets for changer etc. are controlled from front panel switch. Has continuously variable bass and treble controls. Frequency response 20-20,000 CPS, 11 tubes plus rectifier. Effective AFC control. Chassis finished in polished aluminum. Size: 13x9x7". C-10 tuner only. Net \$ 131.50

C-400 AMPLIFIER. High fidelity amplifier with response of 15-20,000 CPS. PP 6V6GT in output stage. Size 14x4x5 1/2". Chassis finished in polished chromium. C-400 amplifier only. Net \$ 42.90

C-20 SPEAKER. High fidelity speaker with frequency response of 40-16,000 CPS. Has 12" woofer with 24 oz. magnet and 2" VC. Horn loaded tweeter with wide angle dispersion. 2000 CPS crossover. Speaker only. Net \$ 49.50

C-30 CHANGER. Three speed, 33-1/3, 45, 78 RPM; all size records, 7-10-12". New 4-pole, sturdy, quiet motor. Especially designed for high fidelity listening. Automatic shut-off, low resonance arm. Dual-sapphire stylus installed in GE reluctance "Triple-Play" cartridge. Chrome plated base plate. Not available separately.

audiopoints



SAPPHIRE CUTTERS

SAPPHIRE point with Dural shank for most exacting uses in broadcast & all professional recordings. Disc tested to rigid specifications. Individually packaged.

Number		Net
14L	Long Shank	\$ 4.85
14S	Short Shank	4.85
	Lots of 2 or more, each	4.41
	Resharpening of No. 14	2.45

STELLITE CUTTERS

STELLITE with Dural shank. Excellent cutting qualities. With care will give several hours of fine recording.

Number		Net
34L	Long Shank	\$ 1.29
34S	Short Shank	1.29
	Lots of 3 or more, each	1.18
	Resharpening of No. 34	.91

AUDIPOINTS PLAYBACK

A practical playback needle for general use. Matched to Audio Recording Stylus. 100% shadow-graphed.

No. 151	Box of 100	Net \$.73
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TONE ARM

Model LPX-006. Tone arm for playing 33-1/3, 45 and 78 RPM records. Equipped with RPX-050 triple play cartridge. Net \$ 11.73



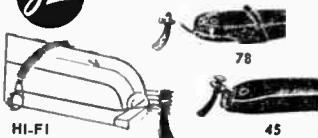
WIRELESS

PHONO OSCILLATOR

MODEL NO-6 WIRELESS PHONO OSCILLATOR. Compact unit designed to enable any standard record player to be easily and simply converted to wireless operation. Records can then be played through any standard receiver without wires. Frequency can be set to operate approx. 1100-2150 KC. Complete with tube, finished in black wrinkle enamel. Size: 4 1/2 x 2 x 2". Net \$ 8.82



RECORD BRUSH



Soft record brush in holder which fits all types of tone arms and pickups. Clip the brush onto front of tone arm, adjust brush to proper pressure. Three types available for 78 RPM, multiple speed, and new turn-over hi-fi type.

NO. 78.	Net.....	\$.59
NO. 45.	Net.....	.59
NO. HI-FI.	Net.....	.59

Jensen

CONVENTIONAL NEEDLES



No. 5. Durosium tipped, bent shank. For standard records. Net \$.29
No. 10. Durosium tip deluxe, bent shank. For standard records. Net \$.59



No. 15. Classic. Special spring construction, durosium tip, 78 RPM. Net \$.88
No. J-15-LP. Classic. Durosium tipped, plays microgroove records, 45 or 33-1-3. Net \$.73



No. 25. Royal. Sapphire tip, bent shank. For standard records. Net \$ 1.47



No. 75. Durosium tip, straight shank. For standard records. Net \$.44



No. J-752. All-purpose, durosium tipped straight shank. Plays 78-45-33-1/3 discs. Net \$.49



No. "NY". Nylon shank with sapphire or durosium tips. Microgroove, standard or all purpose available as follows.

Std.	NY-253S	\$ 1.47	NY-153D	\$.88
Micro.	NY-251S	1.47	NY-151D	.88
All-Pur.	NY-252S	1.47	NY-152D	.88

S-Sapphire D-Durosium

DUOTONE CUTTING NEEDLES



No. 12 SAPPHIRE STYLUS CUTTER. A professional cutting needle with highly polished jewel and hand-lapped edge. Will give 10 to 15 hours of cutting without resharpening. May be resharpened many times.

No. 12L - Long Shank	Net Each \$ 3.23
No. 12S - Short Shank	3.23
Resharpening	1.88



No. 9 STELLITE CUTTING STYLUS. Hand-lapped edge cuts groove which assures noiseless recording. Low surface noise. Will cut approximately 500 6" records.

No. 9L - Long Shank	Net Each \$ 1.18
No. 9S - Short Shank	1.18

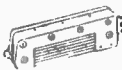


No. 10 LAPPED STEEL CUTTING STYLUS. Recommended for general home recording. Five needles on card. Net per card of 5 \$.88



No. 8 STEEL CUTTING STYLUS. Used extensively by home recording fans. Will make approximately 15 to 25 10" records. Net per package of 4 \$.59

Brush



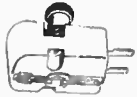
CRYSTAL CUTTER

High quality, low cost recordings. 3-watt amplifier is sufficient to drive the RC-20 cutter. Response flat within 3 DB from 50-9000 CPS. Shpp. Wgt. 2 lbs.

Model RC-20	Net \$ 14.70
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PHONOGRAPH PICKUPS - CARTRIDGES AUDIO-HI-FI

GENERAL ELECTRIC



CARTRIDGES



RPX-030 TRIPLE PLAY CARTRIDGE. Plays all records, 33-1/3, 45, 78 RPM, .001 and .003 Baton stylus with sapphire tips. A twist of the knob positions and selects proper stylus for record. Delicately balanced for light stylus pressure. Requires preamplifier. Net \$ 8.20



Variable Reluctance Cartridges with single replaceable stylus. Available in four models, .001 sapphire, .001 diamond or .003 sapphire, .003 diamond. All are designed to give high fidelity reproduction with minimum of scratch and distortion. All require preamplifier such as GE UPX-003A or equivalent.

RPX-040. Cartridge with .003 sapphire stylus for 78 RPM records. Net \$ 5.85
RPX-041. Cartridge with .001 sapphire stylus for 33-1/3, 45 RPM records. 5.85
RPX-063. Cartridge with .003 diamond stylus for 78 RPM records. 19.96
RPX-061. Cartridge with .001 diamond stylus for 33-1/3, 45 RPM records. 19.96

STYLI

REPLACEMENT STYLI FOR SINGLE STYLUS CARTRIDGES

Number	Stylus	Radius	Net
RPJ-001	Sapphire	.003	\$ 2.06
RPJ-002	Diamond	.0025	16.17
RPJ-003	Diamond	.003	16.17
RPJ-004	Diamond	.001	16.17
RPJ-005	Sapphire	.001	2.06
RPJ-006	Sapphire	.0025	2.06

REPLACEMENT STYLUS ASSEMBLIES FOR TRIPLE PLAY CARTRIDGES

Number	Stylus	Radius	Net
RPJ-007	Sapphire	.001 & .0025	\$ 3.50
RPJ-010	Sapphire	.001 & .003	3.50
RPJ-011	Diamond	.001 & .0025	29.37
RPJ-012	Diamond	.001 & .003	29.37
RPJ-013	.001 Diamond, .003 Sapphire		18.23

COMPENSATOR



MODEL A1-900 RECORD COMPENSATOR. A new adjustable high impedance passive network for use with standard type GE cartridges. Five positions, LP, AES, FLAT, GOOD early 78, POOR early 78. Connects between pickup cartridge and preamplifier input. Mounts on panel up to 3/4" thick in any position. Requires 4" behind panel. Size: 2 1/2" L., 2" W., 2" H. Shpg. Wgt. 1 lb. Net \$ 8.77

KNOB KIT. For Triple Play cartridges. Washers, spring, and long and short shank knobs.

RKP-009. Net.....\$.27

RPX-052. Popular "Golden Treasure" cartridge with reversible styli for all 3 speeds. Has .001 diamond for playing microgroove, 33-1/3, 45 RPM records, and .003 sapphire stylus for 78 RPM records. Low constant tracking pressure of 6-8 grams for all records. Needle-talk, distortion and noise level are at minimum. Simply twist positioning knob to select correct setting. Response to 15,000 cy. Cartridge case is gold plated for long wear and eye appeal. Preamp required. Net \$ 22.90

RPX-053. "Golden Treasure" cartridge, similar to above but has two diamond styli, .001 and .003 radius. Entire usable range is reproduced with uniform velocity response. Record wear is reduced to a minimum. Cartridge case is gold plated for long wear and eye appeal. Preamp required. Net \$ 34.04

BROADCAST PROFESSIONAL TYPE. Designed to match broadcast equalizers and professional equipment. Low impedance. Smooth wide range response. Will accommodate any standard GE stylus. Less the stylus.

RPX-046. For Single Stylus. Net.....\$ 6.73
RPX-047. For Triple Play Stylus..... 9.08

PREAMPLIFIER



Preamplifier with Rectifier

UPX-003A. New design self-powered preamplifier for use with all GE and similar types of magnetic or reluctance cartridges. Bass equalization 18 DB. Less distortion, lower output impedance allows output lines up to 50 feet. Completely self-contained, simply plug into 117 VAC source. Completely shielded for minimum hum pickup. Uses 1-6SC7 tube. Easy to install. size 3-5/8x3-5/8x1-1/4". Shpg. Wgt. 1 1/2 lbs. Net \$ 10.55

PICKERING

PICKUP ARM



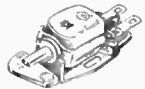
PICKUP ARM. Designed to minimize record and stylus wear, cut down distortion, reduce tracking error. No spurious arm resonance at any frequency. Rugged, trouble-free bearings. Plays all size records to 17 1/2". Height adjustment for turntables from 1/2" to 2" high. One hole mounting and self-contained leveling screws. Plug-in cartridge holder. Magnetic arm reset. Accommodates practically any type of cartridge. Less cartridge. Shpg. Wgt. 2 lbs.

MODEL 190-D. Net.....\$ 31.50

PICKERING

QUALITY

AUDIO COMPONENTS



DUAL STYLUS TURNOVER PICKUP. Two separate "back-to-back" cartridges. Available with dual diamond stylus for playing all types of records (45, 33 1/3, 78 RPM), or with diamond stylus for playing 45 and 33 1/3 records and sapphire for 78 RPM records. Response 20-20,000 CPS. Magnetic cartridge has output of 30 millivolts at 10 cm per second. Mounts easily in any arm. When used in a well-balanced arm such as Pickering 190D, pickup will track all speeds from 4 to 6 grams.

MODEL 260-DS. With .001 diamond stylus for microgroove and .0027 sapphire stylus for 78 RPM. Net.....\$ 48.00

MODEL 260-DD. With .001 diamond stylus for microgroove and .0027 diamond stylus for 78 RPM. Net.....\$ 60.00



MAGNETIC CARTRIDGES. High output; response 20-20,000 CPS. Available for microgroove or standard recordings. For all high fidelity reproduction. Low distortion. Diamond or sapphire stylus. Output 50 millivolts at 10 cm per second.

Type	Stylus	Net.
S-120M	.0027 Sapphire	\$ 9.90
D-120M	.0025 Diamond	24.90
D-140S	.001 Diamond	36.00
S-140S	.001 Sapphire	15.00



PREAMPLIFIER. For Pickering and other magnetic cartridges. Feeds into any good amplifier having high impedance input. Extremely low intermodulation and harmonic distortion. Frequency response: 40-20,000 CPS. Hum level -56 DB below maximum signal. Tubes: 1-6C4, 1-6AU6, 1-6X4 (not furnished). Size: 7 1/2 x 3 1/2 x 4 1/2". Operates from 117 VAC 50/60 cycles.

MODEL 230-H. Net.....\$ 24.00

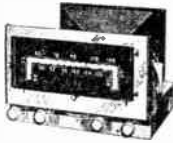
RECORD COMPENSATOR. Provides six positions with necessary flexibility required to properly equalize for all recording characteristics. Excellent companion equipment to Pickering 230-H preamplifier. High impedance input. Cable and plug supplied. Mounts in any position. Size 1 1/2" square, 3 1/4" overall, less switch shaft. Shpg. Wgt. 1 lb.

MODEL 132-E. Net.....\$ 12.00

"Your trade-in's worth more at the WALTER ASHE STORE" (37)

**MEISSNER
AM-FM TUNERS**

9AJ



MEISSNER 9AJ AM-FM TUNER CHASSIS is the answer to demand for a moderate priced unit. Complete with audio stage for direct input to speaker, no separate amplifiers needed. High sensitivity and selectivity on both AM and FM bands. Temperature compensated on FM. Full tone control. Phono input for crystal pickup. Power outlet for phono motor or changer. Built-in FM and AM antennas with provision for external antennas. Dial is fan-type with red fluorescent pointer, illuminated by two pilot lamps. 6V6 power amplifier. Chassis size 8 1/2 x 7 3/4" H. Operates from 110/120 VAC 60 cy., 65 watts. Complete with tubes, escutcheon plate, speaker plug and knobs, less transformer, speaker. Shpg. Wgt. 11 lbs.

MODEL 9AJ, Net.....\$ 77.62

TUNER FOR HI-FI AMPLIFIER

MEISSNER 8BT AM-FM TUNER CHASSIS. Same as the 9AJ Tuner but does not include the 6V6 power amplifier stage. Tuner may be used with any good quality amplifier and speaker. Shpg. Wgt., 9 lbs.

MODEL 8BT, Net.....\$ 72.77

**ELECTRO-CORDER
TELEPHONE
PICKUP**

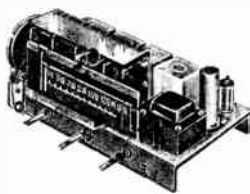


Permanently records both sides of a telephone conversation. No electrical connection to telephone. Will work with any recorder - tape, wire, or disc. Record of conversation may be kept indefinitely for future reference. High gain, high impedance. Frequency response 200-2000 CPS. Complete with 12-ft. shielded cable. Size: 6 1/2 x 8 1/2 x 1". Finished in telephone black. Shpg. Wgt. 2 1/2 lbs.

No. 1200 Net \$ 7.35

**MEISSNER
4E HI-FI**

TUNER AND KIT



MODEL 4E TRF TUNER. A completely wired tuner which receives AM signals, 540-1620 KC and is designed for simple connection to phono amplifier or PA system. Ideal for high fidelity listener or tuner for PA systems, etc. Freq. response: 40-15,000 KC. Large easy-to-read slide rule dial. Size: 11 x 7 1/2" H. Operates from 110/120 VAC 60 cy. Shpg. Wgt. 8 lbs.

MODEL 4E, Net.....\$ 41.89

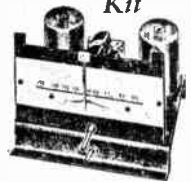
IN KIT FORM

MODEL T4EK TRF TUNER KIT. Complete kit of parts for building above tuner, less wire and solder.

MODEL T4EK, Net.....\$ 30.18

J. W. MILLER

**Crystal Band-Pass Tuner
Kit**



Miller hi-fi bandpass TRF tuner using a germanium diode detector. No hum! Simple, easy to assemble and wire. Use with your amplifier and speaker system. Local (20-25 mile range) stations. Adequate selectivity. Following parts supplied with \$585 Kit: 1 mutual coupling coil, 2 shielded TRF coils, 1 two-gang condenser, 1 slide rule dial, 1 chassis, miscellaneous hardware and data. (Resistors, condensers, germanium crystal and volume control not included). Range 540-1500 KC.

\$585 KIT

Net \$ 11.70

J. W. MILLER

High Fidelity Tuner Kit



The EL-575 Tuner Kit provides essential components to construct a hi-fi tuner for monitoring, aircheck, recording or broadcast. Flat top 20 KC bandwidth and bandpass circuits. 10 KC audio filter prevents heterodyne beat. Kit contains all coils, tuning condensers, circuit diagrams, chassis, etc. Range 540-1500 KC.

EL-575 Foundation Kit
EL-570 Coil Kit only

Net \$ 42.60
21.18

**RECORD-O-PHONE
TELEPHONE
PICKUP**



Easily attached to any recorder or amplifier in a few minutes. Works with tape, disc, or wire recorders. No electrical connections to telephone. Simply place telephone on Record-O-Phone and plug into amplifier or recorder. Records both sides of conversation. Complete with cable and plug. Size: 6 x 8 x 1 1/2". Shpg. Wgt. 2 1/2 lbs.

No. 683 Net \$ 5.85



**WALNUT
SPEAKER CABINETS**



Compact design, suitable for theaters, auditoriums, offices, and general public address applications. Non-resonant construction. Mahogany finish.

Number	Spkr. Size	Shpg. Wt.	Net
STD-5	5"	2 lbs.	\$ 2.23
STD-6	6"	4 lbs.	2.37
STD-8	8"	4 lbs.	2.94
STD-10	10"	5 lbs.	3.53
STD-12	12"	7 lbs.	4.63

PICKUPS



No. 93A - 96A. For use with standard 78 RPM records. Response to 6000 CPS. Needle force 1-1/8 oz. Shpg. Wgt. 1 lb.

No. 93A Output 1.6 V Net \$ 4.41
No. 96A Output 4.3 V 5.00

No. 902MG. For use with 33-1/3 - 45 RPM records. Response to 7500 CPS. Needle force 10 grams. Output 2V. Shpg. Wgt. 1 lb. Net \$ 6.17

No. 92U. Single needle, all purpose pickup with cartridge for playing 78-45-33-1/3 RPM records. Needle force 8 grams. Response 4500 CPS. Output level, MG 2V, standard 2.3V. Shpg. Wgt. 1 lb. Net \$ 5.73

No. 920W. Special pickup arm for Webster Chicago and V-M 3-speed changers. Uses dual stylus cartridge No. W-22AB. Shpg. Wgt. 1 lb. Net \$ 6.76

CARTRIDGES



W-22A. For use in turn-over pickups as used in V-M, Webster, etc. Uses sapphire tipped needles. Shpg. Wgt. 1 lb. Net \$ 6.17

W-22AB. Same as above but uses sapphire MG needle and osmium tipped standard needle. Shpg. Wgt. 1 lb. Net \$ 5.59

W-26B. Used in single needle all purpose arms for playing 33-1/3-45-78 RPM records. Shpg. Wgt. 1 lb. Net \$ 4.41

NUMBER	NEEDLE PRESSURE	OUTPUT VOLTAGE	NET
W-57A	3/4 oz.	1.6	\$3.26
W-58A	1	1.6	3.26
W-59A	1	2.5	3.26
W-56A	1-1/8	4.3	3.91
W-60A	Sapphire Tip Needle	1.8	5.00
W-60B	Osmium Tip Needle	1.8	4.41



**PORTABLE
CARRYING CASES**



Acoustically designed for good tone quality. Models 304-305 have split case which allows two speakers to be mounted and held securely and web straps hold cable tightly when not in use. Slide-easy board for mounting amplifier. Flocked gray grille.

No. Speaker	Amplifier	Shpg. Wt.	Net
303	1-10" MASN	9 lbs.	\$ 17.64
304	2-10" MA17N	16 lbs.	30.58
305	2-12" MA17PN-MA25N MA25PN-MA35N	21 lbs.	32.05

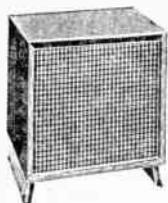
38 NEED NEW TEST EQUIPMENT?-We'll Trade In Your Old Units!

SPEAKER CABINETS

AUDIO-HI-FI

R-J

ENCLOSURES

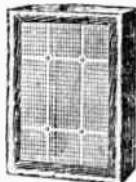


Speaker enclosures available in 12" and 15" sizes. Direct radiation of highs without obstruction, clean, smooth bass fundamentals, without peaks, down to low organ pedal notes. Expertly built of heavy, top quality genuine mahogany veneer, hand-rubbed. No distorting cabinet resonances. Floor models 20Hx20Lx16"D. Shpg. Wgt. 35 lbs.

MODEL F-12-M. 12" speaker. Net \$ 49.95
MODEL F-15-M. 15" speaker. Net \$ 49.95



Aristocrat



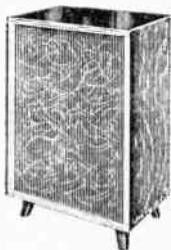
KLIPSCH

LICENSED

MODEL *ARISTOCRAT*. Klipsch-licensed folded corner horn enclosure reproduces bass notes down to 35 CPS with extended range on highs. Designed to give one full octave of added bass range when used with high quality 12" full range speaker. Scientifically designed to reproduce bass with no boominess. Authentically styled. Lustrous hand-rubbed mahogany finish. Size: 29½Hx19Wx16½"D. Less speaker. Shpg. Wgt. 38 lbs. Net.....\$ 64.68

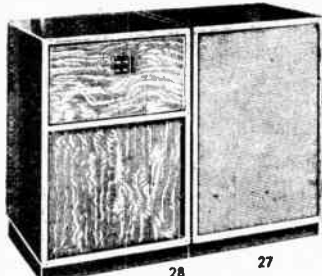


WITH
TRIAxIAL
SPEAKER



TRIUMPH THREE-WAY SPEAKER SYSTEM. Compact high fidelity system which employs Model 308 eight inch triaxial speaker chassis. Frequency response 50-15,000 cycle. Sounds like systems many times its price. Size: 25½x18x12"D. Available in Cherry or Blond finish. Grill material removable from front. Power capacity 25 watts. 8 ohm voice coil. Crossovers, 1000 cycles mechanical, 5000 cycles electrical. Specify finish when ordering. Shpg. Wgt. 30 lbs.
MODEL *TRIUMPH*. Net.....\$ 73.50

Cabinart by G & H



EQUIPMENT CABINET. For record changer, radio, and amplifier. Matching piece of furniture to Model 27 speaker cabinet. Height 35", width 23½", depth 18". Record changer area, 11½Hx22Wx17"D. Radio and amplifier area, 18½Hx22Wx16"D. Your choice of Blond Birch or Cordovan Mahogany on Birch. (Specify finish wanted.) Shpg. Wgt. 72 lbs.

MODEL 28. Net.....\$ 72.00

SPEAKER CABINET. For all 12" or 15" speakers. Distinguished piece of furniture which will fit in with any type of living room or music room plan. Height 35", width 23½", depth 18". 6½ cubic feet of baffle area. Choice of Blond Birch or Cordovan Mahogany on Birch finishes. Shpg. Wgt. 58 lbs. (Specify finish wanted)

MODEL 27. Net.....\$ 48.00



Cabinart

MODEL 70

MODEL 7112
MODEL 7115

Matching cabinets which will accommodate any combination of high fidelity components. Removable panels for future equipment changes. Each cabinet measures 33½Hx23Wx16"D. Made of ½" thick select white pine plywood. Unfinished but completely assembled and sanded smooth, ready for finishing. Will take a beautiful blond or mahogany finish.

EQUIPMENT CABINET. Hinged top phono compartment measures I.D. 7½Hx21½Wx15¼"D. Tuner compartment measures I.D. 23½Hx21½Wx15¼"D. Shpg. Wgt. 40 lbs.
MODEL 70. Net.....\$ 36.00

BASS REFLEX CABINET. Acoustically correct, tuned for the average 12" or 15" speaker. Baffle volume is six cubic feet. with grille cloth and acoustic insulation.

MODEL 7112. Pre-cut for 12" speaker. Shpg. Wgt. 40 lbs. Net.....\$ 24.00

MODEL 7115. Pre-cut for 15" speaker. Shpg. Wgt. 40 lbs. Net.....\$ 24.00

REBEL

IV



MODEL KR-4-12 *REBEL*. Klipsch designed corner horn enclosure for 12" speaker. Increases efficiency and range of any good 12" speaker. Size: 32Hx14½Dx21"W. Mahogany or blonde finish. Specify finish desired. Shpg. Wgt. 40 lbs. Net.....\$ 69.00

MODEL KR-4-15 *REBEL*. Same as Model KR-4-12 except for 15" speaker. Size: 32Hx16½Dx24"W. Mahogany or blonde finish. Specify finish desired. Shpg. Wgt. 50 lbs. Net.....\$ 87.00

MODEL K-12. Kit form of KR-4-12, unassembled, unfinished. Shpg. Wgt. 40 lbs. Net.....\$ 36.00

MODEL K-15. Kit form of KR-4-15, unassembled, unfinished. Shpg. Wgt. 50 lbs. Net.....\$ 42.00

Jensen



BASS

REFLEX

CABINETS



Accommodate any good speaker. Well-constructed of beautifully striped satin finish veneered walnut; interlaced bronze strip grille of matching fabric. Available in two sizes for 12" and 15" speakers.

MODEL D-151. Walnut, for 15" speaker. Size: 31Hx27½Wx13½"D. Shpg. Wgt. 50 lbs. Net.....\$ 30.40

MODEL D-121. Walnut, for 12" speaker. Same dimensions as D-151. Shpg. Wgt. 50 lbs. Net.....\$ 30.40

MODEL B-121. Utility type bass reflex cabinet, constructed of impregnated composition board finished in brown lacquer. Metal trim. For 12" speaker. Size: 28½Hx23½Wx11½"D. Shpg. Wt. 34 lbs. Net \$22.79

Altec Lansing



MODEL 605A. A deluxe enclosure acoustically correct for Altec 604C and 603B. Can also be used on other makes of speakers. A beautiful cabinet, well-constructed for use in the finest homes or studios, finished in beautiful walnut or mahogany. Size: 38Hx30Wx16"D. Shpg. Wgt. 165 lbs. Net.....\$ 165.00

MODEL 612. A utility cabinet for use in factories, sound installations, etc., wherever finish of cabinet is not important. Takes 15" speaker, grey painted finish. Size: 29½Hx25½Wx17½"D. Shpg. Wgt. 100 lbs. Net.....\$ 60.00

"Your trade-in's worth more at the WALTER ASHE STORE" (39)

AUDIO-HI-FI HIGH QUALITY SPEAKERS - Baffles

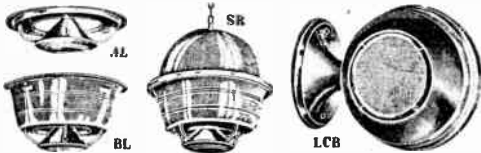
GENERAL ELECTRIC

The Deluxe Model 1201A Loudspeaker is unsurpassed for high fidelity applications, will handle 25 watts power. Has 14; oz. Alnico V permanent magnet. Excellent frequency response, 50-13,000 CPS. Voice coil impedance 8 ohms. The 1201A and all other speakers listed below use the famous G.E. aluminum foil bass voice coil. This feature makes G.E. speakers virtually unaffected by moisture or humidity. All speakers use Alnico V magnets.



Number	Size	Magnet Wgt.	Watts	Voice Coil Impedance	Shpg. Wgt.	Net
403D	4"	.68 oz.	4	3.2	1/2 lb.	\$ 2.35
503D	5	.68	4	3.2	3/4	2.47
626D	6 1/2	1.0	4	3.2	1	2.94
800D	8	2.98	8	3.2	2	6.06
810D	8	6.8	12	3.2	2 1/2	8.11
1000D	10	6.8	12	3.2	4	10.32
1012D	10	3.16	12	3.2	3 1/2	6.94
1018D	10	6.8	12	3.2	4	10.64
1200D	12	6.8	12	3.2	5	11.17
1201A	12	14.5	25	8	8 1/2	19.95
1203A	12	9.0	25	8	5 1/2	13.94
1212D	12	3.16	12	3.2	4 1/2	7.61

LOWELL Speaker Baffles



AL SERIES. False ceiling models made of 18 gauge spun aluminum for use where space is limited. Easy to mount when used with steel plaster ring listed below. Complete with speaker hardware but less mounting ring and speaker. Shpg. Wt. 2 lbs.
MODEL AL6A Spkr. Size 6" Diameter 10" Net \$ 4.41
MODEL AL8A " 8" " 11 1/2" " 7.14
MODEL AL12A " 12" " 16 1/2" " 9.00
MODEL AL15A " 15" " 23" " 14.70

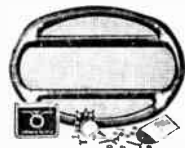
BL SERIES. Easily installed flush mount ceiling baffles for installations in clubs, lounges, PA, juke boxes, etc. Mount by means of four toggle bolts, completely sealing back of housing to ceiling. Give uniform sound reproduction over 360°. Padded with heavy jute to dampen reverberation. Made of 18 gauge spun aluminum. Speaker hardware furnished. Less speaker. Shpg. Wgt. 5 lbs.
MODEL BL6A Spkr. Size 6" Diam. 12 1/2" Depth 4 1/2" Net \$ 7.64
MODEL BL8A " 8" " 14 1/2" " 4-7/8" 12.93
MODEL BL12A " 12" " 18-3/8" " 8" 15.87

SR SERIES. Designed for use in auditoriums, railroad stations, churches, and other high ceiling applications. Even sound distribution over 360° area. Made of 18 gauge spun aluminum. Dome and lower housing jute padded, no vibration. Speaker hardware furnished, less speaker and chain. Shpg. Wgt. 7 lbs.
MODEL SR8A Spkr. Size 8" Assem. O.D. Size 15" Net \$ 17.64
MODEL SR12A " 12" " 21" " 21.76
 Chain Per Foot .25

LCB SERIES. Bi-directional corridor speaker baffle which can be heard equally well from both sides for use in hospitals, schools, industrial plants, etc. Mounts on wall or ceiling or on 4x4 outlet box. Finished in satin aluminum. Less speaker. Shpg. Wgt. 1 1/2 lbs.
MODEL LCB-6 For 6" Speaker Net \$ 8.82
MODEL LCB-8 For 8" Speaker " 10.58

PR SERIES. Plaster rings made of heavy gauge steel, tapped 5/32 for quick mounting of baffle to ceiling. Shpg. Wgt. 1/2 lb.
MODEL PR-6 For Baffle AL6A Net \$ 1.18
MODEL PR-8 For Baffle AL8A " 1.56
MODEL PR-12 For Baffle AL12A " 2.06

REAR SEAT EXTENSION KIT



MODEL R-7. Rear seat auto extension speaker baffle kit for all cars. For 6x9" speaker. Complete with 3-way switch, bracket, louvre plate, mounting screws. Less speaker. Shpg. Wgt. 1 lb. Grey finish. Net \$ 2.65

Jensen



VIKING LOUSPEAKERS

Complete line of well-made speakers of nominal prices. Use as replacement for radio, TV, low power PA systems. All are permanent magnet types. Less output transformer.

Model	Size	Voice Coil	Shpg. Wgt.	Net
3J6*	3"	3-4 ohms	3 lbs.	\$ 2.07
35J6*	3 1/2	3-4	3	2.02
4J6*	4	3-4	3	2.02
46J6*	4x6	3-4	3	2.63
5J6*	5	3-4	3	2.26
525J6*	5 1/4	3-4	3	2.33
57J9	5x7	3-4	3	3.29
6J6*	6	3-4	3	2.45
69J9	6x9	3-4	3	3.65
7J9	7	3-4	4	3.49
8J9	8	3-4	4	3.49
10J10	10	3-4	5	5.60
12J10	12	3-4	6	6.24

*CTM-1 Universal Mounting Bracket included free when requested.



MODEL AP-10 SPEECHMASTER

Sturdy construction, double dustproofing and fine acoustical properties make these units acceptable for all talkback and monitoring applications. Will mount on desk or wall. Complete with 36" cord. Finished in hammered grey with chrome trim. Voice coil 3-4 ohms. Shpg. Wgt. 5 1/4 lbs.

MODEL AP-10 (ST-590), Net.....\$ 11.35

Electro-Voice

WIDE RANGE HIGH FIDELITY RADAX COAXIAL SPEAKERS

Radax Super-Twelve

Model SP12



MODEL SP-12. Revolutionary full range coaxial speaker system which reproduces complete tonal range. Uses two cones, one for treble, one for bass. Built-in mechanical crossover. Frequency response 70-13,000 CPS. Maximum power handling capacity 25 watts. Voice coil 8 ohms. Has 23 lb. magnet structure with 3 lb. Alnico V magnet. Cones treated for fungus and moisture. Size: 12 1/2 x 7 1/2. Shpg. Wgt. 30 lbs. Net \$ 35.86

Radax-Twelve

Model SP12-B



MODEL SP-12-B. Extended range coaxial system which gives you a two-way system for the price of an ordinary speaker. Gives full bass response and high frequencies far beyond belief. Uses two cones, one for highs, one for lows. Crossover frequency 4500 CPS. Cones are treated for fungus and moisture protection. Input impedance 8 ohms, power handling 15 watts. Uses 1 1/2 lb. Alnico V magnet. Size: 12 x 7 1/2. Shpg. Wgt. 8 lbs. Net \$ 29.11

Radax Super-Eight

Model SP8-B



MODEL SP-8-B. All the bass possible in an 8" speaker plus high frequency response extending 2 1/2 octaves beyond that of conventional speakers. Covers 6 1/2 octaves. Features two cones which distribute the sound according to the frequency. Economical coaxial two-way system. 8 ohm voice coil. 15-watt handling power. 1 1/2 lb. Alnico V magnet. Size: 8 1/2 x 5 1/2. Shpg. Wgt. 7 1/2 lbs. Net \$ 27.93

40 READY FOR A NEW RECEIVER? - We'll Trade In Your Old One!

JENSEN LOUDSPEAKERS

AUDIO--HI-FI

COAXIAL SPEAKERS



H-530

H-520

15-INCH WIDE RANGE COAXIAL SPEAKER

For finest wide range balanced response. Highly efficient 15" low frequency unit, upper channel is a new compression driver perfectly matched to a special high frequency divided cellular Hypex horn to reproduce a wide frequency range above 2000 cycles. Impedance 16 ohms. Power rating 30 watts. Complete with network and HF control. Baffle opening 13 1/4", OD 15 1/4", depth 10 1/4". Shpg. Wgt. 25 lbs.

MODEL H-530 (ST-893). Net.....\$ 129.50

NEW 15-INCH COAXIAL SPEAKER

Coaxial speaker with the smoothness, balance, and wide range found only in advanced design two-way systems. Compression driver unit loaded by a six-cell Hypex horn reproduces frequencies above 2000 cycles. Efficient 15" LF unit. Impedance 16 ohms. Power rating 25 watts. Baffle opening 13 1/4", OD 15 1/4", depth 9 1/4". Shpg. W. 16 lbs.

MODEL H-520 (ST-892). Net.....\$ 79.50



K-310A

H-222

K-210

15-INCH COAXIAL SPEAKER

A fine, low cost, true two-way 15" hi-fi speaker that will outperform many at higher prices. Integral frequency division system. Power rating 16 watts. Output impedance 16 ohms. Baffle opening 13 1/4", OD 15 1/4", depth 8 1/4". Shpg. Wgt. 18 lbs.

MODEL K-310A (ST-891). Net.....\$ 37.60

12-INCH COAXIAL SPEAKER

Wide range 12" coaxial with compression driver "tweeter" and six-cell HF horn. Integral frequency division. Power rating 25 watts. Impedance 16 ohms. Has HF balance control on 36" cord. Baffle opening 10 1/2", OD 12 1/4", depth 8 1/4". Shpg. Wgt. 12 lbs.

MODEL H-222 (ST-875). Net.....\$ 54.50

LOW COST 12-INCH COAXIAL SPEAKER

High fidelity 12" speaker at amazingly low cost. Ideal for modernizing TV and radio sets. Built-in frequency dividing system. Power rating 12 watts. Impedance 8 ohms. Baffle opening 10 1/2", OD 12 1/4", depth 6 1/4". Shpg. Wgt. 8 lbs.

MODEL K-210 (ST-831). Net.....\$ 24.85



Jensen

EXTENDED RANGE

Recommended in uses calling for a high quality direct radiator or "one way" speaker. For home music systems, quality PA work, replacement in TV, radio, etc. Available in sizes from 5" to 15".

Model	Stock No.	Size	Voice Coil	Watts	Shpg. Wgt.	Net
P15-NX	ST-817	15"	6-8 ohms	18	16 lbs.	\$ 46.05
P12-NX	ST-819	12	6-8	16	12	35.25
P12-RX	ST-885	12	6-8	11	8	12.40
P12-SX	ST-821	12	6-8	9	6	11.35
P10-SX	ST-823	10	6-8	8	5	10.54
P8-RX	ST-887	8	6-8	8	5	8.50
P8-SX	ST-825	8	6-8	7	4	7.48
P6-TX	ST-826	6	3-4	5	4	5.05
P5-TX	ST-827	5	3-4	4	3	4.90

Jensen

CONCERT SERIES



Extensive line of general purpose direct radiator loudspeakers for all needs - replacement, PA, home music systems, etc. All use Alnico V magnets.

Model	Stock No.	Size	Voice Coil	Watts	Shpg. Wgt.	Net
P15-N	ST-654	15"	8 ohms	20	15 lbs.	\$ 41.45
P12-N	ST-656	12	8	18	15	30.87
P12-R	ST-103	12	6-8	12	14	9.70
P12-S	ST-102	12	6-8	10	8	8.67
P12-S	ST-871	12	3-4	10	8	8.67
P12-T	ST-101	12	6-8	9	7	8.00
P12-T	ST-872	12	3-4	9	7	8.00
P10-S	ST-873	10	3-4	9	6	7.88
P10-T	ST-119	10	6-8	8	6	6.17
P10-T	ST-874	10	3-4	8	6	6.17
P8-S	ST-104	8	6-8	8	5	6.35
P8-S	ST-851	8	3-4	8	5	6.35
P8-T	ST-117	8	3-4	7	5	5.41
P8-U	ST-116	8	3-4	6	5	4.85
P8-V	ST-115	8	3-4	5	5	4.09
P69-V	ST-810	6x9	3-4	5	4	3.97
P6-T	ST-112	6	3-4	6	3	3.97
P6-V	ST-110	6	3-4	4	3	3.23
P6-X	ST-108	6	3-4	3	3	2.91
P57-V	ST-859	5x7	3-4	4	3	3.57
P525-V	ST-803	5 1/4	3-4	4	3	3.23
P5-V	ST-107	5	3-4	3.5	3	3.12
P5-X	ST-105	5	3-4	2.5	3	2.85
P5-X	ST-740	5	45-50	2.5	3	2.91
P46-W	ST-910	4x6	3-4	3	3	3.15
P4-X	ST-113	4	3-4	2	3	2.73
P4-X	ST-739	4	45-50	2	3	2.82
P275-V	ST-911	2 1/2	16	.15	2	4.26

FIELD COIL TYPES

Model	Stock No.	Size	Voice Coil	Field Watts	Shpg. Wgt.	Net	
F12-S	ST-173	12"	3-4 ohms	1000	8.5	6 lbs. \$ 8.94	
F10-S	ST-175	10	3-4	1500	8.5	5	8.35
F6-X	ST-189	6	3-4	450	4.5	4	3.50
F5-X	ST-194	5	3-4	450	4.5	3	3.45
F4-X	ST-196	4	3-4	450	4.5	3	3.35

Duette



Two-way high fidelity reproducer with special 8" "woofer" and multi-cell horn-loaded compression driver "tweeter". Has built-in frequency division system. Small, compact enclosure is designed for adequate bass potential. Can be used anywhere, may be used either on its side or standing on end. Can also be placed on table, in bookshelves, etc. Clean, smooth reproduction, 20 watts handling power. Impedance 4 and 8 ohms. Deep burgundy Dupont Fabrikoid finished case, pigskin textured, with contrasting front and copper-toned trim. Size: 11Hx23 1/2"W x 10"D. Shpg. Wgt. 24 lbs.

MODEL DU-201 "DUETTE". Net.....\$ 62.50

MODEL DU-202 "DUETTE" PORTABLE 77.50



Jensen

LEVEL CONTROLS



These L-pad type controls are highly satisfactory for use in voice coil circuits. Complete with pointer knob and escutcheon.

Model	Size	Watts	Shpg. Wgt.	1 lb.	Net \$
ST-276	6-8 ohms	5	1 lb.	1.76	
ST-760	3-4	5	1 lb.	1.97	
ST-761	500-600	15	1 lb.	3.65	
ST-411	8	15	1 lb.	2.76	

"Your trade-in's worth more at the WALTER ASHE STORE" 41

Altec Lansing



MODEL 604C DUPLEX SPEAKER. Professional 15" high fidelity speaker with exponential multicellular horn, frequency response 30 cy. to 22,000 cy. when mounted in suitable cabinet. Power rating 35 watts, 50 watts peak. Large Alnico V magnet. Frequencies from 30 to 1600 are reproduced by 15" cone and frequencies from 1600 to 22,000 reproduced by high frequency unit. N-1600A network provides smooth crossover at 1600 cy. Network impedance 16 ohms. Maximum dia. 15-3/16", maximum depth 1-1/8". Complete with network. Shpg. Wgt. 40 lbs. **Net \$ 156.00**



602A



603B

MODEL 602A. New 15" Duplex Speaker complete with network. Frequency response 30-22,000 cy. in suitable cabinet. 3" aluminum voice coil, large Alnico V magnet. Power rating 20 watts, 30 watts peak. Crossover frequency 3,000 cy. Network impedance 8 ohms. Maximum dia. 15-3/16", maximum depth 7-1/4". Complete with network. Shpg. Wgt. 25 lbs. **Net \$ 114.00**

MODEL 601A. New 12" Duplex Speaker with similar characteristics to Model 602A. Maximum dia. 12 1/2", maximum depth 5-5/8". Shpg. Wgt. 17 lbs. **Net \$ 99.00**

MODEL 603B. 15" Dia-Cone Speaker with frequency response of 30-13,000 cy. Power rating 25 watts. Voice coil impedance 8 ohms. Large Alnico V magnet. Maximum dia. 15-3/16", maximum depth 7". Shpg. Wgt. 30 lbs. **Net \$ 66.00**



600B



400B

MODEL 600B. Supersedes original Model 600. Specially treated 12" cone assures smooth frequency response approximately 30-12,000 CPS. Power rating 20 watts, voice coil 8 ohms. Depth behind panel 5 1/2". Highest value per dollar. Shpg. Wt. 15 lbs. **Net \$ 42.00**

MODEL 400B. 8" Dia-Cone. To be used where size is important but where quality must be maintained. 8" size with high efficiency rating. Power handling 12 watts, voice coil 8 ohms. Approximate frequency response 40-12,000 CPS. Depth behind panel 3-5/8". Shpg. Wgt. 6 lbs. **Net \$ 21.60**

University



2YC



PMA



CTR-20

Constructed of rustproof, completely weatherproofed aluminum. No mechanical vibration. Universal bracket supplied for mounting. For use with driver units listed below. Less driver units.

SPECS	GH	LW	PH	SMH
Air Column	6 1/2"	4 1/4"	3 1/2"	2 1/2"
Bell Diam.	31"	23 1/2"	20 1/4"	16 1/2"
Length	28"	19"	15 1/2"	12"
Cut-Off	85 cy.	120 cy.	150 cy.	200 cy.
Shpg. Wt.	30 lb.	20 lb.	15 lb.	10 lb.
Net	\$38.22	\$26.17	\$18.23	\$15.29

ACCESSORIES

2YC CONNECTOR. For connecting two driver units to any trumpet. Shpg. Wgt. 2 lbs. **Net \$ 5.88**

PMA ADAPTER. Attaches to "U" bracket of any trumpet for mounting on 1/2" pipe fitting. Shpg. Wgt. 3 lbs. **Net \$.88**

MODEL CTR-20. Weatherproof line matching transformer. 25 watts. Pri. Imp.: 45/500/1000/1500/2000 ohms. Sec.: 4-8-16 ohms. **Net \$ 8.82**

BREAKDOWN-PROOF DRIVER UNITS



MA-25



SA-1F



SA-30



PA-30

University drivers are breakdown-proof and guaranteed for one year. All ratings are conservative. Use Alnico V magnets. Rugged and weatherproof. Model SA-30 has built-in transformer, 16 ohm voice coil. Transformer tapped 45/165/250/500/1000/2000 ohms. Model PA-30 has built-in adjustable transformer, 16 ohm voice coil, transformer tapped at 165/250/500/1000/2000 ohms. Thread size 1-3/8"-18.

SPECS	MA-25	SA-1F	SA-30	PA-30
Power	25 watts	25 watts	30 watts	30 watts
Imp.	16 ohms	16 ohms	See above	See above
Freq.	90-6000	90-10000	90-10000	80-10000
Shpg. Wt.	5 lbs.	8 lbs.	8 lbs.	8 lbs.
Net	\$16.17	\$20.58	\$26.46	\$29.40

PAGING AND INTERCOM SPEAKERS



All incorporate hermetically-sealed driver units. Corrosion-proof finish. Bracket for mounting included.

SPECS	1BB	MIL	CR
Power	12 watts	3 watts	18 watts
Impedance	8 ohms	8 ohms	16 ohms
Frequency	300-10,000	400-9,000	250-6,000
Shpg. Wt.	7 lbs.	5 lbs.	11 lbs.
Net	\$ 19.11	\$ 14.70	\$ 24.70

WIDE ANGLE SPEAKERS



2W-25

MODEL 2W-25. Two-way paging speaker. Covers two large areas with single driver unit, 25-watt output, 16 ohm voice coil, 120° dispersion each horn. Frequency response 350-6,000 cy. Bell length 20", 8"D mouth. Horns may be angled away from wall. Universal mounting bracket. Shpg. Wgt. 9 lbs. **Net \$ 28.22**

MODEL CORREFLEX-2. For paging and PA, fixed or mobile, and industrial sound systems. Wide angle trumpet design, uses one driver unit (not supplied). Wide angle dispersion, 120° horizontal, 60° vertical. Weatherproofed. U-type mounting bracket. Size: 18 1/2x9 1/4x10 1/4"D. Less unit. Shpg. Wgt. 10 lbs. **Net \$ 20.58**



MODEL COBRA-12. Wide angle dispersion projector. Continuous power handling capacity 12 watts, 8 ohm voice coil. Dispersion: 120° by 60°. Frequency response 250-10,000 cy. Size: 20x9"H. Adjustable mounting bracket. Shpg. Wgt. 8 lbs. **Net \$ 26.46**

RADIAL REFLEX PROJECTORS



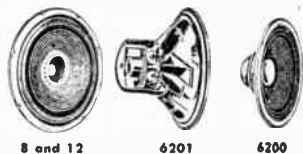
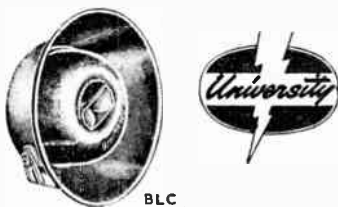
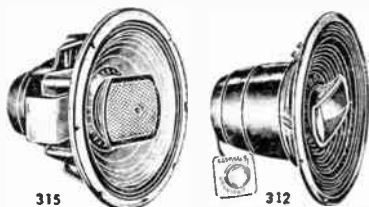
Re-entrant horns with radial deflectors for uniform 360° sound distribution cover large areas and override high noise levels without blasting. RLH is excellent for music, RPH for music and speech, and RSH for all uses in intercom work primarily for speech. Less driver units.

SPECS	RLH	RPH	RSH
Air Column	5"	4"	3"
Diameter	28"	25"	19"
Height	18 1/2"	14"	11"
Cut-Off	110 cy.	140 cy.	180 cy.
Shpg. Wt.	25 lbs.	22 lbs.	16 lbs.
Net	\$ 34.69	\$ 26.46	\$ 22.64



Deluxe 12-inch High Fidelity Loudspeaker

Unsurpassed in the medium priced field. High fidelity 12" speaker with 50-13,000 cy. response. Cone has "edge-dip" treatment resulting in smooth response and long cone life. Will carry 25 watts output. Equipped with protective rigid dust cap which reinforces cone assembly, 1 1/2 oz. Alnico V magnet. Uses famous G.E. 1 1/2" aluminum base voice coil, impedance 8 ohms. Shpg. Wgt. 6 1/2 lbs. **MODEL 1201A. Net \$ 19.95**



15" TRIAXIAL SPEAKER. Balanced so carefully that no "balance" control is needed. Reproduces all frequencies with full-bodied clarity. Response 30-16,000 cycles. Impedance 8 ohms, power capacity 50 watts. 1000 cycle mechanical crossover, 5000 cycle L/C electrical network crossover. VHF frequencies further diffracted by apertures in horn mouth acoustic screen. Size: 15½x12"D. Shpg. Wgt. 34 lbs.

MODEL 315. Net.....\$ 129.36

12" TRIAXIAL SPEAKER. Uses famous University Alnico 5 "W" magnet and durable aluminum voice coil in woofer section. Uses HF-206 Super Tweeter for brilliant highs. Mechanical crossover at 1000 cycles and built-in L/C electrical dividing network at 5000 cycles. 25 watts capacity. 8 ohm impedance. Response: 40-17,500 cycles. Complete with high frequency balance control wired to 36" extension. Size: 12¼x8"D. Shpg. Wgt. 12 lbs.

MODEL 312. Net.....\$ 56.45



3" LOW FREQUENCY REPRODUCER. Ideal for assembling compact, limited space high quality speaker systems. Use with University 4401 Tweeter and Model N-1 high pass filter or N-2B L/C Network. Can also be used with additional C8W speakers as multi-speaker woofer. Low frequency response to 50 cycles, suitable for crossover to 5000 cycles. Power capacity 25 watts. Impedance 8 ohms. Size: 8¼x4¼"D. Shpg. Wgt. 4 lbs.

MODEL C8W. Net.....\$ 13.23

12" ADJUSTABLE RESPONSE WOOFER. Has built-in facilities for limiting high end response to 700, 2000, or 5000 cycles. Suits crossover requirements of any tweeter and provides additional means of setting best system tonal balance by listening to effect of changing crossover. Overall response 40-6000 cycles. Power handling capacity 30 watts. Impedance 8 ohms. When used with any tweeter and only a series tweeter capacitor combination forms L/C crossover network. Model N-1 adjustable high pass filter ideal. Connections made to binding posts. Size: 12¼x6¼"D. Shpg. Wgt. 8 lbs.

MODEL C12W. Net.....\$ 32.34

HIGH FREQUENCY TWEETER SPEAKERS

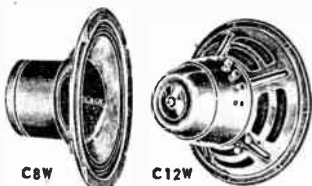
Will extend range of any good speaker. Two models available, single and double. Easy to mount in cabinet. Will reproduce frequency's between 2,000 and 15,000 CPS.

SPECS	SINGLE	DOUBLE
Response	2K-15K cy.	2K-15K cy.
For Woofer Impedance	6-16 ohms	4-16 ohm
Power	6 watts	12 watts
Shpg. Wgt.	4 lbs.	6 lbs.
Net	\$ 14.70	\$ 23.52

MODEL N-1. Net.....\$ 7.35

WEATHERPROOF COAXIAL HIGH FIDELITY SPEAKER SYSTEM. Frequency response 70-15,000 cycles. 2000 cycle built-in crossover. Power capacity 25 watts continuous. Wide range music and voice, will penetrate high ambient noise levels with exceptional intelligibility. Sound distribution 120°. For use indoors or outdoors. 8 ohm voice coil. Mounting, adjustable "U" bracket. Size: 22¼" diam., 9" deep. Shpg. Wgt. 23 lbs.

MODEL BLC. Net.....\$ 44.10

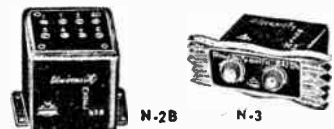


DIFFUSICONE 8. Excellent high fidelity speaker, 8" size. Similar to Model 12 Diffusicone. Features wide angle dispersion, uniform field pattern. Response. 70-13,000 CPS. 25 watts continuous duty. Impedance 8 ohms. Shpg. Wgt. 8 lbs. Net \$ 20.58

DIFFUSICONE 12. University 12" high fidelity speaker. Extended, diffused high frequency response. 2" voice coil on dural form. 24 oz. "W" shaped Alnico V magnet. Uniform frequency response, 45-13,000 CPS. Power capacity 30 watts. Impedance 8 ohms. All parts fully protected against corrosion. Size: 12-1/8" dia., 4-1/4" deep. Shpg. Wgt. 9 lbs. Net \$26.46

MODEL 6201. A deluxe coaxial high fidelity speaker for the finest installation. Built-in 2000 cycle crossover network and integral variable high frequency control. "Cobra" shaped tweeter horn for wide range reproduction of high frequencies. 24 oz. "W" shaped Alnico V magnet. Frequency response 45-15,000 CPS. Continuous power output 25 watts. 2" 8 ohm voice coil. Size: 12-1/8" dia., 8-1/4" deep. Weatherproof. Shpg. Wgt. 10 lbs. Net \$ 44.10

MODEL 6200. Top quality, moderately priced high fidelity speaker. Wide range response 45 to well beyond 10,000 CPS. Handling power 30 watts. Heavy "W" shaped Alnico V magnet. 2" 8 ohm voice coil. An excellent speaker for PA systems, churches, and homes. Weatherproof. Size: 12-1/8" dia., 4-1/4" deep. Shpg. Wgt. 7 lbs. Net \$ 20.58



UNIVERSAL L/C DIVIDING NETWORKS. True inductance/capacitance type units which can be used singly as 6 DB rate of cutoff 2-way dividing networks, as 12 DB networks in pairs, singly as low or high pass filters, and as a 3-way network when N-2A and N-2B are used together. Protection against obsolescence. Screw terminals. Size: 3¼x3¼x3". Shpg. Wgt. 3 lbs.

N-2B MATCHES:

Impedance	Crossover Selections
8 ohms	1250, 2500, 5000
16 ohms	2500, 5000
4 ohms	2500, 5000

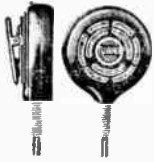
N-2A MATCHES:

Impedance	Crossover Selections
8 ohms	350, 700
16 ohms	350, 700
4 ohms	700

MODEL N-2A. Net.....\$ 17.64
MODEL N-2B. Net.....\$ 11.76

THREE-WAY CROSSOVER NETWORK. L/C type dividing network for use with University C15W woofer, HF-206 Super Tweeter, and 4401 Tweeter. Crossovers, 350 and 5000 cycles. Network complete with built-in continuously variable "Presence" and "Brilliance" controls. Input impedance 8 ohms. Chassis adjustable for vertical and horizontal mounting and for up to 1" panels. Size: 7x5x3". Shpg. Wgt. 5 lb. MODEL N-3. Net.....\$ 23.52

**NEW
LAPEL
MIKE**



LAPEL MICROPHONE. Small, inconspicuous, lightweight crystal mike with lapel clip. Clip has tough spring and is adjustable but cannot harm clothing. Pickup pattern essentially non-directional. Response 50-10,000 cycles. Plastic case, size 2 1/4", weighs only one ounce less cable. May be clipped anywhere - clothing, draperies, recorder case, etc.
MODEL L-100. With clip and 20 feet of cable. Net.....\$ 7.35
MODEL 100. Less clip but with 7 feet of cable. Net.....\$ 4.70

"The Competitor"



**CRYSTAL
MICROPHONE**

Crystal mike for hand, stand, or desk use in recording, amateur or PA work. Response 70-7,000 CPS, -52 DB. Moisture-sealed crystal circuit has aluminum diaphragm, shock-proof mounting, wind and blast proof, finished in baked beige wrinkle enamel. Complete with 6-ft. cable and stand adapter. Shpg. Wgt. 1 1/2 lbs.
MODEL 60X. Net.....\$ 6.38

TURNER "THIRD HAND"

MODEL 3H "THIRD HAND". Holds mike close to mouth to permit close talking. Slips over head. Adjustable gooseneck. Fits all 3/8"-27 thread mikes. Shpg. Wgt. 1 lb.
MODEL 3H. Net \$ 2.94



**MOBILE
CARBON
MIKE**

Rugged all-purpose single button carbon mike. Ideal for mobiles, experimental purposes, etc. Push-to-talk switch operates Western Electric F-1 button. Insulated case with hanger. 4 1/2 foot shielded cable. Net weight 10 oz. Shpg. Wgt. 2 lbs.
MODEL F1-P. Net.....\$ 9.85

NEW DYNAMIC



Jet-shaped high quality dynamic for PA systems, recording, etc. Alnico V magnets and moving coils. Frequency response 100-10,000 CPS. Output level -58 DB. 20-ft. removable cable set. Coupler swings mike in 60° arc. Satin chrome finish. 3/8"-27 thread. Shpg. Wgt. 2 lbs.

MODEL 95-D. High Impedance. Net \$20.58
MODEL 95-D. 200 Ohms..... 20.58
MODEL 95-D. 50 Ohms..... 20.58
MODEL 95-D. High imp. w/switch.. 22.64



FAMOUS DYNAMIC

Rugged outdoor or indoor dynamic mike unaffected by climatic changes or temperatures. For recording, announcing, or communications. Frequency response 80-9,000 CPS. Output level -52 DB. Semi- or non-directional operation. Adjustable saddle and case finished in gun-metal. 3/8"-27 thread mounting. 20-ft. cable. Shpg. Wgt. 5 lbs.

MODEL 99. High Impedance. Net..\$ 24.40
MODEL 99. 50 Ohms..... 24.40
MODEL 99. 200 Ohms..... 24.40

MULTI-IMPEDANCE DYNAMIC

Multi-Impedance Dynamic. 50, 200, 500, or high impedance at the turn of a switch. Not affected by humidity or temperature. Output level -52 DB. Response 80-9,000 CPS. 20-ft. cable, 3/8"-27 thread. Saddle and case finished in gun-metal. Shpg. Wgt. 5 lbs.

MODEL U9-S. Net.....\$ 29.10

DYNAMIC

General purpose dynamic. Streamlined case finished in satin chrome. Response 100-9,000 CPS. Output level -52 DB. Not affected by temperature or humidity. 20-ft. cable, 3/8"-27 thread. 90° tilting head. Shpg. Wat. 4 lbs.

MODEL 33-D. High Impedance. Net \$18.76
MODEL 33-D. 200 Ohms..... 18.76
MODEL 33-D. 50 Ohms..... 18.76
MODEL 5-33-D. High imp. w/switch. 20.23



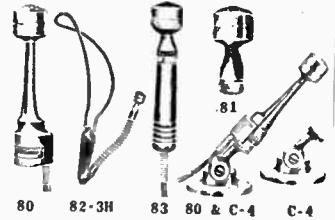
Mobite mike. Rugged dynamic for outdoor or indoor use. Output level -52 DB. Response 150-7,000 CPS. 7-ft. shielded cable, slide switch. High impedance. Shpg. Wgt. 3 lbs.
MODEL 9-D. Net.....\$ 19.11

Pleasing reproduction of any string instrument. Hi-Z output, easily installed. 20-ft. cable and mounting device. Used on any high gain mike input. Shpg. Wgt. 3 lbs.
"MMVC" w/volume control. Net.....\$ 11.17
"MM" less volume control..... 9.85

LAPEL MICROPHONE

Moisture-sealed crystal. Alligator clip. Output -52 DB. Response 50-8,000 CPS. 20-ft. cable. Shpg. Wgt. 2 lbs.
MODEL L40. Net.....\$ 14.70

CRYSTAL



The latest development in small inconspicuous crystal microphones. So small you can hide it in the palm of your hand but will give long efficient service. Slender, graceful, modern styling. Frequency response, 80-1000 CPS. Small size, 4-3/8x1-1/8", largest dimensions. Finished in beautiful satin chrome. Shpg. Wgt. 1 lb.

MODEL 80. Fits any standard mike stand, complete with 7-foot attached cable. Net \$ 9.38

MODEL 82-3H. Mounted on Turner "Third-Hand". Excellent for use in window demonstrations, carnivals, etc. Attached 20 foot cable included. Shpg. Wt. 3 Lb. Net \$ 13.38

MODEL 83. Hand microphone. Same mike as others listed above. Perfectly balanced, can be concealed in palm, slipped in pocket. Used in parking lots, paging systems. 7-foot attached cable. Net \$ 9.38

MODEL 81. Smaller than Model 80, has attached Amphenol PCIM connector. For use in detective work, dictating machines. Net \$ 8.20

MODEL C-4 STAND. New pivot type stand which allows mike to pivot in 135° arc. Fits Model 80 or any lightweight mike with 5/8"-27 thread. Solidly built of die-cast zinc, finished in polished satin chrome. Heavy base prevents tipping. Net \$ 3.38



Model BX

Model 22X

Model 33X

CHALLENGER

MODEL BX. Ideal for PA and amateur work. Brown enamel finish. 5/8" - 27 thread. Output: -52 DB. Hi-Z. 50 to 6,000 CPS. 7 ft. cable. Shpg. Wgt. 3 lbs. Net \$ 6.91

GENERAL PURPOSE

MODEL 22X CRYSTAL. Minimum feedback. 90° tilting head. Built-in wind-gag permits outdoor operation. Impregnated against moisture. Mechanical shock-proof mounting. Automatic barometric compensator. Output level -52 DB. Response: ± 5 DB from 50-9000 CPS. Complete with 7 ft. removable cable. Satin chrome finish. Shpg. Wgt. 4 lbs. Net \$ 14.55
S22X. With switch Net 16.02

CRYSTAL

MODEL 33X CRYSTAL MICROPHONE. 5/8" - 27 thread. High quality, moisture protected, 2-element crystal. Shock-proof mounting. Output: -52 DB. Response: 50-9000 CPS. Satin chrome finish. Tilting head. 20 ft. cable. Shpg. Wgt. 4 lbs. Net \$ 15.85
S33X. With switch 17.32

44 NEED NEW TEST EQUIPMENT? We'll Trade In Your Old Units!

ELECTRO-VOICE MICROPHONES

AUDIO-HI-FI

TV DYNAMIC



Electro-Voice

"SLIMAIR" DYNAMIC



SLIM-TRIM TV DYNAMIC. Frequency response 40-20,000 CPS. Output level -55 DB. Achieves most extended efficient HF response in any mike commercially available. Used in many laboratories as test standard. Excellent level affords high signal-to-thermal noise ratio. Pop-proof head stops blasts. Can be used in hand, on stand, or on boom. Easily concealed in studio props. Acoustalloy diaphragm. Impedance 250 ohms, easily changed to 50 ohms. Cannon UA-3 connector. Has 1/2" pipe thread. 5/8"-27 adapter furnished. TV grey enamel finish. Size, with swivel, 1 1/4" long. 1" diameter. 18' cable. Shpg. Wgt. 3 lbs.

MODEL 655. Net.....\$ 117.60

SLIMAIR DYNAMIC. Exceptionally fine for PA, recording, and general purpose use. Response 60-13,000 CPS. Output -55 DB. Acoustalloy diaphragm. Alnico V magnet. Omni-directional, wide pickup range. Pop-proof head. With switch. Satin chrome finish. Choice of high or low impedance by changing one wire in connector. Tilttable head. Built-in MC-4 connector. Has 5/8"-27 thread, 18' cable. Size 10 1/2" long including stud. 1 1/4" diameter. Net weight 1 lb. Shpg. Wgt. 3 lbs.

MODEL 636. Net.....\$ 41.16

"SPHEREX" CRYSTAL

MODEL 929. Expertly engineered crystal mike for economical use in conference recording, round table discussions, home recording, amateur and PA uses. Has 360° pickup pattern, flat frequency response from 60-7,000 CPS. High output level, -50 DB. High impedance output, may be used with any standard amplifier or recorder. moisture sealed crystal with Duralumin diaphragm treated to resist corrosion. Dual grille cloths minimize wind and breath noise. Finished in satin chromium. 5/8"-27 stand coupling thread. Size: 2 1/4" diameter. Shpg. Wgt. 1 lb.



MODEL 920-20 with 20-ft cable. Net \$ 13.23

MODEL 335 **BLAST FILTER.** Designed to fit Models 630, 635 and 605. Stops breath blasts even when the speaker is working extremely close to the microphone. Will also eliminate wind rumble. Easy to install. Simply slip it on the microphone case. No adjustments are necessary. Strong, will withstand rough handling. Finished in satin chromium. Shpg. Wgt. 8 oz.

Net \$ 3.23



MODEL 630
HIGH FIDELITY
HIGH OUTPUT
DYNAMIC



HIGH FIDELITY HIGH OUTPUT DYNAMIC. Brilliant performance, modest cost mike. Response 60-13,000 CPS. Output level -55 DB. Compact, lightweight, not affected by heat and humidity. Acoustalloy diaphragm. Tilttable head. Built-in MC-3 cable connector. Satin chrome finish. On-Off switch. 18' cable. Specify 50 ohms, 250 ohms, or high impedance. Size: 2x6 1/4". Shpg. Wgt. 2 lbs.

MODEL 630. Net.....\$ 27.64

BROADCAST DYNAMIC. Meets exacting requirements of TV and broadcast service. Compact, rugged, versatile; used in studios and on remotes, on a stand or in the hand, indoors or out. Omni-directional, it affords uniform high quality while meeting demand of most rigorous operating conditions. Uniform response from 60-13,000 CPS. Output level -55 DB. 50-250 ohms impedance selector. Acoustalloy diaphragm. Head tilts through 90° arc. 5/8"-27 thread. Built-in Cannon XL-3 connector. Satin chrome finish. 18' cable. Size: 2x6 1/4". Shpg. Wgt. 3 lbs.

MODEL 635. Net.....\$ 44.10

MODEL 635
HIGH FIDELITY
BROADCAST
DYNAMIC

950



911-611

CARDIAC MODEL 950. High level cardioid crystal mike with **DUAL FREQUENCY RESPONSE.** Selector switch gives wide range high fidelity sound pickup or rising characteristic for extra crispness of speech. Output: -57 DB. for high fidelity and -48 DB for rising response. Overcomes background noise and feedback. Fully enclosed, moisture-protected Metal Seal Crystal. Tilttable head. 8/8" - 27 thread. Built-in cable connector. "On-Off" switch. Size: 2 1/2 x 2-7/8 x 6 1/4" including stud. With 18-ft. cable. Shpg. Wgt. 3 1/2 lbs. Net \$ 24.99

MODEL 911-8 "MERCURY" CRYSTAL. For paging, public address, recording and amateur communications. Excellent response 50-8000 CPS for voice and music. Output: -50 DB. Fully enclosed, moisture-proofed Metal Seal crystal. Tilttable head. "On-Off" switch. Built-in cable connector. 5/8" - 27 thread. Satin chrome finish. High impedance. Shpg. Wgt. 4 lbs. Complete with 8 ft. cable. Net \$ 14.99

MERCURY DYNAMIC. Fine performing mike for general sound pickup. Response 50-8,000 CPS. Output -55 DB. Non-directional. Acoustalloy diaphragm. Tilttable head. On-Off switch. Built-in MC-3 connector. 5/8"-27 thread. Satin chrome finish. Specify if 50 ohms, 150 ohms, 250 ohms, or high impedance is wanted. 8' cable. Shpg. Wgt. 3 lbs.

MODEL 611-8. Net.....\$ 20.87

MODEL V-2A. Velocity mike with smooth, peak-free high fidelity response, 40-10,000 CPS. Output -54 DB. Zero pickup at top, bottom and sides. Bi-directional. For individual or group work in PA, broadcasting or recording. Acoustalloy diaphragm. Internal shock absorber. Locking cradle. On-off switch. 18-foot cable. 5/8"-27 thread. Size: 3 1/2 x 2 1/8 x 8". High impedance. Net \$ 38.22



Mobil Mikes



600D



208



210

MODEL 600D DYNAMIC. Lightweight, hand-held extra-rugged unit for mobile operation. Withstands extreme climatic conditions. Smooth response provides higher articulation and more usable power level. Output -55 DB. Press-to-talk switch controls relay. Black-phenolic case. Size, 2 1/4 x 2 1/4". Mounting bracket. 6-ft. cable. Choice of high or low impedance. Specify type desired. Shpg. Wgt. 2 lbs.

Net \$ 22.64

MODEL 600-DL With switch lock. Net \$ 23.52

MODEL 208 CARBON MIKE. High output single button type with high intelligibility. Ideal for mobile communication. Comfortably hand-held, to be operated 1/4" from lips. Blast proof, water proof, shock resistant. Frequency response, 100-4000 CPS. Output: -50 DB. Press-to-talk switch actuates relay and button simultaneously. Complete with 5-ft. 3-conductor cable. Size: 2 1/4 x 1 1/4 x 1-1/8. Shpg. Wgt. 2 lbs.

Net \$ 9.70

MODEL 210 CARBON MOBIL-MIKE. Rugged black phenolic case. Response: 100-4000 CPS. Output: -10 DB. Single button. Press-to-talk switch. 5 ft. cable. Dash mount clip. Gives clear, crisp speech transmission in communications, public address, call systems and recordings. Shpg. Wgt. 2 lbs.

Net \$ 16.76

Multi-Purpose CENTURY Microphone



CONTACT MIKE

MODEL 915 "CENTURY" CRYSTAL. Very popular low cost crystal mike. Gives remarkable performance in all types of applications. Can be used in any position - in the hand, on a table or stand, or overhead. Smooth response 60-7500 CPS. Output: -50 DB. Moisture-sealed crystal. High impedance. Pressure cast metal case. 5/8" - 27 threaded stand adapter. 7 1/2" ft. shielded cable. Shpg. Wgt. 2 lbs. Net \$ 6.62

MODEL 415 RECLINING DESK STAND. Mounts Century at 15° tilt. Grey brown finish. Size: 2 5/8" x 2 3/4" x 1". Shpg. Wgt. 1 lb. Net \$ 1.00

MODEL 805 CONTACT MIKE For vibrating, musical instruments. Increases sound volume in richest tonal effects. Response: 40-8000 CPS. Hi-Z. Inertia type crystal. 15 ft. shielded cable. Size: 2 1/4" x 1 1/2" x 7/16". Shpg. Wgt. 1 1/2 lbs. Net \$ 11.61

"Your trade-in's worth more at the WALTER ASHE STORE" (45)

"SLIM-X" CRYSTAL MIKE



ON S38 STAND WITH A25 SWIVEL

ON S38 DESK STAND

MODEL 777. All purpose crystal microphone. Universal mounting, may be handheld, mounted on floor or table stand, hung around neck (optional). Response, 60-10,000 CPS. Can be used by lecturers, instructors, announcers, hams, or anywhere small, efficient mike is needed. When mounted on cradle or swivel, can be instantly removed without tools. (Cradle included). Long life, special sealed crystal element. High impedance output. Finished in rich satin chrome. 7-ft. cord. Length $\frac{1}{2}$ ", diameter 1". Shpg. Wt. $\frac{1}{2}$ lb. Net \$ 12.35

MODEL 777S. Same as above with switch. Net \$ 13.52

MODEL S38 STAND. Heavy die-cast base for Model 777 mike. Includes metal screw machine stud for connecting mike adapter to stand base. Net \$ 1.94

MODEL A25 SWIVEL ADAPTER. Long-life high quality swivel connector. Lined with nylon sleeve for scratch-free insertion and removal of mike. Net \$ 3.23

MULTI-IMPEDANCE SUPER-CARDIOIDS



SMALL UNIDYNES

MODEL "SS6S" MODEL "SS5"
(For Broadcast) (For General Purpose)

New Multi-Impedance "Small Unidynes" are perfect performers for broadcasting, high quality public address systems, recording, etc. Multi-Impedance switch on rear of unit quickly changed to impedance of your choice, Low 35-50 ohms, Medium 150-250 ohms, and High Impedance. Model 556S recommended for studio broadcast, television, etc. Model 55S for any fixed station use such as fire, police, etc. These uni-directional moving coil dynamic microphones are highly resistant to mechanical shock and abnormal atmospheric conditions. They reduce reverberation and reflection, decrease random noise energy pickup and allow performer to be up to 75% farther away from mike than is possible with non-directional microphones. Models 55S and 556S are dead at rear. Smooth response, 40-15000 cycles. Fitted with 5/8"-27 thread, fits all standard stands. Size: 3-5/16", 2-3/16", 3-1/16D. Satin chrome finish.

MODEL 556S. Complete with 20 ft. cable, plug, Cannon connector, and live rubber shock isolation unit. Shpg. Wgt. 4 $\frac{1}{2}$ lbs. Net \$ 64.68

MODEL 55S. Complete with 20 ft. cable and plug. Shpg. Wgt. 3 $\frac{3}{4}$ lbs. Net \$ 44.98

CONTROLLED RELUCTANCE MICROPHONES

THE "GREEN BULLET"



MODEL 520 SHURE CONTROLLED RELUCTANCE MICROPHONE. A magnetic unit, especially designed to provide quality music & speech reproduction at moderate cost. The "Green Bullet" is practically immune to the effects of high temperatures & humidity. Stability assured by unique control of the reluctance of the magnetic system. Modern metallic green finish with plated grille. Frequency Response: 100-7000 CPS. Furnished with 7-ft. single-conductor, shielded cable. Output level: -52.5 DB. Shpg. Wgt. 3 lb. Net \$ 11.47



THE "DISPATCHER"

MODEL 520SL CONTROLLED RELUCTANCE DISPATCHER. Ideally suited for use in dispatching work of all types. Not affected by varying conditions of humidity and temperature. A compact and complete unit combining the 520 "Green Bullet" Controlled Reluctance Microphone, the 885A "Grip-To-Talk, Slide-To-Lock" Heavy Duty Switch and the S36A Desk Stand. Long life. Minimum finger fatigue. A firm downward pressure on the grip-bar locks the switch for continuous operation. Microphone and switch preassembled with 7-ft. cable. Shpg. Wt. 4 $\frac{1}{2}$ lbs. Net \$22.64



707A CRYSTAL MICROPHONE

Good quality performance at low cost. Has good response characteristics, is free from peaks. Typical semi-directional pickup. Uses moisture-proof Bimorph crystal. Ideal for low cost P.A. systems, call systems, amateur phone-transmitters and similar applications. Pearl Grey case with rich satin chrome finish on front grille. Case is heavy die-cast. High impedance. Output -51 DB. 2-3/8"D. standard 5/8"-27 thread. Complete with 7 ft. cable. Shpg. Wgt. 2 $\frac{1}{2}$ lbs. Net \$ 9.97

SHURE CABLE TYPE TRANSFORMER

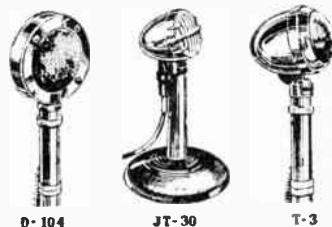


MODEL A86A MIKE CABLE TRANSFORMER. High quality transformer for use with good dynamic microphones. Solves problem of long cable lengths. Matches 35-250 ohm mikes to high impedance amplifier input. Size: 1 5/8x2 7/8". 2 ft. cable. Shpg. Wt. 2 lbs. Net \$ 10.29

MODEL A83B "ON-OFF" SWITCH



Plug-in connection eliminates soldering. Quickly installed. Satin chrome finish. Net \$ 5.00



D-104

JT-30

T-3

CRYSTAL MODEL D-104

MODEL D-104 CRYSTAL MICROPHONE. Close talking mike. Output: -48 DB. Reduced RF feedback. Shock-proof mounted. Response: 30-7500 CPS. Bright chrome finish. Includes interchangeable plug, connector, 5-ft. cable. Shpg. Wgt. 3 lbs. Net \$ 14.47

CERAMIC MODEL D-104-C

MODEL D-104-C Ceramic Element. Same as the D-104 above except for ceramic element which is immune to temperature & humidity changes. Same performance except for slightly lower output of approximately -58 DB. Shpg. Wgt. 3 lbs. Net \$ 14.47

No. 301 replacement crystal cartridge for D-104 microphones. Net \$ 4.12

JT-SERIES CRYSTAL & CERAMIC

Used widely for amateur, public address & home recording. Available in both wide and voice range models. Furnished with concentric cable connector, convenient wood handle, interlocking metal base. Crystal model has 10-ft. cable. Ceramic model has 5-ft. cable. Wood handle may be removed & mike used on a floor stand. Crystal model output level -52 DB. Ceramic models output about -62 DB. Grey with bright chrome grill.

Model	Net
JT-30 Crystal, Substantially flat	\$ 9.97
JT-40 "Rising characteristics"	9.97
JT-30-C Ceramic, Substantially flat	9.94

CRYSTAL MODEL T-3

MODEL T-3 CRYSTAL MICROPHONE. Head may be tilted with ease on swivel mounting and pickup pattern made semi or non-directional, as desired. Output level -52 DB. Frequency response uniform from 30-10,000 CPS. Interchangeable plug & socket connector. All chrome finish. Shpg. Wgt. 3 lbs. T-3 Microphone with 15 ft. cable Net \$16.06

CERAMIC MODEL T-3-C

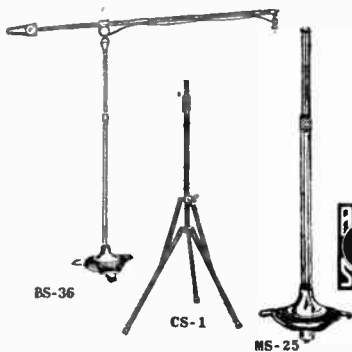
MODEL T-3-C CERAMIC MICROPHONE. Duplicate of Model T-3 except for employment of heat and moisture-immune ceramic element. Output level -62 DB with 5 ft. cable. Shpg. Wgt. 3 lbs. Net \$ 15.02

No. 151 replacement crystal cartridge for JT-30 and T-3 microphones. Net \$ 4.12

LAPEL MODEL L-1



MODEL L-1 LAPEL TYPE MICROPHONE. Dual-diaphragm crystal microphone was developed to meet especially difficult pickup conditions. Includes lapel-type spring clip & over-shoulder cord to permit wide latitude of movement. Output level -62 DB. Uniform frequency response from 30-10,000 CPS. Statuary bronze finish. 25 ft. cable. Shpg. Wgt. 2 lbs. Net \$ 16.08



MODEL BS-36 PROFESSIONAL BOOM STAND. New floor stand with boom for studio use. Moving parts are "Velvet-Smooth" in action. Boom extension and counter-weight adjustable for microphone weight. Boom easily removed if desired to use as regular floor stand. Boom length 72", adjustable vertical extension from 48"-72". Base diameter at floor contact points, 17". All tubular sections superchromed. "Snap-On" hangers for mike cable on boom. Shpg. Wgt. 33 lbs. Net \$ 35.28

MODEL MS-25 STAND. "Full-Grip Velvet Action" heavy base floor stand for studio or other applications. No sudden dropping, slipping, or jamming. Wear-proof clutch mechanism. Self-leveling, shock-absorbing base pads. Base diameter 17". Height adjustment 37"-66". Full chrome plated tubes, base finished in chrome and grey wrinkle. Weight 24 lbs. Shpg. Wgt. 28 lbs. 5/8"-27 thread. Net \$ 12.64

MODEL CS-1 COLLAPSIBLE STAND. For portable PA installations etc. 3-point suspension base. Tube adjustable 23"-62", 5/8"-27 thread. Tubing full chrome plated. Base cadmium plated. Weight 5 lbs. Shpg. Wgt. 7 lbs. Net \$ 9.41

MODEL TS-6 BANQUET STAND. Adjustable from 14 1/2" to 26". Base diameter 8". Chrome tube and base. Shpg. Wgt. 7 lbs. Net \$ 5.29

"FULL GRIP -- VELVET ACTION"
"Full-Grip" clutch mechanism. Will not drop, slip or jam. Heavy bases prevent tipping. Tubing height adjustment 35"-65". Shock absorbing base pads. Base diameter 10". Heavily chrome plated tubing. Terminate in 5/8"-27 thread. Net weight 12 lbs. Shpg. Wgt. 15 lbs.

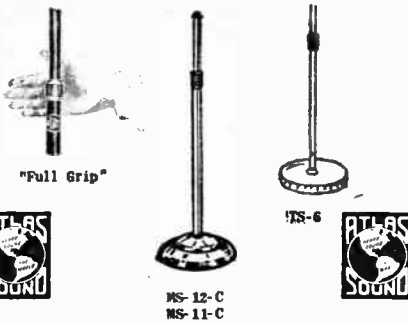
MODEL MS-12C Grey Wrinkle Base Net \$6.17
MODEL MS-11C Full Chrome Base 7.64



MODEL SO-1 "SNAP-ON" ATTACHMENT. A quick and safe means of attaching any microphone to any floor stand. Eliminates need of screwing microphone on. 2 sections snap on, ball bearing spring sleeve permits mike to be attached or removed instantly. One section attaches to microphone, other is permanently attached to stand. All parts are of brass, heavily chrome plated. Net \$ 1.62



MODEL BC-1 BRACKET CLAMP. Can be clamped or permanently screwed on or bolted in position. Chrome tube is 6" long, threaded 5/8"-27. May be used with boom arm, gooseneck, etc. Casting finished in grey wrinkle. Net \$ 2.06



"Full Grip"

MS-12-C
MS-11-C

TS-6



"BABY BOOM" ATTACHMENT

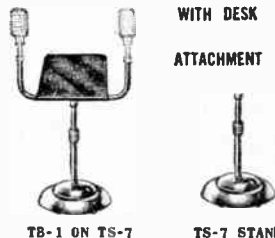
MODEL BB-1 "BABY BOOM" ARM. Simply attached, makes any floor stand a boom. Universal swivel counterweight. Boom length 32". Shpg. Wgt. 5 lbs. Net \$ 4.41

FLEXIBLE GOOSE NECK



MODEL GN-13. Can be attached to any mike stand or fixture. Ends have 5/8"-27 male and female threads. 13" long. Finish, polished chrome. Shpg. Wgt. 1 lb. Net \$ 1.62

DUPLEX MICROPHONE MOUNT



TB-1 ON TS-7

TS-7 STAND

MODEL TB-1 DUPLEX MOUNT. Quickly attached to any stand. Permits the use of two mikes on a single stand. Removable desk attachment holds notes or other reference. Metal parts finished in chrome and chromium. Desk is of molded composition. Desk size 9x11". Shpg. Wgt. 2 1/2 lbs. Net \$ 5.88

MODEL TS-7 BANQUET STAND. For banquet or desk use. Companion unit of Model TB-1. Heavy base is 10" in diameter. All parts are chrome plated. Adjustable tube. Easy to keep clean. Shpg. Wgt. 11 lbs. Net \$ 5.88

"VELVET ACTION" DESK STANDS



DG-7

DG-5

Desk stands for all uses. Terminate in 5/8"-27 thread. 6" base finished in gun-metal grey shrivel, tubular sections are finished in chrome. Base pads prevent damage to desk or table.

MODEL	HEIGHT ADJUST.	WEIGHT	NET
DS-5	4" fixed	2 lbs.	\$ 1.76
DS-7	8" to 13"	3 lbs.	2.94

Flexo FLEXIBLE Microphone Stands



FLEXO MIKESTER GENERAL MODEL #1 - Permits both hands free. Finished in royal grey. Handles any standard mike up to 4 lbs. in weight. Complete, less microphone. Shpg. Wgt. 5 lbs. Net \$ 7.80

FLEXO MIKESTER FLOOR MODEL #3 - Same as above except on 4" floor stand. Complete, less microphone. Shpg. Wgt. 23 lbs. Net \$ 15.90

EASTERN MICROPHONE ACCESSORIES

405	107	112	117
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SHOCK ABSORBER

NO. 405. Mike 5/8"-27. Stand 5/8"-27. Net \$ 1.47

ADAPTORS

NO. 107. Male 1/2" pipe. Female 5/8"-27 thread. Net \$.59
NO. 112. Male 5/8"-27 thread. Female 1/2" pipe. Net \$.88

SWIVEL

NO. 117. Male 5/8"-27 thread. Female 5/8"-27. Net \$ 2.21

MICROPHONE STAND



MODEL "G" STAND. Grip-to-talk mike stand for use with Astatic Models D-104 and T-3. Built-in switch operates with light pressure. Complete with socket connector, 8-ft. 2 wire cable. Chrome and grey wrinkle finish. Shpg. Wgt. 6 lbs. Net \$ 10.88



MODERN DESK STAND

MODEL S-36A. Streamlined desk mount with stable support. Fits Shure connector-type microphone, concealing plug in base. Adapter provided for other type microphones. Removable button for installation of 3/8" switch or volume control. Pearl grey finish. Base 2 1/2"H, 5"W, 7"L. Shpg. Wgt. 1 1/2 lbs. Net \$ 3.53

TAKE-APART STAND



MODEL S-34B. Low cost stand for desk or hand use. One twist of handle locks tube securely in base for use as table stand or releases handle for use in hand. Metal base, wood handle. Tube has 5/8"-27 thread. Fits most microphones. Height overall 6 3/4". base diameter 4 1/2". Shpg. Wgt. 1 lb. Net \$ 1.98

"Your trade-in's worth more at the WALTER ASHE STORE" (47)

WIRELESS

MODEL LC-33

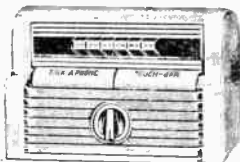


**No Cable
No Wiring**

No wiring, cables, or installation required. Simply plug both units of system in and talk. Quality wireless intercom for use in homes, stores, factories, farms. Operates on 110-120 volts AC or DC. May be easily moved to any convenient electrical outlet and it is ready to work for you. More stations may be added at any time, all stations will receive messages transmitted by any station. Excellent for use as baby sitter. Sufficient volume and sensitivity to receive and handle any application. "Sonic-Gate-Circuit" and exclusive "Squelch" effectively suppress line noises and hum while system is in actual operation as well as when in standby position. Beautifully styled in sturdy, impact walnut bakelite cabinets. Size: 8 1/4 x 6 1/4 x 7 1/2". System consists of two units ready to operate. Complete with instructions and tubes. Shpg. Wgt. 18 lbs.

MODEL LC-33, Net.....\$ 69.95
MODEL LC-17. Additional Stations.
Net Each.....\$ 35.00

6 Station Wireless System



MULTI-STATION WIRELESS INTERCOM. Up to 6 Master stations can be used in separate locations simply by plugging into AC or DC outlet, no installation problems. Requires no wiring or cables. Simply push button of desired station and talk. In system of 6 Masters, up to 3 separate private conversations may be held. Ideal for use where cables and wiring are impractical or not wanted. Any Master can transmit on any of 6 channels, and receive on channel it elects to use. Conferences may be set up easily. You can begin with 2 Masters and add additional Masters at any time. Where some Wireless locations need not originate calls but must reply, the Wireless Staff Station may be used. They can be called and reply on only one channel. No wiring or cables are required on Staffs. Simply plug into convenient AC or DC outlet. Masters and Staffs operate on 110-120 volts AC or DC. Master size: 12x9x7"H. Shpg. Wgt. Master 13 lbs. Staff size: 8 1/2 x 6 1/4 x 7 1/2". Shpg. Wgt. Staff 7 lbs.
MODEL LCM-8806 MASTER, Net...\$ 64.00
MODEL LCS STAFF (Specify channel).
Net.....\$ 35.00



LS-5; LS-10 SUPER

SELECTIVE SYSTEMS



Consists of all Master units. Extreme flexibility of intercommunication whereby any station in system can call any other and carry on a 2-way conversation. As many as five private 2-way conversations can be held at the same time with ten LS-10 Masters. Two private 2-way conversations can be accommodated at the same time with the LS-5 system. All Master stations are private. Stations cannot listen in on each other, nor can a third unit listen in on a conversation of two others. Variable volume, adjustable at each unit. Stations can be located up to 2000 feet apart. 6-conductor cable providing for a total of five units is used with the LS-5 system and is run from the first unit to the second only, from the second to the third only, etc., until the last unit in system is reached. Similarly, on 11-conductor cable, providing for a total of ten units, is used for inter-connecting the LS-10 system. It is not necessary to run cable between the first and last units in system. Cabinets measure 8 1/4 x 6 1/4 x 7 1/2". Operates on 110-115 volts AC-DC. Shpg. Wgt. 8 lbs.

MODEL LS-5. Super selective unit for five stations, complete with tubes and easy-to-follow instructions. Walnut finish.
Each Station, Net.....\$ 26.45
MODEL LS-10. Super selective unit for ten stations, complete with tubes and easy-to-follow instructions. Walnut finish.
Each Station, Net.....\$ 34.00

NO. 5506. 6-conductor cable. For inter-connecting LS-5 units as outlined above.
Net Per Foot.....\$.075
NO. 9911. 11-conductor cable. For inter-connecting LS-10 units as outlined above.
Net Per Foot.....\$.14

DETERMINING CABLE LENGTHS FOR LS-5 AND LS-10 SYSTEMS

To determine cable requirements, for inter-connection of Master stations, measure from first Master to second Master only, from second Master to third Master only,

LM-5; LM-10 MASTER

SELECTIVE SYSTEMS



Consists of one Master unit which can be connected with one or more (up to 10) Sub-Stations. The Master station can talk "privately" to any one of the Sub-Stations or to all at one time. Sub-Stations can be connected "privately" or "non-privately". Has Talk-A-Phone "Silent Feature". Sub-Station whether connected "privately" or "non-privately" can originate calls to Master station. Sub-Stations can be at considerable distances from Master unit. Once a conversation has been initiated, with a "non-private" system, persons at Sub-Station locations need operate no controls and can reply from a distance. Sub-Stations do not consume electric current and can be installed most anywhere. Cabinets measure 8 1/4 x 6 1/4 x 7 1/2". Shpg. Wgt. Master 8 lbs; Sub-Station 5 lbs. Master station operates on 110-115 volts AC-DC.

MODEL LM-5. Master selective station for five Sub-Stations, complete with tubes and easy-to-follow instructions. Walnut finish.
Each Station, Net.....\$ 26.45
MODEL LM-10. Master selective station for ten Sub-Stations, complete with tubes and easy-to-follow instructions. Walnut finish.
Each Station, Net.....\$34.00
MODEL LR-3. Sub-Station unit for LM-5 or LM-10 Master Station. Walnut finish.
Each Station, Net.....\$ 9.35
NO. 5303. 3-conductor cable. For use between each LR-3 Sub-Station and the LM-5 or LM-10 Master units. Net Per Foot...\$.03

OPTIONAL EQUIPMENT

Earphone for privacy is available on all Talk-A-Phone models; LS-5, LM-5, LS-10, and LM-10. ADD to cost - Net.....\$ 12.00

STEWART WARNER



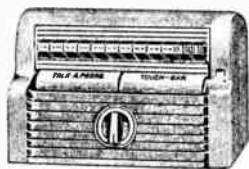
Power Megaphone

For the athletic coach, construction foreman, yard boss, and for handling emergencies. Power Megaphone provides quick, clear projection of voice up to 1/4 mile. Squeeze trigger and unit operates instantly, no warm-up. Completely portable and self-contained, no wires or plug-in. Weighs less than 5 1/2 lbs., neck strap makes it convenient to carry. Operates on six ordinary flashlight batteries for as long as three weeks of normal intermittent use for eight hours a day. Horn diameter 8". Your voice speaks with authority with the Power Megaphone.

MODEL G548500 (Standard Model)
Net.....\$ 58.75

TALK-A-PHONE INTERCOM SYSTEMS AUDIO-HI-FI

"CHIEF" SYSTEMS



CHIEF Master Station

You can talk to one person in strict privacy or to two, ten, or even more persons at one time! Master may talk with any other Master in the system as well as with all Staff stations. Staff station may answer Master stations and originate calls to one, two, or six Master stations, depending on its capacity. Staff stations converse with Master stations only. Persons at "non-private" Staff station may answer from distances up to 50 feet without leaving work. Conferences may be arranged between groups of units. Powerful rugged amplifier with plenty of power for all occasions. Available with Cradle Phone or Earphone at additional cost. Standard finish walnut. All Master stations have junction box attached with 6-ft. cable, complete with tubes and easy-to-follow instructions. Size: 12Wx9Dx7"H. Masters operate on 110-120 volts AC or DC. Staff stations do not require source of current. For additional information, see "Redi-Power" Master units.

- C-4906. 6-station Master. Shpg. Wgt. 13 lbs. Net.....\$ 52.50
- C-4912. 12-station Master. Shpg. Wgt. 14 lbs. Net.....\$ 62.25
- C-4920. 20-station Master. Shpg. Wgt. 17 lbs. Net.....\$ 73.50
- C-4930. 30-station Master. Shpg. Wgt. 20 lbs. Net.....\$ 84.50
- C-4940. 40-station Master. Shpg. Wgt. 22 lbs. Net.....\$ 95.50
- C-4950. 50-station Master. Shpg. Wgt. 28 lbs. Net.....\$ 107.00

STAFF STATIONS FOR "CHIEF" SYSTEMS



C-41 Staff Station



C-46 STAFF STATION

- C-41. Staff stations for origination of calls to one Master. 8Wx7½Dx6¼"H. Shpg. Wgt. 5 lbs. Net.....\$ 12.95
- C-42. Staff stations for origination of calls to two Masters. 8Wx7½Dx6¼"H. Shpg. Wgt. 5 lbs. Net.....\$ 17.00
- C-46. Push button Staff stations for origination of calls to six Masters. 12Wx9Dx7"H. Shpg. Wgt. 9 lbs. Net.....\$ 38.00

CABLE FOR "CHIEF" SYSTEMS

- NO. 6212. 6-pair cable for interconnecting C-4906. Net Per Foot.....\$.14
- NO. 6224. 12-pair cable for interconnecting C-4912, C-4920, C-4930, and C-4930. Net Per Foot.....\$.28
- NO. 6204. 2-pair cable for connecting C-41, C-42, C-46 Staff units. Net Per Foot \$.06

REDI-POWER



Master unit with Cradle Phone

Where greater volume is needed, Redi-Power Masters may be included in any "Chief" system. One or more Redi-Power Masters can be combined with regular "Chief" Master and Staff stations in some system. They are used to call a number of stations simultaneously with sufficient volume, in addition to their ordinary communications purposes. Available in both 10 watt and 20 watt sizes. They are used to call very noisy locations singly and have all the operational features of a regular "Chief" Master, plus the additional features of built-in extra power when needed. Self-compensating amount of volume whether you call two, ten, or twenty stations simultaneously, each one of the stations receives its predetermined volume. There is no division of output as you call more stations at one time. Operates on 110-120 volts AC or DC.

- C-RP-5912. Redi-Power Universal Master for 12-station capacity. 20 watts output. Shpg. Wgt. 18 lbs. Net.....\$ 94.00
- C-RP-5920. Redi-Power Universal Master for 20-station capacity. 20 watts output. Shpg. Wgt. 22 lbs. Net.....\$ 105.25

TWO-STATION

INTER-COMMUNICATION SYSTEM



LC-2

Provides voice communication between any two points in the home, farm, professional office, store, and other commercial or private applications. Consists of one Master unit, a Sub-Station, and fifty feet of cable, complete with tubes and instructions, ready to install. Additional cable can be obtained for greater distances. Optional operation. Sub-Station can be connected for "private" or "non-private" use. When connected "privately", the Master unit cannot listen in on other station. The built-in "Silent Feature" shuts off, at the Master unit, all sounds originating at Sub-Station location when the system is connected "privately", yet permits the Sub-Station to originate calls to Master. It can be connected "non-privately", as for use in the home to listen in on the nursery, and in installations where it is desired that the party at the Sub-Station be able to reply at a distance from the unit. Volume can be adjusted from a whisper to full output of the powerful high gain amplifier. Size: 8¼x6¼x7½". Operates on 110-115 volts AC-DC. Walnut finish. Shpg. Wgt. 12 lbs. MODEL LC-2. Net.....\$ 29.95

DELUXE

COMBINATION



Low cost combination system designed for the more flexible installation where more than one Master station may be desired when used in conjunction with Sub-Stations, Sub-Stations not to originate calls. Masters and Sub-Stations can be intermixed in any combination desired. Masters may talk to each other and to each Sub-Station in system selectively. You can have one or more Sub-Stations that are exclusive to only one Master. Masters have option of switching themselves to "private" so that persons at other Masters cannot listen in on them; or can switch to "non-private" so they can answer at a distance from Master without operation of any controls. Each Master has a volume control. Sub-Stations can reply from a distance without operating any controls. You can begin with two stations (at least one must be a Master) and add other units as required. Sub-Stations cannot talk to each other, do not require a source of current. Masters operate on 110-120 volts AC or DC. Cabinets measure 8¼x6¼x7½". Walnut finish. Shpg. Wgt. Master 7 lbs; Sub-Station 5 lbs.

- MODEL CL-5. Combination Master for five-station use, complete with tubes and full instructions. Net.....\$ 32.35
- MODEL CL-10. Combination Master for ten-station use, complete with tubes, junction box, and full instructions. Net.....\$ 43.50
- MODEL LR-2. Sub-Station for use with either of above Masters. Net.....\$ 9.35
- NO. 6212. 6-pair cable for interconnecting CL-5 Masters. Net Per Foot.....\$.14
- NO. 6224. 12-pair cable for interconnecting CL-10 Masters. Net Per Foot.....\$.28
- NO. 6902. 2-conductor cable for connecting LR-2 units to CL-5 and CL-10 Masters. Net Per Foot.....\$.02
- EARPHONE. Available on CL Masters. ADD to cost.....\$ 12.00

DETERMINING CABLE REQUIREMENTS

To interconnect Master stations, measure from first Master to second Master only, from second Master to third Master only, etc., and total. For C-4920, use two lengths of 6224 cable and for C-4930 use three lengths of 6224 cable. To connect C-41 Staff station, measure from Staff station to the one Master to which Staff station originates calls. To connect C-42 and C-46 Staff stations, measure a separate length of cable from Staff station to each Master station to which Staff station originates calls (for each C-42 or C-46, follow the same procedure).

"CHIEF" OPTIONAL EQUIPMENT

- Where privacy is desired on either Master or Staff, Cradle Phone or Earphone may be ordered.
- For Cradle Phone ADD to cost. Net \$26.45
- For Earphone, ADD..... 12.00
- For "Busy Signal" feature, ADD per station..... 7.00
- For Executive Grey Finish on C-41 and C-42 Staffs, ADD..... 1.50
- For all other models shown, ADD..... 2.50

"Your trade-in's worth more at the WALTER ASHE STORE" 49

MASCO

MIDGETALK



Consists of one Master station with an off-pilot light and one Remote station with 50 feet of connecting cable. Beautiful mahogany finish cabinets. Ideal for homes, offices, and industrial applications. Cabinets are made of unbreakable zinc castings. Master unit has its own volume control with on-off switch and separate press-to-talk switch. Remote may be used for "private" or "non-private" operation. Also has its own press-to-talk switch which allows it to originate a call to the Master. MIDGETALK system may also be used as a 2-way paging system. Remote station can be used for 2-way conversation without manual operation. Ample power output of 2.5 watts. Excellent sensitivity. Natural voice reproduction. The speakers used are 3" Alnico V magnet type. Master operates on 117 volts AC or DC. No power needed for Remote station. Size: 5x4 1/2 x 5 1/2" H. U/L approved. Complete as listed above with full instructions. Shpg. Wgt. 7 1/2 lbs.

MODEL MIDGETALK, Net.....\$ 28.19



FIVE-STATION MULTIPLIER. Permits Masco Midgetalk and Small Talk intercom systems to expand service in simple and economical manner. Up to four additional remotes may be added. Master can call any one or any group up to five remotes. Five switches on panel. Remotes can be made private or non-private. Present Master mounts on top of Multiplier. Easy to install. Complete with 6-ft. cable. Size: 6 1/2 x 5 1/2 x 2". Shpg. Wgt. 2 lbs.

MODEL MM-5, Net.....\$ 7.19

MODEL MTR. Extra remote station for the Midgetalk. Shpg. Wgt. 3 lbs. Net.....\$ 9.41

MODEL ST-1. Extra remote station for the Small Talk. Shpg. Wgt. 2 lbs. Net....\$ 6.54

WHEELER

No batteries or other power source required for these units which will operate up to 25 miles with No. 16 cable twisted or 15 miles with No. 19. As many as twelve phones can be incorporated in system for group conversation. They are explosion-proof and are no fire or spark hazard. Excellent addition to kit of TV servicemen crews for orienting antennas, extensively used by power linemen, construction crews, emergency squads of fire, police, utility workers, etc. Carefully compressed molded exterior with strain relief on cords. Magnets of Alnico material. Speech fidelity excellent. Complete with insulated colored clips on end of 5-ft. cord. Shpg. Wgt. 1 1/2 lbs.

MODEL SPT-102, Net.....\$ 9.62

"SMALL TALK"

2-STATION INTERCOM



A sensitive and powerful two-station intercom system which will save time and steps in any home or business. Very easy to install. System consists of one Master station and one Remote station, 50 feet of interconnecting cable. If desired, one additional Remote station may be added to the system by connecting Remotes in parallel. Master has volume control with on/off switch, separate "press-to-talk" switch, and pilot light. Remotes have "press-to-talk" switch to originate calls to Master. Remotes can be made "private" or "non-private". All units use 4" Alnico V speakers. 1 1/2 watts output. Remotes can answer calls from a distance without operating a switch. Remotes can be left "open" for baby-sitting or dictation, or "closed" for privacy but still able to receive calls from Master. Size: 6 1/2 x 4 1/2 x 4 1/2" H. All-metal unbreakable cabinets finished in brown hammertone. Operates on 117 VAC or VDC. U/L approved. Shpg. Wgt. 6 1/2 lbs.

MODEL ST-2 SYSTEM, Net.....\$ 17.64

MODEL ST-1 Extra Remote Station.... 6.54

WHEELER

SOUND POWERED

INTERCOMM SYSTEMS



No Batteries

TWO-PHONE SYSTEM

Consists of two wall-mounted, self-powered phones which can call each other. Simply remove instrument from mount, depress lever and bell rings at called station. Uses 2-wire interconnecting cable. Safe to use anywhere, no fire or shock hazard, no maintenance. Made of impact-resistant plastics with corrosion-proof metal parts. Crisp and clear speech. Coiled-Kords on phones. Anyone can install. Complete system, less cable. Shpg. Wgt. 7 lbs.

MODEL SPS-205, Net.....\$ 43.89

NO. 8205. 2-conductor cable.

Net Per Foot.....\$.025

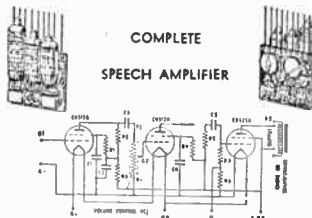
Centralab

PRINTED CIRCUITS

Printed Circuits offer the advantage of compactness, low price and reliability. Components are bonded to a ceramic plate and coated with moisture-proof phenolic for permanence. Connections are brought out to external leads.

"AMPEC"

3 Stage Amplifier



COMPLETE SPEECH AMPLIFIER

"AMPEC" is a complete miniature 3-stage speech amplifier. One compact unit, all the components of an audio amplifier, tube sockets, capacitors, resistors and wiring are permanently bonded to a master plate, size 1-9/32" x 1-5/32" x 5/16" thick. Some suggested uses are hearing aids, mike pre-amplifier, signal tracer, sub-miniature radio sets, etc. Contains 2 .005, 2 .001, 1 .04 mfd. capacitors; 2 2.2 meg, 2 1.0 meg, 1 700K, 1 4.7 meg, and 1 1500 ohm resistors. Capacitors are rated at 150 VDC working, 300 VDC flash. Resistors rated at 1/5 watt. Volume control not furnished. Suggested type is CPL 316-224. Uses Raytheon sub-miniature tube numbers, 2 CK-512AX, 1 CK-525AX. Operates on "B" batteries from 15 to 67 1/2V. "A" 1 1/4V. Complete instructions are included.

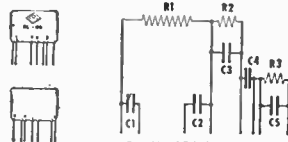
NO. PC-200 "AMPEC", less tubes, batteries and volume control. Net \$ 8.82

NO. B16-224 Vol. Cont. w/switch. 2.35

NO. PC-201 "AMPEC", same as PC-200 but complete with tubes, less batteries and volume control. Net \$ 14.70

"AUDET"

OUTPUT STAGE FOR AC-DC RADIO RECEIVERS



Cat. No. PC-150 AUDET
Consisting of (See drawing)
C1=.002 mfd. C2=230 mfd.
C3 and C5=220 mfd. C4=.005 mfd.
R1=6.8 megohms. R2=470,000 ohms.
R3=470,000 ohms.

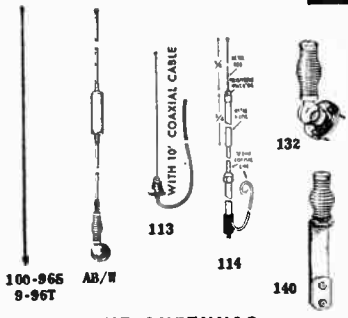
"AUDET" is a printed circuit output stage audio detector plate with 7 leads, and furnishes the components quite generally used in AC-DC sets. Contains 1 6.8 meg, 2 470K resistors, 1 .002, 1 .005 and 3 .00022 mfd capacitors. Size: 1-5/16x7/8x1/8" thick.

"AUDET" NO. PC-150

Net \$.59

50 NEED NEW TEST EQUIPMENT?-We'll Trade In Your Old Units!

ANTENNAS *Master Mobile* MOUNTS



WHIP ANTENNAS

MODEL 100-965. Stainless steel whip for mobile use. Tapered, one-piece construction. 96" long. 1/4"-24 thread stud. Net.....\$ 5.14
If your order is less than \$10.00, add \$4.00 crating charge to Model 100-965.

MODEL 9-96T. Tapered mobile whip, 96" long. Silocon-Chrome, cadmium plated. 1/4"-24 thread stud. Net.....\$ 3.67

ALL-BAND ANTENNA

AB/W SERIES. Center loaded all-band antennas with high efficiency and flexibility. Simply change coils for the different bands; short out coil for 10 meters. Overall length 106". Complete with one coil.

Model		Net
AB/W15	15 Meters	\$ 11.27
AB/W20	20	11.27
AB/W40	40	11.27
AB/W75	75	11.27
AB/W160	160	16.61

COILS FOR ALL-BAND ANTENNAS

M-15	15 Meters	\$ 3.87
M-20	20	3.87
M-40	40	3.87
M-75	75	3.87
M-160	160	7.79

MASTER ROOF-TOP ANTENNA

For police, fire, taxi, hams, etc. Operates in 140-165 MC band. Requires 1/4" hole for installation. Stainless steel whip. Complete with 10' coaxial cable.

MODEL 113. Net.....\$ 3.88

MASTER COAXIAL VHF ANTENNA

Efficient antenna for open type vehicles such as convertibles, station wagons, fire trucks, etc. For 140-165 MC band. Fits Master Mobile mounts. 18" adjustable section. Complete with 10'. 72 ohm coaxial cable.

MODEL 114. Net.....\$ 9.75

EXTRA WHIP for Models 113 and 114 antennas.

MODEL 117. Net.....\$.95

CENTER LOADED ANTENNA SECTIONS

UPPER SECTION. 60" stainless steel whip which mounts into top of coil. For use with Models 666, 333, and HY-Q series.

MODEL 100-60S. Net.....\$ 4.85

LOWER SECTION. 36" long. Mounts on bottom of center loaded coil. Fits Master Mobile mounts.

MODEL 88. Net.....\$ 4.85

MASTER MOBILE MOUNTS

132 SERIES BODY MOUNTS. All made of finest materials. Double tapered spring with swivel base. 1/4"-24 thread stud mounting for antenna. Moisture-proof rubber gasket.

Model		Net
132	Standard model.	\$ 8.57
132C	With coaxial connector.	8.57
132X	Heavy duty.	9.65
132XC	Heavy duty, coax type.	9.65
132XX	Extra heavy duty.	10.63
132SS	Stainless steel.	12.69
132SSC	Stainless steel, coax type	12.69
132XSS	Heavy duty, stainless steel.	14.65
132XSSC	Heavy duty, stainless steel, coaxial type.	14.65

MODEL 118 COAXIAL CONVERSION KIT. Converts 132 mounts to have coaxial connector in base. Net.....\$.98

140 SERIES BUMPER MOUNTS. Double-tapered spring. 1/4"-24 thread stud mounting for antenna. Strong bracket.

Model		Net
140	Standard model.	\$ 6.81
140X	Heavy duty.	7.79
140SS	Stainless steel.	9.46
140XSS	Heavy duty, stainless steel.	10.73

MASTER MOBILE JUNIOR MOUNTS

MODEL 132J BODY MOUNT. Similar to the Model 132 but has slightly smaller spring. Net.....\$ 4.09

MODEL 132JC BODY MOUNT. Same as the 132J but has coax connector. Net.....\$ 5.07

MODEL 140J BUMPER MOUNT. Similar to Model 140 but has slightly smaller spring. Net.....\$ 4.09

MODEL 118J COAXIAL CONVERSION KIT. Converts 132J to have coaxial connector. Net.....\$.88

MASTER MOBILE CENTER LOADED ANTENNAS WITH HY "Q" COILS

Center loaded mobile antennas using the Master Mobile HY "Q" antenna coils. High efficiency and low loss. Coils for different bands are interchangeable. Short out coils for 10-meter operation. Require little or no tuning. Air-spaced coil windings are protective coated with Glyptol. Weather-sealed and extremely lightweight.



ANTENNAS WITH ONE COIL

HY-Q AB15	15-meter coil	Net \$ 13.67
HY-Q AB20	20-meter coil	13.67
HY-Q AB40	40-meter coil	13.67
HY-Q AB75	75-meter coil	13.67
HY-Q AB160	160-meter coil	19.55

HY "Q" COILS ONLY

HY-Q C15	15 meters	Net \$ 6.81
HY-Q C20	20 meters	6.81
HY-Q C40	40 meters	6.81
HY-Q C75	75 meters	6.81
HY-Q C160	160 meters	12.69

ALL-BANDER

VARIABLE MOBILE ANTENNA COIL



Continuously variable from 10 meters thru 75 meters with one coil. Will work with 60" whip. For center or base loading, is non-linear to maintain HY-Q over full frequency range. Tunes with slider contact adjuster at bottom of coil. Positive slider makes perfect contact with coil. Lock knob on adjuster prevents detuning. Lightweight and weatherproof. Size: 2 1/2 x 1 3/4". Shpg. Wgt. 2 lbs.

MODEL 666. Net.....\$ 14.65

MODEL 333 HY-"Q" MIGHTY MIDGET. Same as Model 666 but tunes from 10 meters thru 40 meters. Size: 2 1/2 x 6 1/4". Shpg. Wgt. 1 1/2 lbs. Net.....\$ 9.75

GROUND PLANE ANTENNAS



"DROOPING" TYPE GROUND PLANE

For 2-meter operation. Has four "drooping" radials and matches 52 ohm coaxial cable. Attachable to side of building. Sturdy construction; special alloys used to withstand corrosion and weather. Ceramic insulator, U-bolts and mounting brackets furnished. Shpg. Wgt. 1 lb.

MODEL GP-4 Net \$ 5.83

"MASTERPLANE"

The MASTERPLANE is a "drooping" type ground plane plus four straight radials to give a low angle of radiation for an almost perfect circle radiation pattern. Outperforms any type of vertical dipole. Matches 52 or 72 ohm coax through threaded fitting at bottom end. Can be used with medium or low powered transmitters from 140-162 MC. Ideal for amateur 2-meters, CD and defense nets. Has aluminum alloy rods and sleeve and ceramic top insulator. Sleeve measures 36" from ceramic insulator to base. Easy to install; may be top or side mounted. Shpg. Wgt. 2 1/2 lbs.

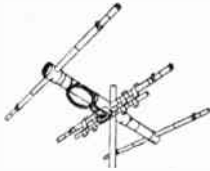
MODEL 300 Net \$ 12.69



MORROW TOP HAT

A capacity hat which increases efficiency of mobile whip antennas. Lower number of turns required on loading coil. Increases effective RF current from top of antenna to ground. Six spikes 9" long screw into hub. Mounts about 10" above loading coil. Tempered aluminum. Lightweight. Low wind resistance. Shpg. Wgt. 1 lb.

MODEL TH. Net.....\$ 2.50



TELREX

"BEAMED POWER" ARRAYS

No "cut and try" necessary with these precision-built, pre-tuned rotary beams. Each array features the special Telrex "Perfect Match" coaxial Balun and T transformer. Calibrated for optimum gain and balanced uni-lobe pattern. Low SWR, minimum TVI. Designed for RG-8/U but other feed lines may be used. Balun and junction block for feed line fully assembled. Center section of each element measures 1 1/2" by 12 ft.; telescoping ends 1 1/4"; all dural construction, lightweight and rugged. Mounts on 2" O.D. mounting mast (not supplied). Complete with full instructions for erection, stacking, and rotating.

2 ELEMENT 20 METER BEAM. Tuned and calibrated, 50 ohm impedance. Power gain 5.6 DB. Beam width 50°. Front-to-back ratio 20 DB. 3" by 6' 4" boom. Weighs 29 lbs.

MODEL 502. Net.....\$ 97.00

3 ELEMENT 20 METER BEAM. Tuned and calibrated, 50 ohm impedance. Power gain 8.9 DB. Beam width 30°. Front-to-back ratio 26 DB. 3" by 16' 3" boom. Weighs 49 lbs.

MODEL 503. Net.....\$ 120.00



TELREX

PRE-TUNED "MINI-BEAM"

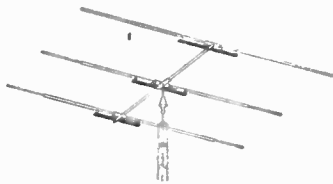
A precision made, compact, lightweight 2-element rotary beam for the 20-meter band. Designed for installations where space is restricted, the reflector measures only 19 feet and the driven element 20 feet. Boom is 2x82" with 2 1/2" center reinforcing section and has single 1 1/2" mounting hole. All dural construction. Compactness is achieved through use of Hi-Q compensating inductors on both the reflector and driven element. Perfect match to 50 ohm coaxial cable is obtained by means of a balance to unbalance transformer link in the driven element compensating inductor. The "Mini-Beam" has a gain of 4.6 DB, a front-to-back ratio of 15 DB or better and a SWR of 1.1:1 to 50 ohm line. Easy to assemble. Weighs only 12 lbs. Can be rotated with TV antenna rotor.

MODEL 520. Net.....\$ 55.50

ANTENNA COUPLING TRANSFORMER



Will improve the signal strength to your TV receiver. Get clear and noise-free reception from your TV set.
 NO. 6161 52/300 or 300/52 ohm Net \$ 1.65
 NO. 6162 72/300 or 300/72 ohm 1.65



MOSLEY ORIGINAL

"VEST POCKET" BEAMS

High gain, compact 20-meter beams using the special Vest Pocket Beam matched loading coils. Ideal for locations where space is a problem. Longest element only 21". Sturdy construction and lightweight; may be rotated with TV rotator. Uses 52 ohm feed line. Elements are hard aluminum alloy tubing with .058" wall thickness; center sections are 3/4" OD, outer sections are 1/2" OD. Booms are 61ST aluminum tubing, 1 1/2" OD, .125" wall thickness. Each beam complete with coils, pre-cut elements and supports, insulators, boom and mounting plate, hardware, and easy assembly instructions. Less mast and feed line.

MODEL VPA-20-2. 2-element VP beam. Complete with 6' boom. Shpg. Wgt. 30 lbs. Net.....\$ 55.95

MODEL VPA-20-3. 3-element VP beam. Complete with 12' boom. Shpg. Wgt. 40 lbs. Net.....\$ 79.95



MOSLEY LOADING COILS FOR VEST POCKET BEAM

Matched sets of factory-made loading coils specifically designed for use in construction of the high gain, compact Vest Pocket 20-meter beam described in May 1954 QST Magazine. Many 10-meter beams can be converted to 20 meters by using these coils. Coils are made to fit elements of 3/4" OD aluminum tubing having .058" wall thickness. For 52 ohm coax feed line. Sturdy construction and weather-protected.

MODEL VP-20-2. Matched coils for 2-element 20-meter VP beams. Shpg. Wgt. 4 lbs. Net.....\$ 16.95

MODEL VP-20-3. Matched coils for 3-element 20-meter VP beam. Shpg. Wgt. 6 lbs. Net.....\$ 24.95

WEBSTER BAND-SPANNER MOBILE ANTENNA

Attords mobile operation on six bands, 75-40-20-15-11-10 meter bands. No external taps or projections, no plug-in coils. Band change is simple, top whip is merely raised or lowered to pre-calibrated setting corresponding to band desired. Factory calibrated mid-band markings. Flexible, stainless steel top whip pushes completely in for storage or low door clearance. Self clean-contacts in loading inductor. The total weight is less than two pounds. Overall height with whip fully extended, 9" 9". Mounting stud 1/2" long, threaded 1/4-24 SAE. Shpg. Wgt. 4 lbs.

BAND-SPANNER. Net....\$ 29.50



ELINCOR

ALL-ALUMINUM BEAMS

MODEL 400EA. 3-element 10-meter beam with folded dipole driven element. Uses .1 wave length spacing for the director and .15 wave length spacing for the reflector. Complete with an aluminum ladder hardware and instructions. Gives a much broader response than the regular single dipole beams and allows beam to be fed directly with 50 ohm coaxial cable. Less cable. Shpg. Wgt. 20 lbs.

MODEL 400EA

Net \$ 37.51



FIVE ELEMENT FOLDED DI-POLE BEAM

MODEL 200EA for 2 meters. Precut for the middle of the 144 to 148 MC band. Boom is 1" aluminum tubing. Elements are 3/8" tubing. Fed with RG8U. Complete with hardware and instructions. Less cable. Shpg. Wgt. 3 lbs. Net \$ 9.06

"HY-LITE" BEAMS



3 ELEMENT 10 METER BEAM

MODEL PD-3E1v. Quick, easy, one man assembly. Element length and spacing fully adjustable. .1 and .15 spacing. Dural tubing and ridged aluminum castings will withstand high winds and gales. Elements are 3/4" and 5/8" diameter, boom is 1". "T" match adjustable for 52 to 300 ohms. Light enough to be operated by most any TV rotator. Completely grounded. Full instructions for length of elements and spacing at different frequencies given. With mast and "T" match. Shpg. Wt. 14 Lb. PD-3E10. 3 Element 10 M. Beam Net \$24.95

15 AND 20 METERS



2 and 3 element 15 and 20 meter beams that are easily assembled and installed. All-aluminum construction. "T" match and 6" mast included. All elements are 7/8" and 1" diameter, booms, 1" diameter. 2 element 20 m. beams use .1 spacing. 3 element 20 m. beams use .075 and .1 spacing. Both 2 and 3 element 15 m. beams use .1 and .15 spacing.

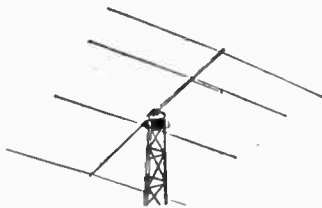
2E20T. 2 Element 20 M. Beam. Shp. Wgt. 22 Lbs. Net \$ 47.95
3E20T. 3 Element 20 M. Beam. Shp. Wgt. 28 Lbs. Net \$ 64.95
2E15T. 2 Element 15 M. Beam. Shp. Wgt. 22 Lbs. Net \$ 45.50
3E15T. 3 Element 15 M. Beam. Shp. Wgt. 28 Lbs. Net \$ 59.00

10 AND 20 METERS STACKED

3-element 10 and 3-element 20 meter stacked arrays with two "T" matches. 10 meter elements 3/4" and 5/8"; 20 meter 7/8" and 1". Both are close spaced. Shpg. Wgt. approx. 50 lbs.

MODEL 6F10-20T

Net \$ 98.95



UHF RESONATOR

**10, 15, AND 20 METER
WIDE-SPACED BEAMS**

High gain, wide-spaced beams with Delta match; ready for assembly. Booms and elements are made of strong duraluminum tubing. All holes are drilled and element clamp assemblies are properly mounted. Built so that beams need be supported at center of gravity only. Reduction of sizes of elements is made by use of machined aluminum bushings that are drilled and tapped in position. Less mounting clamp which is available separately.

20-METER 3-ELEMENT BEAM. Boom is 23' long, 2 1/2" diameter heavy-walled duraluminum in two sections joined by hardwood dowel. Each element consists of 1 1/2", 1", and 3/4" tubing. With Delta match, hardware, and instructions. Less mounting clamp. Shpg. Wgt. 50 lbs.

MODEL RCP-20-3. Net.....\$ 137.50

15-METER 3-ELEMENT BEAM. Boom is 15 1/2" long, 2" diameter heavy-walled duraluminum. Each element consists of 1", 3/4", and 1/2" tubing. With Delta match, hardware, and instructions. Less mounting clamp. Shpg. Wgt. 25 lbs.

MODEL RCP-15-3. Net.....\$ 92.50

10-METER 3-ELEMENT BEAM. Boom is 12' long, 2" diameter heavy-walled duraluminum. Each element consists of 3/4" and 1/2" tubing. With Delta match, hardware, and instructions. Less mounting clamp. Shpg. Wgt. 15 lbs.

MODEL RCP-10-3. Net.....\$ 38.50

10-METER 5-ELEMENT BEAM. Boom consists of 2 1/2" diameter tubing with a 2" diameter extension at each end. Each element made of 3/4" and 1/2" tubing. With Delta match, hardware, and instructions. Less mounting clamp. Shpg. Wgt. 30 lbs.

MODEL RCP-10-5. Net.....\$ 77.00

BEAM CLAMP ASSEMBLY. Electro-plated steel plate and heavy aluminum straps mount boom of beam securely to mast.

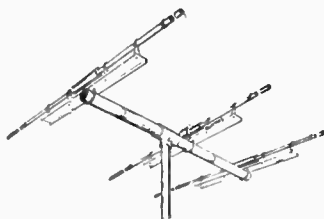
MODEL 108. For 15 and 20 meter beams and 5-element 10-meter beam. Net..\$ 11.00

MODEL 109. For mounting 3-element 10-meter beam. Net.....\$ 9.00

**LYSCO
GROUND PLANE
ANTENNA**



MODEL 316. Gives low angle of radiation. Furnished with five elements of 3/8" aluminum, 9-ft. long. Aluminum base measures 5" square and has two clamps to secure each horizontal element. Threaded pipe flange on bottom of Base to fit standard 3/4" pipe. Coax connector inside of flange to run 52 ohm coax through center of pipe. With simple instructions and curves for obtaining correct element lengths from 28-45 MC. Net \$ 19.95



RADIO SPECIALTIES

**"SHORTBEAM"
3-ELEMENT PRE-TUNED
20-METER BEAM**

Shortened high gain beam. Elements only 16' long. Ideal for limited area installation. Front-to-back ratio 20 DB or better. Weights only 20 lbs. Turns with good TV rotator. Director spacing .1 wavelength; reflector .15. Elements center-loaded with weather-proofed coils. Beam pre-tuned for 20-meter phone band; instructions for adjusting for CW band. Matches 52 ohm coaxial line. Will handle full KW. Telescoping elements, 16' boom, sturdy element supports, and 18" mast stub all made of 61 ST aluminum. Complete with coils, hardware, assembly and tuning instructions. Shpg. Wgt. 30 lbs. **"SHORTBEAM".** Net.....\$ 59.95

**MALLARD
MOBILE ANTENNA
BASE LOADING COILS**



Base loading coils for amateur mobile installations combine all the ruggedness and stability of base loaded type coils with extremely Hi-Q and consequent high efficiency. Built to withstand mobile operation abuse. Weatherproof housing of 1/4" plexiglass; removable threaded plastic nylon end caps. All metal parts are nickel-plated brass. Easily adjusted. Coils have 3/8-24 threads to fit all standard mounts and whips.

TYPE HI-Q 75 COIL. Has two pie-wound coils for greatest efficiency. Powdered iron core slug. Hi-Q throughout inductance range. Heavily insulated copper wire treated to resist moisture and fungus growth. Net \$ 7.95

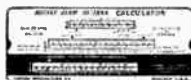
TYPE HI-Q 40 COIL. Same as 75 meter coil except will load through the 40-meter band. Net \$ 7.95

TYPE HI-Q 20 COIL (illustrated). Heavily plated 1/8" solid copper wire. Heavy flexible copper strap permits exact inductance adjustment. Net \$ 8.95

TYPE HI-Q 15 COIL. Same as 20 meter coil except will load through the 15-meter band. Net \$ 8.95

ADAPTERS FOR PREMAX ANTENNAS
Mallard adapters which enable owners of Premax antennas to use Mallard Base Load Coils. Set of 2. Net \$.50

**GORDON
ROTARY BEAM
ANTENNA
CALCULATOR**



An invaluable aid to a ham or engineer interested in figuring rotary beam calculations. Tells instantly correct spacing, length of elements for any rotary beam. Shpg. Wgt. 8 oz. Net \$.98



NEW GONSET 20 METER

"BANTAM BEAM"

ELEMENTS ONLY 16 1/2 FEET LONG

Extremely compact 2 element 20 meter beam. Weights only 27 pounds; may be rotated by any good TV rotator. Elements measure only 16 1/2 feet long; boom is 10 feet. Excellent front-to-back ratio and forward gain. Low standing wave ratio. High "Q" inductors. Design of elements requires less coil turns. Ceramic coil and element supports. For 52 ohm coaxial feed line. Will handle a full KW. Adjustable for optimum performance on either phone or CW sections of the band. No additional tuning is necessary in either case; merely attach the optional element extensions (furnished) if CW operation is desired. With stub mast, less feed line. Shpg. Wgt. 35 lbs.

MODEL "BANTAM 20". Net.....\$ 59.50

PREMAX

Vertical Antenna

A six-section telescoping vertical antenna which is adjustable to a maximum length of 33' 9". Ideal for a 20 meter half wave vertical antenna or for a quarter wave vertical element of a 40 meter ground plane. Measures only 6' 5" when completely collapsed. Made of high-tensile, copper-nickel steel tubing, heavily cadmium-plated and highly resistant to corrosion. Positive, simple-to-operate locking device provides secure and efficient electrical contact between sections. Weights only 20 lbs. and is easily portable. Will withstand ordinary stresses without guying when properly mounted, but guying is advisable against abnormal winds or extreme strains. Bottom section measures 1.50" O.D. and 1.40" I.D. Less base insulator. Shpg. Wgt. 25 lbs.

MODEL 136-M. Net.....\$ 17.64

PREMAX BASE INSULATOR

Rigid post type heavy duty base insulator for Model 136-M antenna. Has compression rating up to 10,000 lbs. Metal support is made of rugged galvanized iron. Base of antenna bolts securely to top post which has 1 1/2" diameter.

MODEL 1PG-44. Net.....\$ 17.64

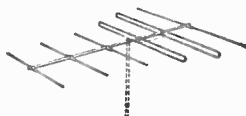
CROWN ROLLER BEARING GUY RING

Allows antenna masts to be rotated without loosening or resetting guy wires. Roller bearing assures easy turning in any weather. May be used with up to 6 guy wires. Cast aluminum construction. Fits any size mast. Complete with hardware. Shpg. Wgt. 2 1/2 Lb.

MODEL GR-1 Guy Ring NET \$ 3.50

"Your trade-in's worth more at the **WALTER ASHE STORE**" 53

**"TRINAMIC"
3-CHANNEL
VHF YAGI**



Specifically designed to cover channels 4, 5, 6, twin driven "Trinamic" offers high gain and sharp selectivity. Fully factory assembled, only necessary to swing elements into position and lock them into place. Ideally adapted to use with rotar. Complete with connecting bars and "U" bolts for mast. Less lead and mast. Shpg. Wgt. 10 lbs.

MODEL 1420-C "TRINAMIC". Net \$ 11.61

**10-ELEMENT
LOW BAND
VHF YAGIS**



10-element deluxe low band VHF yagi antennas with two-diameter dipole cut specifically for each channel. High gain, single channel antennas with high front-to-back ratio. Excellent for fringe areas. Polyethylene insulator. Easy to install. Less mast and lead-in. Shpg. Wgt. 12 lbs.

Model	Channel	Net
1310A-2	2	\$ 17.93
1310A-3	3	16.91
1310A-4	4	15.88
1310A-5	5	13.52
1310A-6	6	12.64

**10-ELEMENT
HIGH BAND
VHF YAGIS**



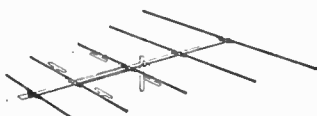
10-element single channel high band VHF yagi antennas with two-diameter dipole. Sturdy one-piece crossarm for strength and easy installation. High gain and high front-to-back ratio. May be stacked for additional gain. 300 ohm impedance. Less mast and lead-in. Shpg. Wgt. 7 lbs.

Model	Channel	Net
1850-7	7	\$ 7.35
1850-8	8	7.35
1850-9	9	7.35
1850-10	10	7.35
1850-11	11	7.35
1850-12	12	7.35
1850-13	13	7.35

MODEL 1852 STACKING KIT. For two-bay stacking of 1850 antenna. WHEN ORDERING, SPECIFY CHANNEL. Any channel - Net.....\$ 7.3

**TACO
TRAPPER**

CHANNEL 2-13, Plus UHF

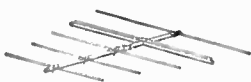


FOR UHF PRIMARY AREAS
HIGH GAIN ON ALL VHF

A new departure in antenna design. Covers VHF channels 2-13. For use in any TV area, metropolitan, suburban, or fringe. Extra high gain, freedom from interference and ghosts. Will stand extreme weather and icing conditions. Designed for permanence, all aluminum elements, fiberglass insulators. All 15 elements work at all frequencies in both high and low bands at all times. Will work in color TV. Easy to install. 300 ohm impedance. The Trapper will also work on all UHF channels in primary UHF areas. Tubular lead-in recommended when UHF reception is contemplated. Less lead-in and mast. Shpg. Wgt. 7 lbs.

MODEL 1880 "TRAPPER". Net....\$ 10.70
MODEL 1882. 2-bay stacking kit..... .88
MODEL 1884. 4-bay stacking kit.....3.09

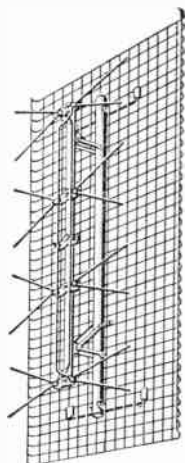
**HIGH BAND
VHF YAGIS**



5-element single channel high band VHF yagi antennas with two-diameter dipole. Easy installation. Matches 300 ohm lead. May be stacked for additional gain. Less mast and lead-in. Shpg. Wgt. 4 lbs.

Model	Channel	Net
1350-7	7	\$ 4.70
1350-8	8	4.70
1350-9	9	4.70
1350-10	10	4.70
1350-11	11	4.41
1350-12	12	4.41
1350-13	13	4.41

MODEL 1352 STACKING KIT. For two-bay stacking of 1350 antenna. WHEN ORDERING, SPECIFY CHANNEL. Any channel - Net.....\$ 1.06



HIGH GAIN

UHF ANTENNA

Four bow ties stacked for highest gain in weak signal areas. Screen reflector cancels out reflected signals. Completely factory assembled, no loose parts, ready to attach to mast in seconds. Complete with mounting brackets. Sturdy construction withstands icing conditions and high winds. Tubular lead-in recommended. Less mast and lead-in. Shpg. Wgt. 5 lbs.

MODEL 3034-C. Net.....\$ 6.32

Two-bay stacking kit with interconnecting lines to mount two 3034-C units side-by-side. Shpg. Wgt. 2 lbs.

MODEL 3035-C. Net.....\$ 3.82

**LOW BAND
VHF YAGIS**



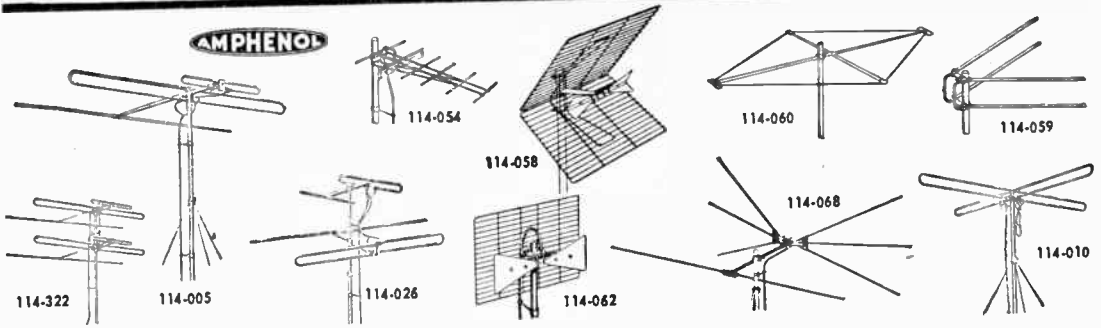
5-element low band VHF yagi antennas with two-diameter dipole for 300 ohm match. Types specifically designed to operate on channels 2, 3, 4, 5, or 6. Increased gain, high directivity. May be stacked. Less mast and lead-in. Shpg. Wgt. 7 lbs.

Model	Channel	Net
1325A-2	2	\$ 9.41
1325A-3	3	8.82
1325A-4	4	7.64
1325A-5	5	7.06
1325A-6	6	7.06

MODEL 1327 STACKING KIT. For two-bay stacking of 1325 antenna. WHEN ORDERING, SPECIFY CHANNEL. Any channel - Net.....\$ 2.21

AMPHENOL TV ANTENNAS

ANT



"INLINE" VHF ANTENNA

For all VHF channels, 2-13. Consists of two broadbanded folded dipoles and low band reflector. Minimizes ghosts. Sturdy aluminum elements and supports. Complete with rustproof 3/4" 5-foot mast, 75 feet twin lead, mounting plate, guy clamp, and instructions. Shpg. Wgt. 6 lbs.
MODEL 114-005. Net.....\$ 11.47

MOUNTS WITH UHF ANTENNA

Same as Model 114-005 but has feed-thru mast clamp which will permit mounting of UHF antenna on mast above VHF antenna. Accommodates masts 3/8" to 1 1/2". Less lead-in and mast. Shpg. Wgt. 5 lbs.
MODEL 114-040. Net.....\$ 7.94

ADAPTER KIT

For building Model 114-005 into stacked array, includes single bay, connecting rods for symmetrical feed, two box brackets, two 5-foot lengths of 1 1/2" mast, guy ring, and standoff insulators. Shpg. Wgt. 6 lbs.
MODEL 114-301. Net.....\$ 12.05

STACKED "INLINE" ANTENNAS

Two-bay stacked array for all VHF channels, 2-13. Consists of top and bottom bay, connecting rods, two mast brackets, two 1 1/2" 5-foot masts, guy ring, standoff insulators, and 100 feet transmission line. Supplied in quick-up assembly form. Shpg. Wgt. 18 lbs.
MODEL 114-322. Net.....\$ 22.64
 Same as above but less lead.
MODEL 114-302. Net.....\$ 20.58

"PIGGY-BACK" VHF ANTENNA

Consists of high band folded dipole and reflector on one plane and low band folded dipole with reflector underneath. For use on VHF channels 2-13 with single transmission line. May be oriented to receive signals from different directions. Complete with 75 feet transmission lead. Shpg. Wgt. 8 lbs.
MODEL 114-026. Net.....\$ 11.47
 Same as above but less lead.
MODEL 114-029. Net.....\$ 10.00

ANTENNA MAST EXTENSIONS

1 1/2" diameter, 5-ft. long. Alloy steel tubing. Guy ring and two clamp type standoff insulators included.
NO. 114-291. Net.....\$ 1.76

3/4" diameter, 5-ft. long. Guy wire clamps included.
NO. 114-300. Net.....\$ 1.76

UHF CORNER REFLECTOR

Designed for high gain overall UHF channels 14-83. Has good horizontal and vertical directivity characteristics, excellent antenna for use in areas troubled with "ghosts" and interference. Desirable in low signal areas because it provides ascending signal gain of 8-13 DB across UHF channels. Sturdily constructed to withstand high winds and ice loading. Aluminum elements, electro-galvanized reflectors, other steel parts cad-plated. Light in weight and easy to assemble. Complete with two U-bolts to take mast up to 1 1/2". Matches 300 ohm line. Less mast and 300 ohm line. Shpg. Wgt. 8 lbs.
MODEL 114-058. Net.....\$ 7.35

STACKING HARNESS

Provides 13-17 1/2 DB gain when stacking two 114-058 Corner Reflectors. Shpg. Wgt. 8 oz.
MODEL 114-067. Net Each.....\$ 1.15

UHF BO-TY AND REFLECTOR

Completely preassembled uni-directional UHF antenna designed for all channels 14-83. Has signal gain of 5 1/2 to 8 DB on all channels. Reflector minimizes "ghosts". Excellent primary and fringe area antenna. May be stacked easily, each antenna supplied with one stacking rod, two antennas contain all necessary parts for stacking. Mounts on any mast 3/8" to 1 1/2". Less mast and 300 ohm line. Shpg. Wgt. 4 lbs.
MODEL 114-062. Net.....\$ 3.38

UHF YAGI ANTENNA

Eight models for all channels listed below. All have maximum gain due to extra wide spacing. Will stand storms and high wind. Engineered to reject signals off back and sides. Single forward lobe with excellent directional response. Completely assembled. Specify channel coverage desired after part number, as 114-054 (71-83).
 For Channels For Channels For Channels
 14-17 31-38 60-70
 18-23 39-48 71-83
 24-30 49-59
MODEL 114-054. Net Each.....\$ 2.94

YAGI STACKING HARNESS

Especially designed to provide maximum possible gain for each yagi. When used with two identical 114-054 yagis will provide up to 14 DB gain over a folded dipole cut to that frequency. Constructed of aluminum wire. Specify yagis with which it is to be used such as 114-066 (14-17), etc. Shpg. Wgt. 2 lbs.
MODEL 114-066. Net Each.....\$.59

UHF RHOMBIC ANTENNA

Covers UHF channels 14-83. Recommended for areas troubled with reflections which are minimized by narrow horizontal directivity of antenna. Also desirable in signal intensity because of high gain. Has elements of non-corrosive aluminum tubing. Withstands high winds and icing. 14-271 Amphenol lead-in recommended. Less mast and lead-in. Shpg. Wgt. 4 lbs.
MODEL 114-060. Net.....\$ 7.94

STACKED V UHF-VHF ANTENNA

One antenna for all channel reception, 2-83. Angle between elements adjustable to three different angles for UHF, VHF, or UHF-VHF. Preassembled for easy installation. Rigid-mounts to mast at two points. Elements of 3/4" non-corrosive aluminum tubing. Amphenol 14-271 lead recommended. Less mast and lead-in. Shpg. Wgt. 3 lbs.
MODEL 114-059. Net.....\$ 5.73

VHF CONICAL ANTENNA

Broadband, high gain conical antenna providing coverage of all VHF channels. Lightweight, all aluminum, entirely pre-assembled. Constructed of seamless tubing. Less mast and lead. Shpg. Wgt. 6 lbs.
MODEL 114-068. Net.....\$ 7.35

COMPLETE WITH ACCESSORIES

Same as above, with mast, standoff insulators, 50 feet 300 ohm line, lightning arrester, and twin lead connectors. Shpg. Wgt. 10 lbs.
MODEL 114-076. Net.....\$ 11.47

TWO BAY STACKING HARNESS

Designed to stack two Model 114-068 VHF conicals. Shpg. Wgt. 8 oz.
MODEL 114-078. Net.....\$ 1.62

TWO BAY CONICAL ANTENNA

For VHF fringe area use. Provides up to 11 DB gain. Complete with stacking harness. Less mast and lead. Shpg. Wgt. 12 lbs.
MODEL 114-077. Net.....\$ 15.26

FOUR BAY CONICAL ANTENNA

For ultra fringe long distance reception on all VHF channels. Complete with stacking harnesses. Less mast and lead. Shpg. Wgt. 25 lbs.
MODEL 114-075. Net.....\$ 32.31

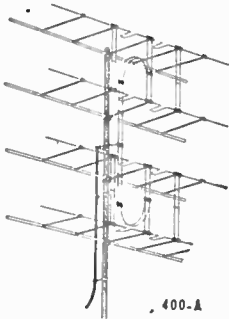
FM ANTENNA

All-directional double-folded dipole type. For complete FM band, requires no rotating. Sturdy aluminum construction, withstands high winds and severe icing. Complete with mounting plate and 75 feet of 300 ohm lead, mast. Shpg. Wgt. 10 lbs.
MODEL 114-010. Net.....\$ 9.55

"Your trade-in's worth more at the WALTER ASHE STORE" 55

FINCO

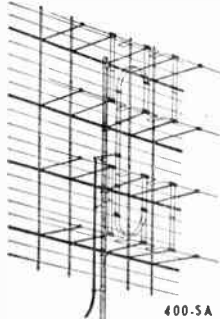
UHF-VHF ALL CHANNEL TV ANTENNAS



400-A

Sensational antenna that permits reception of all channels - VHF and UHF - up to 150 miles and more on VHF. Double co-lateral TV antenna uses only ONE lead from array. Completely preassembled and easy to install, weighs only 8 lbs. Has 32 driven elements which provide remarkably high gain, excellent directivity and superior signal-to-noise ratio. Requires 10-ft. mast. Constructed of weatherproof aluminum. Less mast and lead. Shpg. Wgt. 14 lbs.

MODEL 400A. Net.....\$ 32.34



400-SA

Super fringe area antenna with full length electronic screen reflector affording maximum gain and efficiency in front-to-back ratio eliminating to a great extent troublesome rear interference signals and ghosts. Has 80 square feet of high efficiency reflector surface. Screen designed for minimum wind resistance. Aluminum rods and channels with stainless steel hardware. Antenna and screen are preassembled as one integral unit, made ready for installation in a few minutes. Shpg. Wgt. 17 lbs.

MODEL 400-SA. Net.....\$ 39.69

FRO-BAC REFLECTOR SCREEN FOR MODEL 400-A

Fro-Bac full reflector screen as used on Model 400-SA to convert Finco Models 400 and 400-A to antenna which will effectively minimize rear interference and ghosts.

Full 80 square feet of electronic screen. Unit preassembled and easily applied to 400 and 400-A. Shpg. Wgt. 5 lbs.

MODEL 14-S. Net.....\$ 8.82

AMPHENOL

TELEVISION INSULATORS



Standoff insulators for all TV and FM applications. Available in wood screw, machine screw, and noil-in types.

FOR FLAT TWIN-LEAD

Number	Length	Type	Net
66-202	3 1/2"	14 Wood Screw	\$.03
66-204	3 1/2"	10-32 Machine Screw	.04
66-209	7 1/2"	14 Wood Screw	.05
66-210	7 1/2"	10-32 Machine Screw	.05
66-211	3 1/2"	Noil-in Type	.04

FOR 300 OHM TUBULAR TWIN-LEAD

66-214	7 1/2"	14 Wood Screw	.05
66-215	3 1/2"	14 Wood Screw	.03
66-216	7 1/2"	10-32 Machine Screw	.05
66-217	3 1/2"	10-32 Machine Screw	.04
66-218	3 1/2"	Noil-in Type	.04

FOR COAXIAL CABLES

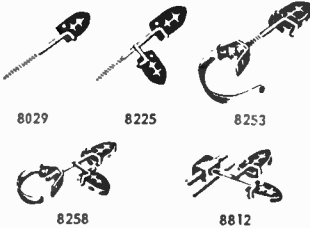
66-201	3 1/2"	14 Wood Screw	.04
66-203	3 1/2"	10-32 Machine Screw	.04
66-208	7 1/2"	14 Wood Screw	.05
66-219	7 1/2"	10-32 Machine Screw	.06
66-212	3 1/2"	Noil-in Type	.05

Polystyrene flat twin-lead insulators for 300 ohm line.
NO. 66-909. Net Each.....\$.05



"SWING-IN"

TELEVISION LEAD-IN INSULATORS



Low loss - NO METAL ground lead-in. Universal insulator made of finest polyethylene will accommodate most any type of UHF or VHF lead-in, flat, tubular, or open line. Lead-in slips into open insulator which swings into closed, locked position or end of stand-off. Sturdy, heavily plated steel stand-off is rust and corrosion resistant.

PART NO.	DESCRIPTION	NET
EZ-8027	3 1/2" Wood Screw Single	\$.05
EZ-8029	7 1/2" Wood Screw Single	.06
EZ-8225	7 1/2" Wood Screw Double	.17
EZ-8253	Mast Strap, 3 1/2"	.13
EZ-8257	Mast Strap, 7 1/2"	.15
EZ-8258	Mast Strap, 7 1/2" Double	.21
EZ-8813	Eave Clamp, 7 1/2" Single	.29
EZ-8812	Eave Clamp, 7 1/2" Double	.35



SUPEREX

Radio Antennas

FERRI-LOOPSTICK. Standard Ferri Loopstick replaces old-fashioned loop, and boosts performance amazingly. 2 1/2 times more sensitive than old-fashioned loops. Omni-directional, equally sensitive in all positions. Pulls in hard-to-get stations that cannot be heard with loops. Unaffected by adjacent metallic or inductive elements. Size: 7/16x2-1/4".

TYPE FL Net \$:.44

VARI-LOOPSTICK. The latest development in the Loopstick. Micrometer adjustment and one hole snap-in mount. Adjustment for maximum efficiency on several stations consecutively. Average effective "Q" is 250, 2 1/2 times that of ordinary loops. Omni-directional. Higher signal-to-noise ratio. Unaffected by adjacent metallic or inductive elements. Size: 7/16x2-1/4".

TYPE VL Net \$:.59



SUPEREX ENERGIZED FERRI-LOOPSTICK

Even brand new radios, still equipped with oldfashioned loop antennas, can benefit from this "hot" loopstick. Adds 20% gain to even the powerful Ferri-Loopstick. Q up to 350, will outperform any coil with a core three times its length. One-hole snap-in mount; self-locking vinyl adjustment collar.

TYPE EFL. Net.....\$.88



VARI-TENNA

Modern replacement for oldfashioned hook of wire and antenna coil. Boosts sensitivity and gain up to 25 times. Pulls in hard-to-get stations.

TYPE VT. Net.....\$.73



HAMILTON TELEMIX

MODEL TV-704. Designed to operate 2 to 4 TV sets from one high gain aerial. Low insertion loss and greatly minimizes inter-connection between sets. Matches 300 ohm aerial and TV sets. Easy to install. Size: 4x4x1". Operates on UHF. Net \$5.00

MODEL TV-706. A low loss impedance type TV antenna mixer that will connect up to six TV sets to one antenna. Maintains line match and minimizes inter-set interference. Ideal for small apartment buildings. Easy to install either indoor or outdoor. Operates on UHF. Net \$6.32



OPEN WIRE LINE



TYPE "OL" OPEN LINE. Efficient TV lead-ins for UHF or VHF. Extremely low loss, minimum attenuation when wet or in inclement weather. Only 1/6 the loss of 300 ohm flat twin-lead. Sturdy polystyrene insulators spaced 6" apart. Copper wire with steel core. 100 feet on roll. Shpg. Wgt. 3 lbs. Net \$ 4.00

TV ANTENNAS FOR VHF AND UHF ANT

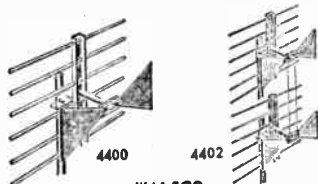
WALSCO



WALSCO UHF CORNER REFLECTOR ANTENNA

Designed for UHF all-channel reception. Uni-directional, high gain (10-14 DB) on channels 14-83. Highly directive, eliminates or minimizes "ghosts", interference. Front-to-back ratio 15:1. All parts pre-assembled for easy installation. Strong molded insulator. Completely weatherproof. For use in primary, secondary, or fringe areas. 300 ohm tubular or open line recommended. Less mast and line. Shpg. Wgt. single bay 4 lbs.

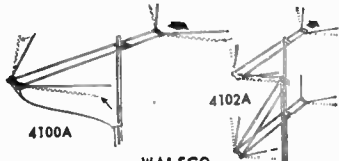
MODEL 4450 Single Bay. Net.....\$ 5.85
 MODEL 4452 Dual Stack. Net.....11.73
 MODEL 4450-2 2-Bay Stacking Kit.....2.94



WALSCO REFLECTO-FAN UHF ANTENNA

Consists of bow-tie and reflector. High gain on all TV UHF channels 14-83. Easily stacked. For use in 15-30 mile primary areas. Minimizes "ghosts". Gain: single bay 7 DB, dual 10 DB, four stack 13 DB. Tubular or open line recommended. Less line and mast. Shpg. Wgt. single bay 2 lbs.

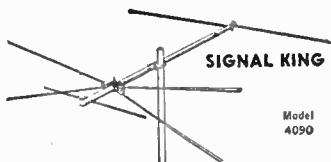
MODEL 4400 Single Bay. Net.....\$ 3.23
 MODEL 4402 Dual Stack. Net.....6.88
 MODEL 4405-1 2-Bay Stacking Kit......47
 MODEL 4405-2 4-Bay Stacking Kit.....3.97



WALSCO DUAL-VEE UHF-VHF ANTENNA

Designed for areas with TV stations on UHF, VHF, or both. Elements adjustable for UHF, VHF, or both. Completely assembled, only four wing nuts to tighten. Strong insulators. High gain on all channels 2-83. Easy to stack. Tubular or open line recommended. Less line and mast. Shpg. Wgt. single bay 4 lbs.

MODEL 4100A Single Bay. Net.....\$ 4.41
 MODEL 4102A Dual Stack. Net.....10.44
 MODEL 4005-9 Stacking Kit converts two 4100A to one 4102A. Net.....\$ 1.70



SIGNAL KING

Model 4090

FOR VHF

WalSCO Signal King Conical Antennas have proved to be efficient in fringe areas and high noise centers. High gain on all channels, no weak spots. Readily stacked for fringe areas. New insulator design. Marine type aluminum alloy elements. Complete with hardware, less mast & lead.

NO. 4090 Single Bay Net \$ 5.44
 NO. 4005-7 Stacking Kit to convert 2 single bays to one dual stack. Net \$.88
 NO. 4005-8 Stacking Kit to convert 2 dual stacks to one 4-bay stack. Net \$ 3.29

WALSCO

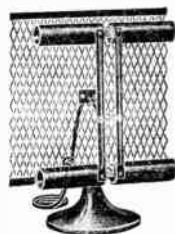
"UHF U-INSTALL" ANTENNA KITS

Kits contain everything for average home installation, complete antenna, one 6-ft. mast (1 1/4" OD), one mast base; one guy wire ring, 40 feet guy wire, 50 feet 300 ohm tubular lead-in, three screw eyes, two mast stand-off insulators, three wood screw stand-off insulators.

4406 KIT. Single bow-tie and reflector. For primary areas. Includes all parts as listed above. Shpg. Wt. 5 lbs. Net \$7.06

4407 KIT. Dual stack bow-tie and reflector. For fringe (up to 25 miles) areas. Includes all parts as listed above. Shpg. Wt. 7 lbs. Net \$9.41

4456 KIT. Corner reflector antenna. For fringe areas and where ghost rejection and extra high gain are needed. Includes all parts as listed above. Shpg. Wt. 12 lbs. Net \$11.14



TRICRAFT UHF INDOOR ANTENNA

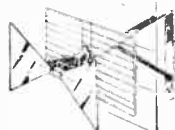
Consists of a two-element array with a plane reflector. Has good front-to-back ratio and has gain of over 7 DB. Its narrow beam in the horizontal plane makes ghost suppression possible by properly orienting the antenna. Measures only 12" from side to side; may be conveniently placed on top of the TV set. Covers all UHF channels and provides excellent impedance match over the band. Completely assembled with 6-ft. lead-in. Shpg. Wgt. 3 lbs. MODEL 210. Net.....\$ 7.61

TELCO INDOOR

UHF-VHF ANTENNA



"Golden Halo" indoor antenna designed for quick installations in strong signal areas. Gold finish makes attractive appearance on top of TV set. "Halo" measures only 9" across and may be tilted at any angle. Weighted base will not tip. Complete assembled with 3-ft. lead. Shpg. Wgt. 1 lb. MODEL 9000. Net.....\$ 2.31



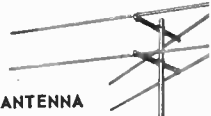
TELCO UHF WINDOW-TENNA

Ideal UHF antenna where roof installation is not feasible and where indoor antenna may not furnish enough gain. Consists of bow-tie antenna and reflector which mount on end of sturdy supporting brackets. Easy to mount; uses two wood screws to attach brackets to outside of window frame. Wall near window. Antenna may be rotated and locked in position after direction of best reception is determined. Shpg. Wgt. 3 1/2 lbs.

MODEL 9056. Net.....\$ 4.21

RADELCO

UHF-VHF



STACKED Y ANTENNA

High gain antenna covers all TV channels 2-83. Increases in gain with increasing frequency, thus compensating for greater losses and lower receiver sensitivity at the high frequency end of the band. Light and sturdy. Matches 300 ohm line. Shipped pre-assembled. Less mast and line. Shpg. Wgt. 3 1/2 lbs.

MODEL US-102. Net.....\$ 3.

STACKING BARS for the US-102 antenna
 MODEL RQ-24. Net.....\$ 1.41

"Your trade-in's worth more at the WALTER ASHE STORE" 57

ANTENNA KIT



Contains 50 ft. 7x26 bare copper aerial wire, one ground clamp, 25 ft. No. 16RC lead-in wire, 2 porcelain insulators, 2 porcelain nail knobs, one window lead-in strip, one lightning arrester and instructions. Shpg. Wgt. 3 lbs.
MODEL 507 Net \$ 1.15

LEAD-IN STRIPS



12" long with Fahnestock clips at either end. Shpg. Wgt. 4 oz.

NO. 611 Single Net \$.08
NO. 2611 Doublet Net \$.18

AERIAL SPRING ADJUSTER



Corrects excessive sag of antennas and prevents swinging. Shpg. Wgt. 8 oz.
NO. 765 Net \$.33



GROUND CLAMP

Heavy construction, will not bend or lop when put on pipe. Fits pipes 3/8" to 1-3/8" O.D.
NO. 58 Net Each \$.16

GUY LOCK



MODEL RK-1. Replaces any old style turn-buckle and mounting screw. Husky, positive spring action ratchet and dog. Safety locking pin included. Cable hole large enough for any size guy wire, unlimited take-up. Easily mounted with screw furnished. Shpg. Wgt. 8 oz.
 Net \$.29



EAZON



3WA

GP

Z MATCH ANTENNA CONNECTOR

Makes an ideal junction wherever coaxial cable is used to center feed doublets. Simple to install, easily waterproofed. Mechanical design permits natural electrical match when assembled. For RG/8 or RG/11.

TYPE 3WA. Net.....\$ 4.60

GROUND PLANE ANTENNA JUNCTION

Designed to give good low cost junction for feeding a vertical or ground plane antenna. Accommodates either a rigid vertical pipe, rod, or wire for the radiator. Ground plane radials may consist of wires which terminate at junction with four lug connections. May be used on any frequency. Uses coax connector to terminate feeder.

MODEL GP. Net.....\$ 2.95

MODEL Q. Double male connector..... .70
BRACKET for mounting GP to wood or metal support. Net.....\$.75



AMATEUR FOLDED DIPOLE



Inexpensive, rugged and easy to install. Consists of 2 lengths of Amphenol 14-022 high strength #16 copper-clad steel conductor twin lead for dipole portion, 75 feet of 14-056 standard 300 ohm twin lead for lead-in portion, high strength laminated "T" block and assembly instructions.

Number	Band	Net
139-010	10 Meter	\$ 5.24
139-020	20 Meter	5.88
139-040	40 Meter	7.64
139-080	80 Meter	11.03

RADIART SPEE-DEE CHIMNEY MOUNT



MODEL AK-85. Fastest and easiest mount to install. Consists of two complete mounts which hold masts up to 1-3/4" in diameter. Simply thread strap through mount, wind strap around chimney and tighten ratchets on mount. Cannot slip. No nuts, bolts, or washers to get lost. Galvanized strapping included. Mount is made of heavy gauge, zinc-plated steel. Shpg. Wgt. 6 lbs. Net \$ 2.32

B&W ANTENNA CONNECTOR

Waterproof joint for coupling of coaxial cable. Also serves as center insulator for half-wave doublets. Shpg. Wgt. 2 lbs. Net \$ 5.85



M. C. JONES



Micromatch instruments are designed to measure Standing Wave Ratio and RF power of transmission lines.

Designed for 70 to 300 ohm impedance lines. Range 3 to 30 MC, power 0 to 1,000 watts. Size: 7 1/2 x 4 1/2 x 4 1/2". Shpg. wgt. 4 lbs.
MODEL MM-1. NET.....\$32.50

MODELS MM-2/MM-3/MM-4/MM-5. Unit may be placed in coaxial line at any point or inside of transmitter. Indicator unit may be placed at any distance from the coupler. Frequency range 3 to 162 MC. Directivity more than 20 DB. Coupler unit size: 5 3/8 x 4 1/2 x 2; indicator size: 4 1/4 x 4 1/4 x 4 1/2. Price includes coupler and indicator. Shpg. wgt. 5 lbs.

Model	Power Rating	Impedance	Net
MM-2	20-500 Watts	52 Ohms	\$41.25
MM-3	20-500 Watts	72 Ohms	41.25
MM-4	2-500 Watts	52 Ohms	44.50
MM-5	2-500 Watts	72 Ohms	44.50

Instruments for measuring RF power and SWR from .5 to 225 MC, power level up to 1000 watts.
MODEL 261. Coupler unit only equipped with UHF type RF connectors. Can be incorporated directly into transmitter. Capable of supplying reading of incident RF power, reflected RF power, RF power to antenna, and VSWR of load. Complete with instructions. Impedance 52 ohms. Net.....\$ 22.50

MODEL 262. Indicator only. To be used with Model 261. May be adjusted from 10 watts to 1000 watts. Net.....\$ 14.50

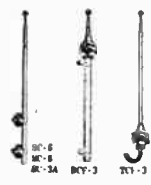
MODEL 263. Complete instrument consisting of coupler, equipped with type N connectors, and indicator calibrated directly in watts. Indicator has three scales, 10, 100, 1000 watts full scale. Quickly determines net power to antenna or load, or VSWR of antenna or load. Line impedance 52 ohms. Net.....\$ 85.00

MICROMATCH MODELS AVAILABLE FOR USE AT FREQUENCIES OF 500 KCS TO 2000 MCS AND POWER LEVELS OF 0.1 WATT TO 120,000 WATTS.

WARD

AUTO

ANTENNAS



3 section, 66". Side cowl mounting. Adaptor kit included. 36" coaxial lead. Shpg. Wgt. 2 lbs.
Model SC-6 Net \$ 3.20

4 section, 100". Adaptor kit included. Side cowl mounting. 36" coaxial lead. Shpg. Wgt. 3 lbs.
Model SC-8 Net \$ 4.50

3-section side cowl or fender mounting, extends to length of 68". Includes 34" coaxial lead. Shpg. Wgt. 1 1/2 lbs.
Model SC-3A Net \$ 2.38

3 section, 56". Only 3 1/2" exposed when collapsed. Universal mounting for fender or cowl. Adaptor kit included. 36" coaxial lead. Shpg. Wgt. 2 lbs.
Model DCF-3 Net \$ 4.50

3 section, 56". Universal mounting for cowl or fender. Adaptor kit included. 36" coaxial lead. Shpg. Wgt. 2 lbs.
Model TCF-3B Net \$ 3.47

18" extension lead, connectors included.
MODEL C-9 Net \$.70

WARD

ACCESSORIES



SELF SUPPORTING BASES

Heavy, weather-proofed metal base for sturdy installation on any angle. Eliminates need for guy wire on most installations. Accommodates 1 1/4" O.D. mast. Shpg. Wgt. 1 1/2 lbs.

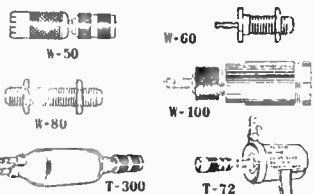
MODEL C-14. Net.....\$ 1.59

For use with 1" O.D. mast. Shpg. Wgt. 1 lb, 10 oz.

MODEL C-11. Net.....\$ 1.26

WARD PRODUCTS

CABLE CONNECTORS AND MATCHING TRANSFORMERS



NO. W-50. Male solderless cable connector for use with RG59/U cable. Silver-plated. Net \$.35

NO. W-60. Female panel connector. Fits W-50 male. Net \$.47

NO. W-80. Female connector, fits W-50 male. Net \$.59

NO. W-100. Reduces RG11/U or RG8/U cable to take RG59/U. Net \$ 1.47

NO. T-300. Weatherproof matching transformer. 300 to 72 ohms or vice versa. Net \$ 2.06

NO. T-72. Transformer for matching 72 ohm coax to 300 ohm receiver. Net \$ 2.35

ANTENNA ACCESSORIES

A N T

LIGHTNING ARRESTERS



MODEL AT-105. For flat and oval 300 ohm twin-lead. U/L approved for outdoor or indoor use. No stripping, no impedance change. Nickel-plated brass hardware. Net \$.73

MODEL AT-103 UHF LIGHTNING ARRESTER. For UHF tubular twin-lead. Lip flange prevents contact washers from ripping twin-lead. No stripping, cutting or spreading of line. U/L approved. Made of high dielectric and weather-resistant porcelain. Complete with 4-ft. aluminum ground wire and stainless steel universal mounting strap. Shpg. Wgt. 1 lb. Net \$ 1.32

RMS UHF-VHF



MODEL LA-UH3. UHF-VHF arrester for all indoor or outdoor uses. U/L approved. Mounts flat or to mast. Takes tubular, flat, or open wire line. Net \$.87



For flat 300 ohm lead. No cutting of conductors. Molded of high grade phenolic. U/L approved.

MODEL 155-338. Net.....\$.88



VHF-UHF



LIGHTNING ARRESTER

Universal lightning arrester for use with flat, tubular, or open wire lead-in. Molded of sturdy phenolic and has lowest measurable loss. Easy to install. U/L approved. Shpg. Wgt. 1 lb.

MODEL 114-328. Net.....\$.88



For VHF. Takes 300 ohm lead without stripping, cutting, or splicing. Screw cap clamps on lead making contact. Inside type has strap for mounting on pipe. Outside weather-proof type has built-in wood screw. U/L approved.

NO. 215X1. Outside type. Net.....\$.73
NO. 214X1. Inside type. Net.....\$.65

For UHF. Works on all UHF channels, very low loss. Screw cap clamps on lead making contact. For inside or outside use.

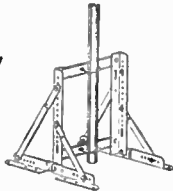
NO. 234A1. Wood screw type. Net.....\$.90
NO. 235A1. Strap type. Net.....\$.82



Made of brown glazed porcelain body with nickel-plated hardware. Suitable for outdoor or indoor use. Complete with hardware. Shpg. Wgt. 8 oz.

NO. 630 Single Arrester Net \$.29
NO. 2630 Doublet Arrester Net \$.33

KENCO ALL POSITION TV ANTENNA MOUNT



Provides a wealth of mounting positions on any roof, parapet, side wall or corner of building. No blocking or shimming necessary. Preassembled except for positioning braces. Constructed of heavy gauge steel. Mast may be fastened in lowered position. Accommodates masts up to 1 1/2" D. Offset up to 8". Shpg. Wgt. 4 1/2 lbs.
MODEL 105. Net.....\$ 2.63



BELDEN "CELLULINE"

UHF-VHF LEAD-IN

Cellular polyethylene core and thick polyethylene outer wall make this 300 ohm line absolutely waterproof; no end seal required. Lowest losses possible at UHF and VHF frequencies. Both conductors are 7x28 stranded "Weldohm" annealed copper-coated steel wire.

NO. 8275. Net per foot.....\$.05
NO. 8275. Net per 100 feet.....\$ 4.41

TELEVISION

Tenna-Klip



NO. 8899 TENNA-KLIP. Fast and simple way to fasten antenna to TV set. For use by servicemen in shop, in homes, and stores. Antenna can be clipped from set to set without loosening screws. Net \$.21

TUBULAR TWIN-LEAD



TYPE 14-271 TUBULAR TWINLEAD. Superior to flat types of twinlead in UHF applications. Consists of 7 strands #28 copperweld conductors imbedded in brown polyethylene forming protective canopy. Outperforms flat type twinlead 3-1 in wet or inclement weather. Signal transfer is unaffected by rain, sleet, ice, or salt spray. 300 ohm impedance.

Per ft. Net \$.04 Per 500 ft. Net \$17.64
Per 100 ft. 3.76 Per 1000 ft. 33.81



NO. 66-213 END SEAL

Brown polyethylene plug for use with 14-271 tubular lead. Tight-fitting, prevents entry of snow, rain, or ice. No reverse loop of lead is necessary. Maintains low-loss of lead.
Net Each \$.03



TYPE 14-056 FLAT TWINLEAD. Standard type leadin for all TV VHF applications. Made from finest polyethylene which assures minimum RP loss. 300 ohm impedance. Has long serviceable life, unaffected by temperature changes, chemical fumes, etc.

NO. 14-056 Net per foot \$.02
NO. 14-056 Net per 100 feet 1.91
NO. 14-056 Net per 1000 feet 17.20

SOUTH RIVER

CHIMNEY MOUNT



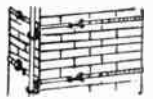
Mounts on any chimney, pole or similarly shaped extension by means of straps. Furnished with two 12 ft. lengths of steel banding to encircle chimney. Quick and easy to install. Only tools necessary are screw drivers and pliers. Mast holder will accommodate up to 1 1/2" Dia. May be sawed in half, one section on top of chimney and other on bottom for additional strength. Shpg. Wgt. 5 lbs.

MODEL SR-10A Net \$ 3.82

MODEL SR-10A-ST. Same as above but has stainless steel banding. Net \$ 4.94

SOUTH RIVER

DUO-MOUNT ANTENNA BASE



For installations on chimneys, poles or similar extensions. Accommodates masts up to 1 1/2" O.D. Made of strong alloy steel - riveted for long life. Special designed "U" bolt has complete thread. Gripping teeth at place of contact with mast prevents turning in high winds. Galvanized finish. Complete with all accessories. Shpg. Wgt. 4 lbs.

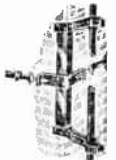
MODEL DM-36 Net \$ 2.32

MODEL DM-36-ST. Same as above but has stainless steel banding. Net \$ 2.91

SOUTH RIVER

CHIMNEY

UNI-MOUNT



Snap-in feature makes inserting mast a simple, quick installation. Kwik-Klip feature enables you to speedily tighten banding. Heavy gauge stainless steel strap. Hot-dip galvanized bracket, 18" spacing between most holders. Complete with corner guards. Shpg. Wgt. 6 lbs.

MODEL UM-1. Net.....\$ 4.00



CORNER GUARD. For all chimneys, mounts. Protects brickwork, permits uniform tightening of banding. Will not rust. Box of six pieces.

MODEL CG Net \$.28

SOUTH RIVER STEEL BANDING



TYPE A-1. 25-foot roll galvanized heavy duty perforated steel strapping. 3/4" wide. Shpg. Wgt. 3 lbs. Net \$ 7.73

TYPE A-4. 25-foot roll stainless steel unperforated strapping. 3/4" wide. Shpg. Wgt. 2 lbs. Net \$ 1.38

DUO PIPE MOUNT MODEL P-1



Heavy gauge galvanized steel clamps and banding to fit any pipe up to 6" "U" bolts will take mast up to 1 1/2" O.D. Shpg. Wt. 3 lbs. Net \$ 1.47

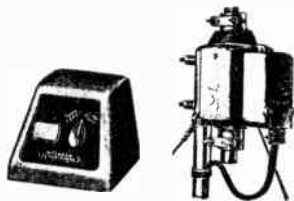
"Your trade-in's worth more at the **WALTER ASHE STORE**" 59

Alliance Tenna-Rotor

MODEL U-83 CONTROL UNIT



MODEL T-10 CONTROL UNIT



Simply set pointer at desired antenna direction, dial face lights up and, when the point selected is reached, antenna stops automatically and light goes out. Instantly reversible motor with magnetic brake to prevent drifting. Speed of rotation 2 RPM. Positive mechanical stop at end of rotation. Factory lubricated for life. All outside parts are moisture sealed and corrosion resistant. Stainless steel bearing insert. Fits masts up to 1 1/2". May be used with all TV-FM and amateur arrays weighing up to 20 lbs., use TBB-2 thrust bearing for heavier loads up to 300 lbs. Simple to install and connect, uses standard 4-wire cable listed below. Beautiful brown plastic control box trimmed in gold, ivory knob. Size: 7x4 1/2x4". For operation on 110-120 VAC 60 cy. Shpg. Wgt. 14 lbs.

MODEL U-83. Net.....\$ 26.22

Manual operation with directional indicator control case. Clockwise or counter-clockwise rotation by means of push-bar switch on top of control case. Rotates full 360 degree and has positive mechanical stop at end of rotation. New magnetic brake prevents drifting. Speed of rotation 2 RPM. Factory lubricated for life. Stainless steel bearing insert. All outside parts are moisture sealed and corrosion resistant. Fits most up to 1 1/2". Will handle arrays up to 20 lbs. Uses TBB-2 thrust bearing for loads up to 300 lbs. When the switch is pressed, antenna turns and indicator shows position on compass face dial. Simple and easy to install. Beautiful brown plastic control case trimmed in ivory and gold, size 6 1/2x2 1/2x4 1/2". For operation on 110-120 VAC 60 cycle. Shpg. Wgt. 12 lbs.

MODEL T-10. Net.....\$ 22.47

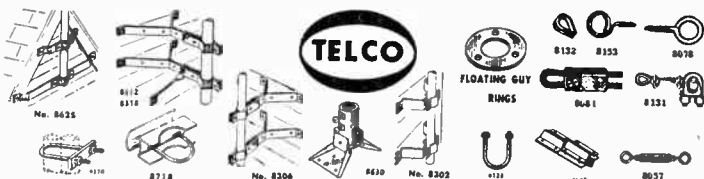
Strong, sturdy rotator motor with remote control unit that permits operator to instantly stop or reverse direction of motor. Signal light indicates when limit of travel has been reached. Instantly reversible through full 360 degrees of travel. Will handle all TV-FM arrays up to 20 lbs. Factory lubricated for life. Uses 4-wire cable (not supplied). Shpg. Wgt. 12 lbs.

MODEL F-4. Net.....\$ 18.72

4-WIRE CABLE for Alliance rotators. NO. 4444. Per ft. Net.....\$.03
NO. 4444. Per 100 ft. Net.....\$2.70

THRUST BEARING. Permits increase of weight load capacity to 300 lbs. on all Alliance rotators. Easily installed with standard tools. Shpg. Wgt. 3 lbs.

MODEL TBB-2. Net.....\$ 2.91



NO. 8625 PEAK MOUNTS. For fastening TV masts to roof peaks. Will hold masts up to 1 1/2" diam. With hardware. Net \$ 2.32

SNAP-IN WALL MOUNTS. Simply snap mast in, tighten, and the job is done. Made of heavy steel, zinc-plated. Holds masts up to 1 1/2" diam. With hardware.

NO. 8306 6" Clearance Net \$ 1.18
NO. 8312 12" Clearance 2.06
NO. 8318 18" Clearance 2.65

NO. 8302 CLOSE WALL MOUNTS. Brackets with 4" clearance. Made of 1/8x1 1/2" steel, heavily zinc-plated. Holds masts up to 1 1/2" diam. Net \$.79

NO. 8630 RIDGE MOUNTS. Allows tall masts to be swung up along ridge of roof. Heavy steel, heavily plated. Adjustable to any angle or flat roof. Holds masts up to 1 1/2" diam. Net \$ 1.91

NO. 8645 MAST COUPLER. Sturdy 3-piece mast coupler to extend different size masts together. Couples masts 3/4" to 1 1/2" diam. With hardware. Net \$.73

NO. 8718 MAST CLAMP ASSEMBLY. Complete clamp assembly to fasten a cross bar to mast. Serrated edges, will not turn. Rust-proofed. Net \$.44

NO. 8132 GUY WIRE THIMBLES. Quickly fastens and holds guy wires and cables. Prevents wire from breaking and loosening. Galvanized steel. Net Each \$.04

TELEVISION GUY WIRE
NO. 4843A. Four strands #20 wire (approx. 3/32" diam.) 100-ft. coil. Net \$.65
NO. 4804A. Six strands #20 wire (approx. 1/8" diam.) 100-ft. coil. Net \$.80

FLOATING GUY RINGS. Made of steel, zinc plated.

Number	Mast Size	Ring I.D.	Net
8055	3/4" - 1"	1-1/8"	\$.13
8313	1-1/8"	1-1/4"	.14
8314	1-1/4"	1-3/8"	.14
8315	1-3/8"	1-1/2"	.14
8316	1-1/2"	1-5/8"	.14
8317	2"	2-1/8"	.14

NO. 8370 U-CLAMPS. Handy clamp to hold and clamp together two masts. Holds two masts up to 1 1/2" diam. Net \$.21

NO. 8123 U-BOLTS. Fits masts 3/4" to 1-3/8" diam. 3" long, for mounting and extending masts or fastening masts to buildings. Steel, zinc-plated. Net \$.12

NO. 8081 GUY WIRE CLAMPS. Fast way for fastening ends of guy wires on towers and masts. Adjusted with screw driver. Galvanized steel. 1/8" wire size. Net \$.32

NO. 8131 CABLE CLAMPS. Will hold guy wires securely. Easy to install and use. Galvanized steel. Net Each \$.15

NO. 8057 TURNBUCKLES. Extra strong cadmium plated turnbuckles for guy wires and cables. 3/8" long. Net Each \$.12

NO. 8153 BRIDLE RINGS. For tying guy wires, masts, etc. Made of heavy steel, galvanized. Net Each \$.06

NO. 8078 SCREW-EYES. Steel cadmium plated screw-eyes for TV antennas. Handy for fastening guy wires. Net Each \$.03

AMPHENOL ISO-NET



Iso-Net Isolating Network. Connects UHF and VHF antenna to receiver with one lead and minimum signal loss. Six terminals, 2-UHF, 2-VHF, 2-Receiver. Highly efficient lumped constants filter network has less than 1-1/2 DB loss. Weather proof plastic case, can be mounted on mast or receiver. Complete with U-bolt, bracket, hardware.

MODEL 114-061. Net.....\$ 2.32

AMPHENOL TRISONET

An efficient isolating network for coupling a low band VHF, a high band VHF, and a UHF antenna to one receiver with one lead-in. Little or no signal loss. Case provides positive protection from the elements. Complete with "U" bolt, bracket, and screws. Shpg. Wgt. 1 lb.

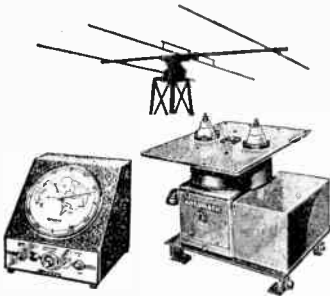
MODEL 114-074. Net.....\$ 2.91

AMPHENOL TELECOUPLER

Low-loss coupling unit which permits highly efficient operation of from 2 to 4 TV sets using only one antenna. Operates extremely well on both UHF and VHF frequencies. Mounts on wall, baseboard, back of set or outdoors. Housed in durable grey plastic case. Mounting screws furnished. Size: 4 1/2x1 1/2x1 1/2". Shpg. Wgt. 8 oz.

MODEL 114-088. For 2 sets. Net.....\$ 2.21
MODEL 114-089. For 2 sets. With ground connection. Net.....\$ 2.79
MODEL 114-090. For 4 sets. Net.....\$ 3.38
MODEL 114-091. For 4 sets. With ground connection. Net.....\$ 3.97

JOHNSON *Universal*
ROTO MATIC
ANTENNA ARRAY



One-piece galvanized steel boom and elements of large diameter heavy wall aluminum alloy to withstand severe wind and ice loads. All metal, no mounting insulators required. Special clamps permit any element spacing. Single or dual band parasitic arrays up to 4 element 10 meter and 3 element 20 meter may be used. The Johnson Rotomatic Rotator is a deluxe heavy duty unit which can be used with any beam but works particularly well with the Johnson antenna assemblies listed below. Continuously lubricated oversize gears, Oilite bearings. Gear ratio 1200 to 1. Will support up to 125 lb. arrays. Beam turns 1 1/2 RPM and is instantly reversible. Completely weather-proofed and not affected by temperature changes. Tilt base permits antenna adjustment from tower. Interference free 1/20 HP capacitor motor. The Selsyn direction indicator accurately follows antenna rotation.

NO. 138-112 ROTATOR. Complete with motor drive, mounting base, selsyn and control box, less boom assembly, element kits, or antenna changing relay. Net \$ 324.00

NO. 138-153 BOOM ASSEMBLY. Length 18 ft. 9 inches. Net \$ 23.52

NO. 138-210-3. 3-element 10-meter parasitic array. Element kit only. Net \$ 43.03

NO. 138-220-3. 3-element 20-meter parasitic array. Element kit only. Net \$ 76.05

NO. 138-108. Weatherproof antenna relay for dual band operation. Net \$ 19.21

NO. 144-16 CABLE. 8-conductor cable for Johnson Rotomatic. Net Per Ft. \$.26

OTHER JOHNSON ARRAYS AVAILABLE. WRITE FOR COMPLETE DESCRIPTIVE LITERATURE NOW.

ICA TENNA-SCOPE LOOPS For Midgets or Portables



"NEW DELUXE STYLE"

Adjustable trimmer adapts to any receiver. No other aerial necessary. Shpg. Wt. 1 1/2 lbs.

NO. 4380 Net: \$ 1.96

Replacement for midget receivers, eliminates necessity of outdoor or indoor antenna, easy installation. Shpg. Wgt. 4 oz.

NO. 4385 Net: \$.81

C * D * R Rotors



TR-4



The ultimate in heavy duty rotators. Handles loads up to 150 pounds, enough power to turn any array. Uses 4-wire cable. Has streamlined weatherproof design, completely weather-sealed, lubricated for life. Heavy duty motor reverses instantly at touch of switch located on modern design control box. Points of compass shown on face of control box for easy orientation. Motor has heavy duty precision cut gears, ball bearings. Positive stop at end of rotation. Reversible clamps handle 7/8" to 2" masts. May be used for mast, tower, or platform mounting. Three heavy duty guy wire lugs. For operation on 110-120 VAC. Shpg. Wgt. 15 lbs.

MODEL TR-4. Net.....\$ 28.78



TR-2



Will handle antennas or arrays up to 150 lbs. Excellent for TV FM or amateur applications. Built-in thrust bearing. Will accommodate mast up to 2" D. "Perfect-Pattern" compass-type dial instantly turns antenna in any direction, positive stop at end of rotation. Stations can be logged on face of control box. Points of compass light up to show position. Rotator mechanism is encased in weatherproof housing, factory lubricated for life. Uses 8-conductor cable (not supplied). For use on 110-120 VAC operation. Shpg. Wgt. 16 lbs.

MODEL TR-2. Net.....\$ 26.43

8-conductor lead for use with TR-2 rotator.
NO. ATX-8. Net Per Foot.....\$.06
NO. ATX-8. Net Per 100 Feet.....\$ 4.79

THRUST BEARING BRACKET. For use with Model AR-1 and Model TR-11. Increases weight capacity equal to that of AR-2 and TR-12. Permits use of the largest TV arrays with these rotators. Shpg. Wgt. 2 lbs.

MODEL TA-6. Net.....\$ 2.91



TR-12



Efficient remote control antenna turning device with thrust bearing and plastic cabinet with finger-tip control. Control cabinet shows compass points N, E, S and W. Strong, powerful motor turns easily and quickly even with 4-stack arrays; no drifting. Takes antenna masts up to 1 1/2" O. D. Instantly reversible, makes complete revolution in 45 seconds. Mechanism encased in waterproof housing and is lubricated for life. Brown plastic control cabinet. Uses 4-wire cable listed below. For operation on 110-120 VAC 60 cy. Shpg. Wgt. 12 lbs.

MODEL TR-12. Net.....\$ 25.25

MODEL TR-11. Complete rotator similar to TR-12 but less thrust bearing. Less cable. Shpg. Wgt. 12 lbs. Net.....\$ 23.49



AR-2



Completely automatic rotator for quick, accurate positioning of antenna. Turn pointer to desired position and antenna traverses to position selected. Clockwise and counterclockwise revolution, 360° rotation, makes complete revolution in 45 seconds. Unique brake prevents drifting. Takes antenna masts to 1 1/2" O.D., mounts on pipe to 2" O.D. Powerful thrust bearing included which accommodates largest TV arrays. Factory lubricated. Control unit is housed in modernly designed cabinet. Rotating mechanism enclosed in weatherproof case for long life. Operates on 110-120 VAC. Shpg. Wgt. 13 1/2 lbs.

MODEL AR-2. Less cable. Net.....\$ 28.19

MODEL AR-1. Complete rotator similar to AR-2 but less thrust bearing. For antennas weighing up to 20 lbs. Less cable. Shpg. Wgt. 12 lbs. Net.....\$ 26.43

4-WIRE CABLE. For use with Models AR-1, AR-2, TR-4, TR-11, and TR-12 rotators.
NO. 4444. Net Per Foot.....\$.03
NO. 4444. Net Per 100 Feet.....\$ 2.70

"Your trade-in's worth more at the WALTER ASHE STORE" (61)

SPAULDING

Self Supporting Towers

Self-supporting towers for TV arrays, 10, 15, and short 20 meter ham beams (regular 20 meter beams if guyed), community antenna systems, wind generator supports, etc. All steel, heavily galvanized inside and out. All riveted construction, no welds to rust. Tower has greater width and strength at bottom where greatest strength is needed. 8-ft. sections become lighter in weight as the height increases. Rotators can be installed down inside tower. No wrenches necessary to install, uses $\frac{1}{2}$ " pins and aircraft clips. All tubing is $\frac{1}{2}$ " diameter. Three types of bases available - base stubs for installation in concrete, hinge-up bases which mount in concrete and swing up with complete tower assembled, and screw anchor bases having three $4\frac{1}{2}$ "-diameter earth screw anchors which screw into earth and fasten to rigid horizontal frame, no concrete is necessary. Follow manufacturer's instructions for correct installation. Towers are priced less base.



Model	Description	Shpg. Wgt.	Net
ST-64	64 Ft. Pkg.	275 lbs.	\$ 130.96
ST-48	48 Ft. Pkg.	160 lbs.	84.46
ST-40	40 Ft. Pkg.	127 lbs.	73.65
ST-32	32 Ft. Pkg.	96 lbs.	56.78
ST-24	24 Ft. Pkg.	72 lbs.	41.04

ACCESSORIES

- ST-B1 BASE. Set of 3 base stubs to be set in concrete. Shpg. Wgt. 10 lbs. Net \$ 3.96
- H3-24-32 HINGE-UP BASE for concrete. For 24 and 32 foot towers. Shpg. Wgt. 11 lbs. Net.....\$ 5.25
- H3-40 HINGE-UP BASE for concrete. For 40 foot tower. Shpg. Wt. 11 lbs. Net \$5.85
- H3-48 HINGE-UP BASE for concrete. For 48 foot tower. Shpg. Wt. 11 lbs. Net \$5.85
- SB-48H SCREW ANCHOR hinged base. No concrete necessary. For 40 or 48 foot tower. Shpg. Wgt. 106 lbs. Net.....\$ 22.50
- SB-64H SCREW ANCHOR hinged base. No concrete necessary. For 64 foot tower. Shpg. Wgt. 165 lbs. Net.....\$ 30.70
- TW2 "T" WRENCH for screw anchors. Shpg. Wgt. 9 lbs. Net.....\$ 4.25
- GEW-4 GEARED ERECTION WINCH for 48 ft. or less. Shpg. Wt. 66 lbs. Net \$29.50
- ST-18. 4" to 18" adjustable stand-off bracket. Shpg. Wgt. 12 lbs. Net.....\$ 5.95
- TR-2. Rotator mounting plate for C-D or Radiort TR series rotators. No accessory needed for other brands. Shpg. Wgt. 1 lb. Net.....\$.90
- S1A. Step accessory for top sections. Shpg. Wgt. 2 lbs. Net.....\$.90
- ST-1P. Extra tower leg pin. Net.....\$.15
- ST-1PK. Extra leg pin clip. Net.....\$.04
- ST-GP1. 10 foot erection boom. Shpg. Wgt. 9 lbs. Net.....\$ 9.65

TUBULAR ANTENNA MASTS

18 gauge $\frac{1}{4}$ " masts. Self-locking feature prevents turning. One expanded end permits stacking. Corrosion-proofed inside and out.

No.	Length	Shpg. Wt.	Net
518	5 ft.	5 lbs.	\$ 1.17
1018	10 ft.	8 lbs.	2.05

Alprocco

ALUMINUM OR STEEL TOWERS

6-foot sections constructed of aluminum or steel. Aluminum type constructed of lightweight aircraft aluminum weighs only one pound per foot, steel type weighs $1\frac{1}{4}$ pounds per foot and is hot-dipped galvanized. Two aluminum sections mounted on B1-WS base plus 10-ft. most may be erected as a self-supporting mast with height of 24 feet without guying. On taller towers, guying is needed only every 30 feet. Sections shipped $\frac{1}{2}$ assembled.



ALUMINUM

- T-6W. 6-foot aluminum section. Shpg. Wgt. 6 lbs. Net.....\$ 7.74
- MK-1W. Mast kit consisting of three trim angles and two sets adjustable mast clamps for mounting antenna mast. Shpg. Wgt. 3 lbs. Net...\$ 1.55
- B-1W. Hinged base plate for mounting on vertical, horizontal, or sloping surfaces. Shpg. Wgt. 4 lbs. Net.....\$ 1.70
- GB-1. Guy bracket for attaching guy wires to tower. Three needed per guy station. Shpg. Wgt. 2 oz. Net Each.....\$.09
- S-3W. Stand-off support bracket. Used as wall mount stationary tie-in. Shpg. Wgt. 3 lbs. Net.....\$ 1.60
- RK-1W. Rotator adapter kit, consisting of 10 x $1\frac{1}{2}$ " steel mast, 24"x $1\frac{1}{2}$ " steel mast pole bearing. Shpg. Wgt. 11 lbs. Net.....\$ 7.10
- P-1W. Rotator adapter plate. Pre-drilled plate with accessories to mount most inline or offset rotators inside tower. Shpg. Wgt. 2 lbs. Net.....\$ 1.70
- B1-WS. Self-supporting base. Heavy galvanized steel with flat feet that pivot at any angle. Hardware furnished. Shpg. Wt. 18 lbs. Net \$5.50

STEEL

- ST-6E. 6-foot steel section. Shpg. Wgt. 10 $\frac{1}{2}$ lbs. Net.....\$3.60
- B-1. Hinged base plate. Shpg. Wgt. 2 $\frac{1}{2}$ lbs. Net.....\$ 1.40
- MK-1. Mast kit including top angles and most bracket. Shpg. Wgt. 2 lbs. Net.....\$ 1.55
- GB-1. Guy bracket. Three needed per station. Net Each.....\$.09
- S-5. Stand-off support bracket. Shpg. Wgt. 2 $\frac{1}{2}$ lbs. Net.....\$ 1.60

SOUTH RIVER UHF ANTENNA MOUNTING ADAPTER



Permits mounting of UHF antenna without disturbing present TV antenna installation. Fastens quickly to present mast with two sets of clamps provided. Slight offset permits adapter to extend 5 feet above antenna in use. Made of one piece, light magnesium tubing. Shpg. Wgt. 3 lbs. MOEEL UHM-1. Net.....\$ 1.76

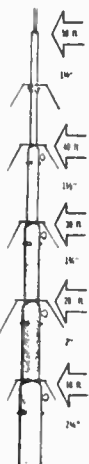
THE "METEOR" INDOOR TELEVISION ANTENNA



Jiffy installation indoors for all channel VHF television operation. Nickel-plated 3-section telescopic dipoles, rotatable base. Complete with 300 ohm connecting lead. Shpg. Wgt. 3 lbs. NO. 6470 Net \$ 2.21

TELEVISION SLIP-UP MASTS

A "custom-built" telescoping slip-up mast with hot dip galvanized finish, inside and out. Made of heavy gauge tempered steel tubing. Special thumb bolts engage curved tube nuts for easy finger-tip locking of joints. Notched bottom ends. Automatic joint locking clips for erection safety. Automatically aligning most sections. Complete with rotating guy rings. Less base.



- M-20. 20 foot, two 10-ft. sections, one $1\frac{1}{2}$ " and one $1\frac{1}{2}$ " D. Shpg. Wgt. 19 lbs. Net...\$ 6.21
- M-30. 30 foot, three 10-ft. sections, one each $1\frac{1}{2}$ ", $1\frac{1}{2}$ ", $1\frac{1}{2}$ ". Shpg. Wgt. 29 lbs. Net...\$ 9.90
- M-40. 40 foot, four 10-ft. sections, one each 2 $\frac{1}{4}$ ", 2", $1\frac{1}{2}$ ", $1\frac{1}{2}$ ". Shpg. Wt. 40 lb. Net \$13.82
- M-50. 50 foot, five 10-ft. sections, one each 2 $\frac{1}{4}$ ", 2", $1\frac{1}{2}$ ", $1\frac{1}{2}$ ", $1\frac{1}{2}$ ". Shpg. Wgt. 50 lbs. Net.....\$ 19.13

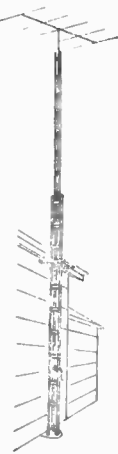
TV MAST BASES



- Standard Base. All angle, full swivel for mounting on flat, vertical, sloping or peak roofs. Antenna can be rotated. Shpg. Wgt. 1 lb. MOEEL MB-1. Net.....\$.50
- Special Base. Permits roof mounting with or without fastening to roof. Hinged, all angle, side, hip, or flat mounting, sturdy construction. Shpg. Wgt. 7 lbs. MOEEL MB-1R. Net.....\$ 4.60

TELE-EX-PAND

CRANK-UP TELESCOPIC TOWERS. Designed to install easily and safely. Sturdy construction. Will support any type of TV array or small ham beam. May be guyed in the open ground or fastened to the house with most clamp. Self-locking feature eliminates danger of slipping. Mounts on concrete or wood base. Complete with base, removable crank, aircraft cable. Durable steel construction. Both types are 20 feet long collapsed. Type M-40 expands to 38 feet and Type M-60 expands to 55 feet. Shpg. Wgt. - M-40 100 lbs.; M-60 145 lbs. M-40. Net.....\$ 59.95 M-60.....\$ 93.50 TY-8 Wall Bracket.. 3.60



Shipped from and F.O.B. Berwick, Penna.



**MOSLEY
2-WAY
TELEVISION
ANTENNA SWITCH**

Couples TV set to either of two antennas at the turn of a knob. For UHF and VHF. Low loss, small and compact. Positive rotary action, silver-to-silver contacts.
NO. F-40. Ivory or brown. Specify. \$ 1.15



29-S



261

NO. 29-S. Solderless splicer for joining tubular or oval 300 ohm transmission line to standard line or vice versa. Ideal for use in UHF installations where tubular line is used for lead but where the more easily hidden flat type is desired to go into house. Has hole for the discharge of water or accumulated moisture. Clear polystyrene. Net \$.12

NO. 261. Antenna connector. For connecting transmission line to dipole antenna without use of solder. Ideal center tie. Net \$.34



NO. 902. Dual-Match TV coupler. Operates 2 TV sets from 1 antenna. Will not interfere with each other. No soldering required. Easily installed on baseboard. Net \$ 2.32

NO. 343. Universal TV lead-in socket. Mounts on metal or wood, serves as line tap or terminal socket for 301 plug. For 300 ohm lead. Transmission lead may enter from sides, top, bottom or back. Brown or ivory. Net \$.47



NO. 625. Insulated wall-thru for any wall up to 13", 14" polystyrene tube and inside and outside wall plates. For use with 300 ohm flat or tubular, coaxial, or open line. Brown or ivory. Net \$ 1.15

NO. 624. ROOF-THRU weather-proof roof entrance for TV or rotator cable. Low-loss feed-thru bushing and 8x9" copper flashing, easily installed in new or old buildings. Permits shorter lead-ins. Net \$ 3.43

NO. F-20. 3-way TV antenna switch. Ideal for switching 1 antenna to 3 different TV sets or 3 different antennas to 1 TV set. Easy to mount. Brown or ivory. Net \$ 2.21



TV ANTENNA ORIENTOR

Fast, accurate one-man orientation of any TV antenna. Isolation network that permits transmission line to carry signal from antenna to set and simultaneously carry video signal back to installer, who with an ordinary VOM can set antenna for maximum signal. Requires no power to operate. No additional lines needed from set to roof. Complete with set of leads. Shpg. Wgt. 1 lb.
MODEL 903. Net.....\$ 7.35

"Y-TY"

**MAKES
PERFECT
TV ANTENNA
CONNECTIONS**

The "Y-TY" eliminates the danger of lead-in connections breaking at the antenna. Designed to give low loss, permanent connections of all types of lead-in and phasing strips to television antennaelements. Easy to install; no soldering. For all UHF antenna and most VHF yagis, conicals, and other types where the distance between terminals is 4" or less. Shpg. Wgt. 8 oz.

NO. 263-S. Net.....\$.47



NO. 27S. Transmission line splicer. For connecting odds and ends of 300 ohm line left over. No soldering necessary. Net \$.11

NO. 450-1. Open wire splicer. Maintains correct wire spacing with no impedance change. No soldering required. Net \$.09

NO. 304. Input adaptor. Used on TV sets which have terminal on rear. Makes quick make and break connection when used with NO. 311 socket. Precision molded. Net \$.18



301



311



321

NO. 301. Universal transmission line plug for 300 ohm lead. Fits all Mosley units. Molded polystyrene, bronze contacts. No soldering required. Net \$.18

NO. 311. Transmission line socket. Mates with No. 301 plug, 304 adaptor. Net \$.18

NO. 321. Polarized transmission line connectors. Use in pairs for fool-proof connections. Set of 2. Net \$.35



F-1



F-10

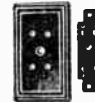


F-2PK

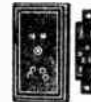
NO. F-1. Single flush socket with plate for antenna. Fits standard outlet box. Specify brown or ivory. Net \$.98

NO. F-10. Antenna socket with 3-position antenna switch. Switch is constant impedance type. Provides instant change-over to any one of three antennas or may be used to switch one antenna to three different TV sets. Brown or ivory finish. Net \$ 2.21

NO. F-2PK. Similar to F-1 but intended for use where line cannot be concealed in wall. No wall opening needed, will not crush lead. Easy to install. Complete with mating connector. 2 contact. Specify brown or ivory. Net \$.97



F-11



F-14



F-9

NO. F-11. Dual flush socket and plate. For 2 antennas. Specify brown or ivory. Net \$ 1.22

NO. F-14. Combination antenna and rotator sockets. Rotator socket uses #374 plug. Specify brown or ivory. Net \$ 1.22

NO. 374. 4-prong plug. Net \$.44

NO. F-9. Flush socket mounting brackets for easy installation of any Mosley unit where box is not feasible. Set of four. Net \$.21



NO. 251. End insulator. Especially designed antenna insulator for 300 ohm dipoles. No soldering, no strain on connection. Net \$.29



OHMITE DUMMY ANTENNA

TYPE D-101 100 WATTS

Dummy antennas replacing old style glass envelope. Consist of a number of special vitreous-enamelled resistors connected in parallel and mounted in a perforated steel cage, black wrinkle finish. Provides a simple, accurate, direct means of measuring RF power in all stages of a transmitter for tuning to maximum efficiency. Available in values of 52, 73, 300 and 600 ohms. Specify. Net \$ 5.96

TYPE D-251 250 WATTS

Available in values of 52, 73, 300 and 600 ohms. Specify. Net \$ 11.93

TV DEVICES GROUND ROD



Acts as dependable year-round ground stake. Made of copper-plated, heavy gauge steel rod 3/8" OD.

NO. T-34 4 Ft. Long Net \$.69
NO. T-36 6 Ft. Long Net \$ 1.32



ICA AUTO ANTENNA CONNECTOR

Standard connectors for antenna. Shpg. Wgt. 4 oz.
NO. 2347 Net \$.08

ANTENNA HANKS



Consists of 25 ft. of brown cotton-covered flexible antenna for home use. Shpg. Wgt. 4 oz.
NO. 2125 Net \$.24

JFD

ADJUSTABLE STAND-OFF INSULATORS



Fits any size mast. For 300 ohm twin lead.

Number Length Net
NUT-350 3/4" \$.11
NUT-750 7/8" .15

NICHOLS

NO. 8 ALUMINUM GROUND WIRE



Recommended for use by National Electrical Code.
NO. 8 Net \$ 1.46

Burgess No.	Single Battery	Net Each		Volts	Unit Package		Approx. Size
		Unit Package	Qty.		Wgt. in Lbs.		
FLASHLIGHT AND LANTERN BATTERIES							
2	\$.11	\$.10	1 1/2	48	10	1 3/8 x 2 3/8	
1	.09	.08	1 1/2	12	1 1/2	1x2	
N	.06	.05	1 1/2	24	1/4	7/16 x 1-3/16	
Z	.07	.065	1 1/2	24	1	9/16 x 2	
F4H	.67	.61	6	12	18	4x2 5/8 x 2 5/8	
4F2H	1.20	1.09	3	8	2 1/2	4x2-11/16 x 5-7/16	
210	.13	.12	1 1/2	50	10	1 3/8 x 2 3/8	



NO. 2



4F2H

IGNITION AND TELEPHONE BATTERIES							
6-Ign.	.66	.60	1 1/2	12	22	2 1/2 x 6 5/8	
6-Tel.	.65	.59	1 1/2	12	25	2 1/2 x 6 5/8	
6-Ind.	.73	.66	1 1/2	12	22	2 1/2 x 6 5/8	
4FH	.66	.60	1 1/2	12	16	2 5/8 x 2 5/8 x 4	
4F2H	1.20	1.09	3	8	2 1/2	4x2-11/16 x 5-7/16	
4F4H	2.70	2.45	6	6	3 7/2	8-5/16 x 2-13/16 x 5-13/16	
4F5H	3.44	3.13	7 1/2	4	30	7-3/16 x 4x5-13/16	



NO. 6 IGN.



NO. 6 TEL.



NO. Z

PORTABLE RADIO "A" BATTERIES							
2F4	---	1.74	6	1	3	4x2-13/16 x 5-7/16	
F3	.66	.60	4 1/2	6	6 1/2	4x1 1/2 x 4 1/8	
4F	.89	.81	1 1/2	6	8 1/2	2 5/8 x 2 3/8 x 4 1/8	
F4PI	.89	.81	6	6	9	2-11/16 x 2-11/16 x 4 1/8	
B5	.85	.77	7 1/2	6	3	4x7/8 x 2 7/8	
C5	.77	.70	7 1/2	6	3 1/2	2 1/4 x 2 x 3	
2F	.57	.52	1 1/2	1	3/4	2 5/8 x 1 3/8 x 4 1/4	
2R	.11	.10	1 1/2	48	10	1 3/8 x 2 3/8	
21R	.23	.21	1 1/2	24	9 1/2	1-5/16 x 4 1/8	



F3



2R



XX45

PORTABLE RADIO "B" BATTERIES							
XX50	2.51	2.28	75	12	12 1/2	6 1/4 x 1 1/4 x 1 3/4	
XX45	2.12	1.93	67 1/2	6	4 1/2	2 3/4 x 1 3/8 x 3-11/16	
XX30	1.45	1.32	45	6	3	2 1/2 x 1 x 3-11/16	
M30	1.93	1.75	45	6	12	3-9/16 x 1 3/4 x 5 1/2	
N60	2.77	2.52	90	6	6	3-11/16 x 1-5/16 x 3 3/8	
Z30	2.70	2.45	45	2	3	3x2-5/16 x 4-1/16	
A30	2.16	1.96	45	2	3	3-9/16 x 2 1/4 x 4-5/16	
B30	2.51	2.28	45	2	5	4-1/16 x 2-9/16 x 5-5/16	
U30	1.54	1.40	45	6	1	1 1/8 x 5/8 x 3 1/2	
P45	1.82	1.65	67 1/2	6	4 1/4	1 7/8 x 1 x 5-5/16	



4F4H



4F

PORTABLE RADIO "A AND B" BATTERIES							
G6B60	---	4.65	9A, 90B	1	7	13 1/2 x 2 3/4 x 4-11/16	
F6A60	---	4.38	7 1/2, 9A, 90B	1	6	9-5/16 x 2-11/16 x 4-5/16	
G6M60	---	4.73	7 1/2, 9A, 90B	1	6	10-3/16 x 3 1/8 x 4	
TSZ50	---	3.85	6, 7 1/2 A, 75B	1	3 1/2	8 1/2 x 3-11/16 x 2 3/8	
F6A60P	---	4.38	9A, 90B	1	6	9-7/16 x 2 3/4 x 4 3/8	
T6Z60	---	4.17	7 1/2, 9A, 90B	1	4 1/2	2-3/16 x 9-9/16 x 3-13/16	
4TZ60	---	3.68	1 1/2 A, 90B	1	3 3/4	7 5/8 x 2 1/8 x 3 3/4	



2370



F4H

"A AND B" PACK FOR FARM RECEIVERS							
17GD60	---	5.96	1 1/2 A, 90B	1	16	15 3/4 x 4 3/8 x 7	



2FBP



17G060

FARM RADIO "B" BATTERIES							
21308SC	4.30	3.91	45	6	7 1/2	8 1/8 x 4 1/2 x 7 1/4	
10308SC	3.91	3.55	45	6	7 1/2	8 x 4 x 7 1/4	
2308SC	2.70	2.45	45	6	4 7/8	8 1/8 x 3 x 7 1/4	

INDUSTRIAL "A" BATTERIES							
2FBP	.72	.65	1 1/2	5	4	2-11/16 x 1 3/8 x 4	
F2BP	.72	.65	3	5	4	2-11/16 x 1 3/8 x 4	
2F2H	.74	.67	3	5	7	2 5/8 x 2 3/8 x 4	
422	.35	.32	3	10	1 1/2	1 3/8 x 3/4 x 2-5/16	
8R	.26	.24	1 1/2	12	3	1 1/8 x 3-15/16	



T6Z60

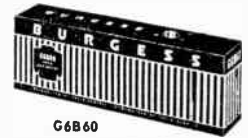


Z30NX

INDUSTRIAL "B" BATTERIES							
5156SC	1.74	1.58	22 1/2	5	8	4 1/8 x 2 1/2 x 2 3/4	
5308	2.54	2.31	45	5	15	4x2 1/2 x 5 1/8	
4156	1.53	1.39	22 1/2	5	5	3-9/16 x 2 1/8 x 2 5/8	
Z30NX	2.37	2.15	45	5	7	3x1 7/8 x 4 5/8	
XX30PI	1.54	1.40	45	24	10	2 1/2 x 1 x 4	



M30



G6B60

INDUSTRIAL "C" BATTERIES							
2370	.73	.66	4 1/2	5	3 1/2	4x1 3/8 x 2 7/8	
5540	.85	.77	7 1/2	5	3	4x 7/8 x 2 3/4	
5360	.50	.45	4 1/2	5	1 1/2	2-7/16 x 7/8 x 2-11/16	

64 **READY FOR A NEW RECEIVER? - We'll Trade In Your Old One!**

EVEREADY BATTERIES

BAT



Eveready No.	Single Battery	Net Each Unit Package	Volts	Qty.	Unit Package Wgt. in Lbs.	Approx. Size
"B" BATTERIES FOR PORTABLE RECEIVERS						
411	\$.72	\$.65	15	5	1/3	1x3/8x1 1/2
412	.88	.80	22 1/2	5	1 5/8	1 5/8x2
413	1.06	.96	30	5	1 7/8	1 5/8x2-9/16
415	1.54	1.40	45	6	3/8	1x3/8x3-1 1/16
455	1.45	1.32	45	6	3/4	2 3/8x1x3 3/4
457	1.92	1.75	67 1/2	6	3	2 3/4x1 3/8x2 1/2
467	2.12	1.93	67 1/2	6	4 3/4	2 3/4x1 3/8x3 3/8
477	1.81	1.65	67 1/2	6	4	1-15/16x1x5-7/16
482	1.93	1.75	45	6	1 1/2	3 5/8x1 7/8x5 1/2
490	2.77	2.52	90	6	6 1/2	3 3/4x1 3/8x3 5/8
493	---	7.70	300	1	1	2 5/8x2 1/4x3 1/8
738	2.70	2.45	45	2	2 1/2	3x2-5/16x4 1/8

Eveready No.	Single Battery	Net Each Unit Package	Volts	Qty.	Unit Package Wgt. in Lbs.	Approx. Size
"A" BATTERIES FOR PORTABLE RECEIVERS						
6	.66	.60	1 1/2	12	2	2 1/2x6
635	.11	.10	1 1/2	12	1 1/8	1x2
717	.77	.70	7 1/2	6	3	2 1/4x2x3
718	---	1.72	6	1	2 3/4	3 7/8x2 3/4x5 1/2
724	.58	.53	6	12	2	1 1/4x1 1/4x2 3/8
726	.58	.53	4 1/2	6	4	4x1-5/16x3
736	.69	.63	4 1/2	6	6 1/4	4x1-5/16x4 1/8
741	---	1.47	1 1/2	1	2 3/4	3 7/8x2 5/8x5 5/8
742	.89	.81	1 1/2	6	8	2 1/2x2 1/2x4
743	1.27	1.16	1 1/2	3	6	3 3/4x2 5/8x4
744	.89	.81	6	6	8 1/4	2 5/8x2 5/8x4
745	1.74	1.58	1 1/2	2	5 1/2	3 7/8x1 1/2x10 3/4
746	.74	.67	4 1/2	6	7 1/4	4x1 1/4x4 5/8
747	2.13	1.93	6	2	5 1/2	3 7/8x1 1/2x10 3/4
915	.08	.065	1 1/2	12	1 1/2	9/16x2
935	.09	.08	1 1/2	12	1 1/8	1x2
950	.11	.10	1 1/2	48	9 1/2	1-5/16x2-7/16
D-99	.14	.125	1 1/2	48	11	1-5/16x2-7/16
964	.23	.21	1 1/2	12	5	1 3/8x4-3/16

Eveready No.	Single Battery	Net Each Unit Package	Volts	Qty.	Unit Package Wgt. in Lbs.	Approx. Size
"A-B" PACKS FOR PORTABLE RECEIVERS						
752	---	4.65	9A, 90B	1	6 1/4	14x2 5/8x4
752W	---	4.97	10 1/2A, 90B	1	7	14x2 5/8x4
753	---	4.38	7 1/2, 9A, 90B	1	5	9 1/4x2 3/4x4 1/4
754	---	4.73	7 1/2, 9A, 90B	1	6 1/4	10 1/2x2 3/4x4
755	---	3.85	6, 7 1/2A, 75B	1	3 3/4	8 1/2x2 1/2x3 3/4
756	---	4.17	7 1/2, 9A, 90B	1	3	8 7/8x2 1/8x3 3/4

Eveready No.	Single Battery	Net Each Unit Package	Volts	Qty.	Unit Package Wgt. in Lbs.	Approx. Size
"B" BATTERY FOR HOME RECEIVERS						
487	2.66	2.42	45	6	27	5 1/8x2x7 1/4

Eveready No.	Single Battery	Net Each Unit Package	Volts	Qty.	Unit Package Wgt. in Lbs.	Approx. Size
"A-B" PACKS FOR HOME RECEIVERS						
758	---	5.96	1 1/2A, 90B	1	14 3/4	10 3/4x4 1/8x6 3/4
759	---	5.96	1 1/2A, 90B	1	17	15 3/4x4 1/8x7

Eveready No.	Single Battery	Net Each Unit Package	Volts	Qty.	Unit Package Wgt. in Lbs.	Approx. Size
"A" BATTERY FOR HOME RECEIVERS						
740	---	3.61	1 1/2	1	6 1/4	4 5/8x3 7/8x7 3/4

Eveready No.	Single Battery	Net Each Unit Package	Volts	Qty.	Unit Package Wgt. in Lbs.	Approx. Size
"C" BATTERIES AND MISCELLANEOUS TYPES						
762S	---	3.15	45	1	3	4 1/4x2 1/2x6 1/2
763	1.51	1.37	22 1/2	5	4 3/4	3 1/2x2 1/8x3
768	---	1.51	22 1/2	1	1 1/2	4 1/8x2 1/2x3
771	.98	.89	4 1/2	5	4 1/2	3 7/8x1 3/8x3
773	.92	.84	7 1/2	5	3	3 7/8x1 7/8x3 1/8
778	1.89	1.72	22 1/2	10	17	4 1/8x2 1/2x3 1/2
781	.50	.45	4 1/2	5	1 3/4	2 1/2x7/8x3 1/4

Mercury "A" Batteries



Grid Bias Cells



Used in hearing aids, receivers, etc. Voltage on types listed below is 1.345 volts.

Type	Diam.	Hgt.	Life (MAH)	Net
RM-1R	.625"	.650"	1000	\$.29
RM-3R	.973	.650	2000	.41
RM-4R	1.187	.650	3200	.53
RM-12R	.625	1.950	3600	.64
RM-502R	.538	1.950	2400	.59

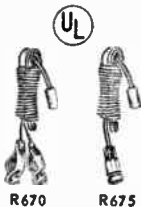
BIAS CELLS
TYPE BC-3 1 1/2-VOLT GRID BIAS CELL.
 Do not cause noise in circuits. Not necessary to bypass to ground. Accuracy 10%. Can be used in series for higher voltage. Net Each.....\$.29

GRID BIAS CELL HOLDERS
 GB-17. 1-cell capacity. Net.....\$.23
 GB-15. 2-cell capacity.....\$.23
 GB-16. 4-cell capacity.....\$.23

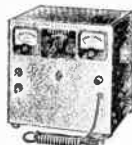
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BATTERY CHARGERS



**HEAVY DUTY
SIX VOLT DC
POWER SUPPLY**



Continuously variable and filtered DC power supply with automatic voltage regulating system. Output 0-8 volts DC, 25 amperes continuous, 40 amperes intermittent. Output filtering capacity in mmfd 10,000. Selenium rectifier. Designed for laboratory, experimental, bench testing of auto radio, mobile ham receivers and equipment, radio-telephone, etc. Ammeter and voltmeter on front panel. Operates on 117 VAC 60 cycle. Size: 11x10 1/2 x 8 3/4" D. Shpg. Wgt. 35 lbs.

MODEL 6RS25-1. Net.....\$ 87.71

Modern battery chargers using full-wave selenium rectification. Will charge any type of storage battery. All have taper charge feature which prevents overcharging, all models except 6SAC4 have charging indicator light. May be used on garage floor, bench, or in car; may also be hung on wall. DC output of units terminates in universal socket on panel, no DC leads are included. See description of R670 and R675 assemblies below. All models operate on 110-120 VAC 60 cy.

NUMBER	VOLTS	AMPS	SIZE	WGT.	NET
6SAC4	6	4	4 1/2 x 4 1/2 x 4 1/2"	5 1/2 lb.	\$11.07
6SAC6	6	6	7 x 5 x 5"	7	13.04
6SAC10	6	10	8 x 7 x 6"	9	19.57
12SAC5	12	5	8 x 7 x 6"	9	19.57

R670. Polarized Battery Clip DC Cord Assembly for any above chargers. Net \$ 1.27

R675. Universal Cigarette Lighter Plug DC Cord Assembly for any above chargers. Net \$ 1.46

MALLORY RECTOPOWER SUPPLY



Continuously variable DC voltage power source, dual output of 0-8 or 0-16 volts, 6 or 10 DC amperes output continuous or 14 or 20 DC amperes output intermittent. For use in demonstrating or servicing mobile equipment, auto sets, laboratory, experimental, production line. Output filtering capacity in mmfd 12,000. Selenium rectifier. Voltmeter and ammeter on panel. Operates on 117 VAC 60 cycle. Size: 6 3/4 x 10 1/4 x 5 1/2" D. Shpg. Wgt. 14 lbs.

MODEL 12RS6D. Net.....\$ 39.15

BATTERY ELIMINATORS



Hum-free operation from these units, which convert battery farm sets to 110 VAC operation.

MODEL S. Supplies A and B voltages for any 1.4 volt farm radio. 4, 5, or 6 tubes. Uses selenium rectifier. Shpg. Wgt. 4 lbs. Net \$ 20.88

MODEL F. Supplies A and B voltages for 4 to 7 tube, 2 volt sets. Shpg. Wgt. 6 lbs. Net \$ 15.43

EICO Battery Eliminator and Charger



MODEL 1050-K. Battery eliminator kit for bench testing and servicing 6-volt or 12-volt auto radios. DC output: 0-8 volts or 0-16 volts; 6-12 volt toggle switch. Current rating at 0-8 volts; 10 amps continuous, 20 amps intermittent. Current rating at 0-16 volts; 6 amps continuous, 12 amps intermittent. Charges any 6-volt or 12-volt battery. Continuous voltage adjustment with variac-type transformer. Separate voltmeter and ammeter. Fused primary, automatic reset overload relay for secondary. Operates on 105-125 VAC, 50/60 cycles. Blue-grey steel hammetone case, size: 10 1/2 x 7 3/8 x 8 3/4". May be wall-mounted. Easy to assemble. Shpg. Wgt. 17 lbs. Net \$ 29.95

MODEL 1050. Same as above but factory wired and tested. Net \$ 38.95



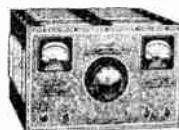
JFD BATTERY PLUGS

Number	For	Net
701	3 pr. 45 V "B"	\$.09
704	2 pr. 4 1/2 V "A"	.09
705	3 pr. 45 V "B"	.09
706	2 pr. 1 1/2 V "A"	.09
707	4 pr. 1 1/2 V "A" - 90 V "B"	.15
708	2 pr. 6 V "A"	.09
709	4 pr. 6 V "A" - 90 V "B"	.15
710	2 pr. 7 1/2 V "A"	.09
711	4 pr. 1 1/2 V "A", 63, 90 V "B"	.08
713	Mole for XX45 or 467	.05
714	Female for XX45 or 467	.06
715	3 pr. 45 V "B" Standard	.15
718	4 pr. 6 V "A" - 75 V "B"	.08
720	4 pr. 6 V "A" - 90 V "B"	.08
723	2 pr. 3 V "A"	.06
725	3 pr. 4 1/2 V "C"	.06
729	2 pr., Large Pins	.06



POWER SUPPLY CONTINUOUSLY VARIABLE

0-28 VOLTS AT 15 AMPERES



Specially filtered DC power supply, less than 1% ripple at top load. Continuously variable, 0-28 volts up to 15 amperes continuous duty, 0-36 volts up to 6 amperes continuous duty, up to 25 amperes at intermittent loads. 115 VAC 50/60 cycle input, 730 watts at 28 volts 15 amperes. Less than 1% AC ripple at 15 amperes. For use in laboratories, research, schools, testing mobile equipment, telephone circuits, low voltage devices, etc. D'Arsonval type ammeter and voltmeter. Bridge-type selenium rectifiers. Superior Powerstat for incremental voltage adjustment. Fused input on front panel. Heavy steel cabinet finished in blue hammetone, size 14 1/4 x 14 1/4 x 9 3/4" H. Shpg. Wgt. 86 lbs.

MODEL NF. Net.....\$ 191.10

Similar to Model NF in output and other specifications but has 5% AC ripple or 10 amperes, 8% of 15 amperes. Shpg. Wgt. 75 lbs.

MODEL N. Net.....\$ 171.50

CORNELL - DUBILIER

VIBRATOR Converters



Conservatively rated vibrator converters for all uses, DC inputs from 6 to 110 volts. Adequately hum filtered. Types 110RT15, 110T22, 110RT35 are designed for television sets, type 110PA5 is for operating small phono motor. Output on all types is 110 VAC 60 cy.

NUMBER	INPUT	WATTS	SHPG. WT.	NET
6R5	6 VDC	50	13 lbs.	\$28.37
6R10	6 VDC	100	20 lbs.	40.25
12R8	12 VDC	80	13 lbs.	28.37
12RU15	12 VDC	150	24 lbs.	53.99
32R8	32 VDC	80	15 lbs.	32.81
32RU15	32 VDC	150	24 lbs.	49.71
110PA5	110 VDC	50 VA	2 lbs.	16.02
110R10	110 VDC	100	12 lbs.	27.02
110RT15	110 VDC	150	18 lbs.	43.95
110RA15	110 VDC	150	15 lbs.	32.99
110T22	110 VDC	225	19 lbs.	46.36
110RT35	110 VDC	350	45 lbs.	84.18

SUPREME RADIO MANUALS



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1 1926-1938	\$ 2.50	9 1949	\$ 2.50
2 1939	2.00	10 1950	2.50
3 1940	2.00	11 1951	2.50
4 1941	2.00	12 1952	2.50
5 1942	2.00	13 1953	2.50
6 1946	2.00	14 1954	2.50
7 1947	2.00	INDEX	.25
8 1948	2.00		

1947 TV-FM MANUAL	\$ 2.00
1948 TV MANUAL	3.00
1949 TV MANUAL	3.00
1950 TV-FM MANUAL	3.00
1951 TV MANUAL	3.00
1952 TV MANUAL	3.00
1953 TV MANUAL	3.00
1954 TV MANUAL	3.00
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ARVIN DIAGRAM MANUAL	.50
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PRACTICAL RADIO AND ELECTRONICS COURSE	3.95
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HAM'S INTERPRETER - Wilbur	1.00
HOW TO PASS RADIO LICENSE EXAMINATION - Drew	5.64
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RADIO AMATEUR DX GUIDE	1.00
RADIO AMATEUR QUESTION AND ANSWER LICENSE GUIDE - Ameco	.50
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RADIOTELEPHONE LICENSE MANUAL - Editors and Engineers	3.75
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VOLUME 2 - Editors and Engineers	2.50

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PHOTOFACT FOLDER SETS - Each	\$ 1.75
PHOTOFACT VOLUMES 1 THRU 25 - Each	21.00
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APPLIED RADIO-TV PRINCIPLES CTB-11	3.25
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Volume 2 - AR-2	3.00
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- R-386 - 160-METER PHONE TRANSMITTER.
- R-385 - NO. 1 PROGRESSIVE ALL-WAVE SET.
- R-384 - RECORD AMPLIFIER.
- R-383 - AC-DC INDOOR HARD-OF-HEARING AMPLIFIER.
- R-382 - 2-TUBE PORTABLE.
- R-380 - INEXPENSIVE SIGNAL TRACER.
- R-378 - 2-TUBE SUPER BATTERY PACK SET.
- R-375 - 1949 "LITTLE GIANT" TRF DUAL-PURPOSE SET.
- R-371 - LOW COST PHONE SYSTEM.
- R-370 - PORTABLE 3-TUBE PHONO PLAYER WITH AUTOMATIC RECORD CHANGER.
- R-369 - 3-TUBE POCKET SET HAS BUILT-IN LOUDSPEAKER.
- R-368 - BEGINNER'S 1-TUBE AC-DC LOUDSPEAKER SET.
- R-367 - 3-WAY 4-TUBE PORTABLE VACATION RECEIVER.
- R-366 - 4-TUBE SUPER BROADCAST
- R-365 - TAPPED COIL CRYSTAL RECEIVER AND BATTERY-OPERATED AMPLIFIER.
- R-363 - LOW COST 3-TUBE PROGRESSIVE RECEIVER.
- R-362 - 1948 LOW COST PROGRESSIVE RECEIVER FOR BEGINNERS.
- R-360 - 65G7 SIGNAL "BOOSTER".
- R-359 - BATTERY-OPERATED AMPLIFIER.
- R-358 - "HI Q" 50' S-BAND PHONE AND CW TRANSMITTER.
- R-355 - BEGINNER'S 4-TUBE PROGRESSIVE RECEIVER.
- R-354 - BEGINNER'S LOW COST PROGRESSIVE RECEIVER.
- R-350 - 50-WATT 10-METER CW TRANSMITTER.
- R-345 - HI-EFFICIENCY 2-METER TRANSMITTER.
- R-344 - SELF-CONTAINED PA AMPLIFIER WITH RECORD PLAYER.
- R-339 - ELECTRONIC PHOTO-PRINT TIMER.
- R-337 - 2-TUBE "POCKETTE" PORTABLE.

GERNSBACK

LIBRARY BOOKS



NO.	TITLE	NET
42	HIGH FIDELITY TECHNIQUES	\$ 1.00
43	MODEL CONTROL BY RADIO	1.00
44	BASIC RADIO COURSE	2.25
45	RADIO TUBE FUNDAMENTALS	1.00
46	TELEVISION TECHNOTE	1.50
47	RADIO AND TV HINTS	1.00
48	HI-FI DESIGN, CONSTRUCTION, MEASUREMENTS	1.50
49	RADIO AND TV TEST INSTRUMENTS	1.50
50	TV REPAIR TECHNIQUES	1.50
51	TRANSISTORS - THEORY AND PRACTICE	2.00
52	THE OSCILLOSCOPE	2.25
53	RADIO CONTROL HANDBOOK	2.25

TEXTBOOKS

TITLE	NET
BASIC ELECTRONIC TEST INSTRUMENTS - Turner	\$ 3.92
BASIC RADIO - Hoag	5.39
ELECTRONIC DICTIONARY - Cooke and Marcus	6.37
ELECTRONIC MEASUREMENTS - Terman	9.80
ELECTRONICS FOR ENGINEERS - Marcus and Zeluff	7.35
ELEMENTS OF ELECTRICITY - Timbie	5.39
ELEMENTS OF RADIO - Marcus and Marcus	5.88
ESSENTIALS OF RADIO - Slurzberg	7.35
FUNDAMENTALS OF RADIO - Terman	4.90
HIGH FREQUENCY INDUCTION HEATING - Curtis	6.86
INDUSTRIAL ELECTRONIC CONTROL - Cockrell	5.39
MATHEMATICS FOR ELECTRICIANS AND RADIIOMEN - Cooke	5.39
MODERN OSCILLOSCOPES AND THEIR USES - Ruitor	5.88
PRIMER OF ELECTRONICS - Caverly	5.88
PRINCIPLES OF ELECTRONICS - Kioffler	2.94
PRINCIPLES OF RADIO - Henney	5.39
PRINCIPLES OF RADIO ENGINEERING - Glasgow	6.86
RADIO ENGINEERING - Terman	9.31
RADIO ENGINEERING HANDBOOK - Terman	9.80
RADIO ENGINEERING HANDBOOK - Henney	11.76
RADIO PHYSICS COURSE - Ghirardi	6.37
RADIO, TV, AND ELECTRONICS HANDBOOK - Popular Mechanics	2.50
REFERENCE DATA FOR RADIO ENGINEERS - Federal Telephone	3.75
STANDARD HANDBOOK FOR ELECTRICAL ENGINEERS - Knowlton	16.66
THE OSCILLOGRAPH - Weiss	1.00
TRANSMISSION LINES, ANTENNAS, AND WAVE GUIDES - King, Mimm, Wing	5.88
UHF RADIO SIMPLIFIED - Kivier	4.41
ULTRA HIGH FREQUENCY TECHNIQUE - Brainerd	6.86
UNDERSTANDING RADIO - Watson, Welch, and Eby	6.37

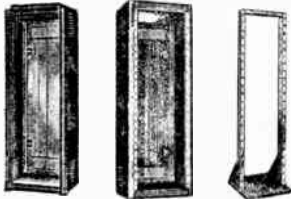
MISCELLANEOUS BOOKS

TITLE	NET
DIODE CIRCUIT KINKS - Sylvania	\$.25
ELECTRONIC FLASH BOOKLET	
C-703 - Sprague	.35
ELECTRONIC SHORT CUTS FOR HOBBYISTS - Sylvania	.25
FORTY USES FOR THE GERMANIUM DIODE - Sylvania	.25
HOW TO BUILD IT 53-1 - Meissner	1.50
HOW TO LISTEN TO THE WORLD - Wibur	.40
MALLORY ENCYCLOPEDIA - 6th Edition	1.96
SELENIUM RECTIFIER HANDBOOK - Federal	.50
WORLD RADIO HANDBOOK	1.50

CABINETS - RELAY RACK PANELS

CAB

PAR-METAL



ER-223
ER-225
ER-227

ER-213
ER-215
ER-217

RR-193
RR-195

TYPE A ENCLOSED RELAY RACKS

Streamlined modern design. Removable vertical corner moldings. Made of 1/8" cold rolled steel. Tapped for 10/32 screw. Panels fit into recess, edges are not exposed. Louvered sides. Hinged rear door. Rack shelf ER-2212 and roller truck RT-412 designed to fit these racks. Black or grey ripple finish. Racks shipped knocked down.

Number	Overall Size	Panel Space	Shpg. Wgt.	Net Each
ER-223	43 1/2 x 22 x 18	36 1/2	90 lbs.	\$ 46.50
ER-225	67 1/2 x 22 x 18	61 1/2	130	57.00
ER-227	83 1/2 x 22 x 18	77	150	69.00

ROUNDED CORNER TYPE

Ideal for transmitter or PA systems. Made of 1/8" steel. Panels fit into recess. Side louvre ventilation. Rear door is hinged. Grey or black ripple finish. Designed to take ER-2112 rack shelf and RT-411 roller truck.

Number	Overall Size	Panel Space	Shpg. Wgt.	Net Each
ER-213	42 x 22 x 16 1/2	36 1/2	85 lb.	\$ 32.70
ER-215	66 1/2 x 22 x 16 1/2	61 1/2	125	48.60
ER-217	82 1/2 x 22 x 16 1/2	77	145	58.50

TYPE A CHANNEL RELAY RACKS For Standard 19" Rack Panels

Open type racks ideal for transmitters and PA systems. Constructed of 3/4" pressed steel. Securely welded together. Tapped for 1/2" screw. Supplied with ample mounting screws and washers. RR-195 rack base 22" deep, RR-193 19" deep. Black enamel finish.

Number	Overall Size	Panel Space	Shpg. Wgt.	Net Each
RR-193	38 1/2 x 20 x 18 1/2	36 1/2 x 19	45 lb.	\$ 17.40
RR-195	73 1/2 x 20 x 20 1/2	71 1/2 x 19	55	20.70



ROLLER TRUCKS FOR RACKS DELUXE TYPE

Especially designed for use on racks. Ball-bearing casters, composition wheels furnished. Rounded corners, chrome trim. Grey finish. Shpg. Wgt. 20 lbs.

Number	Size	For Rack	Net
RT-411	22 1/2 x 17 1/2	ER-213, 215, 217	\$ 10.20
RT-412	22 1/2 x 18	ER-223, 225, 227	11.40



CR-1774
CR-1771
CR-1772
CR-1773



RR-1263
RR-1264

DELUXE RELAY RACKS

Made of 16 gauge steel, 1/8" panel supports. Panel mounting supports recessed so that no edges of panel are exposed. Well louvered for ventilation. Snap catches on door. Rounded corners and red-lined chrome trim. Shipped knocked down, complete with all necessary hardware. Uses 19" panels. Casters can be fastened directly to base. RC-7756 casters will fit these units. Casters not included. Black or grey wrinkle finish. Overall width 22", depth 17 1/2" on all sizes.

Number	Overall Height	Panel Space	Shpg. Wgt.	Net Each
CR-1774	42 1/2	36 1/2	90 lbs.	\$ 32.05
CR-1771	47 1/2	42	95	36.70
CR-1772	66 1/2	61 1/2	122	47.63
CR-1773	82 1/2	77	150	57.33

BUD TELEPHONE TYPE RELAY RACKS

Made of 1/8" steel channels, 3" deep, held together by angle cross pieces of the same material. Black wrinkle finish. All racks accommodate standard 19" panels. Holes in base for RC-7756 casters.

Number	H	D	Panel Space	Shpg. Wgt.	Net Each
RR-1263	35 1/2	22	31 1/2	38 lbs.	\$ 17.25
RR-1264	70 1/2	22	66 1/2	53	19.66



PAR-METAL

SHELVES FOR CABINET RACKS

All shelves are 1" high, side bolt mounting, finished in black ripple enamel. Shpg. Wgt. each 10 lbs.

Number	Size	For Rack	Net
ER-2012	12 x 20 1/2	ER-203, 205, 207	\$ 2.55
ER-2112	13 x 21 1/2	ER-213, 215, 217	3.15
ER-2212	15 x 21 1/2	ER-223, 225, 227	3.15



BLANK STEEL CHASSIS BASES HEAVY DUTY TYPE

Formed from one piece of 1/8" sheet steel, with all corners and bottoms reinforced. Bottom plates and mounting screws supplied. Black ripple finish.

Number	Dimensions	Shpg. Wgt.	Net
15280	8x17x2"	8 lbs.	\$ 2.76
15281	8x17x3	9	3.00
15282	11x17x2	9	3.15
15210	11x17x3	11	3.36
15213	13x17x3	12	3.87

STANDARD TYPE

Construction same as heavy duty chassis. Welded corners. Bottom edges are flanged. Drilled for bottom plates. 1/8" steel. Black ripple finish.

Number	Dimensions	Shpg. Wgt.	Net
B-4535	13x17x2"	8 lbs.	\$ 2.46
B-4537	13x17x4	10	3.25



DELUXE CABINET RACKS

Rounded corners and red-lined chrome trim. Recessed, hinged door on top with snap catch. Heavy gauge steel. Three larger sizes have hinged rear door, smaller sizes have welded panel in rear. Adequate ventilation. "No scratch" extended metal feet. Black or grey wrinkle. Depth 14 1/2", Width 22", For 19" panels.

Number	Overall Height	Panel Space	Shpg. Wgt.	Net Each
CR-1741	10 1/2	8 1/2	28 lbs.	\$ 11.76
CR-1740	12 1/2	10 1/2	30	13.43
CR-1742	14 1/2	12 1/2	32	14.26
CR-1739	15 1/2	14	34	15.88
CR-1743	19 1/2	17 1/2	38	18.82
CR-1744	28 1/2	26 1/2	48	22.05
CR-1745	36 1/2	35 1/2	60	24.40

BUD JUNIOR CABINET RACKS

Inexpensive multi-purpose unit. Will accommodate two panels, 10 1/2 x 18 1/2" and 8 1/2 x 18 1/2". Panels are supplied. Takes chassis up to 10 x 17". Rear hinged door with locking device. Black wrinkle finish. Overall height 21 1/2", Depth 10 1/2", Width 19 1/2". Shpg. Wgt. 34 lbs.

MODEL RC-1749A. Net Each.....\$ 15.63



DESK TYPE RELAY RACKS

For table mounting of low and medium powered transmitters and P.A. systems. Rack has strong chassis for mounting heavy components. Shipped knocked down with hardware. Panels are set in recess and no edges are exposed. Black wrinkle finish. Depth 12".

Number	Height	Panel Space	Shpg. Wgt.	Net Each
RR-1248	24"	21 x 19"	17 lbs.	\$ 6.58
RR-1249	31"	28 x 19"	19	8.21



BUD RACK SHELVES

Heavy power supplies, modulator units, etc. can be mounted on these rack shelves which are supported in cabinet by chassis supporting angles. Heavy gauge steel, black wrinkle finish.

Number	Width	Height	Depth	Shpg. Wgt.	Net Each
CB-1976	19"	1"	15"	7 lbs.	\$ 3.04
CB-1977	19"	1"	12"	6	2.30

TRUCK CASTERS



Caster wheels are high grade, hard rubber composition and ball-bearing type.

Number	Height	Type	Shpg. Wgt.	Net Each
RC-7756	2 1/2"	Heavy Duty	2 1/2 lbs.	\$.88
RC-7757	2"	Light Duty	2	.39

"Your trade-in's worth more at the WALTER ASHE STORE" 69

PAR-METAL



BLANK PANELS - 1/4" STEEL

Uniformly slotted to fit "A" cabinets and "C" racks. Black or grey ripple finish. All panels are 19" wide.

Black	Grey	Height	Shpg. Wgt.	Net Each
6600	G-6600	1 1/4"	2 lbs.	\$.66
6601	G-6601	3 1/2"	3	.75
6602	G-6602	5 1/4"	4	.93
6603	G-6603	7"	5	1.08
6604	G-6604	8 1/2"	7	1.32
6605	G-6605	10 1/2"	8	1.59
6606	G-6606	12 1/2"	9	1.89
6607	G-6607	14"	10	2.16
6608	G-6608	15 1/2"	12	2.46
6609	G-6609	17 1/2"	13	2.70
6610	G-6610	19 1/4"	14	3.00
6611	G-6611	21"	15	3.30

SPEAKER PANELS

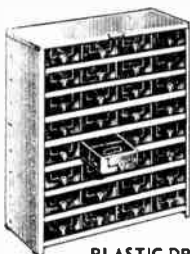
1/4" STEEL



Designed to fit 19" racks. Black or grey ripple finish. Opening covered with steel grill.

Black	Grey	Hgt.	Size	Spr.	Shpg. Wgt.	Net Each
SP-875	SG-875	8 1/2"	6"	4lb.	4	\$2.46
SP-1050	SG-1050	10 1/2"	8"	8	8	3.15
SP-1225	SG-1225	12 1/2"	10"	9	9	3.75
SP-1400	SG-1400	14"	12"	10	10	4.35

"HAZ-BIN, JR."



ALL STEEL CABINET

NAME-PLATE HOLDER

DIVIDERS FOR SECTIONING



PLASTIC DRAWER METAL STORAGE UNITS

A very convenient way to keep small parts such as used by radiomen, automotive industry, business offices, hobbyists, sportsmen, and many others. Clear plastic drawers make it easy to find item you are looking for. Size: 5 1/2x2 1/4x1 1/4". Every drawer has three compartments, plastic dividers included. Cabinet is of all-steel construction, engineered for strength. Baked enamel finish. Every drawer has its own guide, nameplate holder for easy reference to the contents. Cannot spill out when removed but easily taken out with a slight lift.

- MODEL J-12. 12 drawers, 36 compartments. 8Hx6Dx9 1/2"W. Shpg. Wt. 5 1/2 lb. Net...\$ 5.95
- MODEL J-16. 16 drawers, 48 compartments. 8Hx6Dx12 1/2"W. Shpg. Wt. 6 1/2 lb. Net \$ 6.95
- MODEL J-20. 20 drawers, 60 compartments. 10 1/2Hx6Dx12 1/2"W. Shp. Wt. 9 lb. Net \$ 7.95
- MODEL J-32. 32 drawers, 96 compartments. 15 1/2Hx6Dx12 1/2"W. Shpg. Wgt. 12 lbs. Net.....\$ 12.95
- MODEL J-64. 64 drawers, 192 compartments. 15 1/2Hx6Dx25"W. Shpg. Wgt. 23 1/2 lbs. Net.....\$ 24.95



Standard Relay Rack Panels



ALUMINUM

Number	Height	Shpg. Wgt.	Net Each
PA-1101	1 1/2"	1 lb.	\$.73
PA-1102	3 1/2"	1	1.06
PA-1103	5 1/4"	2	1.35
PA-1104	7"	2	1.76
PA-1105	8 1/2"	2 1/2	2.06
PA-1106	10 1/2"	3	2.44
PA-1107	12 1/4"	3 1/2	2.79
PA-1108	14"	4	3.12
PA-1109	15 1/4"	4 1/2	3.53
PA-1110	17 1/2"	5	3.91
PA-1111	19 1/4"	5 1/2	4.26
PA-1112	21"	6	4.56



Made of steel or aluminum. Steel panels made of high grade steel 1/8" thick. Aluminum panels made of 1/2" thick aluminum. All panels are 19" wide. Furnished in either black or grey wrinkle. Specify finish desired.

STEEL

Number	Height	Shpg. Wgt.	Net Each
PS-1250	1 1/2"	2 lbs.	\$.65
PS-1251	3 1/2"	3	.73
PS-1252	5 1/4"	4	.91
PS-1253	7"	5 1/2	1.06
PS-1254	8 1/2"	7 1/2	1.27
PS-1255	10 1/2"	9	1.52
PS-1256	12 1/4"	10	1.81
PS-1257	14"	12	2.11
PS-1258	15 1/4"	13	2.40
PS-1259	17 1/2"	15	2.65
PS-1260	19 1/4"	16	2.94
PS-1261	21"	17	3.23



VENTILATING GRILL PANELS

Made of 1/8" thick steel. Grill is stamped into panel itself. All panels are 19" long, furnished in either black or grey wrinkle finish.

Number	Hgt.	Grill Size	Shpg. Wgt.	Net Each
PS-808	5 1/2"	3 1/2x14 1/2"	3 lbs.	\$ 2.59
PS-809	7"	4 1/4x14 1/2"	4	2.79
PS-810	8 1/2"	3 1/2x14 1/2"	5 1/2	3.38
PS-811	10 1/2"	5 1/2x14 1/2"	6 1/2	3.58
PS-812	12 1/2"	7 1/2x14 1/2"	7	3.82



METAL DOOR RACK PANELS



Useful when accessibility of components on chassis is important. Door has improved locking device. Made of 1/4" sheet steel. Black or grey wrinkle finish. Shpg. Wgt. 10 lbs.

Number	Length	Width	Door Opening	Net Each
PS-615	19"	10 1/2"	15 1/2x6"	\$ 4.41
PS-616	19"	12 1/2"	15 1/2x7 1/2"	4.85

STAR UTILITY CABINET

Sturdy all-steel cabinets for storing and stocking small parts. Used by technicians, hobbyists, workshops, homes, etc. Two sizes available, both finished in blue hammerloid. Easy to stack, index card holder in each handle.

- NO. 603. 4 drawers, 5 1/2Wx8Lx1 1/4"D, one is plain, three have removable partitions to make from three to six compartments. Shpg. Wgt. 3 1/2 lbs. Net.....\$ 1.87
- NO. 9-115. 4 drawers, 9Wx11 1/2Lx2"D. Each drawer has three compartments with removable partitions, drawer can be used plain if wanted. Shpg. Wgt. 13 lbs. Net.....\$ 3.67



BUD METAL PANELS

These steel panels fit all usual requirements. Black wrinkle finish only.

Number	Width	Length	Shpg. Wgt.	Net Each
PS-1200	7"	8"	1 1/2 lbs.	\$.61
PS-1201	7"	10"	1 1/2	\$.64
PS-1202	7"	12"	1 1/2	.69
PS-1203	7"	14"	2 1/2	.78
PS-238	7 1/2"	15"	2 1/2	1.08
PS-239	8"	10"	2 1/2	.88
PS-240	8"	12"	2 1/2	.98
PS-1204	8"	14"	2 1/2	.90
PS-1205	8"	16"	2 1/2	.98
PS-1187	8"	18"	3 1/2	1.08
PS-1188	8"	19"	3 1/2	1.37
PS-700	9"	15"	3 1/2	1.18

BUD STEEL METER PANELS

All meter panels are of 1/8" thick steel, 5 1/2" high, 19" wide, available in black or grey wrinkle finish.

Number	No. of Holes	Hole Diam.	Shpg. Wgt.	Net Each
PS-440	3	2.334"	3 lbs.	\$ 1.27
PS-441	5	2.334"	3	1.81
PS-442	3	2.835"	3	1.27
PS-443	5	2.835"	3	1.81

ENCLOSED METER PANEL



Steel panel measures 19Lx5 1/2"W. Blank masonite sub-panel mounted behind large cut-out. Meter mounting area 4 1/2x15 1/2". Glass insert (not supplied) should be cut 16Lx4 1/2"W. Available in black or grey wrinkle. Shpg. Wgt. 4 lbs.

NO. PS-439. Net.....\$ 5.73



INSTRUMENT CASES - PANELS

Sturdy, heavy molded plastic meter cases with highly polished finish. BC-140 outer dimensions, 5 1/2x6 3/4", inner 4 1/2x6 1/2". BC-138 outer dimensions, 3 1/2x6 1/2x2", inner 3 1/2x6". Matching panels available.

- BC-138 CABINET. Net.....\$.79
- BP-137 PANEL for BC-138.....\$.41
- BC-140 CABINET.....\$ 1.24
- BP-139 PANEL for BC-140.....\$.59

METAL CHASSIS

CAB



MINIATURE ALUMINUM CHASSIS

Small open end aluminum chassis for miniature tube applications or sub-assemblies. $\frac{1}{4}$ " flanges on bottom. Shpg. Wgt. 1 lb.

Number	D.	W.	H.	Fits Cab.	Net Each
CB-1623	2 1/4"	2 1/4"	1 1/4"	C-1784	\$.29
CB-1624	1 1/4"	3 1/4"	1	CU-883	.32
CB-1625	3 1/4"	4 1/4"	2	C-1788	.35
CB-1626	2 3/4"	4 1/4"	1	CU-728	.35
CB-1627	3 3/4"	4 1/4"	1 1/2"	CU-729	.35
CB-1628	3	6 1/4"	1 1/4"	C-1785	.41
CB-1629	5 1/4"	4 1/4"	1 1/2"	CU-1098	.44
CB-1617	4	3 1/4"	1	C-1602	.35
CB-1618	4	4 1/4"	1	C-1603	.38
CB-1619	4	5 1/4"	1	C-1604	.41
CB-1620	4	6 1/4"	1	C-1605	.44



BUD REMOVABLE TOP CHASSIS

For amateurs and experimenters who make periodic changes. Width 17". Old drilled tops may be replaced with new ones at low cost.

Black Wrinkle	Zinc Plated	Number	D.	H.	Shpg. Wgt.	Net Each
CB-196	CB-193	10	3"	5 1/2"	lbs.	\$ 3.23
CB-197	CB-194	10	4	8		3.58
CB-251	CB-210	13	3	8		3.38
CB-252	CB-211	13	4	8 1/2"		4.17



BUD OPEN END CHASSIS

U-shaped construction; ends folded over $\frac{3}{8}$ ". For use with various styles and sizes of metal cabinets. Finish is electro-zinc plating.

Number	D.	W.	H.	Fits Cab.	Shpg. Wgt.	Net Each
CB-38	7"	6"	2"	C-1584	1 1/2 lb.	\$.65
CB-30	5	7	1 1/2			.59
CB-41	7	7	1 1/2	C-973		.73
CB-39	7	8	2	C-1585	1 1/2	.82
CB-996	5 1/2	9	1 1/2	C-993	1	.69
CB-976	7 1/2	9	1 1/2	C-999, C-1746	1 1/2	.93
CB-40	7	10	2	C-1586	2	.88
CB-997	7	11	1 1/2	C-994, C-1747	2	.98
CB-998	7	13	1 1/2	C-995, C-1748	2	1.14
CB-34	10 1/2	14	2	C-975	3	1.41
CB-35	7 1/2	15	2	C-1190A	2 1/2	1.35



TRIANGULAR MOUNTING BRACKETS

Make convenient supports. Constructed of heavy steel. Block enamel finish. Sold in pairs only.

Number	Height	Depth	Shpg. Wgt.	Net Pair
MB-1266	5"	5"	1 1/2 lb.	\$.78
MB-1267	7	7	2	.89
MB-1268	9.	9	2	1.08

BUD STEEL CHASSIS BASES

Made from one piece of steel, all corners are reinforced and spot-welded. Permits o bottom plate to be attached.

Black Wrinkle	Zinc Plated	Number	D.	W.	H.	Ga. Wt.	Shpg. Wgt.	Net Each
CB-628	CB-629	5"	7"	2"	22	1 1/2	lb	\$.83
CB-644	CB-645	5	9 1/2	2	22	2		.88
CB-788	CB-776	5	9 1/2	1 1/2	22	1 1/2		.78
CB-604	CB-605	5	10	3	22	2		1.03
CB-755	CB-756	6	14	3	20	2		1.24
CB-789	CB-1191	7	7	2	22	2		.88
CB-790	CB-1192	7	9	2	22	2		1.03
CB-791	CB-1193	7	11	2	20	2		1.08
CB-792	CB-793	7	12	3	20	2		1.23
CB-646	CB-1194	7	13	2	20	2 1/2		1.18
CB-647	CB-1198	5	13 1/2	2	20	2		1.27
CB-649	CB-1189	7	15	3	20	2 1/2		1.42
CB-665	CB-666	8	15	3	20	3		1.62
CB-1068	CB-1066	4	17	3	20	3		1.27
CB-648	CB-1199	7	17	2	20	3		1.52
CB-757	CB-758	7	17	3	20	2		1.54
CB-701	CB-702	8	10	2	20	2 1/2		1.39
CB-703	CB-704	8	12	2	20	3		1.47
CB-759	CB-760	8	12	3	20	2		1.40
CB-650	CB-774	8	17	2	20	3		1.42
CB-651	CB-775	8	17	3	20	4		1.52
CB-652	CB-1195	10	12	3	20	3 1/2		1.47
CB-653	CB-779	10	14	3	20	4 1/2		1.57
CB-654	CB-769	10	17	2	20	4		1.57
CB-636	CB-637	10	17	3	20	4 1/2		1.57
CB-655	CB-1196	10	17	3	18	5 1/2		1.81
CB-656	CB-1197	10	23	3	18	6		2.39
CB-657	CB-770	11	17	2	18	5		1.96
CB-658	CB-771	11	17	3	18	5		2.16
CB-663	CB-661	12	17	2	18	5		1.67
CB-664	CB-662	12	17	3	18	5 1/2		1.96
CB-659	CB-772	13	17	2	18	5 1/2		2.30
CB-660	CB-773	13	17	3	18	6		2.50
CB-640	CB-641	10	17	4	18	7		2.00
CB-642	CB-643	13	17	4	18	8		2.94
CB-623	CB-624	10	17	5	18	8		3.58
CB-625	CB-626	13	17	5	18	8 1/2		3.92

20% DEPOSIT REQUIRED ON

C.O.D. ORDERS



BUD CHASSIS SUPPORTING ANGLES

Sturdy angles distribute weight on sides of rack and relieve tension on panel. Block pointed steel $\frac{1}{4}$ " thick. Sold in pairs only.

Number	Length	Width	Shpg. Wgt.	Net Pair
SA-1349	14 1/2"	3"	5 lbs.	\$ 1.71
SA-1350	12	3	4	1.62

BUD ALUMINUM CHASSIS

Made from one piece of aluminum. Spot-welded reinforced corners. Folded bottom edges permit use of bottom plate. Aluminum gauges indicated.

Number	D.	W.	H.	Gauge	Shpg. Wgt.	Net Each
AC-430	4"	6"	3"	18	1 lb.	\$ 1.00
AC-431	4	6	2	18	1	1.00
AC-432	4	17	3	16	2	1.79
AC-402	5	7	2	18	1	.82
AC-429	5	7	3	16	1	1.03
AC-403	5	9 1/2	2	18	1	.97
AC-421	5	9 1/2	3	18	1	1.15
AC-404	5	10	3	18	1	1.18
AC-422	5	13	3	18	1	1.23
AC-433	6	17	3	16	2	1.85
AC-405	7	7	2	18	1	.97
AC-406	7	9	2	18	1	1.06
AC-407	7	11	2	18	1	1.18
AC-408	7	12	3	18	1 1/2	1.38
AC-409	7	13	2	18	1	1.23
AC-411	7	15	3	16	2	2.00
AC-423	7	17	3	16	2	1.79
AC-424	8	12	3	16	2	1.68
AC-425	8	17	2	16	2	1.85
AC-412	8	17	3	16	2	2.18
AC-413	10	12	3	16	2	1.85
AC-414	10	14	3	16	2	2.35
AC-415	10	17	2	16	2	2.23
AC-416	10	17	3	16	2 1/2	2.53
AC-426	11	17	2	14	3	2.32
AC-417	11	17	3	14	3	2.94
AC-418	12	17	3	14	3	3.12
AC-419	13	17	2	14	3	2.76
AC-420	13	17	3	14	3	3.29
AC-427	10	17	4	14	4	2.91
AC-428	13	17	4	14	4	3.76



BUD CHASSIS BOTTOM PLATES

Make excellent dust covers and protect wiring. Plate has four formed bosses which prevent sharp edges from scratching. Mode of steel.

Black Wrinkle	Zinc Plated	Number	Width	Length	Shpg. Wgt.	Net Each
BP-705	BP-706	5"	7"	1 lb.		\$.45
BP-680	BP-667	5	9 1/2	1		.47
BP-536	BP-538	5	10	1		.45
BP-681	BP-668	7	7	1 1/2		.66
BP-682	BP-669	7	9	1 1/2		.66
BP-683	BP-670	7	11	1 1/2		.70
BP-537	BP-539	7	12	2		.67
BP-684	BP-671	7	13	2		.73
BP-685	BP-672	5	13 1/2	1 1/2		.59
BP-516	BP-513	7	15	2		.73
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	2		.73
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	2 1/2		1.18
BP-692	BP-679	13	17	3		1.37
BP-518	BP-515	10	23	3		1.47

"Your trade-in's worth more at the WALTER ASHE STORE" 71

PAR-METAL

AMPLIFIER FOUNDATION CHASSIS



SLOPING FRONT AMPLIFIER FOUNDATION CHASSIS

Modern streamlined design, finished in slate grey, trimmed with chrome moulding and handles. Front panel removable. Supplied complete with chassis and bottom plates. Screen cover is 6 1/2" high.

Number	Chassis Size	Shpg. Wgt.	Net
F-10120	10x12x3"	11 lbs.	\$ 6.90
F-10170	10x17x3	13	7.80
F-13170	13x17x3	15	8.85



ROUNDED CORNER TYPE AMPLIFIER FOUNDATION CHASSIS

Professional type, rounded corners on screen cover. Chrome mouldings and handles. Cover finished in grey, chassis in black.

Number	Size	Shpg. Wgt.	Net
DF-510	5x10x3"	7 lbs.	\$ 3.75
DF-615	6x14x3	8	4.35
DF-717	7x17x3	9	4.95
DF-1012	10x12x3	9	4.95
DF-1017	10x17x3	10	5.85
DF-1317	13x17x3	12	7.05



STANDARD AMPLIFIER FOUNDATION CHASSIS

Rounded corners, steel chassis with weld-corners. Cover finished in grey, chassis in black. Chassis drilled for bottom plates.

Number	Size	Shpg. Wgt.	Net
F-510	5x10x3"	7 lbs.	\$ 2.70
F-615	6x14x3	8	3.00
F-717	7x17x3	9	3.75
F-1012	10x12x3	9	3.75
F-1017	10x17x3	10	4.50
F-1317	13x17x3	12	5.40



SLOPING FRONT CABINETS

Easily adapted for use in studios, laboratories, etc. Top corners round and trimmed with chrome moulding. Finished in slate grey. Less chassis.

Lumber	H. W. D.	Panel Space	Shpg. Wgt.	Net
F-500	8x8x8"	7x7x2"	6 lb.	\$3.84
F-501	8x10x8"	7x9x2"	7	4.26
F-502	8x14x8"	7x13x2"	8	4.59
F-503	9x18x8"	7x17x3"	10	6.60
F-504	12x18x12"	10x17x3"	14	8.40



SLOPING PANEL AMPLIFIER FOUNDATION CABINET

4" sloping front chassis on which is mounted a removable top cover. All have handles mounted on chassis. Chassis 3 1/2" high, 9 1/2" overall height. Grey wrinkle cover with chrome trim, chassis finished in black wrinkle.

Number	Top Depth	Chassis Length	Shpg. Depth	Net Wgt.	Each
CA-1980	5"	10"	8"	8 lb.	\$ 5.49
CA-1981	7	12	10	9	6.40
CA-1982	7	17	10	11	7.41
CA-1983	10	17	13	13	8.09



INSTRUMENT AND RECEIVER CABINETS

Each cabinet has evenly recessed hinged cover with convenient finger lift. Panel on front of cabinet has self-tapping screws. Louvers provide ample ventilation. Black wrinkle only. Less chassis. For chassis to fit these cabinets, see listing of open end chassis.

Number	H.	W.	D.	Shpg. Wgt.	Net Each
C-973	7"	8"	8"	6 1/2 lbs.	\$ 3.14
C-993	7	10	8	7	3.41
C-994	7	12	8	7	3.92
C-995	7	14	8	8	4.12
C-1190	8	16	8	9	5.88
C-975	9	15	11	10	5.88
C-999	12	18	12	17	8.09

All prices and specifications in this catalog subject to change without notice.

MINIATURE AMPLIFIER FOUNDATION



Small cabinet can be used when designing a compact amplifier with miniature tube. Chassis size 5x7x2". Overall height 6". Perforated metal cover. Handle makes cabinet portable. Black wrinkle finish. Shpg. Wgt. 2 lbs.

CA-1754, Net Each.....\$ 3.43



BUD STREAMLINED MULTI-PURPOSE CABINETS

Streamlined metal cabinet finished in grey wrinkle. Back of cabinet open for ventilation. Less chassis.

Number	D.	W.	H.	Use Chassis	Shp. Wgt.	Net Each
C-1784	3 1/2"	3 1/2"	4 1/2"	CB-1623	1 lb.	\$ 1.62
C-1785	3 1/2"	7 1/2"	4 1/2"	CB-1623	2	1.89
C-1787	3 1/2"	5 1/2"	4 1/2"	CB-1625	1 1/2	1.67
C-1788	3 1/2"	5 1/2"	6 1/2"	CB-1625	2	1.71



BUD SLOPING PANEL CABINETS

Entire front panel removable. Hinged top. Finished in black wrinkle. Less chassis.

Number	W.	D.	H.	Size	Chassis Net Each
C-1584	7 1/2"	7 1/2"	6 1/2"	7x6x2"	\$ 3.09
C-1585	9 1/2"	7 1/2"	6 1/2"	7x8x2	3.51
C-1586	11 1/2"	7 1/2"	6 1/2"	7x10x2	3.88
C-1892	13 1/2"	8 1/2"	8	8x12x2 1/2	4.65
C-1893	18 1/2"	10 1/2"	10	10x17x3	6.53



BUD STREAMLINED CABINETS

Rounded front corners and recessed hinged top. Overall height 8". Depth 8 1/4". Black wrinkle finish only. Less chassis; see listing of open end chassis.

Number	Panel Size	Cabinet Width	Shpg. Wgt.	Net Each
C-1789	8x8"	10 1/2"	8 lbs.	\$ 3.19
C-1746	8x10	12 1/2"	8 1/2	3.92
C-1747	8x12	14 1/2"	9	4.41
C-1748	8x14	16 1/2"	9 1/2	5.05
C-1790	8x16	18 1/2"	10 1/2	5.63
C-1730	12x18	20 1/2"	18	9.11

DELUXE STREAMLINED CABINETS

Identical to those listed above except that they have a 1/2" vertical chrome strip at each side of the panel and are supplied in grey wrinkle enamel only. Less chassis.

Number	Panel Size	Cabinet Width	Shpg. Wgt.	Net Each
C-1791	8x8"	10 1/2"	7 lbs.	\$ 4.07
C-1781	8x10	12 1/2"	7 1/2	4.53
C-1782	8x12	14 1/2"	8	4.85
C-1783	8x14	16 1/2"	9	6.06
C-1792	8x16	18 1/2"	9	6.37
C-1731	12x18	20 1/2"	18	10.04



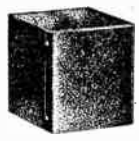
BUD METAL CARRYING CASES

Easy grip handle at top. Front and back panels removable. Welded construction. Less chassis. CC types are steel, ACC types are aluminum with etched finish.

Number	D.	W.	H.	Shpg. Wgt.	Net Each
CC-1095	5"	6"	9"	4 lbs.	\$ 2.43
CC-1091	5	9	6	4	2.43
CC-1096	6	7	12	5	2.84
CC-1092	6	12	7	5	2.84
CC-1097	7	7 1/2	15	6	3.53
CC-1100	8	10	10	6	3.35
CC-1093	7	15	9	6	4.90
ACC-2095	5	6	9	2	2.35
ACC-2091	5	9	6	2	2.35
ACC-2096	6	7	12	2	2.94
ACC-2092	6	12	7	2	2.94

CABINETS - CHASSIS

CAB



BUD MINIBOXES

Heavy gauge aluminum. Grey hammertone finish. Design permits installation of more components than conventional box. 2-piece construction, each half forming three sides.

Number	L.	W.	H.	Shpg. Wgt.	Net Each
CU-2100	2 1/2"	2 1/2"	1 1/2"	1 lb.	\$.62
CU-2101	3 1/4"	2 1/2"	1 1/2"	1	.62
CU-2102	4"	2 1/2"	1 1/2"	1	.65
CU-2103	4"	2 1/2"	2 1/4"	1	.85
CU-2104	5"	2 1/2"	2 1/4"	1	.88
CU-2105	5"	4"	3"	1	.97
CU-2106	5 1/2"	3"	2 1/4"	1	.94
CU-2107	6"	5"	4"	1	1.21
CU-2108	7"	5"	3"	1	1.35
CU-2109	8"	6"	3 1/2"	2	1.97
CU-2110	10"	6"	3 1/2"	2	2.44
CU-2111	12"	7"	4"	2	2.88
CU-2112	17"	5"	4"	3	3.38
CU-2113	10"	2"	1 1/2"	1	1.18
CU-2114	12"	2 1/2"	2 1/4"	1	1.32
CU-2115	4"	2"	2 1/2"	1	.82
CU-2116	4 1/2"	2 1/2"	1 1/2"	1	.85
CU-2117	3 1/2"	2 1/2"	1 1/2"	1	.62

METAL UTILITY CABINETS

Useful for all sorts of electronic equipment, monitors, frequency meters, etc. Two removable sides for easy accessibility. CU types made of cold rolled steel; black wrinkle finish; AU types high grade sheet aluminum, etched finish.

Number	Depth	Width	Height	Shpg. Wgt.	Net Each
CU-883	2"	4"	4"	1 lb.	\$.83
CU-728	3"	5"	4"	1 1/2"	.93
CU-729	4"	5"	6"	2	1.18
CU-1098	6"	6"	6"	3	1.27
CU-1099	5"	6"	9"	3 1/2"	1.82
CU-879	7"	8"	10"	6	2.25
CU-1124	6"	7"	12"	5	2.41
CU-880	8"	10"	10"	7	2.84
CU-881	8"	11"	12"	8	3.53
CU-882	7"	9"	15"	8	4.02
AU-1083	2"	4"	4"	1	.88
AU-1028	3"	5"	4"	1	1.00
AU-1029	4"	5"	6"	1	1.29
AU-1039	6"	6"	6"	1	1.36
AU-1040	5"	6"	9"	1 1/2"	1.94

BUD STREAMLINED SCOPE AND UTILITY CABINETS

Chassis height on all except CU-1991 and CU-1992 is 1 1/2". CU-1991 is designed for 3" CR tube and has hinged cover, chassis height 2". CU-1992 is designed for 5" CR tube and also has hinged cover, chassis height 3". Prices include chassis.

Number	Width	Depth	Height	Shpg. Wgt.	Net Each
CU-1990	5 1/2"	8 1/2"	8"	5 lb.	\$ 3.43
CU-1984	7 1/2"	8 1/2"	8"	5 1/2"	3.45
CU-1985	9 1/2"	8 1/2"	8"	7"	3.84
CU-1986	11 1/2"	8 1/2"	8"	7 1/2"	4.21
CU-1987	13 1/2"	8 1/2"	8"	9"	4.90
CU-1988	15 1/2"	8 1/2"	8"	9 1/2"	5.39
CU-1989	17 1/2"	8 1/2"	8"	11"	6.13
CU-1991	7 1/2"	13"	8"	9"	5.88
CU-1992	9 1/2"	19"	12"	17"	7.84



BUD HANDY BOXES

Permits easy wiring of small components. Assembles with four self-tapping screws. Made of 22 gauge steel. Black wrinkle finish. Shpg. Wgt. 1 lb.

Number	Height	Width	Depth	Net Each
HB-1621	2 1/4"	4 1/4"	1 1/2"	\$.88
HB-1622	2"	4"	2 1/4"	.98



BUD CHASSIS DECKS

Suitable for use in carrying cases and utility cabinets. Each unit is folded over 1 1/2" on front, 1/2" on side, and made from zinc-plated steel. Useful for interstage shielding and supports.

Number	W.	D.	Fits Cab.	Shpg. Wgt.	Net Each
CB-522	4 1/2"	5 1/2"	CU-1098	1 1/2 lb.	\$.51
CB-523	4 1/2"	4 1/2"	CU-1099	2"	.49
CB-524	6 1/2"	6 1/2"	CU-879	1 1/2"	.64
CB-525	5 1/2"	5 1/2"	CU-1124, CC-1096	1 1/2"	.59
CB-526	8 1/2"	7 1/2"	CU-880	1 1/2"	.90
CB-527	9 1/2"	7 1/2"	CU-881	2"	.93
CB-528	7 1/2"	6 1/2"	CU-882	2"	.73
CB-36	6 1/2"	6 1/2"	CC-1097	1 1/2"	.65
CB-37	8 1/2"	6 1/2"	CC-1100	2"	.80

MINIATURE UTILITY CABINETS WITH ATTACHED CHASSIS

Front and rear panels removable. Black wrinkle finish.

Number	H.	W.	D.	Chassis Size	Shpg. Wgt.	Net Each
C-1793	4"	4"	2"	1x3 1/2"x1 1/2"	1 lb.	\$ 1.03
C-1794	4"	5"	3"	1x4 1/2"x2 1/2"	1 1/2"	1.13
C-1795	5"	4"	3"	1 1/2"x3 1/2"x2 1/2"	1 1/2"	1.13
C-1796	6"	5"	4"	1 1/2"x4 1/2"x3 1/2"	2"	1.40
C-1797	5"	6"	4"	1 1/2"x5 1/2"x3 1/2"	2"	1.40
C-1798	6"	6"	6"	1 1/2"x4 1/2"x5 1/2"	3"	1.45



SLOPING PANEL UTILITY CABINETS

A metal box that can be used for numerous purposes. Open bottom. Black wrinkle enamel. Shpg. Wgt. 1 1/2 lbs.

Number	Height	Width	Depth	Net Each
C-1578	4 1/2"	4"	4"	\$.98
C-1579	4 1/2"	5"	4"	1.13
C-1580	4 1/2"	6"	4"	1.29
C-1581	4 1/2"	7"	4"	1.56

BUD INTERSTAGE SHIELDS



Useful on receiver and transmitter chassis for eliminating interstage coupling. Formed angles on front and bottom punched with mounting holes.

Number	Hgt.	Depth	Shpg. Wt.	Net Each
IS-1246	5 1/2"	7"	1 lb.	\$.59
IS-1247	5 1/2"	10"	1	.65
IS-1245	6 1/2"	10"	1 1/2"	.59

BUD CHASSIS MOUNTING BRACKETS



Heavy gauge steel. Finished in black enamel only. No. MB-450 and MB-451 designed for chassis height of 4". Sold in pairs only.

Number	Height	Depth	Shpg. Wgt.	Net Pair
MB-458	6 1/2"	8"	2 lbs.	\$.83
MB-448	6 1/2"	10"	2	1.08
MB-459	6 1/2"	11"	2 1/2"	1.18
MB-449	6 1/2"	12"	2 1/2"	1.42
MB-460	6 1/2"	13"	3	1.32
MB-450	8 1/2"	10"	3	1.57
MB-451	8 1/2"	13"	3 1/2"	1.67

SLOPING PANEL UTILITY BOXES

Streamlined appearance. 1/2" flange around rear opening provides convenient back cover mounting. Black wrinkle finish.

Number	H.	W.	D.	Chassis	Shpg. Wgt.	Net Each
C-1602	4"	4"	4 1/2"	CB-1617	1 lb.	\$ 1.18
C-1603	4"	5"	4 1/2"	CB-1618	1	1.27
C-1604	4"	6"	4 1/2"	CB-1619	1 1/2"	1.37
C-1605	4"	7"	4 1/2"	CB-1620	1 1/2"	1.47



BUD STREAMLINED METER CASES

All cases have sloping front with top corner rounded. No. CM-1241 and CM-1242 have insulators on top for leads to meter; No. CM-1965 and CM-1966 are without insulators. Black wrinkle finish. Shpg. Wgt. 1 1/2 lb.

Number	Meter Size	Hole Diameter	Net Each
CM-1241	2"	2.334"	\$ 1.22
CM-1242	3"	2.835"	1.22
CM-1965	2"	2.334"	.93
CM-1966	3"	2.835"	.93

BUD MIDGET SPEAKER CASES



Housing for midget 2" and 3" speakers. Size: 4" wide, 4" deep, 4 1/2" high. Black wrinkle finish. Shpg. Wgt. 1 lb.

Number	Hole Diameter	Speaker Size	Net Each
CS-1685	2 1/2"	2"	\$ 1.47
CS-1686	2 1/2"	3"	1.47



KRYLON ACRYLIC SPRAYS

All Krylon sprays have 100% acrylic base (liquid plastic). Applications are unlimited. Weather-proof, water-proof. Rust, fungus, and chemical resistant. For interior or exterior uses. Dries in only three minutes. Non-inflammable. No brush needed; just spray on from 12 oz. pressurized dispenser which has non-clogging spray valve. Crystal Clear will protect art work, blueprints, maps, charts, machinery, copper, brass, chrome, silverware, leather, electrical appliances, wiring, etc. Workable Fixatif is ideal to prevent smudging but can be erased. Crystal Clear and Aluminum which are non-conductive protect TV antennas, masts, insulators, and other hardware. All colors are true colors. White will not discolor and is perfect for touching up the chipped enamel on appliances, etc. Shpg. Wgt. 2 lbs.

Number	Color	Net
1302	CRYSTAL CLEAR	\$ 1.43
1306	WORKABLE FIXATIF	1.43
1401	BRIGHT ALUMINUM	1.43
1501	TOUCH-UP WHITE	1.43
1601	GLOSSY BLACK	1.43
1602	FLAT BLACK	1.43
1603	MACHINE GREY	1.43
1604	LIGHT GREY	1.43
1701	BRIGHT GOLD	1.43
1801	CHROME YELLOW	1.43
1901	REGAL BLUE	1.43
2001	HUNTER GREEN	1.43
2101	CHERRY RED	1.43



G-C RADIO SERVICE CEMENT

High grade cement for radio, television, and speaker work. Especially suitable for cementing replacement cones and repairing rattling and torn cones. Vibration-proof, waterproof, and fast drying.

NO. 30-2 2 oz. bottle w/brush Net \$.38
NO. 30-16 1 pint bottle 2.15

G-C RADIO SERVICE SOLVENT

Best solvent for loosening cement on speaker cones, frames, etc., made to dissolve all types of cements. Can also be used as a thinner for G-C cement and other cements.

NO. 31-2 2 oz. bottle Net \$.32
NO. 31-16 1 pint bottle 1.06

G-C BAKELITE CEMENT

Prepared for cementing bakelite to bakelite or bakelite to other materials.

NO. 32-2 2 oz. bottle w/brush Net \$.50

G-C TELEVISION HIGH VOLTAGE CORONA DOPE

Used to prevent corona shorts on high voltage circuits in television sets. Has very excellent high voltage insulating qualities. Easy to apply, air drying.

NO. 47-2 2 oz. bottle Net \$.71



G-C SPEAKER CEMENT

Regular service cement put up in a handy tube. Makes a good, general-purpose waterproof glue. Also useful for speakers, cones, coils, etc.

NO. 34-2 2 oz. tube Net \$.35



G-C PLASTIC CEMENT

Best grade pyroxilyn cement for cementing all types of plastics. Excellent for the cementing of broken cabinets, knobs, etc. Fast drying.

NO. 32-2A 2 oz. bottle w/brush Net \$.38

G-C WOOD GLUE

Best quality wood glue for repairing cabinets. Strong and fast drying. Will not injure cabinet finish.

NO. 39-2 2 oz. bottle w/brush Net \$.38

G-C RUBBER TO METAL CEMENT

Specially prepared for cementing rubber dial drives to metal shafts, rubber mountings to chassis, or for cementing any rubber material to metal.

NO. 35-2 2 oz. bottle w/brush Net \$.38

G-C ACRYLIC CEMENT

Cements lucite, plexiglass, and any other acrylic material. Fast drying.

NO. 40-2 2 oz. bottle w/brush Net \$.38

G-C LIQUID SOLDERING FLUX

A quality flux for all types of radio and electrical soldering for copper, brass, steel, nickel, etc. Makes the solder flow faster and smoother and stick better. Non-corrosive.

NO. 42-2 2 oz. bottle Net \$.38

G-C HOUSEHOLD AND MODEL CEMENT

Fast drying cement suitable for many uses. Excellent "household" cement. Also an ideal "model makers" cement.

NO. 45-2 2 oz. bottle w/brush Net \$.29

G-C TELEVISION TUBE KOAT

Fast drying conductive coating for recoating outside of television picture tubes that have become scratched or have peeling surface. Also used to coat the inner part of television cabinets to prevent high voltage leaks and static discharge.

NO. 49-2 2 oz. bottle Net \$.56

G-C ELECTRICAL AND RESISTOR CEMENT

Heat-proof cement that hardens like porcelain. Used on resistors, flat irons, and appliances.

NO. 27-2 2 oz. bottle Net \$.38

G-C SCRATCH REMOVER LIQUID

Removes scratches instantly. Simply wipe the liquid with a cloth over the scratches and they will disappear. Handy bottle to have in tool box.

NO. 917 2 oz. bottle Net \$.32

G-C NON-STICK IRON TIP COMPOUND 'Made with Graphite'

Prevents iron tips from burning into soldering irons. Saves tips and irons.

NO. 1201 2 oz. bottle Net \$.38



G-C RADIO CHASSIS CLEANER

Cleans radio chassis, panels, test equipment, etc., without injuring the surface. Excellent for rough wrinkle finish surface.

NO. 123-8 8 oz. bottle Net \$.56
NO. 123-16 1 pint bottle .88

G-C CONTACT AND CRYSTAL CLEANER

Extra pure cleaner. Fast drying for cleaning contacts and crystals. Will not injure delicate parts.

NO. 127-2 2 oz. bottle w/brush Net \$.32

G-C LIQUIDOPE

Ideal coil dope for all-wave coil windings. Clear and fast drying. Gives coils a tough protective film.

NO. 36-2 2 oz. bottle Net \$.38

G-C Q-DOPE

Ultra low loss compound recommended for coating, doping, sealing, cementing, and impregnating coils in VHF and UHF ranges. Q-Dope is pure polystyrene dissolved in Q-Dope thinner and is moisture-repellent. Can be used to "weld" polystyrene materials together. Will not affect coil characteristics.

NO. 37-2 2 oz. bottle Net \$.38

G-C GRAFOLINE

"Lubricant for Metallic Contacts"

Insures proper and lasting repairs for all air-exposed contacts, switches, and wire-wound volume controls, wherever dust and dirt affect the quiet action of adjustable radio parts or controls. Also cleans noisy tube prongs, etc. Increases current capacity of switch contacts and contacts last longer.

NO. 120-2 2 oz. bottle Net \$.38

G-C DIAL AND SIGNAL

LITE COLORING

Long-lasting coloring for signal systems, radio dials, decorative lighting, etc. Instant drying. Bright, durable colors of red, green, blue, amber, purple, and solvent.

NO. 66-6 Kit of 6 bottles Net \$.70

G-C LUMINOUS

LITE-KOAT KIT

Long-life, non-poisonous, luminous coating that glows in the dark. Used on knobs, panels, switch plates, meter boxes, etc. Complete kit with brushes and thinner.

NO. 184-0 DELUXE KIT Net \$ 1.91

G-C COIL DOPE KIT

For high frequency coils, ultra low loss. Contains 2 oz. bottle Polystyrene Q-Dope, 2 oz. Thinner, and two brushes.

NO. 888 KIT Net \$.65

G-C RUBBING OIL

Rub down newly finished or repaired cabinets to produce rich satin sheen finish.

NO. 163-16 16 oz. bottle Net \$.56



G-C RUF-KOAT WRINKLE VARNISH

Finish that will air dry and give you a professional wrinkle job without baking. Easy to use. Available in either black or grey. Specify color.

- | | | |
|-----------|--------------|------------|
| NO. 60-2 | 2 oz. bottle | Net \$.38 |
| NO. 60-4 | 4 oz. can | .65 |
| NO. 60-8 | 8 oz. can | 1.12 |
| NO. 60-16 | 1 pint can | 1.94 |



G-C FELT-COAT FLOCK FINISH SPRAY KIT

You can do a professional job without any experience when applying flock with the G-C patented gun. It distributes flock evenly and blows each fibre into the undercoat vertically with great force. Does beautiful job on phono turntables, cabinets, grilles, instrument cases, tool boxes, toys, ornaments, signs, etc. Kit consists of blower gun, two cans of undercoat, brush, instructions, one can each of brown flock, ivory flock, thinner.

NO. 180-2 DELUXE KIT. Net \$ 7.61

G-C FELT-COAT SPECIAL FLOCK PATENTED BLOWER GUN

NO. 180-3 Blower Gun only Net \$ 2.80



G-C FELT-KOAT FLOCK

Genuine rayon flock. Gives a beautiful shiny felt or plush like surface. Available in brown, taupe, blue, black, ivory, red, green, silver, and gold. Specify color.

- | | | |
|-----------|------------------|------------|
| NO. 180-5 | 2 oz. sifter can | Net \$.79 |
| NO. 180-7 | 1 lb. bag | 3.53 |



G-C FLOCK UNDERCOAT

This material is first applied on surface to be flocked, then apply flock.

- | | | |
|-----------|-----------|------------|
| NO. 180-4 | 4 oz. can | Net \$.71 |
| NO. 180-8 | 8 oz. can | 1.06 |

FLOCK SIZING THINNER

- | | | |
|-----------|-----------|------------|
| NO. 181-4 | 4 oz. can | Net \$.29 |
| NO. 181-8 | 8 oz. can | .38 |



G-C COLOR CODING KIT

Complete kit of all standard RTMA colors: black, brown, red, orange, yellow, green, blue, purple, grey, and white. Brushes are furnished and color chart is on box. The materials are brilliant, fast drying lacquer enamels.

NO. 677 Net \$ 1.26

G-C SPRAY-KLEEN ELECTRONIC CONTROL CLEANER



Cleans and lubricates contacts, controls, relays, switches, and other sliding contact devices in one fast operation. Eliminates noise due to dust, dirt, and corrosion on contacts. Just spray onto contacts or control; no need to dismantle chassis to get at the parts. Shpg. Wgt. 1 lb.

NO. 8666 6 oz. spray type can Net \$.98



G-C CARBON-X

"For Noisy Carbon Controls"

A practical method to touch up those worn and noisy spots on carbon volume controls. Simply apply Carbon-X over the bad spots and the job is done. Carbon-X is an electrical conductor.

NO. 1205 2 oz. bottle w/brush Net \$.71

LIQUID NON-SLIP

"For Radio Drive Cables and Belts"

Penetrating and fast drying liquid dressing. Shrinks fibres, prolongs life of cables belts, and prevents slipping.

NO. 1211 1/2 oz. bottle Net \$.21

NON-SLIP COMPOUND FOR RADIO DIALS

Powder compound for treating friction type dial drives such as cards, cables, and belts.

NO. 1210 2 oz. bottle Net \$.32

G-C DIAL AND APPLIANCE OIL

A fine free-running oil for lubricating dial mechanisms, loosening and freeing controls, shafts, etc. Also use on small motors and appliances.

NO. 1247 2 oz. bottle w/brush Net \$.24



CARBON-TET

Highest quality and safe to use - will not explode. Quickly removes oils, tars, greases, and other soils from electrical parts. Will not harm the finest surfaces or finishes of metal, wood, or acetate parts. Instant drying, leaves no odor or harmful residue. Ideal for cleaning sliding contacts, condenser plates, chassis, and as a wash for carbon deposits.

- | | | |
|----------|--------------|------------|
| NO. CT-8 | 8 oz. bottle | Net \$.53 |
| NO. CT-G | 1 gallon can | 3.17 |



G-C SKRATCH STIK

Handy pocket scratch remover to be used on walnut, mahogany, or oak cabinets - all shades and colors. Simply run Scratch Stik over a scratch and it will vanish like magic.

NO. 909 Net \$.29



WALSCO "NO-OX"

"The Miracle Electronic Contact Fluid". Contains no solvents; corrosion-dissolving action is entirely chemical. For volume and tone controls, attenuators, mixers, relay contacts, and similar equipment.

- | | | |
|------------|---------------|------------|
| NO. 101 | 1 oz. bottle | Net \$.50 |
| NO. 102 | 2 oz. bottle | .94 |
| NO. 100-16 | 1 pint bottle | 7.35 |

WALSCO CONTACTENE INJECTOR

For applying contact cleaner, carbon tet, No-Ox, dial oil, etc., to spots which are not ordinarily accessible. Injector needle will permit application of chemicals to most volume controls without unsoldering connections or taking control apart. Made of high quality materials. Comes complete with small glass vial.

NO. 989 INJECTOR Net \$.44

G-C MAG-NETIK RECORDING HEAD CLEANER

Dissolves oxide scum accumulation on tape recording heads. Cleans recording head mechanisms on tape and wire recorders.

NO. 53-2 2 oz. bottle Net \$.94



G-C PHONO TURNTABLE MOTOR AND GEAR LUBRICANT

Special lubricant for phonographs and insures long life to parts that are not lubricated often. This lubricant will cling to the parts and will not thin and run as will other lubricants.

NO. 1223 2 oz. tube Net \$.38

G-C LUBE-REX

"Prevents Corrosion"

An exceptionally fine contact cleaner which prevents corrosion and gives lasting protection because it clings to the metal. Fine for attenuators, push-button switches, all-wave switches, contacts, etc. Moisture-repellent and rust preventing. Excellent for use on locks, fishing reels, guns, dial mechanisms, phono gear.

- | | | |
|----------|--------------|------------|
| NO. 1206 | 2 oz. tube | Net \$.38 |
| NO. 1209 | 2 oz. bottle | .38 |



AMPHENOL SILICONE COMPOUND

For insulating transmission lines to eliminate surface moisture by breaking into isolated drops. Also good for moisture proofing of RF and other electrical connectors, ignition systems, etc. Non-corrosive.

NO. 307-1 1 oz. tube Net \$ 1.18

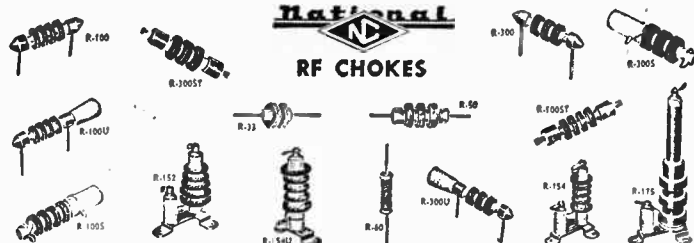
AMPHENOL POLYWELD

Pure polystyrene coil dope in solution with "916" thinner. For "doping", coating, and sealing in UH and VHF frequencies. Moisture-repellent.

- | | | |
|------------|---------------|------------|
| NO. 912-2 | 2 oz. cement | Net \$.35 |
| NO. 916-2T | 2 oz. thinner | .35 |

"Your trade-in's worth more at the WALTER ASHE STORE" (75)

CHOKES RF - POWER - HASH



RF CHOKES

R-100 SERIES. Identical electrically but differ in mounting provisions. R-100 has pigtail leads, R-100U has pigtail leads and removable stand-off insulator, R-100S has cotter pin lug terminals and non-removable stand-off insulator, R-100ST has 6-32 threaded stud at each end. All are rated at 125 MA and available in 2.5, 5 and 10 millihenry sizes.

No. R-100	Net \$.40
No. R-100U	.48
No. R-100S	.48
No. R-100ST	.46

R-154 SERIES. For the 20, 40 and 60 meter bands, inductance 1 MH, DC resistance 6 ohms, DC current 600 MA. Coils wound on steatite core. R-154 has third mounting foot and small insulator.

No. R-154	Net \$ 2.01
No. R-154U	1.61

R-50 SERIES. 50 MA chokes available in sizes of 0.5, 1 and 2.5 millihenry. Wound on 1" long form, diameter 15/32.

No. R-50, Any type	Net \$.40
No. R-50-1, 10 MH, iron core.	Net \$.61

R-50. High current RF choke (500 MA). Available in 2 and 4 microhenry sizes.

R-60, Any type	Net \$.40
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R-300 SERIES. Similar to R-100 Series but has higher current capacity (300 MA). All types available in inductance values of 0.5, 1.0, 2.5 and 5 millihenry.

R-300 Pigtail Leads	Net \$.44
R-300U Stand-Off Insulator	.48
R-300S Cotter Pin Lug Terminals	.48
R-300ST 6-32 Threaded Stud	.46

R-152. For use in range between 2 and 4 MC. Ideal for high power transmitter stages in the 80 meter band. Inductance 4 MH, DC resistance 10 ohms, DC current 600 MA. Coils honeycomb wound on steatite core.

No. R-152	Net \$ 2.01
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R-33 SERIES. 2-section chokes rated at 33 MA, available in 1, 10, 50, 100, and 750 microhenry sizes.

NO. R-33, Any Type	Net \$.40
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R-175A. High reactance throughout 6-10-15-20-40-80 meter bands. Suitable for parallel or series fed in transmitters with plate supply up to 3,000 volts modulated or 4,000 volts unmodulated. Inductance 145 uh, distributed cap. 0.6 mmf, DC resistance 5 ohms, DC current 800 MA. Voltage breakdown to base 12,500 volts.

NO. R-175A	Net \$ 2.59
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GRAYBURNE RF CHOKES



New, small, extra efficient RF chokes with Ferrite cores. Size only 1" long by 3/8" diam. Extra large increase in "Q", and reduction of resistance. Lower distributed capacity.

Type	Description	Net
F-25	2.5 MH @ 125 MA	\$.44
F-50	5.0 MH @ 125 MA	.50
F-100	10.0 MH @ 125 MA	.59
HD-25	2.5 MH @ 300 MA	.47



HIGH-RATIO RF VARI-CHOKES

Precision variable RF chokes with Ferrite cores. Induction variation as high as 10 to 1. Size: 2 1/2 x 3/8".

Type	Description	Net
V-6	0.65 - 6.0 MH	\$.70
V-25	5.5 - 35.0 MH	.82

J. W. MILLER



Unshielded Air Core Chokes

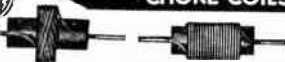
Number	MH	Res.	MA	Net
610	.25	8	125	\$.36
620	.75	17	125	.39
630	1.50	21	125	.39
640	2.50	28	125	.45
650	5.0	41	125	.45
660	7.5	53	125	.48
670	10.0	64	125	.51
680	12.5	74	125	.51
690	15.0	83	125	.54
691	20.0	97	125	.60
692	30.0	120	100	.63
693	60.0	175	100	.72
694	80.0	230	100	.87

Center Tapped Types

Number	MH	Res.	MA	Net
670-T	10.	64	125	\$.57
691-T	20.	97	100	.66
693-T	60.	175	100	.78



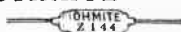
VIDEO PEAKING CHOKE COILS



TV components intended for replacement or construction. Filament choke No. 6175 isolates filaments of tubes to reduce stray coupling feedback, etc. Video peaking coils assure proper bandwidth and wave shape. Choke size 9/32 x 7/8" long. Peaking coils, 3/16 x 3/8" long.

Type Number	Inductance - uh	Shunt Resistor	Net
6175	0.8	None	\$.30
6176	36	None	.30
6177	93	None	.36
6178	120	22K	.36
6179	180	39K	.36
6180	180	None	.36
6181	250	None	.36

OHMITE CHOKES



R. P. Plate Chokes. Single-Layer wound on low loss form. All chokes are rated at 1000 MA, except Z14 & Z28 which are rated at 600 MA.

Number	Range MC	Micro-henries	Shpg. Wgt.	Net
Z460	320-520	.20	4 oz.	\$.23
Z235	160-350	.84	4	.23
Z144	80-200	1.8	4	.23
Z50	35-110	7.0	4	.23
Z28	20-60	21.0	6	.31
Z14	7-35	44.0	6	.48
Z7	3-20	84.0	1 lb.	1.10

P-300 Parasitic Suppressors. Designed to prevent parasitic oscillations. Non-inductive, 50 ohm resistor with choke in parallel.

OHMITE POWER LINE CHOKES



POWER LINE CHOKES - Recommended for use in suppressing radio (not audio) frequency interference from diathermy machines, etc.

Number	Micro-henries	DC Amp	DC Ohms	Shpg. Wgt.	Net
Z-20	14	5	.15	1 lb.	\$.151
Z-21	15	10	.07	1 1/4	2.54
Z-22	18	20	.045	2	3.66
Z-30	46	20	.085	3	5.51

MILLEN

HASH FILTERS



No. 77083	- 250 MA hash filter.	Net \$ 1.14
No. 77866	- For 866 tubes. 500 MA hash filter. Per pr.	1.41
No. 77872	- For 872 tubes. Per pr.	1.56

J. W. MILLER

Rectifier Hash Filter Chokes



Duo-lateral wound, use in series with plate leads of mercury vapor rectifiers to prevent RF hash. 1000 volt insulation. Shpg. Wgt. Avrg. 8 oz.

Number	MH	Res.	MA	Net
7867	4 1/2	4 1/2	500	\$.132
7868	2 1/2	2.3	1000	1.65

No. 7865. Two duo-lateral wound coils on ceramic form. For use with mercury vapor tubes (full wave) 250 MA per tube. Peak voltage 2500. 3.25 MH per coil. resistance 15 ohms. Shpg. Wgt. 12 oz. Net \$ 1.05

J. W. MILLER

Unshielded Iron Core Chokes



Number	MH	P.P.S.	MA	Net
951	.5	6.8	125	\$.60
952	1.0	10.9	125	.66
953	2.5	19.5	125	.69
954	5.0	23.0	125	.78
955	7.5	37.0	125	.84
956	10.0	45.9	125	.87
957	25.0	78.0	100	1.05
958	50.0	130.0	100	1.17
959	75.0	172.0	100	1.32
960	100.0	210.0	100	1.50
961	150.0	268.0	100	1.65

76 READY FOR A NEW RECEIVER? - We'll Trade In Your Old One!

COILS - I. F. TRANSFORMERS

Coil

Meissner



ECONOMY LINE ADJUSTABLE INDUCTANCE COILS

Inexpensive series for replacement or building. Wound on bakelite forms. Antenna and RF coils have high impedance primaries with Litz wire secondaries. SW coils tapped for 6SA7 tube. HiQ powdered iron core. Shpg. Wgt. 1 lb.

Number	Type	Net
14-1056	BC Antenna	\$ 1.29
14-1057	BC RF	1.29
14-1058	BC Osc.	1.29
14-1061	1.7-5.3 MC Ant.	1.32
14-1062	1.7-5.3 MC RF	1.32
14-1063	1.7-5.3 MC Osc.	1.32
14-1064	5.3-16.5 MC Ant.	1.32
14-1065	5.3-16.5 MC RF	1.32
14-1066	5.3-16.5 MC Osc.	1.32

FM-AM "COMPOSITE" IF

Contains a 456 KC AM and a 10.7 MC FM IF transformer. Each circuit tuned separately. HiQ powdered iron core. Size: 1-3/8" square, 2 1/2" long. Shpg. Wgt. 1 lb.

NO. 16-6675 Net \$ 2.94



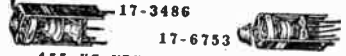
"SLIP-OVER" PRIMARY

NO. 14-6852 For 1" O. D. Coil Net \$ 2.25

AIRPLANE TRANSFORMERS



14-1030	Antenna, 195-410 KC	\$ 2.73
14-1031	Airplane RF 195-410 KC	2.73
14-1032	Oscillator 195-410 KC	2.73



17-3486
17-6753

455 KC NBFM DISCRIMINATOR

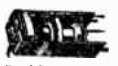
For use in adaptors for converting regular ham sets with 455 KC I.F. to NBFM. Shpg. Wgt. 1 lb.

NO. 17-3486 Discriminator NBFM Net \$ 2.23

BFO COIL

Supplies "beat" note necessary for CW reception. Frequency range 290-650 KC. Peaked at 456 KC. Knob control. Size: 1-3/8x3-1/2" high. Shpg. Wgt. 1 lb.

NO. 17-6753 Net \$ 1.76



IRON CORE I.F. TRANSFORMERS

Double-tuned with ceramic base. Mica-trimmers, size 1-3/8x3"H. Shpg. Wgt. 1 lb.

Number	Description	Net
16-5728	175 KC Input	\$ 1.94
16-5730	175 KC Output	1.94
16-5740	456 KC Input	1.76
16-5742	456 KC Output	1.76
16-8091	1500 KC Input. Interstage	1.76
16-8099	1500 KC Output	1.76

JAMES MILLEN



I.F. TRANSFORMERS

Air-trimmed.

62161 1600 KC Interstage 5.04

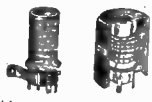
PERMEABILITY TUNED

64454	456 KC Diode	\$ 3.45
64456	456 KC Interstage	3.45
65456	456 KC BFO	3.45

DELUXE PERMEABILITY TUNED

64161	1600 KC Interstage	\$ 3.45
65163	1600 KC BFO	3.45

ANTENNA COILS



Number	Description	Net
14-1010	Standard Unshielded	.73
14-1022	Midget, Unshielded	.65
14-1004	Standard Shielded	1.03
14-1026	Univ. Adj. Unshld.	1.29
14-1030	Airplane, 195-410 KC	2.73
14-1041	Adj. SW 1.7-5.3 MC Unshld.	1.47
14-1044	Adj. SW 5.3-16.5 MC	1.47
14-2436	Midget, 1/3" sq. 2" high, Shielded.	1.47
14-7413	Univ. Adj. Shielded.	.88
		1.76



RADIO FREQUENCY COILS

14-1005	Standard Shielded	1.03
14-1011	Standard Unshielded	.73
14-1023	Midget Unshielded	.73
14-1027	Univ. Adj. Unshld.	1.29
14-1042	Adj. SW 1.7-5.3 MC Unshld.	1.47
14-1045	Adj. SW 5.3-16.5 MC Unshld.	1.47
14-2437	Midget R.F. 1/3" sq. 2" high, Shielded	.88
14-7558	Univ. Adj. Shielded	1.76



OSCILLATOR COILS

14-1028	Univ. Adj. Unshld.	1.29
14-1032	Airplane 195-410 KC	2.73
14-1033	456 for 6SA7	2.73
14-1040	Univ. Tap Pri. Unshld.	.65
14-1043	Adj. SW 1.7-5.3 MC Unshld.	1.47
14-1046	Adj. Oscillator 5.3-16.5 MC Unshld.	1.47
14-3732	175 KC, Unshld.	1.47
14-4034	456 KC, Unshld.	.73
14-4242	175 KC Shld.	.73
14-4243	456 KC Shld.	.88
14-6590	456 KC Shld.	.88
14-6592	470 KC Shld.	.73
14-7560	Univ. Adj. Shld.	.73
		1.76

3/4 INCH SQUARE IF

For replacement or in construction of small "personal" sets. High gain, ideal for battery sets. Compression type trimmers. Size 3/4" square by 2" long. Frequency 456 KC. Shpg. Wgt. 1 lb.

Number	Type	Net
16-6668	"Battery" Input	\$ 1.41
16-6669	"Battery" Output	1.41
16-6678	AC-DC Input or Output	1.41



IRON CORE PLASTIC I.F. TRANSFORMERS

Number	Description	Net
16-6662	456 KC Input	\$ 1.47
16-6663	456 KC Output	1.47

PLASTIC I.F. TRANSFORMERS

Wound on molded plastic coil form with Trimmers. Size, 1 1/2x2 1/2" high. Shpg. Wt. 1 lb

Number	Description	Net
16-6649	175 KC Input	\$ 1.18
16-6650	175 KC Interstage	1.18
16-6651	175 KC Output	1.18
16-6658	456 KC Input	1.03
16-6659	456 KC Interstage	1.03
16-6680	456 KC Output	1.03

MIDGET PLASTIC I.F. TRANSFORMERS

Similar to above but only 1-1/8"Dx3"H. Shpg. Wgt. 1 lb.

NO. 16-6666	456 KC Input	Net \$ 1.29
NO. 16-6667	456 KC Output	1.29

NATIONAL



MB-40SL



MB-150

MULTI-BAND TANK

Newest model multi-band tank assembly with swinging link for use in low-power applications. (grid circuits 20 watts' input, plate circuits 40 watts input). Output can be taken from the variable shielded link when coupling to antenna or next stage. Tank tunes through 80, 40, 20, 15, 11, or 10 meters without switching or coil changing. May be also used as a multi-band antenna tuner. Best results will be obtained with tubes using not more than 400 volts plate and drawing not more than 100 MA.

MODEL MB-40 SL Net \$ 17.75

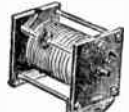
150 WATT TANK

Model MB-150 tunes all amateur bands from 80 through 10 meters with 180° rotation of the shaft, coils are never changed. Unit is built around a circuit which tunes to two harmonically unrelated frequencies at the same time. Will cover wide frequency range and yet maintain a reasonably constant L/C ratio. Size, 3" Wx8" Hx9" long overall. Model MB-150 is for use as the all-band plate tank in PP or single ended stages running up to 150 watts input (1500 volts peak). Ideal for pair of 807's or 809's or single 822B. Separate link coupling coil has special clips which adjust to match impedances up to 600 ohms directly. Output couples into a higher powered amplifier, antenna or antenna tuning network. Fast band changing is accomplished without handling coils, thus removing one of the danger points in the amateur station.

MODEL MB-150 Net \$ 21.56

JOHNSON

ROTARY INDUCTOR



Same efficient inductor as used in final tank of VIKING I and II. May be used in any low and medium power rig with band-switching exciter to provide continuous tuning without changing coils. Variable wound for Hi-Q throughout range with No. 14 tinned copper wire on Steatite form. Maximum inductance 10 microhenries. Mica-calex end plates. Smooth rotation provided by front and rear bearings. Positive rolling contact. Size: 2 1/2" Wx4 1/2" H. Shpg. Wgt. 5 lbs.

TYPE 229-201 Net \$ 8.67

AIR CORE I.F. TRANSFORMERS

Standard for replacement purposes. Double-tuned with ceramic mica-trimmers. Size 1 3/8"x3" high. Shpg. Wgt. 1 lb.

Number	Description	Net
16-5700	175 KC Input	\$ 1.47
16-5702	175 KC Output	1.47
16-3731	175 KC Output C.T.	1.47
16-5704	262 KC Input	1.47
16-5706	262 KC Output	1.47
16-5712	456 KC Input	1.47
16-6133	456 KC Interstage	1.47
16-5714	456 KC Output	1.47
16-3736	456 KC Output C.T.	1.47

"Your trade-in's worth more at the WALTER ASHE STORE"

Coil BARKER & WILLIAMSON INDUCTORS

SMALL INDUCTORS



MININDUCTORS

For use in limited space, can be cut to size. Useful for tank circuit coils, RF chokes, high frequency IF transformers, loading coils, etc. Aver. Shpg. Wt. 8 oz.

NO.	DIA.	TPI ¹ L.	NET NO.	DIA.	TPI ¹ L.	NET
3001	1/2"	4	2"	36	3009	3/4" 4 3" .54
3004	1/2"	32	2"	36	3010	3/4" 8 3" .54
3002	1/2"	8	2"	36	3011	3/4" 16 3" .54
3003	1/2"	16	2"	36	3012	3/4" 32 3" .54
3005	5/8"	4	2"	43	3013	1" 4 3" .60
3006	5/8"	8	2"	43	3014	1" 8 3" .60
3007	5/8"	16	2"	43	3015	1" 16 3" .60
3008	5/8"	32	2"	43	3016	1" 32 3" .60

¹TPI - Turns per inch.

No. 3906-1. 10" long, 2 1/2" diameter. No. 14 wire. Net \$ 1.50

"TAILOR-MADE" MININDUCTORS

The following two coils are the types specified in George Grammer's article titled "Tailor-Made" Antenna Couplers in May 1950 QST.

No. 3905-1, 10" length of coil material wound with No. 12 tinned wire, spaced 6 turns per inch. 2-5/8" D. Net \$ 1.50

No. 3900, 10" length of coil material wound with No. 14 tinned wire, spaced 8 turns per inch. 2" Diam. Net \$ 1.50



JUNIOR INDUCTORS

For Powers Up to 75 Watts Input

For powers up to 75 watts input. Fitted with standard 5-prong steatite base. May be used in oscillator, buffer, or final amplifier stage with plate voltages up to 850.

END LINKED MODELS

Number	Band	Type	Net
3100	6	6JEL	\$ 1.65
3101	10	10JEL	1.65
3102	15	15JEL	1.65
3103	20	20JEL	1.65
3104	40	40JEL	1.65
3105	80	80JEL	1.65
3106	160	160JEL	1.65

CENTER LINKED MODELS

Number	Band	Type	Net
3107	6	6JCL	\$ 1.65
3108	10	10JCL	1.65
3109	15	15JCL	1.65
3110	20	20JCL	1.65
3111	40	40JCL	1.65
3112	80	80JCL	1.65
3113	160	160JCL	1.65

VARIABLE CENTER LINK MODELS

Number	Band	Type	Net
3114	6	6JVL	\$ 1.65
3115	10	10JVL	1.65
3116	15	15JVL	1.65
3117	20	20JVL	1.65
3118	40	40JVL	1.65
3119	80	80JVL	1.65
3120	160	160JVL	1.65

B&W "BABY"

AIR INDUCTORS

25 WATTS RATING

Ideal for crowded layouts, portables and field transmitters. Standard 5-prong base. Conservatively rated at 25 watts. Size only 1 1/2" x 1 1/2". Any type, Net \$ 1.26

Straight Coil		Center Tapped	End Linked	Center Linked
10M-2900	10MC-2907	10MEL-2914	10MCL-2921	
15M-2901	15MC-2908	15MEL-2915	15MCL-2922	
20M-2902	20MC-2909	20MEL-2916	20MCL-2923	
40M-2903	40MC-2910	40MEL-2917	40MCL-2924	
80M-2904	80MC-2911	80MEL-2918	80MCL-2925	



B&W TYPE B INDUCTORS

FOR POWERS UP TO 150 WATTS INPUT

All coils equipped with banana type plug. Type "B" is for use in oscillator and buffer-doubler stages developing up to 100 watts power. Type "T" especially suited for high powered neutralized buffer and final tank stages where powers of 500 watts are developed. Type "HD" is for maximum power, handles a KW with ease. Aver. Shpg. Wgt. 2 lbs.

VARIABLE LINK - CENTER TAPPED

3221	5BVL	5 2.31	3225	40BVL	40 3.73
3222	10BVL	10 2.31	3226	80BVL	80 3.12
3223	15BVL	15 2.40	3227	160BVL	160 3.43
3224	20BVL	20 2.40			

No. 3228. Steatite Jack Bar Assembly for end or center link type B. Net \$.85
No. 3266. Jack Bar and Swinging Link for BVL. Net \$ 3.44

FOR POWERS UP TO 500 WATTS INPUT

VARIABLE LINK - CENTER TAPPED

3315	10TVL	10 2.64	3318	40TVL	40 3.12
3316	15TVL	15 2.73	3319	80TVL	80 3.57
3317	20TVL	20 2.73	3320	160TVL	160 3.72

No. 3321. Steatite Jack Bar Assembly for end or center link type T. Net \$ 1.25

No. 3366. Base Assembly and Swinging Link for TVL. Net \$ 3.50

Special group of units with 6-contact plug bars powers up to 500 watts input.

VARIABLE LINK - CENTER TAPPED

3501	10TVH	10 4.71	3504	40TVH	40 4.71
3502	15TVH	15 4.71	3505	80TVH	80 4.71
3503	20TVH	20 4.71	3506	160TVH	160 4.71

No. 3566. Jack Bar Assembly and Swinging link for type TVH. Net \$ 5.16

FOR POWERS

UP TO 1000

WATTS INPUT



VARIABLE LINK - CENTER TAPPED

3715	10HDVL	10 5.37	3718	40HDVL	40 6.60
3716	15HDVL	15 6.21	3719	80HDVL	80 7.41
3717	20HDVL	20 6.21	3720	160HDVL	160 8.67

No. 3721. Jack Bar Assembly for HD and HDCL. Net \$ 1.75

No. 3766. Base Assembly and Swinging Link for HDVL. Net \$ 6.88

No. 3913. Pair brackets "HD" coil to "CX" condenser. Net \$.75

BALUN

COILS



Use of two of these coils enables any transmitter (up to 150 watts input) to match 75 ohm unbalanced transmitter output to 75 or 300 ohm balanced antenna feed lines. Equally efficient 80 thru 10 meters. May be used with Collins 32V Series and Johnson Vikings. Need not be mounted in metal box. TWO COILS REQUIRED FOR SYSTEM. Full instructions included. Requires 8x10 mounting plate (not included). Less hardware and insulators.

No. 3975 (2 required) Net each coil \$3.75
No. PS-239 Undrilled 8x10 plate..... \$8

1-KW BALUN COILS. Turn to page 5.



FARADAY

SHIELDED LINKS

Effectively reduce harmonic or spurious signal radiations normally transferred by capacity coupling. Help to reduce TV and BC interference. Nos. 3781, 3782, 3783 are for HDVL Series; nos. 3581, 3582, 3583 are for TVL, TVH and BVL Series.

Number	Turns	Net
3581	1	\$ 3.10
3582	2	3.10
3583	3	3.10
3588	Link Arm Assembly	2.40
3589	Link Arm Assembly & Hinge	2.70
3781	1	3.40
3782	2	3.40
3783	3	3.40
3788	Link Arm Assembly	2.70
3789	Link Arm Assembly & Hinge	3.00



B&W PLUG-IN LINKS

for impedance matching

Handy plug-in links that save money and time. Make your rig adaptable to practically any impedance.

PLUG-IN LINKS FOR TVH, TVL AND BVL COILS

3550	Arm only	\$.70
3565	Arm & hinge	1.00
3551	1 turn link	.60
3553	3 turn link	.60
3556	6 turn link	.60
3560	10 turn link	.95

PLUG-IN LINKS FOR HDV COILS

3750	Arm only	\$ 1.40
3765	Arm & hinge	1.80
3751	1 turn link	\$ 1.25
3753	3 turn link	1.25
3756	6 turn link	1.25
3760	10 turn link	1.75

TURRET ASSEMBLIES



Makes possible fast, positive band switching. All units cover 80, 40, 20, 15, & 10 meter bands. Effective capacity of approximately 50 pfd. required to tune.

No. 3121. 75-WATT 2A "BAND HOPPERS". May be used for interstage coupling between two beam power tubes or between beam power tubes and triodes. Net \$ 5.76

No. 3810. 75-WATT TURRETS. For link coupled single ended or PP low power stages. May be used with voltages up to 850. Type JTCL. Center tapped, center link. Net \$ 11.25

No. 3811. Type J1EL. End link, untapped. Net \$ 11.25

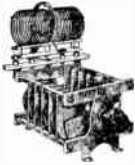
No. 3812. 150-WATT TURRETS supplied in both center and end link models for both single and double ended circuits. May be used with voltages up to 1000. Type BCL. Center link, center tapped. Net \$ 14.01

No. 3813. Type BEL. End link, untapped. Net \$ 14.01

No. 3818. Turret Dial Plate. Net \$.30

TRANSMITTING COILS - CONDENSERS COIL

BARKER & WILLIAMSON



TRANSMITTING
CONDENSERS



TYPE CX

Superior design! Only half the length of conventional units. Designed for built-in neutralization. Integral mounting of B&W coils reduces lead length. Shpg. Wgt. 7 lbs.

TYPE "A" - .500" AIRGAP

Type	Capacity Per Section		Capacity Sections In Series		Net
	Max.	Min.	Max.	Min.	
CX40A	40	18	23	12	\$ 23.76
CX49A	49	21	28	14	27.36
CX59A	59	24	33	16	29.13

TYPE "B" - .375" AIRGAP

CX45B	45	17	28	12	\$ 23.22
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TYPE "C" - .250" AIRGAP

CX45C	45	13	26	9	\$ 20.07
CX62C	62	16	34	11	22.56
CX95C	95	22	50	14	27.73

TYPE JCX



small butterfly type capacitors similar to those listed above. Have only 25% of the frontal area of CX types. Ideal for medium powered triode or tetrode stage plate circuit applications where modulated plate voltage does not exceed 1250 volts & unmodulated plate voltage does not exceed 1500.

Number	Sections in Series, Cap.		Cap. per Sect.		Net
	Max.	Min.	Max.	Min.	
JCX-100E	50	15	99	23	\$ 10.80
JCX-50E	25	10	42	13	8.10
JCX-25E	16	8	25	10	6.60

NEUTRALIZING PLATES

N1 - Will neutralize the HY114, HK24, RK31, HK54, TW75 and similar tubes.
 N2 - Will neutralize the 75T, 35T, 808, RK35, 852 and similar tubes.
 N3 - Will neutralize the 801, T-TZ20, T-TZ40, RK18, HK154, 811, 812, T55, 100TH, 806, 810 and similar tubes.
 N4 - Will neutralize the 833, T200, 805, GL152, 838, 203A, RK52 and similar tubes.
 Shpg. Wgt. 3/4 lbs. Net Per Pair \$ 5.58



B & W PLUG AND JACK BARS

Number	Type	Mtg. Dimen.	Used on B&W Inductors	Net Each
3914	Plug		B Series	\$.20
3915	Jack	4/8"	B Series	.60
3916	Plug		T Series	.45
3917	Jack	6 1/2"	T Series	1.00
3918	Plug		TVH Series	.60
3919	Jack	7 1/4"	TVH Series	1.10
3920	Plug		HD Series	1.10
3921	Jack	9/8"	HD Series	1.25

VACUUM CONDENSER MOUNTING BRACKETS for ICE, Jennings or Elmac vacuum capacitors for use with B&W type CX condensers.
 No. 3930-1 Single Vacuum Cond. Mount. \$ 1.85
 No. 3930-2 Twin Vacuum Cond. Mount. 2.25



TRANSMITTER COILS

75 WATT TRANSMITTER COILS.

75 Watt Coils with polystyrene base, 5 prongs. OEL coils have fixed end link, no tap. OCL coils have fixed center link, center tapped. OLS have adjustable center link, center tapped. OES have adjustable end link, no tap. OEP, same as OES, but use with 6L6, 807, etc. OCP, same as OLS, but for use with 6L6, 807, etc. Average Shpg. Wgt. 1 lb.

Fixed End Link	Fixed Center Link	Adjust. Center Link	Adjust. Egd Link	Band	Net
---	---	OLS-160	---	160	2.22
OEL-80	OCL-80	OLS-80	OES-80	80	1.91
OEL-40	OCL-40	OLS-40	OES-40	40	1.88
OEL-20	OCL-20	OLS-20	OES-20	20	1.79
OEL-15	OCL-15	OLS-15	OES-15	15	1.76
OEL-10	OCL-10	OLS-10	OES-10	10	1.71
OEL-6	OCL-6	---	---	6	1.38
---	---	OCP-10	OEP-10	10	1.71
---	---	OCP-20	OEP-20	20	1.79



100 WATT BAND SWITCH ASSEMBLY

For 10, 15, 20, 40 & 80 meter bands. XCS-1 designed for push-pull plate or grid circuits. plate neutralization coils are center-tapped & center linked 200 mfd. condensers required to tune all bands. XES-2 for use in single ended plate or grid circuits; coils are end linked, requires 100 mfd. to tune all bands. Shpg Wgt: 3 lbs.

No. XCS-1	Net \$ 14.11
No. XES-2	12.82

50 WATT BAND SWITCH ASSEMBLY

For 10, 15, 20, 40 & 80 meter bands. Used in low power oscillators, buffer or amplifier stages. Power not to exceed 50 watt input. 5-position dial plate furnished. Shpg. Wgt. 2 1/2 lbs.

No. ONS-1	Net \$ 8.09
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ICA COIL FORMS

Low-loss coil ribbed forms for transmitting and receiving coils.

Number	Prongs	Diameter	Height	Net
2158	4	1-3/8"	2-1/4"	\$.34
2159	5	1-3/8"	2-1/4"	.39
2160	6	1-3/8"	2-1/4"	.39
1051	4	1-5/8"	3-5/8"	.44
1052	5	1-5/8"	3-5/8"	.44
1053	6	1-5/8"	3-5/8"	.49
2670	4	2-1/4"	4-1/8"	.54
2671	5	2-1/4"	4-1/8"	.54

Amphenol 912-A Polystyrene Coil Forms



Number	Fig.	Size	Prongs	Net
24-4P	A	1 1/2 x 2 1/4	4	\$.24
24-5P	A	1 1/2 x 2 1/4	5	.24
24-6P	A	1 1/2 x 2 1/4	6	.24
24-6H	B	3/4	6	.24
24	C	3/4	None	.09

JAMES MILLEN MIDGET COIL FORMS



45004

43001

"QUARTZ Q"

Midget coil forms made of low loss mica-filled bakelite. Average shpg. wt. 8 oz.

No. 45000	1" dia.	Net \$.39
No. 45004	1 4-prong	.51
No. 45005	1 5-prong	.51

"Quartz Q" blank forms, 5-prong plugs.

No. 43001	1-5/16" dia.	2" long	Net \$1.05
No. 44001	1-7/8	3 3/4	1.35

"Quartz Q" blank forms.

No. 47001	1/2" dia.	1-1/8" long	Net \$ 1.12
No. 47002	1/2	2-5/8	.24
No. 47003	3/4	2	.42
No. 47004	3/4	4	.51

PERMEABILITY TUNED CERAMIC FORMS

Octal base of low loss mica filled bakelite, polystyrene 1/2" dia. coil form, aluminum shielded iron tuning slug for use up to 35 MC.



No. 74001	With iron core	Net \$ 2.10
No. 74002	Less iron core	1.68

CERAMIC PERMEABILITY TUNED UNSHIELDED FORMS

No.	Material	Dia.	Lgth.	Net
69041	Copper Slug	13/32	7/32	\$.84
69042	Iron Core	13/32	7/32	.84
69043	Iron Core	1/4	3/8	.84
69044	Copper Slug	3/16	3/16	.84
69045	Copper Slug	1/2	1-1/16	1.05
69046	Iron Core	1/2	1-1/16	1.05
69047	Copper Slug	1/4	3/8	1.05
69048	Iron Core	1/4	3/8	1.05



PLUGS AND SOCKETS

No. 40205	Midget 5-prong plug.	Net \$.51
40305	Intermediate size Steatite plug, 5-prong.	.69
41205	Midget socket for 40205 plug.	.69
41305	Socket for 40305 plug.	.84

COILS AND COIL FORMS



Wound coils and blank forms as used and specified in many receivers and converters shown in GST and ARRL Handbook. All are slug-tuned, ceramic or phenolic insulation.

FORMS ONLY

NO.	TYPE	DIAM.	HGT.	NET
LS3	Paper Phen.	3/8"	1 1/2"	\$.50
LS4	Paper Phen.	3/8"	2"	.66
LS5	Ceramic	3/8"	1 3/4"	.66
LS6	Ceramic	3/8"	1 3/4"	.63
LSM	Paper Phen.	3/8"	1 3/4"	.50
LST	Ceramic	3/8"	1 3/4"	.68

WOUND COILS

NO.	FREQUENCY	COLOR	NET
LS3-1	1.0 MC	Brown	\$.93
LS3-5	5.0 MC	Green	.87
LS3-10	10.0 MC	White	.84
LS3-30	30.0 MC	Orange	.83
LS3-60	60.0 MC	Blue	.83
LSM-1	1.0 MC	Brown	.93
LSM-5	5.0 MC	Green	.87
LSM-10	10.0 MC	White	.84
LSM-30	30.0 MC	Orange	.83
LSM-60	60.0 MC	Blue	.83

"Your trade-in's worth more at the WALTER ASHE STORE" 79



DELUXE BANK WOUND

Shielded



Tune with .000365 condenser.

Number	Use	Range	Net
242-A	Antenna	540-1750	\$ 1.05
242-BP	Band Pass	540-1750	.90
242-RF	RF	540-1750	1.03

Unshielded

Number	Use	Range	Net
241-A	Antenna	540-1750	\$.75
241-RF	RF	540-1750	.75

HIGH GAIN T.R.F.

Similar to above coils, higher gain. Use with .000365 condenser. Dimensions, 1 3/8" diameter, height 2".

Number	Use	Range	Net
42-A	Antenna	540-1600	\$.75
42-RF	RF	540-1600	.75



ECONOMY T.R.F.



For experimental and low-cost sets. High efficiency. Use with .000365 condenser. Unshielded. Dimensions, 1" diameter, 2 3/8" high.

Number	Use	Range	Net
20-A	Antenna	540-1750	\$.51
20-RF	RF	540-1750	.51

SELECT JR. BAND

8.5-23 MC COILS

Tune with .000365 condensers.

Number	Use	Net
D-727-A	Antenna	\$ 1.02
D-727-RF	RF	1.02
D-727-C	Oscillator 455 KC	1.02

12.5-36 MC COILS

Number	Use	Net
E-727-A	Antenna	\$ 1.02
E-727-RF	RF	1.02
E-727-C	Oscillator 455 KC	1.02



UNTUNED



ANTENNA AND R.F.

broadly resonant throughout standard broadcast band, 540-1700 KC. Diameter 1 5/8", 2 1/2" high.

NO. 472-A	Antenna	Net \$ 1.26
NO. 472-UT	RF	1.56



Midget Variable Condensers

Split outer plates on rotors permit accurate alignment. HF trimmers on short side of unit. Shaft-3/8" by 1" long. Capacity range per section 10 to 365 mfd.

No.	Sections	Net
2111	1	\$ 1.50
2112	2	2.10
2113	3	3.00

J. W. Miller

SUB-MINIATURE I.F. TRANSFORMERS. Offer high gain and bandwidth characteristics formerly found in larger assemblies. Size 1 1/2" square, 1 1/2" high.

No.	Description	Net
10-C1	455 KC Input	\$ 1.50
10-C2	455 KC Output	1.50



Midget Oscillator



For use with .000365 condenser. 540-1600 KC. Unshielded. Diameter 1" x 1".

Number	I.F.	Pad.	Net
5480-K	175 KC	.001	\$.69
5480-C	455 KC	.0004	.69

TAPPED MIDGET

Number	I.F.	Pad.	Net
5481-K	175 KC	.001	\$.69
5481-H	262 KC	.006	.69
5481-C	455 KC	.0004	.69

REPLACEMENT OSCILLATOR

Tuned with .000365 condenser. 540-1700 KC. 455 KC I.F. .0004 padder. Unshielded. NO. 480-C Net \$ 1.51

CARTWHEEL I.F. TRANSFORMER

NO. 1212C. Compact double tuned unshielded IF for use where space is limited. Use in all stages. Freq. range 425-500 KC. Net \$ 1.17



SHIELDED MIDGET R.F. COILS

Extremely compact, permeability tuned, shielded coils. For aircraft, marine and broadcast receivers. Frequency ranges apply when used with a .000365 mfd. tuning condenser. Size, 1-1/8" square, 2" high. Spade lug mounting.

Number	Use	Frequency	Net
X-320-A	Ant.	140-425 KC	\$ 1.65
X-320-RF	RF	140-425 KC	1.65
A-320-A	Ant.	540-1700 KC	1.17
A-320-RF	RF	540-1700 KC	1.17
X-320-C*	Osc.	455 KC	1.32
A-320-C**	Osc.	455 KC	1.17

*For use with "X" coils, .00012 series padder.

**For use with "A" coils, .0004 series padder.

NEGATIVE MUTUAL COUPLING

Use in Hi-Fidelity tuners. Shielded. Dimensions, 1 7/8" diameter. Height 2".

NO. EL-36 Net \$ 7.75

10 K. C. FILTER

NO. EL-58. Used to eliminate 10 KC whistle. Range 7500-12,000 cy. Net \$ 3.96

CONVERTER OUTPUT TRANSFORMERS

For use with UHF and VHF converters to enable use of lower frequency receivers.

Number	Frequency Range	Net
512-QT	500-550	\$ 1.44
512-WT	1400-1600	1.44
512-XT	2900-3100	1.44
512-YT	4500-5500	1.44

PHONO SCRATCH FILTER

NO. EL-59. Will reduce needle scratch in high impedance pickup. Freq. range 2000-3000 cy. Net \$ 4.95



FM I.F. Transformers

Permeability tuned 10.7 MC IF transformer. Ceramic condensers incorporated.

Number	Description	Net
1451	10.7 MC Interstage	\$ 1.44
1452	10.7 MC Discriminator	1.98

FM VARIABLE CONDENSER

NO. 1461. Rigidly constructed 3-gang tuning condensers especially designed to work with FM coils. Minimize microphonics. Freq. range 88-108 MC. Capacity 6-26 mfd. per section. 3/8" shaft. 5.70 Wgt. 1 1/4 lbs. Net \$ 2.70

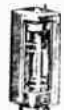
SIGNAL FREQUENCY COILS

Unique construction permits close inductance control and excellent stability. Tuned with Miller FM variable condenser. Solder lug terminals on bottom.

NUMBER	DESCRIPTION	NET
1454	88-108 MC Antenna Coil	\$ 1.32
1455	88-108 MC RF Coil	1.32
1456	88-108 MC Oscillator (10.7 MC IF)	1.32



Iron Core Transformers



Core of high quality powdered iron. Mica Compression trimmer. Dimensions, 1 3/8" square, 3 1/4" high.

Number	Freq.	KC Range	Use	Net
612-C1	455	450-475	Input	\$ 1.74
612-C2	455	450-475	Interstage	1.74
612-C3	455	450-475	Full Wave	1.74
612-C4	455	450-475	Half Wave	1.74
612-W1	1500	1400-1600	Input	1.74
612-W2	1500	1400-1600	Interstage	1.74
612-W3	1500	1400-1600	Full Wave	1.74
612-W4	1500	1400-1600	Half Wave	1.74
612-W5	1500	1400-1600	BFO	1.68

AIR CORE TRANSFORMERS

Shielded. Dimensions, 1 3/8" square. 2 5/8" high. Mica Compression trimmer.

Number	Freq.	KC Range	Use	Net
512-C1	455	450-475	Input	\$ 1.44
512-C2	455	450-475	Interstage	1.44
512-C3	455	450-475	Full Wave	1.44
512-C4	455	450-475	Half Wave	1.44
512-C5	455	450-475	BFO	1.56
512-W1	1500	1400-1600	Input	1.44
512-W2	1500	1400-1600	Interstage	1.44
512-W3	1500	1400-1600	Full Wave	1.44
512-W4	1500	1400-1600	Half Wave	1.44
512-W5	1500	1400-1600	BFO	1.56



Miniature I.F. Transformers

For use in "Personal" receivers, T.V. and others where space is limited. Size: 2-1/8" Hx3/4" square. Permeability tuned, silver mica condensers. Snap ring mounting clip.

No.	Description	Net
12-H1	262 KC Input	\$ 1.50
12-H2	262 KC Output	1.50
12-H6	455 KC Input (Dual Diode)	1.59
12-C1	455 KC Input	1.32
12-C2	455 KC Output	1.32
12-C6	455 KC Output (Dual Diode)	1.41
6203	4.5 MC Input or Interstage	1.65
6204	4.5 MC Discriminator	1.98
6205	4.5 MC Ratio Detector	1.98
1463	10.7 MC Input or Interstage	1.65
1464	10.7 MC Discriminator	1.98
1465	10.7 MC Ratio Detector	1.98

TRANSMITTING CONDENSERS

CON

TINY MITE TUNING CONDENSERS



TINY MITE SINGLE SECTION

Shpg. Wgt. 1 lb.

Number	Max. Cap. Mmfd.	Min. Cap. Mmfd.	Air Gap	No. Pl.	Net Each
LC-1640	8	2.5	.017"	3	\$ 1.38
LC-1641	15	3	.017	5	1.44
LC-1642	25	4	.017	9	1.73
LC-1643	35	5	.017	13	1.73
LC-1644	50	6	.017	19	1.82
LC-1645	75	7	.017	29	2.03
LC-1646	100	9	.017	37	2.15
LC-1648	10	4	.037	7	1.59
LC-1649	15	5	.037	11	1.88
LC-1650	25	5.5	.037	17	1.88
LC-1651	35	6	.037	21	2.06
LC-1652*	50	8	.037	35	2.54
LC-1653	6	3.5	.073	5	1.65
LC-1654	15	5.5	.073	15	2.06
LC-1655*	25	9	.073	27	2.94

* Denotes double bearing.



JUNIOR DUAL SECTION CONDENSERS



Number	Max. Cap.	Min. Cap.	No. Pl.	Air Gap	Net Each
JC-1550A	20	3	3	.051"	\$ 6.91
JC-1551A	50	5	7	.051	7.41
JC-1552A	70	6	9	.051	7.64
JC-1553A	100	7	13	.051	8.09
JC-1554A	145	9	19	.051	8.82
JC-1569A	200	10	25	.051	9.55
JC-1566A	25	4	5	.078	5.88
JC-1572A	55	8	11	.078	6.61
JC-1573A	80	9	15	.078	7.82
JC-1561A	110	10	21	.078	9.61
JC-1562A	150	11	29	.078	11.17
JC-1574A	20	5	7	.144	8.82
JC-1575A	40	8	13	.144	9.41
JC-1576A	55	10	17	.144	9.82
JC-1568A	18	6	7	.175	8.09
JC-1567A	40	11	15	.175	8.82



MILLEN



MILLEN RECEIVING CONDENSERS

Steatite insulator condensers as used in Millem Exciter. No. 22100 is single-spaced. No. 22950 is double-spaced.

Number	Section	Capacity	Net
22100	1	100	\$ 3.19
22950	1	50	2.31

MILLEN NEUTRALIZING CONDENSERS

Telescoping cylinder-type with air dielectric at high ambient temperatures. Peak voltage on No. 15005 is 4000, peak voltage on No. 15006 is 6000.

Number	Range	Net
15006	2.8 - 9.1	3.54



MASTER TRANSMITTING CONDENSERS



SINGLE SECTION

Number	Max. Cap.	Min. Cap.	No. Pl.	Air Gap	Net Each
BC-1607	25	10	5	.200"	\$ 6.41
BC-1609	50	13	11	.200	7.11
BC-1610	75	16	15	.200	7.82
BC-1611	100	20	21	.200	8.91
BC-1612	145	35	29	.200	9.97
BC-1613	35	14	9	.300	7.29
BC-1614	55	18	15	.300	8.53
BC-1615	75	21	21	.300	9.97
BC-1616	100	28	28	.300	10.67

DUAL SECTION



Number	Max. Cap.	Min. Cap.	No. Pl.	Air Gap	Net Each
BC-1635A	25	9	5	.200"	\$ 13.63
BC-1636A	35	12	7	.200	14.40
BC-1637A	50	13	11	.200	15.64
BC-1638A	75	16	15	.200	16.93
BC-1633A	100	20	21	.300	18.96
BC-1634A	50	15	13	.300	17.08

JOHNSON MINIATURE AIR VARIABLE CONDENSERS



Smallest air variables ever built. Used in all types of HF equipment. Available in single, differential, and butterfly types. Single hole mounting. Shaft is slotted for screw driver adjustment or 3/16" knob. Panel mounting space is 3/4" by 5/8". Mounting hole 1/4".

Type	Capacity Max. Min.	Number Plates	Net
SINGLE			
160-102 5M11	5.1 1.5	5	\$.93
160-104 9M11	8.7 1.7	9	.98
160-107 15M11	14.6 2.1	15	1.13
160-110 20M11	19.7 2.6	21	1.27

Type	Capacity Max. Min.	Number Plates	Net
BUTTERFLY			
160-203 3MB11	3.3 1.7	7	1.32
160-205 5MB11	5.3 2.1	13	1.47
160-208 9MB11	8.5 2.7	22	1.67
160-211 11MB11	11.0 3.2	31	1.86

Type	Capacity Max. Min.	Number Plates	Net
DIFFERENTIAL			
160-303 6MA11	5.6 1.8	7	1.37
160-305 9MA11	9.3 2.0	13	1.52
160-308 15MA11	14.8 2.3	22	1.71
160-311 19MA11	19.3 2.7	31	1.96



TINY MITE TRIPLE SECTION

Number	Max. Cap. Mmfd.	Min. Cap. Mmfd.	Air Gap	Pl. Per Sect.	Net Each
LC-1845	11	5	.017"	3	\$ 4.29
LC-1846	17	5	.017	4	4.68
LC-1847	25	6	.017	5	5.29



JUNIOR SINGLE SECTION CONDENSERS

Approx. Shpg. Wgt. 3 lbs.

Number	Max. Cap.	Min. Cap.	No. Pl.	Air Gap	Net Each
JC-1525	50	4	7	.051"	\$ 4.41
JC-1526	100	7	13	.051	5.15
JC-1527	145	9	19	.051	5.50
JC-1528	250	12	33	.051	6.61
JC-1529	340	15	43	.051	7.35
JC-1530	25	4	5	.078	4.70
JC-1532	25	4	5	.078	5.00
JC-1534	110	10	21	.078	5.62
JC-1535	150	11	29	.078	5.88
JC-1536	190	15	37	.078	7.35
JC-1537	245	17	47	.078	9.14
JC-1538	20	5	7	.144	5.00
JC-1540	55	10	17	.144	5.58
JC-1541	80	12	25	.144	5.88
JC-1542	105	15	33	.144	6.61
JC-1543	18	6	7	.175	5.00
JC-1544	40	11	15	.175	5.58
JC-1545	55	13	19	.175	5.88
JC-1547	100	18	37	.175	6.61



JOHNSON

TYPE "N"



TYPES D, E, F

TYPE "D" DUAL SECTION

Number	Cap. per Sect. Max. Min.	Spacing	Net Each	
100DD35	75	13	.080"	\$ 9.11
150DD45	155	24	.125	13.03
50DD70	52	15	.175	9.31
70DD70	72	17	.175	10.78
100DD70	97	22	.175	12.15
50DD90	52	19	.250	10.78
100DD90	97	30	.250	14.26

TYPE "E" DUAL SECTION

Number	Cap. per Sect. Max. Min.	Spacing	Net Each	
70ED30	72	8	.075"	\$ 7.01
100ED30	99	10	.075	7.69
150ED30	153	13	.075	9.02
200ED30	196	15	.075	10.58
50ED45	52	10	.125	7.06
70ED45	74	12	.125	7.89
100ED45	100	15	.125	9.26

TYPE "F" DUAL SECTION

Number	Cap. per Sect. Max. Min.	Spacing	Net Each	
100FD30	99	13	.075	8.72

Shpg. Wgt. 3 1/2 lbs.

On all condensers listed above, first part of the type number indicates the capacity per section in Mmfd. Last number multiplied by 100 is the approximate peak breakdown voltage.

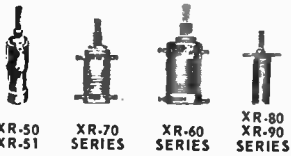
Compact, low-cost neutralizing condensers. Peak R.F. breakdown ratings at 2 MC - N-125, 8500; N-250, 11500; N-375, 14500. Shpg. Wgt. 1 1/2 lbs.

Number	Capacity Max. Min.	Spacing	Net Each
N125	11.0 1.1	.125"	\$ 5.59
N250	10.6 1.4	.250	6.61
N375	10.7 1.7	.375	8.43

"Your trade-in's worth more at the WALTER ASHE STORE" (81)

TRANSMITTING COILS - CONDENSERS CON

H. F. COILS AND COIL FORMS



XR-50 XR-51 XR-70 SERIES XR-60 SERIES XR-80 XR-90 SERIES

COIL FORMS

Mica-filled bakelite coil forms may be wound to provide a permeability tuned coil. Form winding length is $\frac{1}{4}$ " form winding diameter is $\frac{1}{2}$ ". Slug size: $\frac{1}{8} \times \frac{1}{2}$ " long.

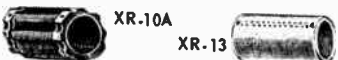
XR-50 Iron slug. Net \$ 1.04
XR-51 Brass slug. 1.04

Ceramic slug-tuned coil forms. 70 series $\frac{1}{4}$ " high, $\frac{1}{4}$ " diam. 60 series $1\frac{1}{4}$ " high, 1" diam.

- XR-70 Grooved for No. 19 wire, iron slug. 1.32
- XR-71 Same with brass slug. 1.32
- XR-72 Not grooved, winding length 1", iron slug. 1.32
- XR-73 Same with brass slug. 1.32
- XR-60 Grooved for No. 26 wire, iron slug. 1.32
- XR-61 Same with brass slug. 1.32
- XR-62 Not grooved, winding length $1\frac{1}{2}$ ", iron slug. 1.32
- XR-63 Same with brass slug. 1.32

Permeability tuned ceramic coil forms for high frequency applications. Base silver-plated brass, core is brass or iron. Supplied with two nylon rings to separate coils if more than one is wound on same form. Small holes in rings can be used to secure leads.

Type	Core	Length	Diam.	Net
XR-80	Brass	$1\frac{1}{4}$ "	$1\frac{1}{4}$ "	\$.87
XR-81	Iron	$1\frac{1}{4}$ "	$1\frac{1}{4}$ "	.87
XR-82	Brass	$1\frac{1}{4}$ "	$1\frac{1}{4}$ "	.87
XR-83	Iron	$1\frac{1}{4}$ "	$1\frac{1}{4}$ "	.87
XR-90	Brass	$1\frac{1}{4}$ "	$1\frac{1}{4}$ "	.87
XR-91	Iron	$1\frac{1}{4}$ "	$1\frac{1}{4}$ "	.87
XR-92	Brass	$1\frac{1}{4}$ "	$1\frac{1}{4}$ "	.87
XR-93	Iron	$1\frac{1}{4}$ "	$1\frac{1}{4}$ "	.87



XR-10A

XR-13

TRANSMITTER COIL FORMS

Has winding length of $3\frac{1}{4}$ ", winding diameter of $2\frac{1}{2}$ " (26 turns). For 20 and 40 meters.

NO. XR-10A, Net.....\$ 1.14

BUFFER COIL FORM

Unglazed stearite form. Winding length of $2\frac{1}{4}$ ", $1\frac{1}{2}$ " diameter. Holes for mounting and for leads.

NO. XR-13, Net.....\$.86

SHIELDED OSCILLATOR COIL

Shielded oscillator coil which tunes to 100 KC with .00041 mfd. 2 separate inductances, closely coupled. Excellent for interruption frequency oscillator in super-regenerative receivers.

NO. OSR Net \$ 2.07

ISOLANTITE PADDING CONDENSERS

NUMBER	CAPACITY	NET
1640	3-35	\$.10
1672a	10-150	.08
1673a	25-280	.08



TYPE TMS TRANSMITTING CONDENSERS

SINGLE STATOR

Number	Capacity		PV	Gap	Net
	Max.	Min.			
TMS-100	100	9.5	1000	.026"	\$ 2.99
TMS-150	150	11	1000	.026	3.22
TMS-250	250	13.5	1000	.026	3.80
TMS-300	300	15	1000	.026	4.37
TMSA-35	35	8	2000	.065	4.49
TMSA-50	50	11	2000	.065	5.06

DOUBLE STATOR

Number	Capacity		PV	Gap	Net
	Max.	Min.			
TMS-50-D	500	6D	1000	.026"	\$ 3.45
TMS-100-D	1000	7D	1000	.026	3.68
TMS-125-D	1250	8D	1900	.026	3.89

TYPE ST TRANSMITTING CONDENSERS



ST type condensers have straight-line plates, 180° rotation. Single bearing and double bearing models available.

DOUBLE BEARING MODELS

TYPE NUMBER	MAX. CAP.	MIN.	NO. PLATES	AIR GAP	NET
ST-35	35	6	8	.026"	\$ 2.13
ST-50	50	7	11	.026	2.19
ST-75	75	8	15	.026	2.30
ST-100	100	9	20	.026	2.42
ST-140	140	10	27	.026	2.65
ST-150	150	10.5	29	.026	2.65
STH-200	200	12	27	.018	2.88
STH-250	250	13.5	32	.018	3.11
STH-300	300	15	39	.018	3.34
STH-335	335	17	43	.018	3.57

SPLIT STATOR DOUBLE BEARING MODELS

Model	Capacity	PV	Gap	Net
STD-50	50-50	5-5	11-11	.026 4.14
STHD-100	100-100	5 1/2-5 1/2	14-14	.018 4.49

SINGLE BEARING MODELS

Model	Capacity	PV	Gap	Net
STHS-15	15	3	3	.018 1.90
STHS-25	25	3.25	4	.018 2.15
STHS-50	50	3.5	7	.018 2.42

VHF CONDENSERS



Excellent condensers for VHF work. Ideal for mixer-oscillator units. Ball bearings front and rear for easy rotation and freedom from backlash. Brackets for mounting miniature tube sockets. Isolantite end plates. Mount to chassis with spade bolts. $\frac{1}{2}$ " shaft coupling allows two or more to be ganged, shaft extension at rear.

DOUBLE SPACED MODELS

Type	Section	Max. Cap.	Min. Cap.	Net
VHF-1D	1	6.75 mfd	3.0 mfd	\$ 3.74
VHF-2D	2	6.75	3.0	7.46

SINGLE SPACED MODELS

Type	Section	Max. Cap.	Min. Cap.	Net
VHF-1S	1	22.5 mfd	3.0 mfd	\$ 3.74
VHF-2S	2	22.5	3.0	7.46

TYPE TMC TRANSMITTING CONDENSERS



Designed for power stages where peak voltages do not exceed 3000 volts. Rigid frame for mounting on panel, chassis, or standoff insulators. Air gap .077".

SINGLE STATOR MODELS

Number	Capacity		Plates	Net
	Max.	Min.		
TMC-50	50	10	7	\$ 4.14
TMC-100	100	13	13	4.89
TMC-150	150	17	21	6.04
TMC-250	250	23	32	6.56
TMC-300	300	25	39	7.02

DOUBLE STATOR MODELS

Model	Capacity	PV	Gap	Net
TMC-50D	50-50	9.9	7-7	\$ 5.00
TMC-100D	100-100	11-11	13-13	6.84
TMC-200D	200-200	18 1/2-18 1/2	25-25	8.34

HAMMARLUND



"APC" MICROS FOR HF, VHF, IF, ETC. Breakdown voltage 600 volts. Isolantite base. Approx. Shpg. Wgt. 4 oz.

Number	Capacity		No. Pl.	Net Each
	Max.	Min.		
APC-25	23	4	7	\$ 1.17
APC-50	50	5	14	1.23
APC-75	75	5.8	20	1.32
APC-100	99	6.8	27	1.44
APC-140	139	8.3	37	1.71

BUTTERFLY CAPACITOR

Designed for VHF and UHF applications. Approximately 1 3/8" square. Approx. Shpg. Wgt. 8 oz.

Number	Cap. per Section		Net Each
	Max.	Min.	
BFC-12	14.5	3.5	\$ 1.65
BFC-25	27.5	5.0	1.85
BFC-38	40.5	6.3	2.18

"HF" MICRO CAPACITORS

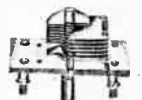


For tuning or trimming on VHF. Isolantite single hole or panel mount. Approx. Shpg. Wgt. 4 oz.

Number	Capacity		No. Pl.	Net Each
	Max.	Min.		
HF-15	17.5	2.8	5	\$ 1.26
HF-35	36.	3.2	10	1.29
HF-50	52.	3.7	14	1.32
HF-100	102.	5.3	27	1.53
HF-140	142.	6.3	37	1.80
HF-15-X	15.	3.6	10	1.35
HF-30-X	30.	5.2	20	1.47



MINIATURE CONDENSERS



Miniature variables of low loss construction, designed for VFO's, VHF converters, etc. Low minimum capacity. 180° rotation, straight line plates. Size, base 1"x2 1/4".

Number	Capacity	Plates	Net
UM-15	15	6	\$ 1.17
UM-35	35	12	1.32
UM-50	50	16	1.43
UM-75	75	22	1.67
UM-100	100	28	1.84

"Your trade-in's worth more at the WALTER ASHE STORE" (83)

SPRAGUE CAPACITORS

"HYPASS" CAPACITORS

BIG HELP IN REDUCING TVI



Used for suppressing automotive interference in mobile work, etc. Current ratings: 47P15-47P16 2 amps., 47P13-47P14 3 amps., 47P12 4 amps., 48P9 20 amps., 48P18 40 amps., 80P3 20 amps. Case gnd.

Number	Mfd.	Wk. V.	Size	Net
48P9	.1	250 AC	3/4x1-3/4	\$ 1.53
48P18	.5	50 DC	1x1-13/16	2.23
46P8	.005	600 DC	1/4x1-1/2	1.26
46P12	.002	600 DC	1/4x1-1/2	1.26
47P6	.01	600 DC	1/2x1-1/4	1.38
47P12	.005	1000 DC	1/2x1-1/4	1.41
47P13	.01	1000 DC	1/2x1-1/2	1.53
47P14	.005	2500 DC	1x1-1/2	1.70
47P15	.01	2500 DC	1x1-1/2	1.82
47P16	.002	5000 DC	1x1-1/2	1.88
80P3	.1	250 AC	3/4x1-7/8	1.73

DOORKNOB CERAMIC



High voltage ceramic capacitors of molded plastic. Non-flammable and moisture resistant. Assortment of interchangeable screw terminals to fit all sets. Capacity of both types is 500 mmfd.

Number	Work V.	Size	Net
20DK-T5	20,000	1x3/8"	\$ 1.09
30DK-T5	30,000	1 1/2x1 1/4"	1.76

HIGH CAPACITY LOW VOLTAGE



Aluminum can, outer insulating tube. Designed for filter circuits, eliminates all hum. Shpg. Wgt. 8 oz.

Number	Cap.	Surge	Work	Net
HLV-206	2000	10	6	\$ 2.23
HLV-2015	2000	20	15	2.76
HLV-2025	2000	40	25	3.38

TYPE "CL"



Separate leads, 475 volt working, 600 volt surge. Shpg. Wgt. 8 oz.

Number	Mfd.	Diam.	Length	Net
CL-8	8	1 3/8"	4 7/16"	\$ 1.62
CL-16	16	1 1/2"	4 7/16"	1.85
CL-88	8-3	1 1/2"	4 15/16"	2.47



TYPE "LS"

Can type replacement for old sets. Work 450 volts, surge 525. Can negative. Shpg. Wgt. 6 oz.

Number	Capacity	Net
LS-16	16	\$ 1.44

SPRAGUE ATOMS



Small, dependable dry electrolytics for all service requirements. Guaranteed to have low leakage and long shelf life. Will withstand high temperatures, high ripple current, and high surges. Easy to mount.

DUAL UNITS, COMMON NEGATIVE

Number	Capacity	Voltage	Net
TVA-2434	30-30	150	\$ 1.06
TVA-2445	40-40	150	1.09
TVA-2450	50-30	150	1.15
TVA-2460	80-30	150	1.29
TVA-2740	40-40	450	2.00

SEPARATE SECTIONS, 4 LEADS

Number	Capacity	Voltage	Net
TU-220	20-20	150	\$ 1.21
TU-420	40-20	150	1.29
TU-88	8-8	450	1.26

TRIPLE UNITS

Number	Capacity	Voltage	Net
TVA-3415	20-20/20	150-150/25	\$ 1.21
TVA-3419	30-30/100	150-150/12	1.35
TVA-3427	40-40/100	150-150/25	1.44
TVA-3430	50-30/20	150-150/25	1.38
TVA-3433	50-30/200	150-150/25	1.62
TVA-3440	20-20-20	150	1.29
TVA-3444	30-30-30	150	1.38
TVA-3451	40-40-40	150	1.44
TVA-3455	80-40-20	150	1.62
TVA-3716	12-12/20	450-450/25	1.35

SPRAGUE MOLDED TELECAP HIGH-TEMPERATURE TUBULARS



TYPE TVM - 6000 & 10,000 VOLT

Number	Mfd.	WVDC	Size	Net
TVM-356	.0005	6000	1/2x1-1/2	\$.79
TVM-216	.001	6000	5/8x1-7/8	.79
TVM-255	.005	6000	5/8x1-7/8	.79
TVM-351	.0005	10000	5/8x1-7/8	.88
12TVM-325	.00025	12500	5/8x1-7/8	1.00

SPRAGUE VITAMIN "Q" 6000 VOLT TUBULARS



Smallest ultra-dependable, high capacitance units for 85° C operation made possible by Vitamin "Q" impregnation. Designed to minimize corona. Exclusive internal humidity barrier and heavy outer wax coating.

Number	Mfd.	WVDC	Size	Net
TVQ-116	.01	6000	15/16x2	\$.82
TVQ-136	.02	6000	1x2"	.88
TVQ-156	.05	6000	1-3/16x3	.94

SPRAGUE RESONANT PAPER CAPACITORS



Stabilize any AC-DC "squealer" receiver. Stop self-oscillation, permitting "on-the-nose" alignment. Very low impedance at 465 KC intermediate frequency. By-pass unwanted IF signals.

Number	Mfd.	WVDC	Size	Net
72P51	.05	400	1/2x1-1/8	\$.29
72P52	.1	400	1/2x1-5/8	.38
72P53	.2	400	9/16x1-7/8	.41

MOLDED TELECAPS



Cap. Mfd.	600 VDC	Net VDC	400 VDC	Net VDC	200 VDC	Net VDC
.0001	6TM-T1	\$.15				
.00025	6TM-T25	.15				
.0004	6TM-T4	.15				
.0005	6TM-T5	.15				
.001	6TM-D1	.15				
.0015	6TM-D15	.15				
.002	6TM-D2	.15				
.0022	6TM-D22	.15				
.003	6TM-D3	.15				
.004	6TM-D4	.15				
.0047	6TM-D47	.15				
.005	6TM-D5	.15				
.006	6TM-D6	.15				
.0068	6TM-D68	.18				
.01	6TM-S1	.18	4TM-S1	\$.15		
.015	6TM-S15	.18				
.02	6TM-S2	.18	4TM-S2	.15	2TM-S2	\$.15
.022	6TM-S22	.18	4TM-S22	.15		
.03	6TM-S3	.21				
.04	6TM-S4	.21				
.047	6TM-S47	.24	4TM-S47	.18	2TM-S47	.15
.05	6TM-S5	.24	4TM-S5	.18	2TM-S5	.15
.06	6TM-S6	.24				
.068			4TM-S68	.21		
.1	6TM-P1	.26	4TM-P1	.21	2TM-P1	.21
.15			4TM-P15	.21	2TM-P15	.21
.2	6TM-P2	.32				
.22			4TM-P22	.24	2TM-P22	.24
.25	6TM-P25	.32	4TM-P25	.24	2TM-P25	.24
.47					2TM-P47	.35
.5	6TM-P5	.47	4TM-P5	.35	2TM-P5	.35
1.0	TC-10	.73			2TM-M1	.53

TC type waxed cardboard case.

1000 WVDC

Type	Cap. Mfd.	Net
10TM-T5	.0005	\$.29
10TM-D1	.001	.29
10TM-D15	.0015	.29
10TM-D2	.002	.29
10TM-D22	.0022	.29
10TM-D3	.003	.29
10TM-D4	.004	.29
10TM-D47	.0047	.29
10TM-D5	.005	.29
10TM-D68	.0068	.29
10TM-S1	.01	.29
10TM-S15	.015	.29
10TM-S2	.02	.29
10TM-S22	.022	.29
10TM-S3	.03	.29
10TM-S35	.035	.29
10TM-S47	.047	.35
10TM-S5	.05	.35
10TM-S68	.068	.38
10TM-P1	.1	.73

1600 WVDC

MB-#	Cap. Mfd.	Net
MB-T5	.0005	\$.38
MB-D1	.001	.38
MB-D15	.0015	.38
MB-D2	.002	.38
MB-D22	.0022	.38
MB-D3	.003	.38
MB-D33	.0033	.38
MB-D4	.004	.38
MB-D47	.0047	.38
MB-D5	.005	.38
MB-D6	.006	.38
MB-D68	.0068	.38
MB-D7	.007	.38
MB-D75	.0075	.38
MB-D8	.008	.38
MB-S1	.01	.41
MB-S15	.015	.41
MB-S2	.02	.41
MB-S22	.022	.41
MB-S3	.03	.41
MB-S4	.04	.41
TR-15*	.05	.41
TR-215*	2x.015	.47

*Waxed cardboard case.

ERIE "CERAMICON" CAPACITORS

CON

ERIE HIGH VOLTAGE DISC CERAMICONS



Available in 3 voltage ranges, 1500, 3000, 6000 VDC.

TYPE 1R5KV 1500 WVDC		
NUMBER	MMFD	NET
1R5KV-4R7	4.7	\$.18
1R5KV-6R8	6.8	.18
1R5KV-100	10.0	.18
1R5KV-150	15.0	.18
1R5KV-220	22.0	.18
1R5KV-330	33.0	.18
1R5KV-470	47.0	.18
1R5KV-680	68.0	.18
1R5KV-101	100.0	.18
1R5KV-151	150.0	.18
1R5KV-181	180.0	.18
1R5KV-221	220.0	.18
1R5KV-331	330.0	.18
1R5KV-471	470.0	.18
1R5KV-681	680.0	.29
1R5KV-102	1000.0	.29
1R5KV-152	1500.0	.29
1R5KV-222	2200.0	.29
1R5KV-332	3300.0	.29
1R5KV-472	4700.0	.29
1R5KV-562	5600.0	.35
1R5KV-622	6200.0	.35

TYPE 3KV 3000 WVDC		
NUMBER	MMFD	NET
3KV-4R7	4.7	\$.24
3KV-6R8	6.8	.24
3KV-100	10.0	.24
3KV-150	15.0	.24
3KV-220	22.0	.24
3KV-330	33.0	.24
3KV-470	47.0	.24
3KV-560	56.0	.24
3KV-680	68.0	.24
3KV-101	100.0	.24
3KV-221	220.0	.24
3KV-331	330.0	.24
3KV-471	470.0	.24
3KV-681	680.0	.24
3KV-102	1000.0	.24
3KV-152	1500.0	.24
3KV-222	2200.0	.24
3KV-332	3300.0	.24

TYPE 6KV 6000 WVDC		
NUMBER	MMFD	NET
6KV-4R7	4.7	\$.29
6KV-6R8	6.8	.29
6KV-100	10.0	.29
6KV-150	15.0	.29
6KV-220	22.0	.29
6KV-181	180.0	.29
6KV-221	220.0	.29
6KV-331	330.0	.29

FEED-THRU CERAMICONS



NUMBER	MMFD	NET
362-152	1500	\$.59
327-102	1000	.65

"GP" General Purpose CERAMICONS



Small fixed capacitors, silver electrodes fired on ceramic dielectric at very high temperature, 500 VDC. Tolerance 20%. Available in the following capacities. Approx. size 1/4x5/8".

MMFD	MMFD	MMFD	MMFD
5	51	300	2300
10	56	330	2500
12	68	360	2700
15	75	390	3000
18	82	470	3300
20	100	500	4000
22	110	510	4700
24	120	560	5000
25	150	680	5600
27	180	750	6800
30	200	1000	7500
33	230	1200	10000
39	240	1500	
47	250	1800	
50	270	2000	

Any above type, Net each \$.15

NPO Zero Temperature Coefficient CERAMICONS

Recommended for frequency determining applications where no capacity change with change of temperature is desired. Recommended as replacement for silver micas. Working voltage 600 volts DC. Tolerance 10%.

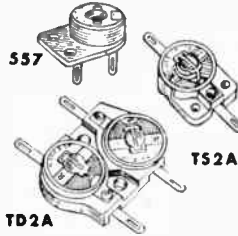
NUMBER	MMFD	NET
NPOK-1R5	1.5	\$.29
NPOK-2R2	2.2	.29
NPOK-030	3.0	.29
NPOK-3R3	3.3	.29
NPOK-4R7	4.7	.29
NPOK-050	5.0	.29
NPOK-6R8	6.8	.29
NPOK-8R2	8.2	.29
NPOK-100	10.0	.29
NPOK-200	20.0	.29
NPOL-250	25.0	.29
NPOL-330	33.0	.29
NPO-333-500	50.0	.32
NPO-333-750	75.0	.32
NPO-333-101	100.0	.32
NPO-334-151	150.0	.44
NPO-334-1750	175.0	.44

Negative Temperature Coefficient CERAMICONS

N080 and N750 units provide temperature compensation to eliminate drift. Tolerance 10%.

NUMBER	MMFD	NET
N750K-050	5.0	\$.29
N750K-100	10.0	.29
N750K-470	47.0	.29
N750L-750	75.0	.29
N750L-101	100.0	.29
N080-331-100	10.0	.35
N080-331-220	22.0	.35
N080-338-330	33.0	.35
N080-338-470	47.0	.35
N080-338-620	62.0	.35

CERAMICON TRIMMERS



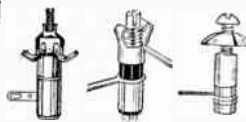
NUMBER	CAPACITY RANGE	NET
TS2A-1.5	1.5-7	\$.88
TS2A-3	3-12	.88
TS2A-4	4-30	.88
TS2A-7	7-45	.88
TD2A		
TD2A-1.5	1.5-7	1.47
TD2A-3	3-12	1.47
TD2A-4	4-30	1.47
TD2A-7	7-45	1.47
557-3	3-12	.73
557-5	5-25	.73
557-8	8-50	.73

STAND-OFF CERAMICONS



NUMBER	MMFD	NET
323		
324		
325		
326		
2322		
2336		
323-300	50	\$.32
323-101	100	.32
323-501	500	.32
324-102	1000	.32
324-132	1500	.32
325-102	1000	.35
325-152	1500	.35
326-102	1000	.62
326-152	1500	.65
2322-252	2500	.73
2336-252	2500	.68
2336-502	5000	.68

TUBULAR TRIMMERS



NUMBER	CAPACITY RANGE	NET
532-08-0R3	0.5-5	\$.32
532-10	1-8	.32
535-0R7	0.7-3	.41
3115-01-0R5	0.5-3	.29
3115-01-10	1-4	.29

ERIE RESISTOR CORP.

BUTTON

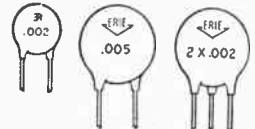
SILVER-MICA CAPACITORS



Midget silver-mica capacitors for UHF and VHF applications. Specify CB or FA style. Tol. 20%.

NUMBER	MMFD	NET
370-150M	15	\$.91
370-250M	25	.91
370-500M	50	.91
370-101M	100	.91
370-151M	150	.91
370-201M	200	.91
370-251M	250	.91
370-301M	300	.97
370-401M	400	1.00
370-501M	500	1.06
370-751M	750	1.53
370-102M	1000	1.85

DISC CERAMICONS



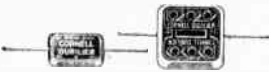
Disc Ceramicons consist of a flat ceramic dielectric with silver fired onto the dielectric. Lead wires firmly soldered to silver electrodes. Units are coated with phenolic. Ideal for efficient high frequency operation. Rated at 500 VDC.

NUMBER	CAPACITY	NET
831-100	10 MMF	\$.15
831-150	15 MMF	.15
831-220	22 MMF	.15
831-330	33 MMF	.15
801-470	47 MMF	.15
811-680	68 MMF	.15
811-101	100 MMF	.15
811-151	150 MMF	.15
811-221	220 MMF	.15
821-331	330 MMF	.15
821-471	470 MMF	.15
801-681	680 MMF	.15
801-.001	.001 MFD	.15
801-.0015	.0015 MFD	.15
801-.002	.002 MFD	.15
811-.0022	.0022 MFD	.15
811-.0033	.0033 MFD	.15
811-.0047	.0047 MFD	.15
811-.005	.005 MFD	.15
811-.0068	.0068 MFD	.18
811-.01	.01 MFD (350 VDC)	.15
821-.01	.01 MFD	.18
821-.02	.02 MFD	.18
812-.001	.001 Dual MFD	.23
812-.0015	.0015 Dual MFD	.23
812-.002	.002 Dual MFD	.23
822-.003	.003 Dual MFD	.26
822-.004	.004 Dual MFD	.26

"Your trade-in's worth more at the WALTER ASHE STORE" 85

CAPACITORS OF HIGH QUALITY

MOLDED MIDGET MICA CAPACITORS



MOLDED MIDGET MICA CAPACITORS

Suitable for most any electronic application, used in low voltage radio receiving applications, schools, experimental labs, etc. Standard tolerance 20%. Sizes: 1W $1\frac{1}{2} \times \frac{1}{2} \times \frac{1}{8}$ " ID $1\frac{1}{2} \times \frac{1}{2} \times \frac{1}{8}$ " 5W $1\frac{1}{2} \times \frac{1}{2} \times \frac{1}{8}$ " 500 VDC working, 1000 VDC test.

Type	Capacity	Net
5W-5V5	.000005	\$.15
5W-5Q1	.00001	.15
5W-5Q2	.00002	.15
5W-5Q25	.000025	.15
5W-5Q3	.00003	.15
5W-5Q4	.00004	.12
5W-5Q5	.00005	.12
5W-5Q7	.00007	.12
5W-5T1	.0001	.12
5W-5T15	.00015	.12
5W-5T2	.0002	.12
5W-5T25	.00025	.15
5W-5T3	.0003	.15
5W-5T4	.0004	.15
5W-5T5	.0005	.15
1W-5T6	.0006	.15
1W-5T7	.0007	.15
1W-5T8	.0008	.15
1W-5T9	.0009	.15
1W-5D1	.001	.18
1W-5D15	.0015	.18
1W-5D2	.002	.24
1W-5D25	.0025	.26
1W-5D3	.003	.29
1W-5D4	.004	.32
1W-5D5	.005	.35
1D-5D6	.006	.44

Condensers listed below are 300 VDC working, 600 VDC test.

1D-3D7	.007	.53
1D-3D8	.008	.59
1D-3D9	.009	.59
1D-3S1	.01	.70

MOLDED MIDGET SILVER MICA CAPACITORS

Especially adapted for use in circuits where accuracy and stability of capacity is important. 500 VDC working, 1000 VDC test. Sizes: 22R $1\frac{1}{2} \times \frac{1}{2} \times \frac{1}{8}$ " 5R $1\frac{1}{2} \times \frac{1}{2} \times \frac{1}{8}$ " 1R $1\frac{1}{2} \times \frac{1}{2} \times \frac{1}{8}$ ". Low loss red plastic case. Standard tolerance 5%, closer tolerances on special order.

Type	Capacity	Net
22R-5V5	.000005	\$.23
22R-5Q1	.00001	.23
22R-5Q2	.00002	.23
22R-5Q25	.000025	.23
22R-5Q3	.00003	.23
22R-5Q4	.00004	.23
22R-5Q5	.00005	.23
22R-5Q7	.00007	.23
22R-5T1	.0001	.23
22R-5T15	.00015	.26
22R-5T2	.0002	.26
22R-5T25	.00025	.26
5R-5T3	.0003	.32
5R-5T4	.0004	.38
5R-5T5	.0005	.41
1R-5T7	.0007	.50
1R-5T8	.0008	.56
1R-5T9	.0009	.59
1R-5D1	.001	.65
1R-5D15	.0015	.79
1R-5D2	.002	.79
1R-5D25	.0025	1.06
1R-5D3	.003	1.21
1R-5D4	.004	1.26
1DR-5D5	.005	1.32

MOLDED BAKELITE MICA CAPACITORS

Type	Mfd.	Net
9-14050	.00005	\$.85
9-13010	.0001	.85
9-13025	.00025	.85
9-13050	.0005	.85
9-12010	.001	.85
9-12020	.002	.97
9-12025	.0025	1.00
9-12030	.003	1.09
9-12040	.004	1.18
9-12050	.005	1.23
9-12060	.006	1.29
9-12080	.008	1.44
9-11010	.01	1.65
9-11015	.015	1.79
9-11020	.02	2.09
9-11025	.025	2.56
9-11030	.03	2.68
9-11040	.04	3.44
9-11050	.05	4.17
9-11060	.06	4.73

2500 VDC TEST 1200 VDC WORKING

9-24050	.00005	\$.94
9-23010	.0001	.94
9-23025	.00025	.94
9-23050	.0005	.94
9-22010	.001	1.12
9-22020	.002	1.47
9-22025	.0025	1.65
9-22030	.003	1.73
9-22040	.004	1.82
9-22050	.005	1.94
9-22060	.006	2.03
9-22080	.008	2.41
9-21010	.01	2.76
9-21015	.015	3.41
9-21020	.02	4.15
9-21025	.025	4.65
9-21030	.03	4.76

5000 VDC TEST 2500 VDC WORKING

9-54050	.00005	\$.112
9-53010	.0001	1.12
9-53025	.00025	1.26
9-53050	.0005	1.50
9-52010	.001	1.71
9-52020	.002	2.50
9-52025	.0025	2.70
9-52030	.003	3.00
9-52040	.004	3.33
9-52050	.005	3.65
9-52060	.006	3.73
9-52080	.008	4.03
9-51010	.01	4.29
9-51015	.015	4.73



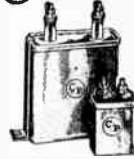
TRIMMERS

Number	Cap. MMF	Net Each
823-AN	20-125	\$.147
823-BN	10-100	1.47
823-DN	8-50	1.47
823-EN	8-25	1.47
823-AZ	12-60	1.47
823-BZ	10-50	1.47
823-DZ	6-25	1.47
823-EZ	5-12	1.47



PLASTICON

CAPACITORS



INDUSTRIAL and TRANSMITTING

DC RECTANGULARS

Plastic A element, mineral oil impregnated in sturdy lead coated steel containers. Smaller, lighter, and more economical than paper capacitors. Temperature range +40° C to 105° C. Type AOC rectangular, type AOCO flattened oval. Hermetically sealed, operate in any position. Conservatively rated. Paracelinsulators on types C6C, C1M, C2M. Metallized glass standoffs on all others. Mounting brackets 3.45 extra per pair.

600 DCV			3000 DCV		
Number	Cap.	Net	Number	Cap.	Net
AOC6C1	1.0	\$2.65	AOC3M1	1.0	\$8.54
AOC6C2	2.0	3.19	AOC3M2	2.0	10.87
AOC6C4	4.0	3.96	AOC3M4	4.0	15.02
AOC6C8	8.0	5.98	4000 DCV		
AOC6C10	10.0	6.71	AOC4M1	1.0	19.40
1000 DCV			AOC4M2	2.0	23.38
AOC1M1	1.0	2.83	AOC4M4	4.0	35.59
AOC1M2	2.0	3.80	5000 DCV		
AOC1M4	4.0	4.62	AOC5M1	1.0	23.38
AOC1M8	8.0	6.53	AOC5M2	2.0	29.08
2000 DCV			7500 DCV		
AOC2M1	1.0	4.16	AOC75C1	1.0	34.93
AOC2M2	2.0	4.81	10000 DCV		
AOC2M4	4.0	6.53	AOC10M1	1.0	62.09

GLASSMIKES ASG



Temperature range -60° C to +125° C. The smallest and lightest high voltage capacitor made. Type ASG are ideal for DC and low frequency AC applications. Small vacuum tight condensers for bypass; coupling uses in TV, oscilloscopes, Geiger counters. Shpg. Wgt. 8 oz.

600 DCV			5000 DCV		
Number	Cap.	Net	Number	Cap.	Net
ASG103-6C	.01	\$.88	ASG102-5M	.001	\$3.82
ASG203-6C	.02	.94	ASG202-5M	.002	3.94
ASG503-6C	.05	1.03	ASG502-5M	.005	4.09
ASG104-6C	1	1.15	ASG103-5M	.01	4.27
ASG254-6C	.25	1.32	ASG203-5M	.02	4.50
ASG504-6C	.5	1.53	ASG503-5M	.05	4.80
1000 DCV			7500 DCV		
ASG502-1M	.005	.88	ASG104-5M	.1	5.35
ASG103-1M	.01	.94	ASG102-8M	.001	4.12
ASG203-1M	.02	1.00	ASG202-8M	.002	4.26
ASG503-1M	.05	1.09	ASG502-8M	.005	4.44
ASG104-1M	1	1.27	ASG103-8M	.01	4.79
ASG254-1M	.25	1.47	ASG203-8M	.02	5.44
ASG504-1M	.5	1.50	ASG503-8M	.05	6.76
2000 DCV			10,000 DCV		
ASG202-2M	.002	1.12	ASG501-10M	.0005	4.29
ASG502-2M	.005	1.21	ASG102-10M	.001	4.41
ASG103-2M	.01	1.32	ASG202-10M	.002	4.59
ASG203-2M	.02	1.47	ASG502-10M	.005	5.29
ASG503-2M	.05	1.65	ASG103-10M	.01	6.17
ASG104-2M	.1	1.88	ASG203-10M	.02	7.35
ASG254-2M	.25	2.18	ASG503-10M	.05	8.82
ASG504-2M	.5	3.03	15,000 DCV		
3000 DCV			ASG202-3M	.002	3.09
ASG102-3M	.001	3.18	ASG501-15M	.0005	8.53
ASG202-3M	.002	3.19	ASG102-15M	.001	8.71
ASG502-3M	.005	3.18	ASG202-15M	.002	9.11
ASG103-3M	.01	3.29	20,000 DCV		
ASG203-3M	.02	3.44	ASG501-20M	.0005	11.47
ASG503-3M	.05	3.62	ASG102-20M	.001	12.05
ASG104-3M	.1	3.82	30,000 DCV		
ASG501-30M			.0005	13.23	

Vacuum fixed Capacitors



TYPE W - WALNUT SERIES

A miniature type vacuum condenser rated at 20,000 peak volts. Ferrule type plug-in caps. $4\frac{1}{2}$ " long. $2\frac{1}{2}$ " diam. (100 mmfd., $4\frac{1}{2}$ " long; 20 mmfd.)

W-25 mmfd. Net Each	\$.14.62
W-50 mmfd.	15.93
W-100 mmfd.	21.92

"Your trade-in's worth more at the WALTER ASHE STORE" (87)

AMPHENOL CONNECTORS



MICROPHONE CONNECTORS



New style 75-MC1P is both male and female connector in one. Female connection becomes male plug by unscrewing the coupling ring and slipping it back.

Type	Description	Net
75-MC1P		\$.27
75-MC1M	Male	.21

ANGLE CONNECTOR

For cable connection at right angle to chassis. Otherwise same as MC1F.

75-MC1F-A		Net \$.59
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CHASSIS UNIT

75-PC1M	Non-Shorting	Net \$.18
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Same as above but closes circuit when connector is removed. Mounts in 1/2" hole.

75-CL-PC1M	Shorting	Net \$.26
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PHONE PLUG ADAPTOR

Fits MC1P and MC1F-A connectors.

Number	Description	Net
75-MC1P	Phone Plug	\$.29

ONE AND TWO CONTACT



For small coaxial cables, microphone, speaker, etc. Polished chrome finish.

Number	Description	Net
80-F	One contact female T	\$.42
80-M	One prong male R	.42
80-MC2F	Two contact female T	.52
80-MC2M	Two prong male R	.52

T designates outside thread
R designates locking ring.

SHIELDED CHASSIS CONNECTORS



80-C	1 contact female	Net \$.26
80-PC2F	2 contact female	.29
80-C1	1 contact male	.26
80-PC2M	2 contact male	.29

CAP AND CHAIN



Dust seals for above Amphenol fittings.

Number	For Connectors	Net
75-CCC-1	PC1M, 80C, etc.	\$.33
91-CCC-3	91 Series	.33

MICROPHONE SWITCH



For use where switch at mike is desired or in line. Fits No. 75 series.

NO. 75-MC1S		Net \$.82
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THREE AND FOUR CONTACT



For multiple cable uses. Chrome plated shielded. T, threads, R, ring.

Number	Description	Net
91-MC3M	3 prong male R	\$.65
91-MC4M	4 prong male R	.71
91-MC3F	3 prong female T	.65
91-MC4F	4 prong female T	.71

CHASSIS CONNECTORS

Fit 91 series. Mount in panel up to 1/2" thick.

91-PC3P	3 prong female	\$.33
91-PC4F	4 prong female	.36

LOW-LOSS

RF CONNECTORS



FOR "RG" TYPE CABLES. UHF SERIES.

Single Contact		Net
Number	Description	
83-1SP	A Plug	\$.76
83-1R	B Recept. Mica Fil.	.70
83-1AP	C Angle Pl. Adapt.	1.65
83-1J	D Junction	1.00
83-1T	E T Conn.	1.83
83-1F	F Feed Thru.	1.76
83-1H	G Hood	.29
83-16R	H Reducer	.18
Double Contact		Net
83-22SF	A Plug	\$ 1.00
83-22R	B Receptacle	1.12
83-22AP	C Angle Pl. Adapt.	1.88
83-22J	D Junction	1.47
83-22T	E T Conn.	2.82
83-22F	F Feed Thru.	2.18



For cables up to 11/32". May be reamed out for cable up to 7/16" OD. Shell of solid brass, chrome plated. Chassis unit mounts in 13/16" hole.

93-M	Male plug	\$ 1.06
93-F	Female jack	1.06
93-C	Female receptacle	.88

INSERTS AND SHELLS FOR CABLE PLUGS



Number	Type	Net
61-F	2 Pole Univ. Socket	\$.18
60-P	3 Pole Polar. Socket	.25
61-F1	2 Pole Univ. Socket	.26
60-F1	3 Pole Polar. Socket	.27
3-13	Shell with grommet	.11
70-CC4	Cable Clamp for 3-13	.67
61-V	2 Pole, Std. Plug	.18
61-MP	2 Pole, Polarized Plug	.23
60-N	3 Pole, Polarized Plug	.25
61-M1	2 Pole, Std. Plug	.20
61-MP1	2 Pole, Polarized Plug	.20
60-N1	3 Pole, Polarized Plug	.21
61-61	Shell	.11
23-1S	Shell	.67



HEAVY DUTY RADIO CONNECTORS



WITH COUPLING RING

Male	Female	Contacts	Net
79-04M	79-04F1	4	\$.90
79-05M	79-05F1	5	.90
79-06M	79-06F1	6	.90
79-08M	79-08F1	8	.90
79-012M	79-012F1	12	1.42

WITH COUPLING THREAD

79-04F	79-04M1	4	.90
79-05F	79-05M1	5	.90
79-06F	79-06M1	6	.90
79-08F	79-08M1	8	.90
79-012F	79-012M1	12	1.42

CHASSIS RECEPTACLES

79-P04M	79-P04F	4	.90
79-P05M	79-P05F	5	.90
79-P06M	79-P06F	6	.90
79-P08M	79-P08F	8	.90
79-P012M	79-P012F	12	1.42

HEAVY DUTY POWER CONNECTORS



Four contact connectors, ideal for low impedance mikes, speakers, etc. Will carry up to 15 amps.

Number	Description	Net
92-M	Male Plug, Ring	\$ 1.77
92-F	Female Jack, Thread	1.77
92-C	Female, Chassis	1.77
92-M1	Male Jack, Thread	1.77
92-F1	Female Plug, Ring	1.77
92-C1	Male, Chassis	1.77
79-CCC8	Dust Cap and Chain	.36

SHIELDED CABLE CONNECTORS



110-250 volt connectors with cable clamp which relieves the strain on soldered connections.

Number	Description	Net
60-F11	3 Pole Receptacle	\$.38
60-M11	3 Pole Polar. Plug	.38
61-F11	2 Pole Univ. Recept.	.32
61-M11	2 Pole Std. Plug	.32
51-MP11	2 Pole Polar. Plug	.32

SHIELDED MULTI-WIRE CONNECTORS



Available in male and female types. 4 to 20 contacts. Includes metal shell.

Male	Female	Contacts	Net
86-PW-4	78-PF-4	4	\$.19
86-PW-5	78-PF-5	5	.19
86-PW-6	78-PF-6	6	.19
86-PW-7S	78-PF-7S	7	.19
86-PW-7L	78-PF-7L	7	.19
86-PW-8	78-PF-8	8	.21
86-PW-9	78-PF-9	9	.23
86-PW-11	78-PF-11	11	.28
86-PW-20	None	20	.59
77-MIP-20	20 contact socket for PW-20		.47

JONES CONNECTORS

CON

JONES FANNING STRIPS



Terminals are of .032 brass, cadmium plated. Bakelite strips are furnished with hole in either right or left end for fastening cable with clamp or lacing twine. 161 series fit type 141 barrier strips listed above. Specify left or right when ordering.

Number	Cont.	Net	Number	Cont.	Net
2-161	2	\$.08	12-161	12	\$.45
3-161	3	.13	13-161	13	.49
4-161	4	.16	14-161	14	.54
5-161	5	.20	15-161	15	.57
6-161	6	.24	16-161	16	.61
7-161	7	.28	17-161	17	.64
8-161	8	.31	18-161	18	.69
9-161	9	.34	19-161	19	.72
10-161	10	.38	20-161	20	.75
11-161	11	.42			

BARRIER TERMINAL STRIPS



Number	Cont.	Net	Number	Cont.	Net
1-141	1	\$.12	11-141	11	\$.78
2-141	2	.19	12-141	12	.84
3-141	3	.24	13-141	13	.92
4-141	4	.32	14-141	14	.98
5-141	5	.38	15-141	15	1.05
6-141	6	.44	16-141	16	1.12
7-141	7	.52	17-141	17	1.19
8-141	8	.58	18-141	18	1.25
9-141	9	.63	19-141	19	1.31
10-141	10	.72	20-141	20	1.38

Jones "W" Solder Terminal for use with 141 barrier strips. Net Each \$.035

Jones "Y" Solder Terminal for use with 141 barrier strips. Net Each \$.035

MILLEN

SAFETY TERMINALS TERMINAL STRIPS

Hi-Voltage Safety type



No. 37501
No. 37001



No. 37304

No. 37501. Low loss mica-filled bakelite. Net \$.63

No. 37001. Black or red bakelite safety terminals. Black \$.45 - Red \$.48

No. 37302	Steatite 2 terminal	Net	.69
No. 37303	Steatite 3 terminal		.78
No. 37304	Steatite 4 terminal		.90
No. 37305	Steatite 5 terminal		1.05
No. 37306	Steatite 6 terminal		1.14
No. 37104	Bakelite 4 terminal		.69

I. C. A. TERMINAL STRIPS



Black bakelite base with terminals spaced 1/2" apart.

Number	Terminals	Net
2420	2	\$.14
2414	3	.19
2413	4	.24
2405	5	.28
2404	6	.34
2412	7	.41
2410	8	.46
2424	9	.51
2422	10	.56

PLUGS AND SOCKETS

"300" SERIES

Phosphor bronze "knife-switch" type contacts, rated at 45 volts at 5 amps. Polarized. Shpg. Wgt. 4 oz.

PLUG	CABLE CLAMP IN CAP	Number	Contacts	Net
P-302-CCT		2	3	\$.39
P-303-CCT		3	4	.42
P-304-CCT		4	4	.46
P-306-CCT		6	6	.51
P-308-CCT		8	8	.56
P-310-CCT		10	10	.63
P-312-CCT		12	12	.69

SOCKET	CABLE CLAMP IN CAP	Number	Contacts	Net
S-302-CCT		2	2	\$.40
S-303-CCT		3	3	.43
S-304-CCT		4	4	.46
S-306-CCT		6	6	.54
S-308-CCT		8	8	.62
S-310-CCT		10	10	.70
S-312-CCT		12	12	.79

PLUG	WITH ANGLE BRACKETS	Number	Contacts	Net
P-302-AB		2	2	\$.17
P-303-AB		3	3	.21
P-304-AB		4	4	.24
P-306-AB		6	6	.28
P-308-AB		8	8	.33
P-310-AB		10	10	.39
P-312-AB		12	12	.43

SOCKET	WITH ANGLE BRACKETS	Number	Contacts	Net
S-302-AB		2	2	\$.19
S-303-AB		3	3	.22
S-304-AB		4	4	.25
S-306-AB		6	6	.31
S-308-AB		8	8	.39
S-310-AB		10	10	.46
S-312-AB		12	12	.54

"400" SERIES

Heavy-duty type for circuits not exceeding 110 volts at 10 amps. Polarized. Average Shpg. Wgt. 6 oz.

PLUG	WITH CABLE CLAMP	Number	Contacts	Net
P-402-CCT		2	2	\$.67
P-404-CCT		4	4	.80
P-406-CCT		6	6	.95
P-408-CCT		8	8	1.08
P-410-CCT		10	10	1.22
P-412-CCT		12	12	1.36

SOCKET	WITH CABLE CLAMP	Number	Contacts	Net
S-402-CCT		2	2	\$.72
S-404-CCT		4	4	.90
S-406-CCT		6	6	1.09
S-408-CCT		8	8	1.27
S-410-CCT		10	10	1.47
S-412-CCT		12	12	1.66

PLUG	WITH ANGLE BRACKETS	Number	Contacts	Net
P-402-AB		2	2	\$.42
P-404-AB		4	4	.51
P-406-AB		6	6	.62
P-408-AB		8	8	.72
P-410-AB		10	10	.80
P-412-AB		12	12	.89

SOCKET	WITH ANGLE BRACKETS	Number	Contacts	Net
S-402-AB		2	2	\$.48
S-404-AB		4	4	.62
S-406-AB		6	6	.75
S-408-AB		8	8	.89
S-410-AB		10	10	1.04
S-412-AB		12	12	1.18

TERMINAL STRIPS

Number	Net Each	10 For
T-10	\$.02	\$.18
T-20	.03	.23
T-44	.04	.36
T-40	.05	.45
T-50	.06	.54
T-61	.07	.62

SCREW TYPE TERMINAL STRIPS

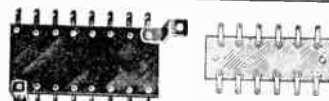
Number	Lugs	Net Each	10 For
17-1	1	\$.04	\$.30
17-2	2	.06	.51
17-3	3	.09	.82
17-4	4	.12	1.06
17-5	5	.14	1.23
17-6	6	.17	1.50
17-7	7	.21	1.85
17-8	8	.23	2.03

MINIATURE PLUG AND JACK



For hearing aids, speaker extensions, carbon mikes & numerous other installations. Needs no screws; molded plastic case cements together.

Number	Description	Net
790	1 plug (type PL-291)	\$.35
791	1 jack (type JK-48)	.47



Number	Dimensions	Lugs per Side	Net
420	1" x 3"	6	\$.24
430	1 3/4 x 2 1/2"	5	.27
440	1 x 5 3/4"	14	.36
450	1 3/4 x 3 3/4"	8	.45
460	1 3/4 x 5 1/4"	11	.51
470	1 3/4 x 8 3/8"	19	.72

"Your trade-in's worth more at the WALTER ASHE STORE"

MUELLER TEST CLIPS

WEE-PEE-WEE No. 88
No. 45 PEE WEE
No. 45-C Solid Copper

No. 48-B
No. 50-C Needle Clip

No. 51-C Solid Bronze
No. 27

No. 22 Steel
11 21
24 33

No. 85 or 85-C Clip with
No. 87 Insulator

No. 60

60-MS—STEEL ALLIGATOR CLIP
WITH INSULATED HANDLE
Colors, Red or Black

No. 60-S SCREW CONNECTION

NUMBER	LENGTH	STOCK	AMPS	NET		
				EACH	10	100
88	1 1/2"	Phos. Brz.	-	\$.19	\$ 1.27	\$ 10.78
43	1/2"	Steel Cad.	-	.07	.49	4.12
45C	1/2"	Sol. Cop.	-	.11	.78	6.47
48B	2"	Steel Cad.	-	.08	.54	4.51
48C	2"	Sol. Cop.	-	.13	.88	7.64
50C	2 1/4"	Sol. Brz.	-	.25	1.76	14.70
51C	2 1/4"	Sol. Brz.	-	.19	1.27	10.78
27	2 1/2"	Steel Cad.	-	.11	.78	6.57
27C	2 1/2"	Sol. Cop.	20	.19	1.27	11.27
24A	2-7/8"	Steel Lead	25	.16	1.08	9.31
24C	2-7/8"	Sol. Cop.	50	.28	1.96	16.66
21A	4"	Steel Lead	50	.30	2.06	17.64
21C	4"	Sol. Cop.	100	.71	5.00	43.12
85	2-1/8"	Steel Cad.	-	.08	.54	4.51
85C	2-1/8"	Sol. Cop.	-	.14	.98	8.23
60***	2"	Steel	-	.07	.49	4.12
60S**	2"	Steel	-	.08	.54	4.51
60CS**	2"	Sol. Cop.	-	.11	.75	6.47
60HS*	2-3/8"	Steel	-	.12	.82	7.06
60HS*	2-3/8"	Sol. Cop.	-	.16	1.08	9.11
22	2"	Steel Cad.	-	.10	.69	5.88
11A	6"	Steel Lead	100	.82	5.78	49.00
11C	6"	Sol. Cop.	200	1.37	9.60	82.32
33C	7 1/2"	Sol. Cop.	300	2.63	18.62	158.76

*Insulated Handle Screw Connection.
**Screw Connection.
***Solder Connection.

RUBBER INSULATORS FOR CLIPS



NUMBER	FOR CLIP	NET		
		EACH	10	100
13	11	\$.72	\$ 4.90	\$ 42.14
23	21	.39	2.65	22.54
26	24	.25	1.76	14.70
29	27	.17	1.18	10.09
35	33	1.72	11.76	100.94
47	45	.07	.49	4.12
49	48	.10	.69	5.88
62	60	.07	.49	4.12
87	85	.07	.49	4.12
93	88	.05	.34	3.24

ICA ALLIGATOR CLIPS WITH PHONE TIP JACK



Has standard phone tip jack in insulated sleeve. Takes phone tip or solderless tip.

No. 525-R	Red	Net Each \$	29
No. 525-B	Black		

CANNON ELECTRIC CONNECTORS

Cannon connectors feature the convenient latchlock device to hold connector tight. Light in weight. Polarized to eliminate error. Extensively used for microphones and similar connections. Contacts are 15 ampere. Zinc shell, finish bright nickel.

LINE CABLE TYPE

Number	Type	Contacts	Net
XL-3-11	Female	3	\$.91
XL-3-12	Male	3	.88

WALL RECEPTACLES

Number	Type	Contacts	Net
XL-3-13	Female	3	\$.91
XL-3-14	Male	3	.71

PANEL MOUNT RECEPTACLES

Number	Type	Contacts	Net
XL-3-13N	Female	3	\$.91
XL-3-14N	Male	3	.85

STEEL SHELL LINE CONNECTORS

Similar to types listed above but have steel shell which is built for rugged service. Will fit any of above receptacles.

Number	Type	Contacts	Net
XL-3-11SC	Female	3	\$ 2.60
XL-3-12SC	Male	3	1.97

MILLEN TWIN LEAD PLUG

Made of black bakelite for 300 ohm twinlead. Designed for amateur and television. Will fit Millen No. 33102 socket. Pins spaced .095". Shpg. Wgt. 4 oz.

No. 37412 Plug	\$.24
No. 33102 Socket for above	.36



Listed here are grid caps & heat radiators for every type of tube, both transmitting & receiving. Good contact on all is assured by fine spring action and tooling.

Number	Descr.	Net Ea.	Net 10	Net 100
TC-490	Cap 5/8"	\$.07	\$.63	\$ 6.25
TC-107	Cap 3/8"	.02	.15	1.32
TC-108	Metal Tube	.02	.13	1.08

No.	Lead	Fits Tubes	Net Ea
TC-488	.052"	3C24, 24, 24G, 25T, 27	\$.47
TC-487	.062	U150, HK24, 304B, 829B, 832A, 834	.41
TC-489	.072	55T, 3570, 75TH, HK254, HK257B, 484, 8001	.41
TC-1924	125	HK57, 1527H	.47
TC-1920	.375	4-125A, 150TH, 2-150D, 250R, 250TH, 250TL, etc	.47
TC-1925	125	304TH, 304TL	.59
TC-1921	.570	ZB60, HP60, HP100, 111H, 211H, 203H, HP175, etc.	.53
TC-1926	.810	WL468, WL463, WL460, HP200, HP201, HP300	.76
TC-1923	.110		.47



GRID AND PLATE CAPS

No. 12	No. 8	SPP-3
No. 24		SPP-9

No. SPP-9, Ceramic, for 9/16" Diam. Net \$.24
No. SPP-3, Ceramic, for 3/8" .24
No. 8, for 1/4" Clip .04
No. 12, for 9/16" Clip .07
No. 24, for 3/8" Clip .04

MILLEN CAPS

36011	36001-2-4
-------	-----------

No. 36011, Snap-Lock Type, insulated, for 9/16" cap. Net \$.69
No. 36001, Ceramic, 9/16" cap. .24
No. 36002, Ceramic, 3/8" cap. .24
No. 36004, Ceramic, 1/4" cap. .24

3A1	CINCH	3A2
-----	-------	-----

No. 3A1, For diheptal based tubes. Cad plated brass contact surrounded by rubber insulator 3/4" wide by 1 3/16" long. Snaps over .096 diam. prong on side of tube. Net Each \$.56
No. 3A2, Silver plated snap button type for television tubes. Snaps into side of tube. Well insulated by 1" rubber cap. 12" lead. Net Each \$.67

SPRING CONNECTOR CLIPS (FAHNESTOCK TYPE)

Number	Length	Style	Net		
			Each	10	For 100 For
533	3/4"	Single	\$.02	\$.15	\$ 1.08
534	1"	Single	.02	.15	1.32
9-C	1 3/4"	Double	.06	.54	4.65

KINGS Electronics



Y CONNECTOR, 2 mole and 1 female. Fits standard mike fittings.
NO. M-140, Net.....\$ 1.03
DOUBLE MALE CONNECTOR, Solid silver plated contacts.
NO. M-190, Net.....\$.42
DOUBLE FEMALE CONNECTOR, With 2 coupling nuts. Mates standard mole conn.
NO. M-192, Net.....\$.48

AUTO CONNECTORS

2347	2348
------	------

Number	Description	Net
2347	Antenna	\$.08
2348	Fuse Holder	.12

STORE HOURS:

9:00 A. M. to 5:30 P. M.
Monday through Saturday

CONNECTORS - BINDING POSTS

CON



SUPERIOR 5-Way BINDING POST

High quality binding posts of phenolic construction. Used in labs, schools, and industry. Offers complete insulation. Current capacity 30 amps, working voltage 1000. Removable head. Takes up to No. 12 wire in center hole. Has banana jack in head. Takes open or closed lug under head. Fits panel up to 1/4". Brass core and nuts. Colors: red or black. Specify.

NO. DF-30. Net Each.....\$.40
NO. DF-30. Net per 100..... 34.00



EB Y BINDING POSTS

NO. 37

NO. 14

NO. 37 ENSIGN. Molded bakelite knob and base. Non-removable head, brass insert, no marking. 1/2 thread. Shpg. Wgt. 2 oz. Net.....\$.23
NO. 14 SERGEANT. All metal binding post. Non-removable head. 1/2 thread. Net...\$.29
NO. 8127 BINDING POST KNOB ONLY. Tapped for 1/2 screw. Shpg. Wgt. 1 oz. Net.....\$.06

ICA BINDING POSTS



Types 622-623. Molded, knurled grip, non-removable top. Standard receptacle for banana plug on top. Hole under screw top for wire or phone tip.

No. 622 - Red Net Each \$.24
No. 623 - Black Net Each \$.24

Types 617-618. Bakelite body with removable head. 9/16 diameter head with 8/32 brass threaded insert, nickel-plated screw and knurled nut.

No. 617 - Red Net Each \$.15
No. 618 - Black Net Each \$.15

No. 620. All metal binding post. Nickel-plated, brass finish. Net Each \$.21

MILLEN

RIGHT ANGLE DRIVE & COUPLINGS



Extremely compact, case size 1 1/2" x 1 1/2" x 1 1/2". Mounts on standoff rods, panel bushing or tapped holes in frame. Shpg. Wgt. 3/4 lbs. No. 10012 Net \$ 4.20

No. 39001 "truly-flexible" isolantite coupling. Fur 1/2" shaft. Net \$.48

No. 39002 - Steatite 1/2" coupling Net \$.48

No. 39005 - Universal joint, non-insulated. Net \$.48

No. 39006 - Slide action. Steatite 1/2" coupling. Net \$.48

JOHNSON INDUCTOR CLIPS



235-804 is plated phosphor bronze and is designed to make connection to edgewise wound inductors. 235-860 takes wire from 20 to 10 without moving and shorting adjacent turns.

NO. 235-804. Net.....\$ 5.22
NO. 235-860. Net.....\$ 11

NATIONAL



TYPE FWH TERMINAL STRIP. Insulators are made R-39 with serrated bases; will grip thinnest panel. Net.....\$.76

TYPE FWJ JACK ASSEMBLY. Same insulators as on FWH strip. Has banana jacks. Net.....\$.62

TYPE FWT BANANA PLUG. Will fit into FWJ. Jack on top will accept additional FWT. Mica-filled bakelite body. Leads can be brought direct from plug above or through hole at bottom. Net.....\$ 1.14



Type	Net
FWE Brass jack, nickel-plated.	\$.17
FWA Brass post, nickel-plated.	.23
FWC Insulator strip - Per Pair	.28

NATIONAL SHAFT COUPLINGS



Flexible couplings with glazed steatite insulation which fits 1/4" shafts.

TX-2 Leakage Path 2-1/2" .86

A deluxe insulated flexible coupling designed for coupling 1/4" shafts. Will handle a maximum radial misalignment of 1/16" also 24 maximum angular misalignment.

TX-23 Net \$ 1.33
Same as TX-23, non-insulated.

TX-25 Net \$ 1.53
A non-flexible rigid coupling with steatite insulation. 1" diam. Fits 1/4" shaft.

TX-8 Net \$.69

A very compact insulated coupling free from backlash. Insulation is canvas bakelite. 1-1/16" diam. Fits 1/4" shaft.

TX-10 Net \$.46

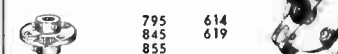
A non-insulated coupling identical to TX-10 except all metal construction. Makes good electrical connection between coupled shafts.

TX-22 Net \$.46

This small insulated flexible coupling provides high electrical efficiency when used to isolate circuits. Insulation is steatite. 1-5/8" diam. Fits 1/4" shaft.

TX-9 Net \$.86

BUD FLEXIBLE COUPLINGS



Number	Insulation	Diameter	Net
FC-795	Ceramic	1 1/16"	\$.47
FC-845	Bakelite	1 1/16"	.32
FC-855	Bakelite	1 1/2"	.38

HIGH VOLTAGE TYPE

String construction permits wide gap between shaft connections.

FC-614 Steatite 1 1/2" \$.73
FC-619 Bakelite 1 1/2" .67

AMPHENOL

QWIK CONNECTORS



Slight thumb pressure on button quickly disconnects. Polarized to prevent misating. For mike uses, etc. Available in 3 or 4 contacts. Gold-plated contacts.

No.	Type	Net
91-853	Male Plug	\$.91
91-854	Female Plug	1.12
91-855	Male Receptacle	.68
91-856	Female Receptacle	1.35

4 CONTACT		
No.	Type	Net
91-857	Male Plug	.91
91-858	Female Plug	1.23
91-859	Male Receptacle	.68
91-860	Female Receptacle	1.50

BUD COUPLINGS, PANEL BEARINGS, ROD

Number	Description	Net
BRASS		
SE-1019	1/4" coupling	\$.20
SE-1050	3/8" coupling	.25
SE-1051	1/4 to 3/8" coupling	.25
SE-1052	1/4 male to 1/4 female	.25
SE-1053	3/8 female to 1/4 male	.28
SE-1054	1/4 female to 3/8 male	.28
SE-1056	1/4 x 6 shaft	.17
SE-796	1/4 x 12 shaft	.32

INSULATED		
Number	Description	Net
SE-1206	1/4" coupling	\$.20
SE-1207	3/8" coupling	.25
SE-1208	1/4 to 3/8 coupling	.25
SE-1209	1/4 male to 1/4 female	.22
SE-1210	3/8 female to 1/4 male	.25
SE-1211	1/4 female to 3/8 male	.25
SE-1055	1/4 x 6 fiber shaft	.25
SE-797	1/4 x 12 fiber shaft	.35
SE-1978	1/4 x 6 bakelite shaft	.39
SE-1979	1/4 x 12 bakelite shaft	.65

PB-530 Bearing with 1/2" brass shaft \$.44
PB-531 Bearing with 3/8" brass shaft .35
PB-532 Bearing only .15

PHILMORE CRYSTAL SETS DETECTORS AND CRYSTALS



7000 7001 7003



7008 7002 7010

Supersensitive type, works in all circuits requiring mineral crystal.

Number	Type	Approx. Net Shpg. Wt. Each	Net
7002	Fixed Detector	3 oz.	\$.65
7003	Open type holder, with crystal.	3 oz.	.27
7010	Open type holder, less crystal.	3 oz.	.17
7008	Closed type holder, with crystal.	3 oz.	.41
7005	Sensitive crystal only.	2 oz.	.13

7000. Open type detector permits fine sensitive adjustments over entire surface of crystal. Bakelite base. Shpg. Wgt. 1 lb. Net \$ 1.14

7001. Loud clear signals, no distortion or noise. Supersensitive enclosed crystal Bakelite base. Shpg. Wgt. 1 lb. Net \$ 1.46

CLOCKS - CALL LETTER PINS - FUSES

BUSS Fuses and Holders

Size: 1/4" x 1 1/4"

Number	Amps	Net Each	Net Per Box - 5
AGC (3AG)	1/8, 1/4, 3/8, 1/2 or 3/4	\$.09	\$.37
AGC (3AG)	1, 1 1/2, 2 or 3	.04	.18
AGC (3AG)	5, 6 or 7 1/2	.03	.13
AGC (3AG)	10 or 15	.02	.10
AGC (3AG)	25 or 30	.03	.13

Size: 1/4" x 1"

AGX (8AG)	AGX (8AG)	AGX (8AG)	Net Each	Net Per Box - 5
1/4, 3/8, 1/2 or 3/4	1 1/2, 2 or 3	1 1/2, 2 or 3	\$.07	\$.32
			.06	.27
			.03	.14

SFE-4	SFE-6	SFE-9	SFE-14	SFE-20	SFE-30	Net Each	Net Per Box - 5
4	6	9	14	20	30	\$.03	\$.13
5/8	3/4	7/8	1-1/16	1-1/4	1-7/16	.03	.13
						.03	.13
						.03	.13
						.04	.18

FAST ACTING INSTRUMENT FUSES

Size: 1/4" x 1"

MJB-1/500	MJB-1/200	MJB-1/100	MJB-1/32	MJN-1/16	Net Each	Net Per Box - 5
1/500	1/200	1/100	1/32	1/16	\$.41	\$ 1.81
					.18	.79
					.12	.53
					.12	.53
					.09	.39

BUSS FUSETRONS, 1/4 x 1 1/4 inch

TYPE MDL. Avoid needless blows from starting currents or surges. Fuse link operates only at high overloads or short circuits.

1/100, 1/32, 1/16, 1/10, 15/100,	Net Each \$.15
2/10, 3/10, 4/10, 1/2, 6/10,	Box of 5 .63
8/10, 1 amp	
1-1/4, 1-6/10, 2, 2-1/2, 2-8/10,	Net Each \$.12
3-2, 4, 5, 6, 25, 8, 10, 15, 20,	Box of 5 .55
25, 30 amps	

BUSS Twin-Clips

NO. 4121. Buss twin clips, bridge the blown pigtail fuse without cutting or unsoldering pigtails. No soldering iron needed. Clips are made of spring bronze, nickel-plated. Strong spring clip pressure assures good contact. Takes any 1/4x1 1/4 ordinary or Fusetron fuse.

Net per pair \$.09

NO. 8618 TV SNAP-IN FUSE CLIPS. To replace soldered in burned out fuses without soldering. Snap fuse clip over burned out fuse and insert new fuse. Insulated.

NO. 8618 Net \$.18

FUSE HOLDERS

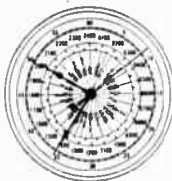
Number	For Fuse	Net
HCM	1 1/4" fuses, 1R amps	\$.35
HKP	1 1/4 " " 15 "	.22
HJM	1 " " 15 "	.22
4551	1 3/32 " " "	.05
4548	1/4 " " "	.02
4520	bakelite base, Single 1"	.09
4485	" " Double 1"	.18
4405	" " Single 1 1/4"	.09
4408	" " Double 1 1/4"	.18
2348	Auto fuse holder	.12
1059	meter back mounting	.15

FUSE BLOCKS

4520	4403
4551	4548
4548	1059

2400-HOUR CLOCK

WORLD-WIDE TIME



An ideal clock for the ham or anyone dealing in 2400-hour time. A quick and accurate way to read the time anywhere in the world in the various international time zones. Motor is synchronous self-starting type. Case is 10" in diameter, grey wrinkle finish. Chrome-plated bezel. Hands are black, red sweep second hand. For operation on 110 volt AC 60 cycle. Shpg. Wgt. 6 lbs.

MODEL TD-2400. Net.....\$15.00

24 HOUR CLOCK



PENNWOOD 24-HOUR CLOCK

24-hour clock ideal for amateur contests and any uses where the right time is required at a glance. Has separate dials for hours, minutes, and seconds. Self-starting motor. Size: 7"x3"x4". Operates on 110-120 VAC 60 cycle. Shpg. Wgt. 3 lbs.

MODEL 100-J-24H 1/2 Ebony. Net.....\$ 16.20

TIME-ALL APPLIANCE TIMER



Makes Appliances Fully Automatic
A 24-hour time control switch for the home or business. Controls radios, fans, coffee makers, heaters, lights, roasters, refrigerators (defrost), and almost any other kind of electrical appliance. Has manual control that permits temporary or permanent on-off control of appliances. Minimum "ON" time one-half hour; maximum 23 hours. Minimum "OFF" time one hour; maximum 23 1/2 hours. Appliances plug into receptacle on timer. Handles up to 1650 watts. Holes in back of case for wall mounting. Complete with 6-ft. cord set and instructions. Attractive grey plastic case, size 5x4x2 1/2". For 110-120 VAC 60 cycle operation. Shpg. Wgt. 2 lbs.

MODEL A211. Net.....\$ 7.97



LINE FUSE HOLDER

Bakelite body line fuse, 19" #14 wire. Complete with fuse.

HRLJ	SFE 20 amp fuse	Net \$.20
HRI	SFE 14 amp fuse	.20
HRI	SFE 9 amp fuse	.20

ALTO-METAL PRODUCTS

CALL LETTER LAPEL BUTTONS

W4HUG-XYL



B-61 Standard lapel button of 4 or 5 letters. Net Each.....\$ 1.35
B-62 Either type as listed, up to 8 letters. Net Each.....\$ 1.50
B-63 2 lines; BC or ham call and affiliation. Net Each.....\$ 2.00
B-64 Microphone with up to 4 letter call. Net Each.....\$ 2.00
SPECIFY PIN OR BUTTON TYPE.

GOLD PLATED SILHOUETTE CALL LETTER PINS



Gold-plated call letters silhouetted on an enameled black bar. B-72 for 4 or 5 letter calls - B-71 for longer calls such as W4KQ-TV or W2AMP-XYL. Price includes 5 letters only. Additional letters, dashes, etc. - \$2.00 extra for each character on each pin. Specify pin or button type. Net Each.....\$ 2.50
Extra Characters - Net Each.....\$ 2.00
WRITE FOR QUANTITY DISCOUNT.

AUTO LICENSE CALL PLATES



STYLE 1-A. For auto license plates, size 2 1/2 x 8 1/2 2 lug mounting, up to 5 1/2" letters. Net.....\$ 3.00
STYLE 2-A. Same as above but with network or affiliated call on side. Total of 10 letters. Net.....\$ 3.50

CALL LETTER MICROPHONE PLATES



RCA-77 WE-633A WE-639A SHURE 55
RCA-77 - Top plate. Net \$ 9.50
RCA-77 - Side plates, per pair. 4.50
WE-633A 10.00
WE-639 - Top and side plates complete. 14.00
SHURE 55 - Top and side plates, " 14.00
WE-630A 10.00
E-V 725, 726, 730, AND 731 - Top and side plates complete. 14.00
E-V 630 AND 635 10.00
E-V 950 - Top plate and side plates complete. 14.00
RCA-44 - Top plate. 9.50
RCA-44 - Side plates, per pair. 4.50
RCA-74 - Top plate. 9.50
RCA-74 - Side plates, per pair. 4.50

25% DEPOSIT REQUIRED ON ALL ORDERS FOR ALL CALL LETTER PINS, MICROPHONE PLATES, AND AUTO LICENSE CALL PLATES. ORDERS ARE NON-CANCELLABLE. DELIVERY EIGHT TO TWELVE WEEKS.

CRYSTALS AMATEUR - GERMANIUM

CRY

SYLVANIA

GERMANIUM DIODES



Crystal diodes give superior performance at HF. Used for detectors, restorers in TV sets and FM discriminators.

1N34	General purpose diode, single unit.	Net \$.80
1N34A	(Glass)	.90
1N35	Twin-matched diode 1N34's.	2.20
1N38	100V back voltage.	1.80
1N39	200V back voltage.	3.95
1N54	Low level, high efficiency.	1.10
1N55	150V diode.	2.20
1N56	High conductivity.	1.05
1N58	100V diode.	1.30
1N82	700 MC mixer.	.90

VARISTORS

1N40	12.25
1N41	11.50
1N42	17.25

BOOK - FORTY USES FOR THE GERMANIUM DIODE .25

WELDED GERMANIUM DIODES



Electrical stability is insured by welding the platinum whisker directly to the germanium pellet preventing loss of contact due to vibration or shock. Size: 1/4"x1/2". Life expectancy 10,000 hours under rated conditions.

Number	Type	Net
IN-48	General purpose	\$.66
IN-51	General purpose	.51
IN-52	General purpose	1.40
IN-63	General purpose	3.07
IN-64	Television type diode	.47
IN-65	Television type diode	.67
IN-69	(G5K) To JAN Specs.	.90
IN-70	(G5L) To JAN Specs.	2.40
IN-72	Mixer	.86



Transistors

NO. 2N32 POINT-CONTACT TRANSISTOR. Intended for large-signal applications such as in pulse or switching circuits. Has 21 DB power gain at 5000 cy. with 500 ohm input impedance and 10,000 ohm output impedance. Plastic case size .320x.240" Net \$ 12.25

NO. 2N33 POINT-CONTACT TRANSISTOR. Intended for oscillator service at frequencies up to 50 MC. Has 21 DB power gain at 5000 cy. with 500 ohm input impedance and 10,000 ohm output impedance. Plastic case size .320x.240" Net \$ 12.25

NO. 2N34 JUNCTION TRANSISTOR. P-N-P type designed for low power, audio frequency applications. Has power gain of 40 DB at 5000 cy. with input impedance of 500 ohms, output impedance of 30,000 ohms. Plastic case size .32x.165". Net \$ 10.75

MILLEN



CRYSTAL SOCKETS

NO. 33002	3/8" spacing, .125 pins.	\$.36
NO. 33102	Crystal socket, .487 spacing, .095 pins.	.36
NO. 33202	Crystal socket, 1/2" spacing, .125 pins.	.36
NO. 33302	For 29 crystal.	.24



PNP

GERMANIUM JUNCTION

TRANSISTORS

Junction transistors in glass and plastic case, size only 1/2" by 1/4", wire leads. Connections are made directly to leads, no sockets necessary. Used for voltage amplifiers and many other applications, are extremely rugged and compact. Need no filament supply and consume only 1/1000 as much current as vacuum tube doing similar work. Exceptionally long life, 70,000 to 90,000 hours, approximately 10 years. Shpg. Wt. 3 oz.

AVERAGE GAIN CHARACTERISTICS (30° C.)

	CK-721	CK-722
Collector Voltage (V)	-1.5	-1.5
Collector Current (MA)	-0.5	-0.5
Base Current* (UA)	-6.0	-20.0
Cur. Amp. Factor*	40.0	12.0
Power Gain* (DB)	38.0	30.0
Noise Factor* (1KC) (DB)	22.0	22.0

*Grounded emitter Connection

TYPE CK-721 TRANSISTOR Net \$ 7.90
TYPE CK-722 TRANSISTOR 4.50



KV-3



CF-3



AX-2

TYPE AX-2. Highly stable, low drift plated crystals mounted in dust-proof holders. Pins have .093" diameter, spaced on .486" centers. Advise if we may supply crystals at closest frequency from our stock for immediate delivery. Approx. Shpg. Wgt. 12 oz.
AX-2. 3500-4000 KC. Net.....\$ 2.95
AX-2. 7000-7425 KC.....\$ 2.95
AX-2. 8000-9000 KC.....\$ 2.95

ABOVE CRYSTALS AVAILABLE IN EXACT FREQUENCY AT SAME PRICE WITH DELIVERY WITHIN FOUR TO SIX WEEKS.

AX-2. 14-14.50 MC (±10 KC). Net....\$ 3.95

KV-3. 100 KC frequency standard. Low drift. Pins have .093" diameter, spaced at .486". Net.....\$ 8.50

CF-3. 455 KC single signal filter crystal unit. For IF filter in receivers. Pins have .125" diameter, spaced at .750". Net \$5.00

MOSLEY



CRYSTAL HOLDER ADAPTERS

NO. 75-3 receives 3/4" spaced crystal holder and will fit octal socket. Shpg. Wgt. 2 oz. Net \$.35

NO. 5-75 receives 1/2" spaced crystal holder and fits any 6-prong socket. Shpg. Wgt. 2 oz. Net \$.35



AMPHENOL CRYSTAL SOCKETS

For 3/4" pin spacing.

33-2T	For 1/8" prongs	Mica	\$.10
33-3T	For 5/32" prongs	Mica	.10
33-2	For 1/8" prongs	Bakelite	.06

Precision Crystals



Low drift, high activity and stability. 1/2" pin spacing. Accuracy: .01% or better. Advise when ordering if we may supply closest frequency from stock for immediate shipment.

AMATEUR BANDS

TYPE	BAND	NET
Z-2	160, 80, 40 Meters	\$ 2.89
Z-3	20 Meters	3.87

ABOVE CRYSTALS AVAILABLE IN EXACT FREQUENCIES AT THE SAME PRICES AND REQUIRE FOUR TO SIX WEEKS DELIVERY.

SPECIAL CRYSTALS OUTSIDE AMATEUR BANDS SUITABLE FOR CONVERTERS, EXPERIMENTAL, ETC.

TYPE	RANGE	NET
2XP	1600-12000 KC (±5 KC)	\$ 3.87
2XP	12001-25000 KC (±10 KC)	4.90

FOR EXACT FREQUENCIES OUTSIDE THE HAM BANDS, SEE COMMERCIAL LISTING.

CAP CRYSTALS

2374 KC	4507.5 KC	
4325 KC	4535 KC	Net Each \$ 3.87

MARS CRYSTALS

2230.0 KC	4020.0 KC	4085.0 KC
2258.0 KC	4025.0 KC	5500.0 KC
2310.0 KC	4080.0 KC	5760.0 KC
2360.0 KC		

Above Frequencies, Net Each \$ 3.87

COMMERCIAL

Commercial crystals .005% tolerance, .486" pin spacing. Delivery eight to twelve weeks upon receipt of your order. Specify frequency

TYPE	RANGE	NET
Z-1 Fundamental	900-1600 KC	\$ 9.70
Z-1 Fundamental	1601-12000 KC	8.05
Z-1 Harmonic	12001-20000 KC	9.70

AIRCRAFT

Z-1 3023.5 KC (.005%) Net \$ 3.87
For other frequencies, see Commercial types.

CRYSTALS FOR RADIO CONTROLLED OBJECTS
Z-9A 27.255 MC (.04%) Net \$ 4.90

DUAL FREQUENCY STANDARD

VALPEY



Unit incorporates two separate quartz crystals entirely independent of each other but designed that frequency stability and zero frequency adjustment are equal on 100 and 1000 KC. Separate oscillators may be used, thus furnishing 100 and 1000 KC signals simultaneously.

MODEL DFS. Net.....\$ 8.95

EBY TRANSISTOR SOCKET



Low loss phenolic casting, 3 contacts of beryllium copper silver-plated tin-dipped to facilitate soldering. Supplied with push on mounting bracket.

NO. SM-3. Net.....\$ 2.7

"Your trade-in's worth more at the WALTER ASHE STORE" 93



**MILLEN
PRECISION
DIALS**



10035

10039

No. 10035 Dial - Provision for adding two small controls on side knobs. Escutcheon removable without disturbing dial mechanism. Ratio 8:1. Size: 8 $\frac{1}{2}$ "x6". Shpg. Wgt. 3 lbs. Net \$ 6.75

No. 10039 Dial - Ratio 8:1. Size: 4x3 $\frac{1}{2}$ ". Smaller version of No. 10035. Shpg. Wgt. 2 lbs. Net \$ 3.00



MILLEN SHAFT LOCKS

For $\frac{1}{4}$ " shafts



No. 10061 - Mounting nut for potentiometer, etc. Net \$.42

No. 10062 - With knurled knob control. Net \$.51



**BUD PRECISION TUNING DIAL
(Vernier Indicator)**

Vernier indicator type which may be used on condensers which rotate clockwise or counter-clockwise, 0-100-0. Large finger grip knob for $\frac{1}{4}$ " shaft. Complete with indicator enabling readings of 1/10 of 1 division.

Number	Diameter	Shpg. Wgt.	Net
D-1895	2 3/4"	1 $\frac{1}{2}$ lbs.	\$ 1.32
D-1897	4"	1 $\frac{1}{2}$ lbs.	1.76



BUD FRICTION-DRIVE VERNIER DIAL

Calibrated 0-100 clockwise, 360° glossy black enamel. White rim & numerals. For $\frac{1}{4}$ " shaft. Includes single line indicator and black wheel knob. Shpg. Wgt. 1 $\frac{1}{2}$ lbs.

Number	Diameter	Net
D-1944	2 3/4"	\$ 1.76
D-1945	4	2.00
D-1949	Vernier Dial Drive	.44

GORDON



Number	Size	Metal Pointer	Net
308	3 1/4	Yes	\$ 1.27
309	3 1/4	No	1.22
310	2 1/4	Yes	1.13
311	2 1/4	No	1.08
312	1 5/8	Yes	.78
313	1 5/8	No	.73
314	1 1/8	Yes	.78
315	1 1/8	No	.69

HAND WHEELS WITH SCALE

Number	Wheel Size	Scale Size	Net
300	3 1/4	5 1/4	\$ 2.94
301	2 1/4	3 5/8	2.30
320	1 5/8	3 5/8	1.91
321	1 1/8	2 1/8 180°	1.67
322	1 1/8	2 1/8 270°	1.67

CRONAME



231



232



233



234

Locate knob where you wish; bottom, top or sides.

No. 231. Size, 2 $\frac{1}{2}$ "x4 $\frac{1}{4}$ ". Antique bronze finish. Ratio 13:1 in 360°. 2 band. Shpg. Wgt. 1 lb. Net \$ 5.56

No. 232. Same as above but 2 9/16"x6 1/16". Ratio 16:1. Shpg. Wgt. 2 lbs. Net \$ 5.85

No. 233. Same as above but 3 5/32"x6 5/8". Ratio 18:1. Shpg. Wgt. 2 lbs. Net \$ 6.29

No. 234. Outside dimensions of escutcheon: 3 1/16"x8 7/16". Inside: 1 7/8"x7 $\frac{1}{4}$ ". Antique bronze finish. Scales: 6-18 MC, 55-1700 KC, 100-0. Shpg. Wgt. 2 lbs. Net \$ 6.41



BLACK BAKELITE

For 1/4" shaft

PLAIN KNOB

Number	Size	Net
6537	1 1/8	\$.26
6538	1 3/8	.28
6539	1 5/8	.34
6549	2 3/8	.48

POINTER KNOB

6566	1 1/8	\$.41
6571	1 3/8	.53
6570	1 5/8	.50
6559	2 3/8	.71

KNOB AND SKIRT

6545	1 1/2	\$.41
6548	1 3/4	.41
6549	2 1/16	.53
6550	3	.65



Rectangular control plates calibrated 0-10 in 300°. Size: 2-1/4x1-11/16".

Number	Number	Number
276	Gain	578
277	Tone	579
565	Record	580
566	Microphone	585
570	Master Gain	586
571	No Title	587
577	Microphone 1	588

Microphone 2
Exciter
Monitor
Bass
Treble
Phono
Volume

Any above plates, Net \$.19



Precision test dial, Calibrated in degrees through 360. Etched on heavy brass with black graduations and figures on hand-spun chromium background. Hub has two set screws and fits 3/8" shaft. Diameter of dial is 6", indicator is 1/2".

No. 27010 Net \$ 5.85

**No. 27010
AZIMUTH DIAL**



Chrome Silver

Number	Degrees	Size	Calibration	Net
2294	180°	2"	0-100	\$.57
2295	325°	2	0-100	.57
2296	180°	3 $\frac{1}{2}$ "	0-100	.90
2297	325°	3 $\frac{1}{2}$ "	0-100	.90
2298	180°	4	0-100	.98

Black Satin Finish

2236	180°	2	0-100	\$.36
2233	180°	2	100-0	.36
2234	325°	2	0-100	.36
2232	180°	3 $\frac{1}{2}$ "	0-100	.46
2230	325°	3 1/8	0-100	.46

CRONAME

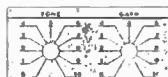


**Aluminum Single Horizontal Plates
2 3/16" H. - 2 5/8" W.**

Number	Marking	Net
410	Without title	0-10 \$.29
411	Tune	0-10 .29
412	Gain	0-10 .29
413	Master Gain	0-10 .29
414	Record	0-10 .29
415	Microphone	0-10 .29
416	Microphone 1,	0-10 .29
417	Microphone 2,	0-10 .29
422	Gain	5-0-5 .29
423	Increase with Arrow	.29
424	Radio-Micro,	5-0-5 .29
425	Record-Micro,	5-0-5 .29
426	Volume	0-10 .29
427	Fader	5-0-5 .29
428	Bass	5-0-5 .29
429	Treble	5-0-5 .29
430	Expansion	0-10 .29
446	Phono	0-10 .29
447	Bass	0-10 .29
448	Treble	0-10 .29
440	"Indicator"	.97

**Aluminum Single Vertical Plates
2 5/8" H - 2 3/16" W.**

Number	Marking	Net
435	"Indicator"	\$.97
436	Gain	0-10 .29
437	Gain	5-0-5 .29
438	Switch	1-2-3 .29
439	Tone	0-10 .29
442	Bass	0-10 .29
443	Treble	0-10 .29
444	Phono	0-10 .29
445	Attenuator	.29



**Aluminum Double Horizontal Plates
2 3/16" H - 5" W**

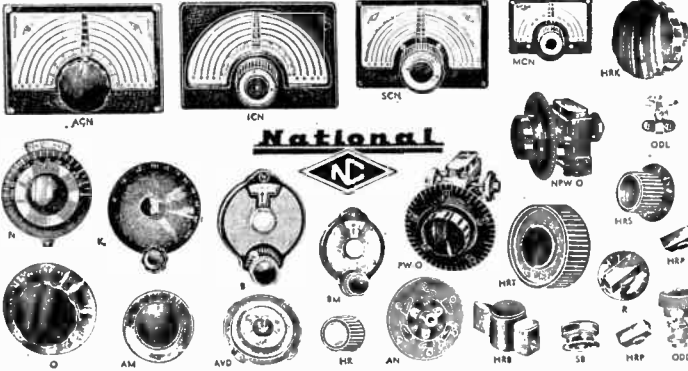
Number	Marking	Net	
418	Tune	0-10; Gain	0-10 \$.62
419	Record	0-10; Micro	0-10 .62
420	Micro	1, 0-10; Micro	2, 0-10.62

**Aluminum Quadruple Plates
2 3/13" H - 9 1/2" W**

421	Micro	0-10; Records	0-10	Master Gain	0-10; Tone	0-10	Net \$.91
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DIALS AND KNOBS

DIA



National

ACN DIAL - Original National design for the benefit of experimenters who build their own and desire direct calibration. 5 blank logging scales with 0-100 reading. Size: 5-1/8" Hx7-1/4" W. Shpg. Wgt. 3 lbs. Net \$ 3.80

ICN DIAL - Similar to ACN dial but is illuminated at top with two pilot lights. Dial window is blanked out in semi-circular shape to prevent shadow-casting. Dial scales are the same as ACN. Size: 5-1/8" Hx7-1/4" W. Shpg. Wgt. 3 lbs. Net \$ 6.90

SCN DIAL - Provides the same dial scales as Model ACN but smaller size. Size: 4-7/16" Hx6-1/4" W. Shpg. Wgt. 2 lbs. Net \$ 3.45

MCN DIAL - For use in mobile installations, small converters, etc. Mounts on standard 3-1/2" rack panel if desired. Has 3 calibrating scales and 0-100 logging scale. Size: 2-3/4" Hx3-7/8" W. Shpg. Wgt. 2 lbs. Net \$ 3.11

BM DIAL - Smaller version of B dial for use where space is limited. Fixed drive ratio. For 1/4" shaft. 3" diameter. Available in scale 1 or 5, specify scale wanted. Shpg. Wgt. 1 lb. Net \$ 2.42

B DIAL - "Velvet Vernier" dial type B has a compact variable ratio of 6-1 minimum, 20-1 maximum drive that is smooth and trouble-free. Black bakelite case. For 1/4" shaft. 4" diameter. Available in 1 scale. Net \$ 3.11

HRK KNOB - Black bakelite knob 2-3/8" in diameter. Net \$.66

HRP-P KNOB - Black bakelite knob. 1 1/2" long and 1/2" wide. Equipped with pointer. Fits 1/4" shaft. Net \$.28

HRS KNOBS - 1-3/8" D. Chrome-plated bevel skirts. For 1/4" shafts. Black or grey.
HRS-3 0-10, 300° rotation. Net \$.58
HRS-4 Single etched line. .58
HRS-5 0-10 thru 150°. .58

HRT KNOB - Black or grey color plastic with chrome appearance circle. For 1/4" shaft. Size 2-1/8" diameter. Net \$.86

HRT-N KNOB - Smaller version of the HRT knob. Size 1-7/16" in diameter. Available in black or grey. Net \$.58

RSL - Rotor shaft lock for AMT, PWA, TWC etc. condensers. For 1/4" shaft. Net \$.66

SE - Nickel-plated brass bushing. 1/2" diameter. For 1/4" shaft. Net \$.21

ODL - Locking device which clamps on rim of O, K, L and M dials. Brass nickel-plated. Net \$.38

ODD - Vernier pinch drive for O, L or other plain dials. Net \$.48

K DIAL - Same as O dial except less knob complete with ODD vernier drive. Scale 2 only. Shpg. Wgt. 3/4 lb. Net \$ 1.73

N DIAL - A 4" satin chrome metal dial with a decimal vernier. Planetary drive has ratio of 5-1, contained within body of the dial. For 1/2" shaft. Available in 2, 3, 4 or 5 scale, specify scale wanted. Shpg. Wgt. 2 lbs. Net \$ 3.18

PW-0 DRIVE MECHANISM - Micrometer dial reads direct to one part in 500. Division lines are approximately 1/4" apart and drive at midpoint of the rotor is through a pre-loaded worm gear with 20-1 ratio. Each rotor is individually insulated from the frame, each has its own individual rotor contact. Drive shaft parallel to panel. Two TX-9 couplings supplied. Shpg. Wgt. 3 lbs. Net \$ 25.74

NPW-0 DRIVE MECHANISM - Similar to Model PW-0 but drive shaft is perpendicular. One TX-9 coupling is supplied. Shpg. Wgt. 3 lbs. Net \$ 20.45

O DIAL - 3 1/2" diameter, scale 2, with HRK knob, fits 1/4" shaft. Shpg. Wgt. 3/4 lb. Net \$ 1.15

AM DIAL - Original "Velvet Vernier" mechanism in a metal skirted dial 3" in diameter. Ratio 5-1. For 1/4" shaft. Available in 2, 3, 4, 5 or 6 scale, specify scale wanted. Shpg. Wgt. 1 lb. Net \$ 2.59

HRP KNOB - Same as HRP-P but has no pointer. Fits 1/4" shaft. Net \$.21

HR KNOB - Same as HRS without chrome-plated skirt. Black or grey. Net \$.35

HRB KNOB - Ideal for bandswitching. For 1/4" shaft. Net \$.52

R KNOB - Calibrated 0-10 in 180°. For 1-5/8" D. Black bakelite knob. For 1/4" shaft. Net \$.69

AN VERNIER MECHANISM - Ratio 5-1, has insulated output shaft coupling for 1/4" shaft. Drive shaft fits 3/16" knob. Net \$ 2.07

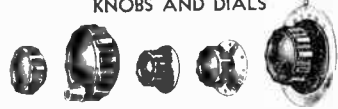
AVD VERNIER MECHANISM - Similar to AN mechanism but output shaft coupling is not insulated. Net \$ 1.94

NATIONAL DIAL SCALES

Scale	Division	Rotation
1	0-100-0	180°
2	0-100	180°
3	100-0	180°
4	150-0	270°
5	200-0	360°
6	0-150	270°

E. F. JOHNSON

KNOBS AND DIALS



Distinctive line of matching knobs and dials. Tough, scratch resistant black phenolic used for all molded parts. Metal dial scales have etched satin chrome finish. Brass inserts fit 1/4" shaft.

KNOBS

Number	Size	Net
116-220	1 1/2" Black	\$.29
116-260	1 5/8" Black	.39
116-280	2 1/4" Black	.59

SPINNER KNOBS

116-226	1 1/2" Black	\$.56
116-266	1 5/8" Black	.67
116-286	2 1/4" Black	.82

SKIRTED KNOBS

116-221	1 1/2" Dia., 1 1/2" Skirt	\$.54
116-261	1 5/8" Dia., 2 1/8" Skirt	.67
116-281	2 1/4" Dia., 3" Skirt	.82

INSTRUMENT KNOBS

May be used as finger knob or mounted through panel. 1/16" long.

116-214-1	For 1/4" Shaft	\$.33
116-214-2	For 3/8" Shaft	.33

DIALS

1 1/2" bevelled satin chrome scale with 1/4" knob.

116-222-1	100-0 over 180°	\$.56
116-222-2	10-0 over 270°	.56
116-222-3	7-1 over 180°	.56
116-222-4	On-Off over 60°	.56
116-222-5	Line Indication.	.56
116-262	2 1/2" satin chrome scale 0-100 over 180°	1.40
116-282	4" satin chrome scale 0-100 over 180°	2.00

VERNIER DIALS

116-265	2 1/2" satin chrome scale 0-100 over 180° with 3-1 friction vernier drive.	\$ 3.00
116-285	4" satin chrome scale 0-100 over 180° with 5-1 friction vernier drive.	3.60



JOHNSON COUNTER DIAL

A positive, calibrated drive for gear reduction assemblies and rotary variable inductors. Available with and without lock. Spinner knob, black phenolic escutcheon. Counter will record up to 99 turns. Vernier dial calibrated 0-100 over 360°, making possible accurate return to any predetermined setting.

MODEL 116-208-1	With Lock	Net \$ 10.88
MODEL 116-208-4	Less Lock	9.60

NATIONAL SHAFT LOCK



Fits potentiometer, rheostat shafts. Locks 1/4" shaft.

No. SL Net \$.36

"Your trade-in's worth more at the **WALTER ASHE STORE**" 95

TEKNI-CALS



Easily applied decals for all electronic and allied applications. A professional job is assured with their use. Only a dish of water and scissors needed to apply. Sets available in colors as indicated.

- ALPHABETS - White, Black, or Gold
- AUDIO - White
- COMMUNICATIONS RECEIVER - White
- DIALS - White or Black
- INSTRUMENT - White
- OSCILLOSCOPE - White or Black
- TELEVISION - White or Black
- TRANSMITTER - White or Black
- VACUUM TUBES - White or Black
- VACUUM TUBE VOLTMETER - White
- WORKSHOP - White or Black

Any above sets, Net \$ 1.35

SERVICE SET - White or Black Net \$.40

SIGNS (Call Letters) White or Black Net \$.95

AIRCRAFT SET. Available in White or Black. Especially designed for aircraft electrical, cabin instrument panel. Net \$ 2.35

PLATES FOR TOGGLE SWITCHES

No.	Marking	Net	Size 1x1 1/4"
279	Broadcast-Shortwave	\$.15	
584	Off-On	.15	
274	1-2	.15	
564	1-2-3	.15	
273	On-Off	.24	

JACK MARKERS - Size 1x1 1/4"

219	Phones	.20
220	Microphone	.20
221	Microphone Current	.20
222	Phonograph	.20
223	Plate Current	.20
224	Grid Current	.20

TOGGLE SWITCH PLATES - 1-1/8" Dia.

272	Off-On	\$.18
573	Micro-Phone	.18
581	Lo-Hi	.23
582	Phono-Radio	.23

ROUND CONTROL PLATES

No.	1 1/4" Dia.	Net
25	Volume	\$.18
26	Off-Tune Control	.18

HORIZONTAL SWITCH PLATES

Size, 5/8x1-1/2	
275	Off-On \$.15

Size, 11/16x1-11/16	
278	Off-On \$.12

CRONAME PLANETARY DRIVE

No. 599 - Two speed type. Slow ratio 5:1, fast ratio 1:1. Fits 1/4" driver shaft. Shog. Wgt. 8 oz. Net \$ 2.70

ICA INTERCOMM KNOB

No. 1154 - Walnut, 2" long Net \$.25

GEE-LAR RADIO KNOBS



30	160	200	470
Walnut or Ivory			
Set Screw Type for 1/4" Shafts			
NUMBER	DIAMETER	HEIGHT	NET
380-SS	7/8	1/2	\$.10
30-SS	1	7/16	.10
180-SS* (Ivory only)	1-3/16	9/16	.11
200-SS	11/16	7/16	.09
480-SS	1-1/16	9/16	.12
470-SS	13/16	9/16	.11



Push-On Type for 1/4" Shafts			
Walnut or Ivory			
20	3/4	3/4	\$.08
50	3/4	1/2	.08
90	15/16	7/16	.08
250	3/4	7/16	.08
270	7/8	5/8	.08

IVORY AUTO RADIO KNOBS

800SS Brass Inserts 810SS
Set screw type for 1/4" shaft, reducer for 3/16" shaft furnished free with each knob.

Number	Shaft	Diameter	Height	Net
800-SS	1/4	7/8	7/8	\$.23
810-SS	1/4	13/16	1 1/16	.20

TELEVISION KNOBS



A front knob for dual controls. 1-5/16" O.D. Plated gold finish inlay. Used with No. 8533 rear knob.

8530	Fits 1/4" knurled shaft.	\$.26
8531	Fits 1/4" flatted shaft.	.29
8532	Fits .202" flatted shaft.	.29

No. 8533. Rear knob for dual controls. 1-5/8" D. For .265" D rear keyway shaft. Net \$.17

No. 8534. Combination assembly dual dummy type control knob. Fits 1/4" flatted shaft. 1-5/8" D. Plated gold finish inlay. Net \$.44



No. 8535. Dual tuner bar knob. Front bar knob for use on dual controls and tuner. 2" long. Plated gold finish inlay. May be used with No. 8536 and others. For 1/4" shaft. Net \$.56

No. 8536. Rear dual tuner knob. Used with No. 8535 knob and others. 1-5/32" D. Fits 3/8" flatted shaft. Net \$.17

No. 8537. Channel indicator plate for use on sets with condenser TV tuner. Marked channels 2-13. Fits 3/8" shaft. Net \$.44



No. 8538. Front panel knob 1-3/16" D. Fits .202" D flatted shaft. Net \$.13

No. 8539. Rear channel knob. Mates with No. 8538 front knob. Center hole for .265" rear keyway shaft. 1 1/4" D. Net \$.13

No. 8540. Combination dual dummy knob. One knob combination of Nos. 8538-8539. 1 1/4" D. Fits 1/4" knurled shaft. Net \$.26



Bakelite set screw type bar knobs which fit standard 1/4" shafts. Choice of four colors: Walnut, Black, Red, or Ivory. SPECIFY COLOR.

No. 1000-SS. 1 1/4" long. Net.....\$.13
No. 905-SS. 2 1/4" long.....\$.18

MALLORY

SWITCH PLATES

For 1200L-1300L series switches. Available with marking of "1-2" to "1-12" or marking of: "Off 1-3" to "Off 1-10". Specify switch number. Net Each \$.12

For 3100J-3200J switches. Available with marking of "1-3" to "1-18" or marking of "Off 1-2" to "Off 1-16". Specify switch type number. Net Each \$.12

WALSCO

POPULAR DIAL CORD

Top quality dial cord made with high abrasion-resistant nylon over fiberglass core. Each package contains approximately 10 feet.

No. 7395-F	Special Thin	Net \$.29
No. 7396-F	Standard Thin	.29
No. 7397-F	Medium	.29

NYLON DIAL CORD

Standard thin, .028" D. Fiberglass core.
No. 75-25 25 feet Net \$.81
No. 75-50 50 feet 1.56

Medium, .040" D. Fiberglass core.
No. 74-25 25 feet Net \$.81
No. 74-50 50 feet 1.56

Heavy, .062" D. Fiberglass core.
No. 73-25 25 feet Net \$ 1.12
No. 73-50 50 feet 1.91

PHOSPHOR BRONZE CABLE

Standard thin, .025" D.
No. 76-25 25 feet Net \$.81
No. 76-50 50 feet 1.56

Standard, .040" D.
No. 71-25 25 feet Net \$.97
No. 71-50 50 feet 1.76

DIAL POINTERS

5" rotary pointer for 1/4" shaft, 5" long.
No. 6802, Net.....\$ 2.40
Slide pointer, 2" long. White enamel.
No. 6804, Net.....\$ 2.40

DIAL CABLE TOOL

Tool to aid in replacing old and slipped-off cables.
No. 5096, Net.....\$ 5.50

DIAL CORD

DRESSING STICK

Rubbing on cord prevents slipping.
No. 1212, Net.....\$ 1.15

BUD DIAL LOCK

A dual purpose unit which will function as both dial lock & position indicator.
No. DL-1947 Net \$ 1.88

G-C BRASS DIAL PULLEYS

Handy assorted idler dial pulleys, several sizes included for replacements. An envelope of eight assorted dial pulleys.
No. 6057 Net \$.26

GEIGER COUNTERS

G

SCINTILLATRON



GUN-TYPE SCINTILLATION COUNTER. Offers much greater Gamma Ray sensitivity than the finest of single Geiger tube counters. Designed so that even untrained personnel can easily use it. Ultra high sensitivity for aerial survey or search from mobile equipment. Temperature and height-proof, operates from 35° F. to 110° F. and at heights over 15,000 feet. Six operating ranges: .25, 5, 1, .25, .05, and .025 MR/HR. Tropicalized, water-proofed and shock-proofed throughout for use anywhere in the world. Meter on back of probe case. Tube protected from shock, heat, and moisture. Complete unit may be used when held in hand or battery box can be held on belt. Uses three flashlight cells, 1-67½ and 2-30 volt batteries. Amplifier, power supply, and tube are plug-in type for easy servicing without returning to factory. Accuracy ±5% of ¼ full scale reading. Probe size 2¼" x 11½". Complete with tubes, batteries, shoulder strap, calibrated radioactive sample, and detailed operational instructions. Shpg. Wgt. 10 lbs.
MODEL DS-234. Net.....\$ 467.00

GEIGER COUNTER

MODEL
DG-2



Completely redesigned, compact Geiger Counter. Weighs only 5 lbs. Uses standard low cost batteries. Has three scale sensitivity meter and neon count indicator. Readings may be taken from uranium and thorium ore specimens. Sensitive to Gamma and Beta radiation. Sturdy waterproof construction. Ready to operate, complete with headphones, batteries, carrying belt, 6 ore specimens, Government "Prospecting for Uranium" book, all instructions. Shpg. Wgt. 8 lbs. Net \$ 98.50

MODEL DG-7

DETACHED PROBE

The ultimate in low cost, lightweight all purpose Geiger Counters. Circuit is especially designed for capacity of coaxial cable, assuring complete fidelity in all readings. It is tropicalized, fungus-resistant, and waterproof. Has a separate, detached probe for making a close analysis of specimens. May also be used as a laboratory instrument. Very accurate calibration. Has all features of Model DG-2 plus the detachable probe. Complete with same accessories as DG-2 plus probe and cable. Shpg. Wgt. 10 lbs. Net \$ 135.00

Delectron

DRILL HOLE TYPE



DRILL HOLE TYPE GEIGER COUNTER. All-purpose counter which will make radioactive measurements in drill holes down to depth of 1000 feet. Detecting tube is securely housed in water-proofed probe, weighted so it will not float and tapered to prevent catching on obstructions. Ruggedized and tropicalized. Uses standard lightweight batteries (900 volts). Easy-to-read sensitivity meter adjustable to zero. Complete with 100 feet cable, earphones, batteries, carrying strap, two probes, detailed instructions, and calibrated radioactive sample. Additional cable available at \$.15 per foot. Size: 4¼x7¼x7". Carrying weight 10 lbs. Shpg. Wgt. 15 lbs.
MODEL DG-9. Net.....\$ 250.00

"CLAIMSTAKER"

DG-5



THE DETECTRON "CLAIMSTAKER". A new inexpensive Geiger counter with sufficient sensitivity to detect all radioactive materials. Uses new printed circuit. Small in size, 1¾x4x6; light in weight, 1½ lbs. Small enough to carry in your pocket. As a deposit is approached, the sensitive phone produces loud, sharp clicks. Complete with uranium ore sample, batteries and phone. Shpg. Wgt. 3 lbs. Net \$ 37.50
CLAIMSTAKER DG-5

"SEARCHMASTER"



GEIGER COUNTER. Sensitive to both Beta and Gamma radiation as well as to X-rays and cosmic rays. Used by prospectors, mineral enthusiasts, rockhounds, etc. Easy to operate, unit is completely self-contained. Uses Geiger tube No. 1B85, 2-45 volt "B" batteries, 1-1½ volt "A" battery. Headphone set and plug. Blue Hammerstone case, size 3½x4x9½". Complete, ready to operate. Carrying weight 5 lbs. Shpg. Wgt. 7 lbs.
MODEL SEARCHMASTER. Net.....\$ 55.50

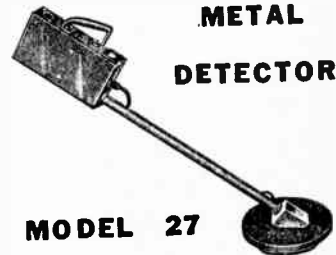
SCINATRON



ECONOMY SCINTILLATION COUNTER. Ideal unit for the prospector who needs more than a Geiger counter. Detecting element is 1x½" Thallium Activated Sodium Iodide Crystal coupled to an RCA Multiplier Tube, completely shock mounted and magnetically protected. Operates accurately on six ranges of .25, 5, 1, .25, .05, and .025 MR/HR. Will perform well at temperatures from 35° to 110° F. and at heights above 15,000 feet. Three controls, zero set, range, and time constant. Plug-in circuitry. Water-proofed, tropicalized, and shock-proofed. Uses three flashlight cells, 1-67½ and 2-30 volt batteries. Complete with tubes, batteries, shoulder strap, detailed instructions, calibrated radium sample for field calibration. Size: 4¼x7¼x7". Carrying weight 6 lbs. Shpg. Wt. 10 lbs.
MODEL DS-222 SCINATRON. Net \$289.00

METAL

DETECTOR



MODEL 27

MODEL 27. A new easier-to-operate metal detector specifically designed for detecting placer gold nuggets and other small metal objects. Locates objects 3" to 7' below surface. Excellent balance of instrument will not tire operator. May be easily unassembled and stored in small space. To operate, turn on switch, make one simple adjustment, and instrument is ready to work. When exploring probe is passed over a metallic object, instrument responds with a loud clear tone. Metered model responds sharply with a strong reading. Weighs only 9 lb. Therefore, it is easy to use in exploring walls, cliffs, and rugged terrain. Model 27 will penetrate earth, rock, water, ice, cement, asphalt, etc., to detect object sought. Complete with headphones, batteries, and complete instructions. Shpg. Wgt. 15 lbs.

MODEL 27 Deluxe Type with Meter 110.00

WALTER ASHE

RADIO CO.

STORE HOURS:

9:00 A. M. to 5:30 P. M.

Monday through Saturday

"Your trade-in's worth more at the WALTER ASHE STORE" (97)

RUBBER GROMMETS. In all popular sizes, made of resilient, tough, long-lasting rubber.

Number	Pits	I.D.	Hole	Cont. Per Box	Number	Cont. Per Box
7030F	1/8	1/4	16	\$.29	7030N	85
7032F	3/16	5/16	14		7032N	85
7034F	1/4	3/8	12		7034N	65
7036F	3/8	1/2	10		7036N	55
7038F	1/2	5/8	8		7038N	35
7025F	Assorted		15		----	--

NO. 7083F RUBBER WASHER AND BUMPER ASSORTMENT. Assortment of various rubber washers, bumpers, and spacers used for shockless, vibrationless mounting. 16 assorted washers and bumpers. Net \$.29

CHASSIS MOUNTS. Made of resilient synthetic rubber to give chassis floating effect and reduce "microphonics".

Number	Dimensions				Cont. Per Box
	A	B	C	D	
7077F	3/4	1/2	1/4	3/8	6
7075F	Assorted				10

CABINET FEET. Made of oil-resistant, synthetic rubber. Wood screws supplied with screw-type feet but machine or self-tapping screws may be used. Rubber tack feet have steel tacks securely molded in.

Number	8 Assorted Rubber Feet Per Box	Net
7050F		\$.29
7670F	Assorted Rubber Tack Feet	.29

SNAP-IN TRIMOUNTS. Use on back covers, dial scales, chassis, built-in antennas, etc.

Number	Dimensions			For Hole	Cont. Per Box
	A	B	C		
7373F	9/32	13/64	9/64	1/8	25 pcs.
7375F	23/64	9/32	3/16	5/32	20 pcs.
7377F	3/8	5/8	5/32	1/8	15 pcs.
7370F	Approx. 20 assorted.				

Any above assortment, Net Per Box \$.29

NO. 7640F FUSE INSULATORS. Standard fibre insulators for use on automobile radios. 2 lengths included fit all standard 1/4" diameter fuses. 20 assorted insulators per box. Net \$.29

NO. 7600F FUSE CLIPS. Made of spring brass, nickel plated for single hole mounting. 12 assorted clips per box. Net \$.29

NO. 999 GLASS JAR. Empty glass jar. 2 oz. size with wide mouth screw top. Handy for storing small hardware. Net \$.08



EXPANSION SPRINGS. Assortment contains various sizes of springs for many applications.

Number	10 Assorted Large Expansions	Net Per Box
7421F		\$.29
7420F	10 Assorted Small Expansions	.29



COMPRESSION SPRINGS. Assortment contains springs often needed for repair work.

Number	20 Assorted Small Springs	Net Per Box
7440F		\$.29
7441F	15 Assorted Large Springs	.29

DIAL DRIVE SPRINGS. Made of fine music wire for greater flexibility. Available in standard sizes. Carefully looped at each end, rust-proof and cadmium plated.

Number	Overall Length	Diam.	Wire Thick.	Springs Per Box
7404F	1/2	1/8	.016	10
7405F	5/8	5/32	.018	10
7401F	Assortment of 8 springs (lg. & sm.)			
7400F	Assortment of 10 small springs			

Any above assortment, Net Per Box \$.29



NO. 7330F VENTILATING HOLE PLUGS. Fine wire screen permits free circulation of air. Assortment contains plugs for 1/2" and 1" holes. Net \$.29



SNAP-HOLE PLUGS. Used to seal adjustments, cover unused holes, etc.

Number	Fits Hole	Cont. Per Box	Number	Cont. Per Box
7300F	Assorted	8	----	----
7306F	1/4	8	7306N	50
7308F	3/8	8	7308N	50
7310F	1/2	6	7310N	40
7312F	5/8	6	7312N	30
7314F	3/4	5	7314N	25
7316F	1	5	7316N	20



NO. 7570F ANGLE BRACKET ASSORTMENT. Various lengths and shapes. Made of plated steel or brass. Approx. 15 brackets per box. Net \$.29



NO. 7480F RADIO KNOB SPRINGS. Modern method of fastening knobs to shafts. All regular sizes and shapes. Finest grade of selected steel. 18 assorted springs in box. Net \$.29

WALSCO HARDWARE ASSORTMENT



NO. K3003. Assortment of screws, nuts, washers, springs, clamps, eyelets, grommets, terminals, etc. Comes in handy plastic container. 1000 pieces. Net \$ 1.06

SCOTCH BRAND Electrical Tape WITH PLASTIC BACKING



No. 33

SCOTCH 33 ELECTRICAL TAPE is only .007" thick yet has high dielectric strength, over 7,000 volts. This revolutionary new tape takes the place of old-fashioned rubber and friction tape. Plastic backing assures excellent resistance to alkalies, acids, alcohols, exposure to sunlight, rain, snow and ice.

3/4" WIDE

No. 33-66	66-ft. Roll	Net \$ 1.50
	12 Rolls	Net Each \$ 1.35
No. 33-20	20-ft. Roll	Net \$.55
	12 Rolls	Net Each \$.50

3/8" WIDE

No. 33-20	20-ft. Roll	Net \$.35
	12 Rolls	Net Each \$.32

SUPERIOR KLEEN KUT FRICTION TAPE

Individually boxed rolls of high quality friction tape for all radio and electrical uses. 60 feet in roll.

NO. 8-K Net \$.42

RUBBER FEET

BUD

NO. F-7264A. 1" dia., 3/8" thick and is made from high grade black rubber. Supplied with complete mounting hardware. Net Each \$.06 Net Per 100 \$ 5.64

NO. F-8038. A sponge-rubber protective pad, 1/8" thick, 3/4" dia. Fasten it to any surface by moistening the glue coating with gasoline or benzine and press into place. Net Each \$.02 Net Per 100 \$ 1.71

HELL BOX

NO. 6500. A grand assortment of screws, nuts, lugs, clips, washers, clamps, caps and all types of radio parts that you need in your everyday work. Just dig in and find it. Thousands of pieces in a box. Net \$ 2.21

THREADED BRASS RODS

Supplied in one-ft. lengths.

Number	Size	Net Per Ft.
1300	6/32	\$.27
1441	8/32	.21
1402	10/32	.27
1403	1/4"-20	.30

NATIONAL CHART FRAME

Chart frame supplied with celluloid sheet to cover chart size 2x3 3/4".

No. CFA Net \$.40

WALSCO HARDWARE - IN PLASTIC BOXES.

HAR

STEEL MACHINE SCREWS. All the standard sizes combined in handy inexpensive assortment. Contains No. 6, 8, 10 screws - 1/4" to 1" long.

Number	Size	Cont. Per \$.29 Box	Number	Cont. Per \$1.06 Box
8000F	Assorted	35	8000N	200
8063F	6/32x3/8	40	8063N	225
8066F	6/32x3/4	30	8066N	175
8083F	8/32x3/8	30	8083N	175
8086F	8/32x3/4	25	8086N	140
8106F	10/32x3/4	20	8106N	115

NO. 8002F SMALL MACHINE SCREW AND NUT ASSORTMENT. Special assortment of extra small screws (No. 2 and 4) and nuts for fastening small parts to replace rivets, etc. 40 assorted screws and nuts per box. Net \$.29

SHEET METAL AND SELF-TAPPING SCREWS. These screws cut their own threads in either metal or plastic. Just drill a hole and drive in the screws - no nut or tapping required. For mounting parts to chassis, replacing rivets and eyelets, etc.

Number	Size	Cont. Per \$.29 Box	Number	Cont. Per \$1.06 Box
8366F	6x3/4	20	---	---
8384F	8x1/2	20	---	---
8406F	10x3/4	12	---	---
8300F	Assorted	25	8300N	125
8362F	6x1/4	30	8362N	150
8364F	6x1/2	25	8364N	150

RACK SCREWS AND CUP WASHERS. For mounting panels in racks and cabinets, fastening record players and recording chassis, etc. Oval head screws are nickel plated as are cup washers.

Number	Size	Cont. Per \$.29 Box
8005F	Assorted Screws and Washers	15
8273F	10/32x3/4 Screws	20
7810F	No. 10 Washers (9/16" O.D.)	35

NO. 8502F STANDARD WOOD SCREW ASSORTMENT. Handy assortment. Contains round and flat head screws of popular sizes in brass and steel. 25 screws per box. Net \$.29

NO. 8500F SMALL ESCUTCHEON AND WOOD SCREW ASSORTMENT. Assortment contains extra small sizes of hard-to-get wood screws. For fastening name plates, escutcheons, and numerous other devices. 25 assorted screws per box. Net \$.29

NO. 7560F ESCUTCHEON PIN ASSORTMENT. Brass finished pins in various sizes and lengths from 1/4" to 1". 100 assorted pins per box. Net \$.29

NO. 8550F PHONOGRAPH PICKUP SET SCREWS. Narrow head steel screws. Antique bronzed finish. For all popular pickups and recording heads. 12 assorted phono set screws per box. Net \$.29

STEEL SET SCREWS. Hardened steel set screws in popular sizes for radio knobs, record changers, home and automobile radios. Screws Net Per Box \$.29

Number	Size	Per Box	Per Box \$.29
8605F	Assorted	15	.29
8623F	6/32x3/16	15	.29
8633F	8/32x3/16	15	.29
8644F	10/32x1/4	15	.29

NO. 8570F SPADE BOLTS. For attaching condensers, coils, cans, and similar items. Stud size 6/32. Hole size for No. 6 screw. 15 assorted bolts per box. Net \$.29

NO. 8250F ORNAMENTAL HEAD SCREWS. Antique bronze finish, rosette head. For mounting of speakers, etc. 20 assorted screws per box. Net \$.29

NO. 7525F RIVET ASSORTMENT. Various sizes of hollow, solid and split rivets in brass, copper and aluminum. Sizes range from 1/16" to 5/16" diameter and up to 3/4" in length. 50 assorted rivets per box. Net \$.29

NO. 7510F EYELET ASSORTMENT. Brass eyelets of various diameters and lengths. 50 eyelets per box. Net \$.29

NO. 7565F TRIN-LEAD WIRING NAILS. For attaching 300 ohm leads to walls, moldings, etc. Ornamental head. No effect on impedance of the line. 40 nails per box. Net \$.29

NO. 7380F SMALL COTTER AND HAIR PINS. Assortment of popular sizes of cotter and hair pins. 50 per box. Net \$.29

MACHINE SCREW NUTS. Walco nuts are "small pattern" precision made and cadmium plated.

Number	Size	Cont. Per \$.29 Box	Number	Cont. Per \$1.06 Box
8800F	Assorted	30	8800N	175
8806F	6/32	35	8806N	200
8808F	8/32	30	8808N	200
8810F	10/32	30	8810N	175

Brass, nickel plated.

8846N	6/32	--	----	150
8848N	8/32	--	----	100
8850N	10/32	--	----	80

NO. 8943F KNURED THUMB NUTS, BRASS. 8 nuts, size 6/32. Net \$.29

NO. 8960F SPEED NUTS. 30 assorted speed nuts. Net \$.29

NO. 8933F WING NUTS. 15 nuts, 6/32. Made of steel and plated. Net \$.29

SPECIAL MOUNTING NUTS. Various kinds of nuts used on volume controls, switches, jacks, potentiometers, etc. Nuts are cadmium or nickel plated.

Number	Description	Cont. Per \$.29 Box
8920F	Assorted	15
8923F	3/8x32 Vol. Cont. Hex Nut	18
8924F	15/32x32 Togl. Sw. Hex Nut	10
8926F	15/32x32 Togl. Sw. Ring Nut	10

NO. 8950F ACORN NUTS. These PAL type steel nuts are self-locking and bright cadmium-plated. 10 assorted nuts per box. Net \$.29

METAL WASHERS. Steel washers, cadmium-plated, in standard small sizes.

Number	For Screw Size	Washers Per Box	Net Per Box \$.29
7870F	Assorted	80	.29
7876F	No. 6	100	.29
7880F	No. 10	70	.29

LOCK WASHERS. Made of special steel and rust-proofed.

Number	For Screw Size	Cont. Per \$.29 Box	Number	Cont. Per \$1.06 Box
7926F	6	50	7926N	300
7928F	8	50	7928N	275
7930F	10	45	7930N	275
7920F	Assorted	50	----	---

NO. 7750F SPRING (FRICTION) WASHERS. Used in record changers, automatic tuning assemblies, etc. Many popular sizes of phosphor bronze and spring steel washers. 12 assorted spring washers to a box. Net \$.29

NO. 7760F MO8 FELT WASHERS. Tough brown felt with 1/4" hole to fit standard shafts, O.D. 3/4" and thickness 1/32". 30 felt washers in box. Net \$.29

NO. 7820F INSULATING WASHERS. High grade vulcanized fibre or phenolic material. Used to insulate parts from chassis, etc. Overall thickness 1/32". 35 assorted extruded and flat washers. Net \$.29

NO. 7825F. #8 insulated washers. Net \$.29

METAL AND INSULATING SPACERS. Assorted spacers of various lengths with hole size to accommodate No. 6 and No. 8 screws.

Number	Description	Net Per Box \$.29
7630F	12 Assorted In. Spacers	.29
7620F	12 Assorted Metal Spacers	.29

RETAINING RINGS AND "C" WASHERS. A necessity in the servicing of volume controls, record changers, etc. Rings are tempered spring steel. Washers are annealed. Assortment contains sizes for shafts from 1/8" to 5/16" diameter.

Number	Description	Net Per Box \$.29
7770F	25 Assorted Rings and Washers	.29
7774F	15 "C" Washers for 1/4" Shaft	.29

CABLE CLAMPS. Heavy gauge steel, cadmium-plated, 3/8" wide. Available in 3 sizes for cables from 1/8" to 5/16".

Number	For Cables	Cont. Per \$.29 Box	Number	Cont. Per \$1.06 Box
7502F	1/8 - 3/16 D	25	7502N	125
7503F	3/16 - 1/4 D	20	7503N	100
7505F	1/4 - 5/16 D	16	7505N	75
7500F	Assorted	20	----	--

"Your trade-in's worth more at the **WALTER ASHE STORE**"

C. F. CANNON HEADSETS



DC. Shpg. Wgt. 1½ lbs.
No. AM-25-2

Model AM-25-2 is a new modern headset with Alnico-V magnet which assures efficiency, durability and sustained power. Cap and case are molded plastic. Diaphragm diam. 2-1/8". Inside cord terminal connections. 5 ft. sanitary moisture-resistant plastic cord. 2000 ohms

Net \$ 3.82



No. AM-15-2 2000 ohms DC Net \$ 2.35
No. AM-15-1 1000 ohms single phone. Shpg. Wgt. 1 lb. Net \$ 1.18

A new headset with Alnico V magnet. Small in size, light in weight, constructed of durable plastic. Excellent response and volume. Adjustable spring steel headband and 4½ ft. cord. Diaphragm diam. 1-7/8". Shpg. Wgt. ½ lbs.



The Brandes
SUPERIOR

A rugged high quality headset. Has outside terminal connections and polished aluminum cases. Durable black plastic caps with double solenoid coils, two in each receiver. Chrome steel magnets 1/4" dia., diaphragm 2-1/8" dia. Black steel headband. 4½-ft. cord. 2,000 ohms DC. Shpg. Wgt. 1½ lbs.

No. BS-2 Net \$ 2.20



Cannon-Ball Headset

The Dixie

A very popular and serviceable headset. Outside terminal connections. Polished aluminum cases and black bakelite caps. Double coils, two in each receiver. Magnet size ¼". Black steel headband. 4½-ft. cord. 2,000 ohms DC. Shpg. Wgt. 1½ lbs.

No. CD-2 Net \$ 2.06

TRIMM

FEATHERWEIGHT HEADSET



24,000 ohm impedance precision built phones. Very light weight. Shpg. Wgt. 1 lb.

No. 107 Net \$ 6.47

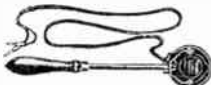


THE ACME

A superior headset in the lightweight low price field. 2000 ohms D.C. 4½' flexible cord. Shpg. Wt. 2 Lb.

No. 25 Net, \$1.97

LOGNETTE



Single earphone on adjustable handle. 1000 ohms resistance. 4500 ohm impedance. Shpg. Wgt. 12 oz.

No. 120 Net \$ 4.85

Brush

CRYSTAL PHONES



Model 200A pair. General purpose phones 100-10000 CPS. High impedance, high sensitivity. 5 ft. cord, adjustable headband. Shpg. Wgt. 12 oz.

Net \$ 10.39



Model 202A single phone. Same as above but one phone. Shpg. Wgt. 8 oz.

Net \$ 6.61

TRIMM

INDIVIDUAL VOLUME CONTROL



Individual volume control for hearing aid installations. 10,000 ohm control. Shpg. Wgt. 1 lb.

No. 400 Net \$ 2.91

I. C. A. HEADPHONE CUSHIONS



Minimize car phone fatigue. Shpg. Wgt. 12 oz.

No. 195 Net Per Pair \$.82



TRIMM

PHONE PLUG

No. 512. Flat type, non-protruding. Body molded of black plastic.

Net \$.45

TELEX



MONOSET 4625

TWINSET 3775

EARSET 4680

New lightweight receivers to replace old style phones, comfortable to wear. Wgt. 1.2 oz. Ideal for ham radio, etc. Type 4625 with ear plugs, type 3775, new model, receiver rests lightly at temples, sound arms pipe signals into ear. Both models are complete with standard cord and plug. Shpg. Wgt. 8 oz.

No. 4625 2000 ohms Net \$ 7.76
No. 3775 1000 ohms 10.14

Midget earpiece receiver for fitting on the ear. Adjustable for use with either ear. An ideal unit for hospitals, portable radios, hearing aids, secretarial dictation, etc. Unit is securely mounted on the ear; head may be moved freely without dislodging earpiece. With 5-ft. cord and standard plug. Single earpiece.

No. 4680 2000 ohms Net \$ 7.06

PILLOW

SPEAKER



Improved Model "R" Pillow Speaker permits private radio listening in homes, hospitals, etc. Can be attached to any radio or amplifying system or wherever radio listening is provided. Size, 2½" diameter, 5/8" thick. Easy to install. One piece housing, sealed diaphragm. Easy to sterilize. Complete with 5-ft. cord and standard phone plug. Impedance 2,000 ohms.

No. 4530 Shpg. Wgt. 12 oz. Net \$ 6.70

No. 8110 Deluxe Pillow Speaker. Impedance 3.2 ohms. Practically unbreakable, sturdily made. Size: 3-3/4x1-1/8". Complete with cord and phone plug.

No. 8110 Net \$ 6.00

MALLORY PHONE PLUGS



NUMBER	75A 75N 75	NET
75	2-way bakelite shell	\$.38
75N	2-way metal shell	.59
75A	2-way metal shell with built-in cable clamp	.97

HEADPHONE CORDS



Extra-flexible bronze tinsel. Well insulated. All cords 5 ft. long. Shpg. Wgt. 6 oz.

Number	Type	Net
816	Single, tips both ends	\$.49
816	Single, tips and lugs	.49
881	Double, tips both ends	.65
883	Double, tips and lugs	.65

100 READY FOR A NEW RECEIVER? - We'll Trade In Your Old One!

INSULATORS OF ALL TYPES

INS

STANDOFF INSULATORS



All insulators listed below made of highly vitrified, low absorption porcelain. Complete with hardware.

Plain Standoffs

Number	Height	Net
405	5/8"	\$.08
966	1	.10
866	1 1/2	.14
4275	2 3/4	.35
4450	4 1/2	.68

Jack Standoffs

Number	Height	Net
966-J	1"	\$.14
866-J	1 1/2	.18
4275-J	2 3/4	.59
4450-J	4 1/2	.88

BIRNBACH

STEATITE BUTTON



BIRNBACH STEATITE BUTTON

May be used as binding post or small standoff. Extends 1/4" above and below panel.

No. 457 Net \$.21

FEEDTHRU INSULATORS



Number	Hgt. Above Panel	Hgt. Below Panel	Net
458	5/8"	1/4"	\$.15
478	1	5/16	.21
4125	1 1/4	3/8	.24
4175	2 3/4	3/4	.53
4234	2 3/4	1	.59

JACK TYPE

Number	Hgt. Above Panel	Hgt. Below Panel	Net
478-J	1"	5/16"	\$.25
4125-J	1 1/4	3/8	.27
4175-J	2 3/4	3/4	.77

SPAGHETTI TUBING

Size	Length	Color	Net
# 4	36"	black, yellow or red	\$.24
# 8	36"	" " " "	.19
# 14	36"	" " " "	.12

G-C FIBEROID



No. 560 - .010" - 240 square inches. Net \$.32

ASSORTED SATURATED SLEEVING KIT



An assortment of 7 1/2" lengths of saturated sleeving. 26 lengths to the kit. Sizes include from No. 17 wire to 3/8" I.D.

No. 550 - Kit 26 lengths Net \$.29

CONE STANDOFF INSULATORS



Number	Height	Net
430	5/8"	\$.19
431	1	.24
432	1 1/2	.42
433	2 3/4	.82

JACK TYPE

Number	Height	Net
431-J	1"	\$.28
432-J	1 1/2	.56
433-J	2 3/4	1.00

METAL BASE INSULATORS



Designed to replace conventional porcelain insulators where there is danger of base cracking when fastened down. Cadmium plated base.

Number	Height	Net
867	1 3/8"	\$.21
4176	2 3/4	.37
4451	4 1/2	.54

JACK TYPE

Number	Height	Net
867-J	1 3/8"	\$.27
4176-J	2 3/4	.47
4451-J	4 1/2	.76

LEADIN INSULATORS



Cones are 2 1/2" high. 4237 and 4238 have sufficient insulating bushings to insulate rod that goes through wall.

Number	Description	Net
4235	10" Rod	\$.132
4236	15" Rod	1.47
4237	10" Rod with bushings	1.62
4238	15" Rod with bushings	2.06

AERIAL SPRING ADJUSTER



Prevents swinging and swaying of antennas. Takes up slack.

No. 765 Net \$.53

BUD WALL LEAD-IN



Use for bringing lead or feeders through wall. 12" insulated brass rod.

No. 1-742 Net \$ 1.06

BUD FEEDER SPREADERS



Lucite, with clamps on end to hold 12 to 18 gauge wire.

Number	Length	Net
I-1900	2"	\$.29
I-1901	4	.35
I-1902	5	.38
I-1903	6	.41



High tensile strength smooth glaze porcelain.

Number	Length	Net
462	2"	\$.15
464	4	.21
469	6	.27



TELCO

TELCO KANT-STRIP TV MAST STAND-OFFS

"T" type standoff with 7/8" wood screw. Polyethylene insulators. For UHF and VHF.

No. 8809 Net \$.15

TELCO T-TYPE STAND-OFFS

"T" type mast standoff insulator. Stainless steel strap is adjustable for any size mast. Polyethylene insulator for UHF or VHF. 7 1/2" long.

No. 8359 Net \$.21

"LUCITE" FEEDTHRU INSULATORS

Same as above but for feeding leads through chassis, shield, etc.



Number	Diam.	Hgt. Above Panel	Hgt. Below Panel	Net
I-1909	1/2"	1/4"	1/4"	\$.44
I-1910	1/2"	1/2"	1/4"	.50
I-1911	1/2"	1"	1/4"	.56
I-1912	3/4"	1 1/2"	1/2"	.94
I-1913	3/4"	2"	1/2"	1.00

ANTENNA INSULATORS



Number	Length	Type	Net
668	4 1/2"	Strain	\$.21
470 W.P.	7"	" Wet. Proc.	.59
471	12"	" " "	.82
468	4 1/2"	" Center	.27

"Your trade-in's worth more at the WALTER ASHE STORE" (101)

TELEVISION INSULATORS



Stand-off insulators for all TV and FM applications. Available in wood screw, machine screw, and nail-in types.

FOR FLAT TWIN-LEAD

Number	Length	Type	Net
66-202	3/4"	#14 Wood Screw	\$.03
66-204	3/4"	#10-32 Machine Screw	.04
66-209	7/8"	#14 Wood Screw	.05
66-210	7/8"	#10-32 Machine Screw	.05
66-211	3/4"	Nail-in Type	.04

FOR 300 OHM TUBULAR TWIN-LEAD

Number	Length	Type	Net
66-214	7/8"	#14 Wood Screw	.05
66-215	3/4"	#14 Wood Screw	.03
66-216	7/8"	#10-32 Machine Screw	.05
66-217	3/4"	#10-32 Machine Screw	.04
66-218	3/4"	Nail-in Type	.04

FOR COAXIAL CABLES

Number	Length	Type	Net
66-201	3/4"	#14 Wood Screw	.04
66-203	3/4"	#10-32 Machine Screw	.04
66-208	7/8"	#14 Wood Screw	.05
66-219	7/8"	#10-32 Machine Screw	.06
66-212	3/4"	Nail-in Type	.05

#66-909. Polystyrene flat twin-lead insulators for 300 ohm line. Net Each \$-.03

JFD "ADJUSTA"

STAND-OFF INSULATORS

Strap insulator with new type nut. Has six full threads, cannot slip, buckle or bend. For 300 ohm lead. Polyethylene inserts assure low loss reception.

Number	Length	Net
NLT-350	3-1/2"	\$.11
NLT-750	7-1/2"	.15

KNOX RADIO INSULATORS

PORCELAIN INSULATOR **PORCELAIN INSULATOR** **AIRPLANE TYPE**



No. 500 Heavy duty strain, length 2 1/2", brown glazed porcelain, Shpg. Wgt. 8 oz.
NO. 500 INSULATOR Net \$.14

Brown porcelain strain insulator, length 2". Shpg. Wgt. 4 oz.
NO. 2-1/2 INSULATOR Net \$.06

Airplane type. White glazed porcelain. Length 1-3/4". Shpg. Wgt. 4 oz.
NO. 472 Net \$.07

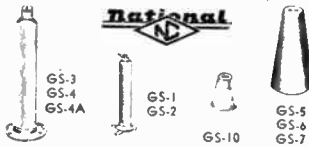


STANDOFF INSULATORS

A size for all requirements. Good insulation. Modern appearance. 1/2" diameter insulation supplied with 6-32 screws. 3/4" diameter supplied with 10-32 screws.

Number	Height	Diam.	Net
I-1904	1 1/4"	1/2"	\$.41
I-1890	2"	1/2"	.44
I-1905	2 3/4"	1/2"	.50
I-1899	1 1/4"	3/4"	.44
I-1906	2 1/4"	3/4"	.59
I-1907	4 1/4"	3/4"	.73
I-1908	6 1/4"	3/4"	1.03

STANDOFF INSULATORS



Low loss steatite standoff insulators nickel plated caps and bases. Wgt. 8 oz.

Number	Size	Net
GS-1	1/2 x 1 3/8"	\$.27
GS-2	1/2 x 2 7/8"	.35
GS-3	3/4 x 2 7/8"	.69
GS-4	3/4 x 4 7/8"	.86
GS-4A	3/4 x 6 7/8"	1.20

GS-10 - 3/4" high. Box of 10. Net \$ 1.04

Cone type stand-off insulators made of low loss steatite. Tapped hole in each end as follows. GS-5 8-32 tap 7/16" deep; GS-6 & GS-7 10-24 tap 11/16" deep; GS-10 6-32 tap 1/4" deep and GS-10S as noted above.

Number	Size	Net
GS-5	1 1/4" high	\$.35
GS-6	2" high	.48
GS-7	3" high	.86



STAND-OFF INSULATORS

Low loss steatite stand-off insulators and are also useful as lead-through bushings.
GS-8 With Terminal Net \$.62

A low-loss steatite bushing for 1/2" holes. Passes 6-32 screw.
XS-G BUSHING Net \$.14

LEAD-IN INSULATORS



Prices listed are per pair and include nickel-plated spindles, lugs, and hardware. Ideal for lead-in purposes at high voltage.

Number	Size	Net
XS-3	2-3/4" Hole	\$ 4.13
XS-4	3-3/4" Hole	4.98

These big low loss bowls have an extremely long leakage path and a 5/8" flange for bolting in place. Steatite insulation.

XS-5 - Without fittings. Net Each \$ 5.65

UNIVERSAL FEED-THRU BUSHING

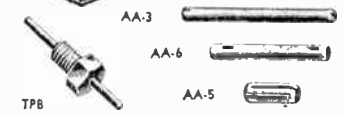


Accommodates all types of twin-lead, flat and tubular, coaxial, rotator cable, and has provision for terminating open wire line. 15" long, fits wall up to 1 1/2". Easy to cut down. Requires 3/4" hole. Made of polystyrene. Brown or ivory.
NO. 1551 Net \$ 1.17

G-C INSULATING CAMBRIC

Breakdown Voltage 10,000 Volts
 Dry yellow varnished cambric for field coils, transformers, chokes, resistors, etc.
NO. 549 ROLL, over 210 sq. in. Net \$.50

National Insulators



Threaded polystyrene bushing with removable .093 conductor molded in 1/4" diameter, 32 thread.

Type TPB Bushing Per 12 Net \$.08

Low loss steatite spreaders have 6" line spacing. (600 ohms impedance with No. 12 wire).

Number	Net
AA-3	\$.41
AA-5 Steatite aircraft insulator.	.35
AA-6 Steatite low loss insulator.	.62



Steatite bushings. Prices include male and female bushings with metal fittings.

Number	Size	Net
XS-7	3/8" hole	\$.42
XS-8	1/2" hole	.55

Prices listed are per pair, including metal fittings. Steatite insulation.

Number	Size	Net
XS-1	1" hole	\$.83
XS-2	1 1/2" hole	.93



AMPHENOL POLYSTYRENE SHEETS

NO.	Size	Net
NO. 19-0628	4x8x1/16"	\$.17
NO. 19-0938	4x8x3/32"	.20
NO. 19-1258	4x8x1/8"	.24
NO. 19-1878	4x8x3/16"	.30
NO. 19-2508	4x8x1/4"	.40

POLYSTYRENE TUBING AND RODS

POLYSTYRENE RODS		POLYSTYRENE TUBING	
Size O.D.	Per Foot	Size O.D.	Net
1/8"	\$.03	1/4" WALL	
3/16"	.07	5/16"	\$.14
1/4"	.12	3/8"	.18
5/16"	.18	1/2"	.26
3/8"	.26	5/8"	.31
1/2"	.48	3/4"	.39
5/8"	.72	1"	.55
3/4"	.98		
7/8"	1.39		
1"	1.86		

All sizes tubing and rods are one-foot lengths.

RATOMIC FIBRE RODS

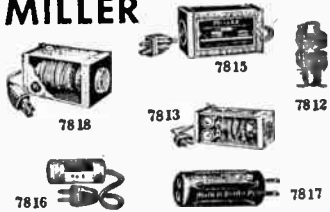
Fibre rods having perfect insulation qualities at low cost. Can be shaped to fit your individual needs for miscellaneous tools, alignment equipment, coupling units, etc. Used by radio and TV men who always need a rod that can be shaped as an instrument or tool. Will outlast average G" alignment tool several times over. Used in schools, laboratories for designing radio and TV equipment and many other uses. All sizes are 12" in length. Sizes from 1/8" to 1 1/2"

Size	Net Each	Size	Net Each
1/8"	\$.32	3/8"	\$.49
3/16"	.32	7/16"	.59
1/4"	.37	1/2"	.69
5/16"	.42		

INTERFERENCE FILTERS

INT

MILLER



TYPE 7818. All-wave interference filter designed to be connected between radio receiver and power outlet. Eliminates noise from appliances such as sewing machines, food mixers, vacuum cleaners, etc. 150-watt capacity, operates on either AC-DC 115 V. Size 2x4x4". Net \$ 4.62

TYPE 7815. Similar to 7818 but designed for larger appliances such as refrigerators, etc. Useful for TVI elimination when inserted in TV receiver line cord. Handles up to 550 watts. Size 2x4x4". Net \$ 4.62

TYPE 7813. All-wave filter designed for AC-DC sets. Plugs in between set and power outlet. Size 2x4x5". Net \$ 4.95

TYPE 7817. Electric shaver filter. Absorbs interference radiated from shaver and prevents noise from being heard in receiver. Shaver plugs into filter, filter into outlet. Volts 115, watts 50. Size 1-1/8x3". Net \$ 1.63

TYPE 7816. All-purpose line filter of the capacity type which eliminates noises from household appliances such as sweepers, heat pads, dryers, mixers, fractional HP motors, etc. 115 volts, 660 watts. Size 1 1/2x2 1/4". Net \$ 1.32

TYPE 7812. Teletype radio interference filter. Designed for use on small brush type universal motors. Easily installed directly on motor terminals. Consists of two duo-lateral wound chokes and dual condenser. Ground terminal. Protected against moisture. Carries up to 1/2 amp. up to 220V AC-DC. Size 1-3/8x3". Net \$ 2.31

HIGH PASS FILTERS

Helps to eliminate interference caused by amateur transmitters, short wave stations, X-ray, diathermy, appliances, etc. Minimizes noise, streaks, sound bars or herringbone patterns. Works on all channels, no tuning required. Installed easily in antenna lead-in at receiver. Size: 1 1/2x2x3 1/2" high.



Number	Net
C167 For 72 ohm line	\$ 3.30
C168 For 300 ohm line	3.30



WAVE TRAPPERS

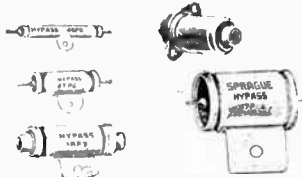
Designed for use in reduction of unwanted signals of certain types encountered in FM & TV reception. Completely enclosed in easily mounted metal case. Trimmer adjustments on top. For insertion in antenna lead-in at the receiver. Shpg. Wgt. 2 lbs.

Number	Range	Net
15-7510	6-13 MC	\$ 3.33
15-7511	13-27 MC	3.33
15-7512	27-54 MC	3.33
15-7513	54-108 MC	3.33
15-7514	108-216 MC	3.33



SPRAGUE "HYPASS" CAPACITORS

FOR REDUCTION OF TVI



Used for suppressing automotive interference in mobile work, etc. Current ratings: 47P15-47P16 2 amps., 47P13-47P14 3 amps., 47P12 4 amps., 48P9 20 amps., 48P18 40 amps., 80P3 20 amps. Case gnd.

Number	Mfd.	Work.	V.	Size	Net
48P9	.1	250	AC	3/4x1-3/4	\$ 1.53
48P18	.5	50	DC	1x1-13/16	2.23
46P8	.005	600	DC	1/4x1-1/2	1.26
46P12	.002	600	DC	1/4x1-1/2	1.26
47P6	.01	600	DC	1/2x1-1/4	1.38
47P12	.005	1000	DC	1/2x1-1/4	1.41
47P13	.01	1000	DC	1/2x1-1/2	1.53
47P14	.005	2500	DC	1x1-1/2	1.70
47P15	.01	2500	DC	1x1-1/2	1.82
47P16	.002	5000	DC	1x1-1/2	1.88
80P3	.1	259	AC	3/4x1-7/8	1.73

BARKER & WILLIAMSON

LOW-PASS FILTER



Two new low pass filters for use at the transmitter for reducing or eliminating TVI. Either will handle 1 KW of RF power safely if SWR is not excessive. Circuit-wise they consist of two "M" derived end sections and four sections of the constant "k" type. Measured attenuation is better than 85 db throughout all TV channels and over 100 db on channel 2. Constructed of heavy gauge copper sheet, the design permits easy disassembly if in need of repairs, user can repair himself. MODEL 425 52 Ohms Net \$ 14.83 MODEL 426 75 Ohms 14.83

REGENCY

HIGH PASS FILTER



MODEL HP-15. High pass filter with constant "k". Cut-off frequency of approximately 45 mc in 300 ohm line balanced. For use at TV set to minimize interference. Attenuation at 29 mc is approximately 20 db, at 14 mc 40 db or more. Connects between twin-lead and receiver. Full instructions included for use. Net \$ 9.97

TV AND FM WAVE TRAPS

New high-Q series resonant wave traps help to eliminate interference and undesirable images in TV and FM receivers. Very effective when tuned to frequency of interfering signals. Superimposed pictures from different stations may be prevented. For FM receiver use, cross talk from interfering stations is greatly reduced. Mounted in aluminum shields, designed for easy connection direct to antenna twin lead. "L" type bracket for attachment to receiver chassis or cabinet. Screw driver adjustment through top of shield. Size: 1-3/8x1-7/8x3-3/8" high.



Number	Frequency Range	Net
6163	150 - 250 MC	\$ 2.64
6164	75 - 150 MC	2.64
6165	40 - 80 MC	2.64
6166	20 - 40 MC	2.64

BROADCAST DUAL WAVE TRAPS



Dual type. Contains both series and parallel resonant circuits. Will trap two different stations.

Number	Band	KC Range	Net
813-BC1	Broadcast	900-1600	\$ 2.55
813-BC2	Broadcast	500-900	2.55

SHIELDED BROADCAST-HAM WAVE TRAPS

Series 812 shielded. Eliminate interference from amateur and broadcast stations. Connect in series with antenna.

Number	Band	KC Range	Net
812-BC1	Broadcast	1200-1600	\$ 1.26
812-BC2	Broadcast	800-1200	1.26
812-BC3	Broadcast	500-800	1.26
812-B	Amateur	80M	1.26
812-C	Amateur	40K	1.26
812-D	Amateur	20M	1.26
812-E	Amateur	10M	1.26

CORNELL



DUBILIER

IF-20 IF-4 & IF-5 IF-6 IF-24

IF-4 - Plug-in type. Rating: 110 VDC. 5 amps. Net \$.73
 IF-5 - Same as above but for low intensity interference. Net \$.73
 IF-6. 110 VAC-DC. 5 amp rating. Same as above, with ground connection. Net \$ 1.15
 IF-20 - Wall plug-in type. 110 VAC-DC. 5 amp. Net \$.50
 IF-24 - Fluorescent light quietones. Capacitive-inductive filter for fluorescent lighting. 110 VAC-DC. Net \$.73

MILLEN WAVE TRAPS

Number	Net
79010 30 MC Wave Trap	\$ 1.05
79020 14 MC Wave Trap	1.05
79040 7 MC Wave Trap	1.05
79080 3.5 MC Wave Trap	1.05
79160 1.7 MC Wave Trap	1.05

SPRAGUE

FILTERS FOR FLUORESCENT LAMPS



3-section delta-connected filter especially designed for fluorescent fixtures. Only one required for each offending fixture. Also effective on make-break governor-type motors. U/L approved. For use on 110-220 AC-DC. Size: 1x2 1/2". TYPE IF-37 Net \$ 1.32

"Your trade-in's worth more at the WALTER ASHE STORE" 103



FILTERS FOR TVI



TVD-62



TVD-104

One filter should go into the antenna, another between the driver and a high power final is recommended. 40 MC cut-off, over 75 DB harmonic attenuation. Filters may be used with either 52 or 72 ohm coax input and output. For use at other impedances, an antenna tuning network should be used. Good for power up to a full KW. fundamental attenuation is negligible. No effect on antenna performance.

MODEL TVD-62. For 52 or 72 ohm coax. Kit of parts. Net \$ 15.95

MODEL TVD-62. Completely wired and tested. Net \$ 18.95

MODEL TVD-104. Diaxial for use on paired RGB/U or RG58/U or approximately 100 ohm coax. Kit of parts. Net \$ 22.95

MODEL TVD-104. Completely wired and tested. Net \$ 29.95



HIGH-PASS FILTERS

Essential filters designed to install directly in the antenna coil of the television receiver. 40 MC cut-off, no attenuation to signals above 40 MC. Will work on any manufactured set, does not affect picture strength or quality.

MODEL TVR-300. For 300 ohm twin lead. Kit of parts. Net \$ 1.98

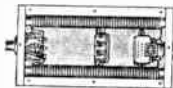
MODEL TVR-300. Completely wired and tested. Net \$ 3.98

MODEL TVR-62. For coaxial cable. Kit of parts. Net \$ 1.98

MODEL TVR-62. Completely wired and tested. Net \$ 3.98

BRUTE FORCE

LINE FILTER



RF that feeds back through AC lines is a common source of TVI. These line filters will effectively minimize this type of interference. Minimum of installation work.

MODEL TVL-1KW. For total maximum power from line of 1 KW. Kit of parts. Net \$ 11.95

MODEL TVL-1KW. Completely wired and tested. Net \$ 15.95

MODEL TVL-2.5KW. For total maximum power from line of 2.5 KW 110 or 220. Kit of parts. Net \$ 18.95

MODEL TVL-2.5KW. Completely wired and tested. Net \$ 24.95

BUD TVI FILTERS



HF-600



LF-601

TYPE HF-600 HI-PASS FILTER. For use on TV receivers to eliminate or minimize shock excitation or harmonics from short wave, amateur stations, diathermy, X-ray and ignition noises. Rejects signals from 0-42 MC. Picture strength and quality is not affected. Easily installed, size 3 1/2" x 2 1/2". Shpg. Wgt. 2 lbs. Net \$ 3.50

TYPE LF-601 LO-PASS FILTER. For use at transmitter to eliminate or reduce harmonics which cause TVI. Minimum attenuation of 85 DB on all frequencies above 54 MC, minimum of 93 DB above 70 MC. Rejection is adjustable from 60-90 MC. Unit will handle a full KW. Cutoff frequency is 42 MC. Insertion loss less than 1 DB. Can be used with 52 ohm or 72 ohm coax. All capacitors are variable. Individually shielded inductances. Shpg. Wgt. 4 1/2 lbs. Net \$ 13.23

R. L. Drake Filters



HP



LP

HIGH PASS TV RECEIVER FILTERS

Two section high pass filters for use in 300 ohm antenna lead to receivers.

NO. TV-300-50HP. For TV sets with 20 MC IF's. Net..... \$ 2.91

NO. TV-300-HP. For sets with 20 MC and 40 MC IF's. Net..... \$ 3.50

NO. UHF-300-HP. Constant-K type high pass filter. Attenuates RF interference caused by images and spurious signals from VHF-TV stations, oscillators of other TV receivers and UHF converters, signals at IF frequencies, etc., in the region below 450 MC. Net.... \$ 1.91

LOW PASS TRANSMITTER FILTERS

Two section M-derived filters, 44.5 MC cutoff frequency. For all bands, 10 to 160 meters. For coax or twin lead. Rated at 1 KW.

NO. TV-300-LP. For 300 ohms. Net..... \$ 12.69

NO. TV-52-40-LP. For 52-72 ohms..... 12.69

DRAKE

HALF WAVE

FILTERS



Band pass type filters, attenuate all frequencies outside band for which they are designed. For use in 300 ohm lead and open lines, 200-600 ohm. Rated 1 KW.

NO. TV-300-10HW for 10-11 M. Net..... \$ 10.73

NO. TV-300-15HW for 15 M..... 10.73

NO. TV-300-20HW for 20 M..... 10.73

DRAKE

LN-5

Inductube

Line Filter



Made up of Drake developed INDUCTUBE elements, effective even on UHF TV band. Very effective noise reducer. Plug into 115 V. AC-DC, plug TV or radio set into filter. Will handle up to 500 watts.

No. LN-5 LINE FILTER Net \$ 5.70



332



334



336



338



342



344



346

SWITCHCRAFT ADAPTERS

Shielded adapters which provide convenient interchange of equipment between various wiring devices.

No.	Function	Net
332	Phone jack input to female mike connectors output.	\$1.03
334	RCA type jack input to female mike connector output.	.86
336	Phone jack input to RCA type phono plug output.	.86
338	Male mike connector input to RCA type phono plug output.	.86
342	Dual purpose binding post/ banana jack input to phone plug output.	1.53
344	RCA type phono jack input to phone plug output.	.86
346	Tip jack input to phone plug output.	1.27

SWITCHCRAFT

"LITTEL PLUGS"



No.	Description	Net
240	2-conductor, black tenite handle.	\$.44
270	2-conductor, metal shell.	.62
260	3-conductor, black tenite handle.	.70
290	3-conductor, metal shell.	.82

SWITCHCRAFT

T-17B MIKE "LITTELPLUG"



NO. 48G. JAN type PJ-068 (PL-68) for use with T-17B mikes. 3-conductor. Net \$2.12

E. F. JOHNSON



NYLON TIP JACKS

Completely insulated jack, body molded from low-loss nylon. Beryllium contact recessed for maximum voltage breakdown. Low capacity to panel. 11,000 volt breakdown. Withstands high temperature and humidity. Takes standard pin plug. Mounts in 1/4" hole. NP brass nut furnished.

Number	Color	Net
105-601-1	White	\$.25
105-602-1	Red	.25
105-603-1	Black	.25
105-604-1	Green	.25

MODEL 250-20

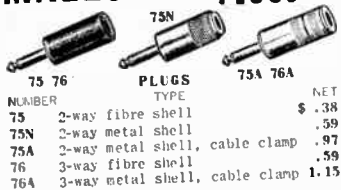
Net \$ 13.50

104 NEED NEW TEST EQUIPMENT?-We'll Trade In Your Old Units!

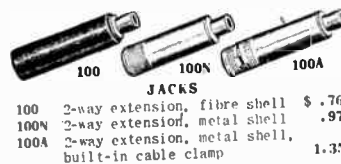
JACKS AND PLUGS

JAC

MALLORY JACKS AND PLUGS



NUMBER	TYPE	NET
75	2-way fibre shell	\$.38
75A	2-way metal shell	.59
76	2-way metal shell, cable clamp	.97
76A	3-way fibre shell, cable clamp	1.15



NUMBER	TYPE	NET
100	2-way extension, fibre shell	\$.76
100N	2-way extension, metal shell	.97
100A	2-way extension, metal shell, built-in cable clamp	1.35

TRIMM "FLAT-PLUG"



Non-protruding type. For close-in to panel use. Fits standard phone tips.
No. 512 Net \$.45

ICA PORTABLE LINE JACKS



- No. 1911. Single open circuit, bakelite cap. Size 1-5/8x3/4". Net Each \$.49
- No. 1913. Single open circuit, shielded cap. Size 2-1/8x11/16". Net Each \$.82
- No. 1903. 3-way portable mike jack, bakelite cap. Net Each \$.73
- No. 1904. 3-way portable mike jack, barrel is shielded. Net Each \$.98

CINCH

110-250 VOLT SOCKET



Rated 15 amps 110 V., 10 amps 250 V. High dielectric bakelite. Used on radio chassis and amplifiers as auxiliary socket for tuners, changers, etc. Mounts in 25/64"x 25/32" hole.
No. 2R2 Net \$.15

EL-MENCO

FUSED PLUG



No. EL-2. Fuses both sides of line. Takes 1/4" standard fuses. Net Each \$.30



Tapmaster

ONE-PIECE RUBBER CUBE TAPS

No. 135. A one-piece rubber cube tap. 3 outlets. Unbreakable. Net Each \$.25
Lots of 10 Net Each .23

REPLACEMENT PLUGS



No. 102. Spring action brass contacts. Black rubber handle, grip cap. Hole size .375. Net Each \$.10
Lots of 10 Net Each .09

No. 865. Streamlined AC plug. Easy to assemble. No exposed screws or wires. Net Each \$.15

MALLORY JUNIOR JACKS

Frame supports the spring stack at right angles with short springs. Requires only 1-5/16" space back of panel for mounting. Mounts in 7/16" diameter hole in panels up to 1/4" thick. Fits all standard Mallory plugs.

PLUGS	NO.	NET	P.O.	NET
	701	\$.32	704	\$.59
	702	.44	704A	.59
	702A	.44	704B	.59
	702B	.44	706	.68
	703	.50	706B	.68
	703A	.50	706C	.73
	703B	.50		
	703C	.50		

MIDGET PHONE JACKS



No. 102	Open Circuit	Net \$.19
No. 103	Closed Circuit	.23
No. JK-33A	For T17B Mike	.38

SHIELDED EXTENSION JACK



Cadmium plated brass shell. 2-7/16" long with black bakelite insert. This is line type socket for No. 2383 RCA type plug.
No. 81E Net Each \$.19

RCA TYPE PHONO PLUG AND JACK



No. 2383	Plug	Net \$.05
No. 2385	Jack	.07

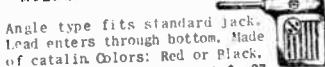
MOTOROLA TYPE ANTENNA PLUG AND JACK



PLUG has 1/8" pin. Fits No. 81F flange jack.
No. 13B Net Each \$.09

JACK mounts with screws or rivets. Shielded receptacle for 13B plug.
No. 81F Net Each \$.14

ICA GRIP-RITE MOLDED PHONE TIP PLUGS



Angle type fits standard jack. Lead enters through bottom. Made of catalin Colors: Red or Black.
No. 868 Red Net \$.27
No. 869 Black .27

SINGLE JACKS AND PLUGS



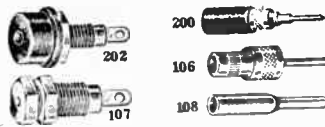
JACKS OF molded bakelite, mount in 3/8" holes. May also be used as feed-through. Colors: Black, Red.

No. 78-1P	For .080" Phone Tip	Net \$.05
No. 78-1S	For 3/32" Plug	.05
No. 78-1M	For 1/8" Plug	.05
No. 78-1L	For 5/32" Plug	.05

PLUGS FOR ABOVE

No. 71-1S	3/32"	\$.04
No. 71-1M	1/8"	.04
No. 71-1L	5/32"	.04

PHONE TIP JACKS AND PLUGS

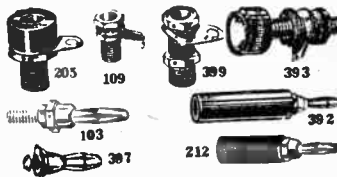


For phone tip jacks. Mount in 1/4" hole.
No. 202 Insulated Net E. \$.12
No. 107 Non-Insulated .09
Type 202 available in red, black, yellow and green.

PHONE PINS

For use with tip jacks listed above.
No. 200 Insulated handle Net E. \$.14
No. 106 Non-Insulated " " .10
No. 108 Standard phone tip " " .02
Type 200 available in red, black, yellow and green.

BANANA PLUGS AND JACKS



Number	Type	Net
212	Insulated Handle	\$.18
103	Non-Insulated	.12
392	Giant Ins.	.41
397	Giant Non-Insulated	.29

Type 212 available in red, black, yellow, and green; 392 in red and black.

BANANA JACKS

205	Insulated	\$.12
109	Non-Insulated	.09
393	Giant Jack	.38
399	Non-Insulated Giant Jack	.26

Type 205 available in red, black, yellow, and green; 393 in red and black.

TRIMM JACK PANELS



Jack panels for all applications. Used for terminating program lines, microphone lines, amplifiers, equalizers, etc. For use with standard "twin" type patch cords. Reinforced bakelite panels fit 19" racks.

- No. 96-01. 12 pairs jacks. 1-3/4" wide, depth 3-1/4". Net \$ 26.46
- No. 96-02. 24 pairs jacks. 2-1/8" wide, depth, 3-1/4". Net \$ 48.22

PATCH CORDS PLUGS



No. 506 standard three circuit. "Twin" plug, interchangeable with W.E. 241, A.D.C. PJ-1, etc. "840" Series patch cords available in various length cords with 506 plug on either end as listed below.

Number	Cord Length	Net
840-1-PP	1 Ft.	\$ 7.06
840-2-PP	2 "	7.35
840-3-PP	3 "	7.64
840-4-PP	4 "	7.91
840-5-PP	5 "	8.20
840-6-PP	6 "	8.47
840-10-PP	10 "	9.58

506 Plug only 2.73

"Your trade-in's worth more at the **WALTER ASHE STORE**"

KEY ELECTRONIC - SEMI-AUTOMATIC KEYS

VIBROPLEX

BUGS

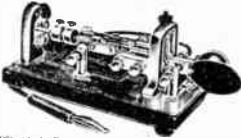
"SUPER DE LUXE"



"SUPER DELUXE" New patented adjustable main spring affords wider range of speed than ever obtained before. 24K gold-plated base top, polished chromium machine parts, colorful red switch knob, finger & thumb piece. Precision machining throughout. Jewel movement. Shpg. Wgt. 5 lbs.

Net \$ 29.95

THE Improved "ORIGINAL"



"ORIGINAL" Single lever style. 2 pairs of 3/16" contact points. Wt. 3 1/2 lbs. Very efficient machine, complete with cord and wedge. Finish: Polished chrome parts with black base. Circuit closing switch. Shpg. Wgt. 5 lbs.

Net \$ 17.95

"ORIGINAL DELUXE" Same as above but with chrome base and patented jewel movement.

Net \$ 22.50

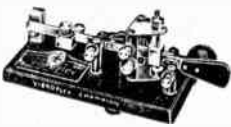
"LIGHTNING BUG"



"LIGHTNING BUG" One of the latest models by Vibroplex. Very easy to use, smooth quality at all speeds. May be slowed to 10 WPM. 3/16" contacts. Wt. 3 1/2 lbs. Complete with cord and wedge. Black base, polished chromium parts. With circuit closing switch. Shpg. Wgt. 5 lbs.

Net \$ 15.95

THE "CHAMPION"



"CHAMPION" For radio use only. Inexpensive bug with exceptional sending qualities. High quality bug at low price. 3/16" contacts. Wt. 3 1/2 lbs. Without switch, cord & wedge. Black base, chrome top parts. Shpg. Wgt. 5 lbs.

Net \$ 12.95.

CARRYING CASE



"VIBROPLEX CARRYING CASE" For all Vibroplex bugs. Cloth lined, outside finished in simulated black morocco. Reinforced corners. Will keep bug free from dust, dirt & moisture. Has lock & key. Shp. Wt. 1 lb.

Net \$ 5.75

E. F. JOHNSON

KEYS



PRACTICE KEY

Inexpensive practice key. All parts except base are nickel plated. Adjustable key arm spring, smooth bearings. 1/4" coin silver contacts. Phenolic base. Shp. Wt. 1 lb. NO. 114-300. Net.....\$ 1.71

PHENOLIC BASE KEY

High quality black phenolic base key. 1/4" contacts. Adjustable bearings. NP metal parts. No switch. Shpg. Wgt. 1 lb. NO. 114-301. Net.....\$ 1.91

STANDARD KEYS



Heavy die-cast base. Smooth adjustable bearings. 1/4" coin silver contacts. Provision for plugging in semi-automatic keys. Shpg. Wgt. 1 lb.

NO. 114-310. Black wrinkle, no switch. Net.....\$ 2.55
NO. 114-310-3. Black wrinkle with switch. Net.....\$ 2.94

HIGH SPEED STANDARD KEYS

High speed hand key, spring tension, contact spacing and bearings fully adjustable. Brass base and binding posts. Contacts .072". Shpg. Wgt. 1 lb.

NO. 114-100. Polished brass, no switch. Net.....\$ 4.80
NO. 114-100-3. Polished brass w/switch. Net.....\$ 5.44

CONSTANT FREQUENCY BUZZER



Fully adjustable. Coin silver contacts. Uses two dry cells or "C" battery. Shpg. Wgt. 1 lb. NO. 114-400. Net.....\$ 1.57

HEAVY DUTY KEYS

Heavy die-cast base, chrome-plated key arm, brass connector strips under base. 1/4" coin silver contacts. Navy type knob. Adjustable steel bearings. Shpg. Wt. 2 lbs. NO.114-320 Black wrinkle base. Net \$4.02
NO.114-321 Polished chrome base.... 5.00



TELEGRAPH SOUNDER

Designed for instant response, brass sounder provides a clear resonant tone. Bar frame is steel, black enamel finish. Brass bridge and adjustment screws. Mahogany wood base, brass binding posts, rubber mounting feet. Shpg. Wt. 3 lbs. NO. 114-112. 4 ohms. Net.....\$ 6.57
NO. 114-113. 20 ohms..... 6.81



LEARNER SET

Telegraph practice set for two-way operation. Bar frame steel, black enameled bridge. Brass sounding bar, black lacquered steel sounder plate. Adjustable, nickel plated key arm, brass binding posts, wood base with rubber feet. Shpg. Wt. 3 lb. NO. 114-110. 4 ohms. Net.....\$ 9.31
NO. 114-111. 20 ohms..... 9.55



PRACTICE SET

Constant frequency buzzer and key on 4x6" molded bakelite base. Use singly or in pairs for code practice. Shpg. Wgt. 2 lbs. NO. 114-450. Net.....\$ 4.16

MON-KEY



Electro-timed rhythm assures perfectly spaced and uniform dots, dashes, intervals. Adjustable speed control conforms to any operator's skill. May also be used as a monitor which produces a clear tone and may be adjusted both for volume and tone. Built-in 2" dynamic speaker. Has keying relay with 2 amp contacts for directly keying transmitter. Completely shielded. Feather touch paddle. Contacts protected from dust. Size: 11"x4"x4"H. For 115 volt AC or DC operation. Shpg. Wgt. 9 lbs. Net \$ 30.95

DOW-KEYS



Entire vibrating section rotatable through 45°. Turn to position which best suits your hand. Dot contact assembly will make firm dots for 12-15 seconds on one impulse. Heavy duty pure silver contacts. Adjustable paddle. Sends 10-60 WPM. Lucite knobs, paddles, and insulating ring. Complete with cord and wedge. Shpg. Wt. 5 lb. Net.....\$ 16.75

ELDICO

ELECTRONIC BUGS



Full description of these units, wired and kit form, on page 13.

106 READY FOR A NEW RECEIVER? - We'll Trade In Your Old One!

ARKAY RADIO KITS



3 WAY PORTABLE

MODEL 3W10-D. New modern, superhet circuit with plenty of selectivity and sensitivity. All low drain tubes, 1-1R5, 1-1U4, 1-1U5, 1-3V4. Operates on self-contained long-life batteries or 117 V. AC or DC. Built-in loop antenna, powerful Alrico V speaker. Tunes AM stations 550-1600 KC. Handsome leatherette case size 10 $\frac{1}{2}$ x7x6 $\frac{1}{2}$ D. Large easy-to-read dial. Complete pictorial, schematic, and step-by-step instructions included. Complete with case, tubes and all parts, less batteries. Shpg. Wgt. 6 lbs. Net \$ 19.95
C-5 7 $\frac{1}{2}$ V. "A" Battery .77
N-60 90 V. "B" Battery 2.77



ONE BAND KIT

Streamlined modern AC-DC radio kit. Five tubes including rectifier. Tuning range 550-1600 KC. All modern superheterodyne features. Simple and easy to construct. Easy to tune airplane dial. Housed in beautiful brown bakelite case, size 9x5x5. Uses one each 12SA7, 12SK7, 12SQ7, 50L6, 35Z5. 4" Alnico V PM speaker. 117V AC/DC. Complete with tubes; pictorial, schematic and step-by-step instructions for easy assembly. Shpg. Wgt. 6 lbs.
MODEL 5-S-E Net \$ 14.95

TWO-BAND KIT

High quality two-band superhet kit. Covers 550-1600 KC and 6-18 MC. 5" Alnico V PM speaker. Easy to assemble and operate. Instructions and schematics included. Airplane dial. Brown bakelite cabinet, size 12x7x7. Operates on 117V AC/DC. Complete with following tubes: 12BE6, 12BA6, 12AT6, 50B5, 35W4. Shpg. Wgt. 9 lbs.
MODEL 5-S-X Net \$ 18.95

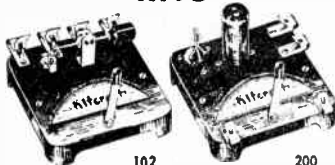
ONE AND TWO BAND KITS



New superheterodyne circuits available in single band and two band models. Use new style high gain coils. New AVC circuit. Complete with Alnico V PM speaker, slide rule dial, tubes, and handsome bakelite brown cabinet. Size. 11 $\frac{1}{2}$ x8 $\frac{1}{2}$ x6 $\frac{1}{2}$ ". Both models use one each, 12SA7, 12SK7, 12SQ7, 50L6, 35Z5. Operate on 117V AC/DC. Shpg. Wgt. 8 lbs.
MODEL T-3. Covers broadcast band, 550-1700 KC. Net \$ 16.95
MODEL T-5X. Covers broadcast band, 550-1700 KC, and shortwave band, 6-18 MC. Net \$ 19.95

Kitcraft

KITS



CRYSTAL RADIO SET

A practical beginner's course in radio, complete with illustrated building and operating instructions. Each crystal individually tested to high standard. Base and coil form of plastic. No soldering of parts required. No batteries required. Set needs only headphones and aerial to operate. Less phones.

MODEL 102. Net.....\$ 1.45

MINIATURE TUBE SET

Beginner's second step in radio education. A complete one-tube tuner and amplifier. Designed around a 1L4 high μ pentode tube all ready to assemble. Operates from batteries - no soldering required. A real performer. Complete with all parts and tube, less batteries and phones. Uses 1 $\frac{1}{2}$ volt dry cell and 22 $\frac{1}{2}$ or 45 volt battery.

MODEL 200. Net.....\$ 2.92



MEISSNER BEGINNER KITS

TWO-TUBE BATTERY KIT

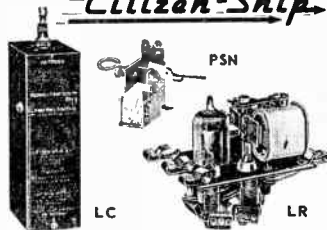
2-tube regenerative grid leak detector with resistance coupled pentode audio stage. Uses 1-174 & 1-3V4 tube types. Shipped with coils to cover broadcast band of 520-1530 KC. Additional coils available to cover the following frequencies: 175-540 KC, 1350-5.4 MC, 3.5-8 MC, 7.9-18.5 MC & 15-34 MC. Requires 4 $\frac{1}{2}$ volts A batteries & 180 volts B batteries. For use with phones having impedance of 2000 ohms or more. Kit is easily assembled from detailed pictorial diagram with simplified schematic. Size: 7 $\frac{1}{2}$ x4 $\frac{1}{2}$ x4 $\frac{1}{2}$ " D. Complete with broadcast coils, tubes, etc. Less batteries, headphones, wire and solder. Shpg. Wgt. 2 lbs.
MODEL T2BK Net \$ 10.29

THREE-TUBE AC-DC KIT

A 3-tube beginner's kit consisting of a regenerative grid leak detector with resistance coupled pentode audio stage. Uses 1-6B16, 2-50B5 tubes. Complete with coils to cover the broadcast range. See additional coils listed below for other frequencies. For use with headphones of 2000 ohms or more. Size: 7 $\frac{1}{2}$ x4 $\frac{1}{2}$ x4 $\frac{1}{2}$ " D. Operates on 105/125 volts AC-DC. Easily assembled. Tubes, pictorial diagram and simplified schematic, and hardware included. Less wire, solder, and phones. Shpg. Wgt. 2 $\frac{1}{2}$ lbs.
MODEL T3BK Net \$ 12.35

Number	Frequency Range	Net Each
18-3500	170-540 KC	\$ 1.76
18-3591	540-1500 KC	\$ 1.76
18-3502	1.4-4.5 MC	.89
18-3503	3.2-8.2 MC	.89
18-3594	8-18 MC	.89
18-3595	15-34 MC	.89

Citizen-Ship

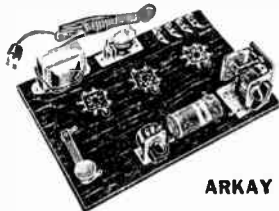


RADIO CONTROLS

TRANSMITTER. Operates on "examining-freqs" 27.255 MC frequency. Completely self-contained. For use with impulse-type radio remote-controlled devices used in model aircraft, boats, etc. Uses two 3V4 tubes. Uses two 67 $\frac{1}{2}$ volt "B" batteries Eveready 467 or equal and one 1 $\frac{1}{2}$ volt "A" Eveready 742 or equal. Antenna is made up of three lengths of aluminum tubing. Unit is factory tuned for optimum performance. Weighs only four lbs. with batteries. Size: 3x4x9". Complete with crystal, tubes, antenna, less batteries. Shpg. Wgt. 3 lbs.
MODEL *27* LC. Net.....\$ 34.95

RECEIVER. Operates on 27.255 MC in conjunction with Model LC transmitter. Batteries required: 67 $\frac{1}{2}$ volt "B", Eveready 457 or equal; 1 $\frac{1}{2}$ volt "A", two pen-cells in parallel. Uses one 3V4 tube, Sigma 4-F adjustable relay. Fiberglas indestructible base, size 2 $\frac{1}{2}$ x1 $\frac{1}{2}$ x2 $\frac{1}{4}$ ". Weighs only four oz. Detailed instructions included. Complete with tube less batteries. Shpg. Wgt. 2 lbs.
MODEL *27* LR. Net.....\$ 24.95

ESCAPEMENT. Self-neutralizing designed for use with above equipment. Gives reliable performance from fully wound motor to last few turns. Weighs only $\frac{1}{2}$ oz., operates as low as 1.5 volts, guaranteed for 25,000 operations, uses $\frac{1}{8}$ " flat rubber. Size: 7 $\frac{1}{2}$ x4 $\frac{1}{2}$ x4 $\frac{1}{2}$ ". Tested and adjusted. Shpg. Wgt. 8 oz.
MODEL PSN. Net.....\$ 5.95

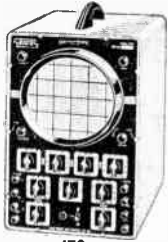


ARKAY

EXPERIMENTERS MULTI-PURPOSE KIT

10 kits in 1, designed for schools, beginners, and advanced students, experimenters, etc. Kit consists of parts to build any one of the following at a time - Broadc. Receiver, Phono or Mike Amplifier, Phono Oscillator, Home Broadcast Station, Code Practice Oscillator, Capacity Operate Relay, Signal Tracer, Electronic Timer Electronic Switch, Photo Cell Relay. Good way to actually learn circuitry by doing the work. Complete with all parts and tubes (1-12SF5, 1-35L6, 1-35Z5) less head phone, photo cell and socket, wire and solder. Operates on 117 VAC. Shpg. Wgt. 4 lbs.

MODEL 10-1. Net.....\$ 13.91



470



425



221



214



232



249

7-INCH SCOPE

OSCILLOSCOPE KIT. 7" push-pull scope with boosted vertical sensitivity, 10 MV RMS/inch. Frequency response: Vertical amplifier, flat 2 DB 10 CPS to 1 MC. Horizontal amplifier, 10 CPS to 500 KC. Sensitivity: Vertical amplifier, .01 volts R/MS per inch. Horizontal amplifier, .3 volts RMS per inch. Wide range, multi-vibrator type, sweep frequency generator 15 CPS to 100 KC. Balanced and linear sweep. Intensity modulation, external sync inputs; sawtooth and line frequency outputs - all on front panel. Internal retroce blanking. Excellent for all TV, radio, and industrial uses. Portable case, size 16x15x10". Complete kit of parts and tubes, instructions. For use on 110-120 VAC 60 cycle. Shpg. Wgt. 35 lbs.

MODEL 470-K. Net.....\$ 79.95
 MODEL 470. Same as above but completely factory wired and tested. Net...\$ 129.50

5" Push-Pull Oscilloscope

OSCILLOSCOPE KIT. Wide range high sensitivity, push-pull deflection scope for FM, TV, and AM alignment. Sensitivity .05 to .1 volts per inch. Wide range, flat from 5 CPS to 500 KC with full gain setting, useful to 2½ MC. Wide range, multi-vibrator, sweep circuit from 15 CPS to 75,000 CPS. Direct connection to plates of CR tube available at rear of cabinet. Z axis intensity modulation feature included. Size: 8½x17x13"H. Complete with 3-6SN7, 2-6J5, 2-5Y3, and 5BP1 tube. Operates on 110-120 VAC 60 cycle. Complete with all assembly instructions, diagram, tubes, parts, cabinet, and panel less solder. Shpg. Wgt. 30 lbs.

MODEL 425-K. Net.....\$ 44.95
 MODEL 425. Same as above but completely wired and tested. Net.....\$ 79.95



CATHODE RAY TUBE CHECKER KIT. Checks all size picture and scope tubes, electrostatic or magnetic deflection types in set or cartan. Neon lamp indicates shorts or open elements. Bridge measurement of peak beam current. Balancing control shows tube condition. Operates from 105-125 VAC. Complete with cables. Size: 9¼x6¼x3"D. Shpg. Wgt. 5½ lbs.

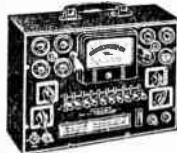
MODEL 630-K. Net.....\$ 17.95
 MODEL 630. Same as above but factory wired and tested. Net.....\$ 24.95

VTVM KIT. AC/DC RANGES: 0.5-10-100-500-1000. Electronic ohmmeter ranges from .2 ohms to 1000 megohms in five steps. Features include zero center for TV discriminator alignment. DC input impedance 26 megohms. 4½" meter. Double triode balanced bridge circuit assures stable performance. Portable steel case. Complete with all tubes; parts, instructions, less solder. Size: 9½x6x5", 110-130 VAC 50/60 cycle. Shpg. Wgt. 10 lbs.

MODEL 221-K. Net.....\$ 25.95
 MODEL 221. Same as above but factory wired and tested. Net.....\$ 39.95

VTVM KIT. Large 7½" rugged meter. Uses 1½ multiplier resistors. Has 15 useful ranges. AC/DC RANGES: 0.5-10-100-500-1000 (30 KV with HVP-1 probe). Measures to 200 MC with P-75 probe. 5 ohms ranges from .2 ohms to 1000 meg. DB scale. Has double-triode balanced bridge circuit. 26 megs. DC input impedance. Uses one each 6SN7, 6H6, 6X5. 3-color rub-proof panel; steel case, size 13¼x9x6". Operates on 110-130 VAC 50/60 cycle. Shpg. Wgt. 10 lbs.

MODEL 214-K. Net.....\$ 34.95
 MODEL 214. Same as above but factory wired and tested. Net.....\$ 54.95



TUBE TESTER KIT. A modern up-to-the-minute tube tester kit, easy to build and operate. Tests all conventional tubes, octal, loctal, novol, and pilot lamps. Has switch for individual testing of all elements. Two grid caps for convenience. Protective overload bulb. Blank spare socket and adaptor for new future tubes. Short and open element test. Illuminated "no back-lash" roll chart. Hand-rubbed panel, heavy gauge steel case with handle. Truly a real buy. Operates on 110-120 VAC, 60 cycle. Complete with all parts, tube, case, and panel, less solder. Size: 12½x9½x4¼". Shpg. Wgt. 12 lbs.

MODEL 625-K. Net.....\$ 34.95
 MODEL 625. Same as above but factory wired and tested. Net.....\$ 49.95

PICTURE TUBE ADAPTER. For use with Model 625. Tests all picture tubes accurately and is complete with socket and necessary cable. Not necessary to remove tube from set. Shpg. Wgt. 2 lbs.

MODEL CRA. Net.....\$ 4.50

Vacuum Tube Voltmeter KITS

PEAK-TO-PEAK VTVM KIT. Complete with new dual-purpose UNI-PROBE, eliminates changing probes, one probe does all the work. A half turn of probe selects DC or AC Ohms. Measures directly P-P voltage of complex and sine waves, 0.4-14.42-420-1400-4200. DC/RMS sine voltage ranges, 0.1-5.5-15-50-150-500-1500, reads up to 30,000 volts with HVP probe. Resistance, 0.2 ohms to 1,000 megs in seven ranges. Large 4½" meter. Zero center for TV-FM discriminator circuit. One zero adjustment for all functions and ranges. Frequency response is 30 CPS to 3 MC (up to 250 MC with PRF probe). Uses 1½ precision ceramic resistors. Size: 7x5x4"D. Grey wrinkle case with satin finish etched panel. Operates on 110-130 VAC 50/60 cycle. Shpg. Wgt. 10 lbs.

MODEL 232-K. Net.....\$ 29.95
 MODEL 232. Same as above but factory wired and tested. Net.....\$ 49.95

VACUUM TUBE VOLTMETER

WITH BIG 7½ INCH METER. Has all the outstanding features and advantages of the Model 232-K plus extra convenience and readability of the larger meter. Shpg. Wgt. 10 lbs.

MODEL 249-K. Net.....\$ 39.95
 MODEL 249. Same as above but factory wired and tested. Net.....\$ 59.95

STEEL COUNTER DISPLAY CASE. For use with Model 625. Easily slips into counter case when removed from carrying case. Shpg. Wgt. 8 lbs.

MODEL TTC-1. Net.....\$ 14.95



OSCILLOSCOPE VOLTAGE CALIBRATOR KIT. Complete kit of parts for making accurate calibrator. Square wave output at power-line frequency with full scale readings of .1-1-10-100 volts peak-to-peak. Amplitude variable from zero on each range. 5% accuracy dial reading. 1% accuracy resistors. Regulated power supply. Binding posts on panel for quick connections. Blue-grey homertone case, size 7½x5x4½". Operates on 105-125 VAC 50/60 cycle. Shpg. Wgt. 4 lbs.

MODEL 495-K. Net.....\$ 12.95
 MODEL 495. Same as above but factory wired and tested. Net.....\$ 17.95



322



360

Signal Generator KITS

SIGNAL GENERATOR KIT. Excellent instrument for service, lab, and school use. Can be used for FM-AM alignment and to provide TV marker frequencies. Highly stable Hartley oscillator has range of 150 KC to 102 MC, fundamentals to 34 MC. Audio oscillator supplies 400 cycle sine wave for modulation. Audio oscillator voltage can be used for testing distortion in audio equipment, bridge measurements, etc. Complete RF section features turret type coil assembly and ceramic insulated variable condensers. Dial calibrated in 7 bands. Complete with tubes, parts, instructions, diagram, and cables. Less solder. Size: 10x8x4 $\frac{1}{4}$ ". Operates on 110-120 VAC 60 cycle. Shpg. Wgt. 10 lbs.

MODEL 320-K, Net.....\$ 19.95

MODEL 320. Completely factory wired, tested, and calibrated. Net.....\$ 29.95

RF-AF SIGNAL GENERATOR KIT. Features individual calibration of each of its five bands. This, in addition to all other outstanding qualities of Eico Model 320, has the Hartley oscillator which produces fundamentals from 150 KC to 34 MC with calibrated powerful harmonics to 102 MC. Colpitts audio oscillator generates 400 cycle pure sine wave voltage. Switch arrangement permits pure RF, modulated RF, or pure AF for external testing of distortion in audio equipment, etc. Vernier tuning condenser, 0-100 reference scale, TV and FM IF's marked on scale. 3-color etched panel, heavy gauged steel case, 110-120 VAC 60 cycle. Size: 10x8x4 $\frac{1}{4}$ ". Shpg. Wgt. 11 lbs.

MODEL 322-K, Net.....\$ 23.95

MODEL 322. Same as above but factory wired and tested. Net.....\$ 34.95

TV-FM SWEEP SIGNAL GENERATOR KIT. Features include a crystal marked oscillator with all TV and FM alignment frequencies between 500 KC and 228 MC. Sweep width variable from 0-30 MC with mechanical inductance sweep. Extremely wide sweep width allows gain comparison of adjacent RF TV channels. Provides for injection of external signal generator marker. Phasing control included. Vernier dial, calibrated in frequencies. May be used with Model 425-K or other scopes. Complete with diagram, wiring instructions, operating manual, cabinet, panel, and all tubes, less solder and crystal. Uses 2-6C4, 1-12AU7, 1-6X5GT. Size: 10x8x6 $\frac{3}{4}$ ". Operates on 110-120 VAC, 60 cycle. Shpg. Wgt. 12 lbs.

MODEL 360-K, Net.....\$ 34.95

MODEL 360. Same as above but factory wired and tested. Net.....\$ 49.95



511

V-O-M KIT

VOLT-OHM-MILLIAMMETER KIT. Uses germanium crystal for AC. DCV RANGES: 0-5-50-250-500-2500. ACV RANGES: 0-10-100-500-1000. OUTPUT: 0-10-100-500-1000. DCMA: 0-1-10-100. DC AMP: 0-1-10. OHMMETER: 0-500-100,000-1 meg. DB ranges from -8 to +55. Complete with instructions and batteries, less leads and solder. Size: 8x4 $\frac{1}{2}$ x3"D. Shpg. Wgt. 3 $\frac{1}{2}$ lbs.

MODEL 511-K, Net.....\$14.95

MODEL 511. Same as above but factory wired and tested. Net.....\$ 17.95



AUDIO GENERATOR KIT. Provides stable sine and square waves for every audio and TV application. Complete sine wave coverage from 20-200,000 cycles in four ranges individually calibrated on panel. Complete square wave coverage from 60-10,000 cycles. 1% accuracy frequency selector resistors. 0-100 linear reference scale. High power output with Wien bridge oscillator. Improved cathode follower output circuit for stability. Continuously variable power output: 100 mw into rated load. Only 1% distortion. Tubes used: 1-6X5, 1-6SJ7, 2-6K6, 1-6SN7. Operates on 115 VAC 50/60 cycle. Size: 11 $\frac{1}{2}$ x7 $\frac{1}{2}$ x7 $\frac{1}{2}$ ". Shpg. Wgt. 20 lbs.

MODEL 377-K, Net.....\$ 31.95

MODEL 377. Same as above but factory wired and tested. Net.....\$ 49.95

TV-FM-AM

SIGNAL GENERATOR



SIGNAL GENERATOR KIT. A complete deluxe TV-FM-AM signal generator for all service and alignment requirements. 1% accuracy. Covers frequencies from 75 KC to 150 MC. Large easy-to-read dial with microcycle bandspread vernier tuning. Voltage regulated. Complete with all parts, panel, case, tubes, instructions, and assembly information, less wire and solder. Shpg. Wgt. 21 lbs.

MODEL 315-K, Net.....\$ 39.95

MODEL 315. Same as above but completely factory wired and tested. Net.....\$ 59.95



565-555



566-556

Ohms/Volt Multimeter KITS

MULTI-METER KIT. 20,000 ohms per volt sensitivity. 31 full scale ranges. DC-AC-OUTPUT VOLTS: 0-2.5-10-50-250-1000-5000. DC CURRENT: 0-100 ua, 10-100-500 MA, 10 amps. OHMS: 0-2000, 200K, 20 meg. 5 DB ranges from -12 to +55. Large 4 $\frac{1}{2}$ " 50 ua meter movement. Hand calibrated and tested rectifier. Bakelite case, size 6 $\frac{1}{2}$ x5 $\frac{1}{2}$ x3". Shpg. Wgt. 3 lbs.

MODEL 565-K, Net.....\$ 24.95

MODEL 565. Same as above but factory wired and tested. Net.....\$ 29.95

MULTI-METER KIT. 20,000 ohms per volt. Same as Model 565-K but has 1% precision resistors.

MODEL 555-K, Net.....\$ 29.95

MODEL 555. Same as above but factory wired and tested. Net.....\$ 34.95

MULTI-METER KIT. 1000 ohms per volt sensitivity. Large 4 $\frac{1}{2}$ " 400 ua meter movement. Has 38 full scale ranges. DC-AC-OUTPUT VOLTS: 0-1-5-10-50-100-500-5000. DC-AC CURRENT: 0-1-10 MA, 0-1-1 amp. OHMS: 0-500, 100K, 1 meg. 6 DB ranges from -20 to +69. Dual rectifier. Bakelite case, size 6 $\frac{1}{2}$ x5 $\frac{1}{2}$ x3". Shpg. Wgt. 3 lbs.

MODEL 566-K, Net.....\$ 14.90

MODEL 566. Same as above but factory wired and tested. Net.....\$ 18.95

MULTI-METER KIT. Same as Model 566-K but has 1% precision resistors.

MODEL 556-K, Net.....\$ 16.90

MODEL 556. Same as above but factory wired and tested. Net.....\$ 23.50

MODEL 536



MODEL 526

MULTI-METER KIT. 31 ranges. DC-AC VOLTS: 0-1-5-10-50-100-500-5000. DC-AC CURRENT: 0-1-10 MA, 0-1-1 amp. OHMS: 0-500, 100K, 1 meg. 6 DB ranges from -20 to +69. Large 400 ua meter movement. Dual rectifier has separate low and high AC calibration. Bakelite case, size 6 $\frac{1}{2}$ x4 $\frac{3}{4}$ x2". Shpg. Wgt. 2 lbs.

MODEL 536-K, Net.....\$ 12.90

MODEL 536. Same as above but factory wired and tested. Net.....\$ 14.90

MULTI-METER KIT. Same as Model 536-K but has 1% precision resistors.

MODEL 526-K, Net.....\$ 13.90

MODEL 526. Same as above but factory wired and tested. Net.....\$ 16.90



FLYBACK TRANSFORMER AND YOKE TESTER KIT. Quick and positive tests on flybacks and yokes in or out of set. Operates on the extremely sensitive grid dip principle, shows up even one shorted turn. Separate calibration for air core or iron core units. Tests continuity of yokes, coils, speakers, switches, etc. Operates on 110-130 VAC 50/60 cycle. 4½" meter. Grey wrinkle case, size 7x5x4". Satin finish etched panel. Shpg. Wgt. 7 lbs.

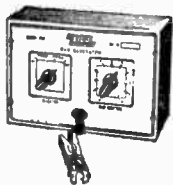
MODEL 944-K, Net.....\$ 23.95
 MODEL 944. Same as above but factory wired and tested, Net.....\$ 34.95

RESISTANCE-CAPACITANCE BRIDGE AND RCL COMPARATOR KIT. Latest bridge-type instrument directly reads 0.5 ohms to 500 megohms resistance (4 ranges), 10 mmfd-5000 mfd. capacitance (4 ranges), and power factor. Kit includes precision calibrating resistor. Unique comparator range for R, C, and L comparison measurement against external standard. Leakage testing of all capacitors at rated DC working voltage with internal 500 VDC source. Electron-ray tube as both bridge balance and capacitor leakage indicator. Operates on 117 VAC 60 cycles. Size: 10x8x4¼" Shpg. Wgt. 10 lbs.

MODEL 950B-K, Net.....\$ 19.95
 MODEL 950-B. Same as above but factory wired and tested, Net.....\$ 29.95

ELECTRONIC SWITCH KIT. Enables observation of two patterns on one scope simultaneously, compare voltage and current amplitudes, waveforms, frequencies and phase relationships, set up reference levels, check distortion, etc. Continuously variable switching rates from less than 10 CPS to over 2,000 CPS in three ranges. Useful as square wave generator over some range. Both patterns are adjustable separately and may be superimposed or separated. Operates on 105-125 VAC. Size: 6x8x6". Shpg. Wgt. 7 lbs.

MODEL 488-K, Net.....\$ 23.95
 MODEL 488. Same as above but factory wired and tested, Net.....\$ 39.95



BAR GENERATOR KIT. Portable lightweight instrument which will produce series of horizontal or vertical bars on TV screen when connected to TV set antenna pasts. Shows overall picture size, vertical and horizontal sync circuit stability. Operates on channels 3, 4, or 5. 16 vertical bars, 12 horizontal bars. Panel switch for selection of type of operation. Output voltage 100,000 microvolts. Operates from 105-125 VAC. Size: 7½x5x4¼", Shpg. Wgt. 7 lbs.

MODEL 352-K, Net.....\$ 14.95
 MODEL 352. Same as above but factory wired and tested, Net.....\$ 19.95



DELUXE SIGNAL TRACER KIT. 5-tube transformer-operated instrument for TV, FM, and AM troubleshooting. Uses one fully shielded probe and ground lead which serves for all RF, audio, noise tracing. Seven 5-way binding posts on panel for connection as test speaker, amplifier, or output transformer, and connection to VTVM or scope. For use in locating noisy or intermittent components. Visual and aural indication in signal tracing. Uses Magic-Eye tube for visual indications. Operates on 105-125 VAC. Size: 9x10x5". Shpg. Wgt. 10 lbs.

MODEL 147-K, Net.....\$ 24.95
 MODEL 147. Same as above but factory wired and tested, Net.....\$ 39.95



RTMA RESISTANCE SUBSTITUTION BOX KIT. Rapidly substitutes wide range of resistance values in an operating circuit to determine size required for best performance, determines value of badly burned or otherwise illegible resistors by substitution. Range from 15 ohms to 10 megohms, in decade multiples 15, 22, 33, 47, 68, and 100 ohms. Resistors are 1 watt 10% tolerance. 5-way jack-top binding posts. Size: 3½x6½x3½"D. Shpg. Wgt. 3 lbs.

MODEL 1100-K, Net.....\$ 5.50
 MODEL 1100. Same as above but factory wired and tested, Net.....\$ 9.95



1180

1171

CONDENSER DECADE KIT. Capacitance range from 100 mmf to 0.111 mfd in steps of 100 mmf. All capacitors are precision silver mica, 1% accuracy. 5-way binding posts take practically any type test lead connection. 500 volt rating at any capacity setting. Blue-grey hammertone case, size 9x3½x3½", Shpg. Wgt. 3 lbs.

MODEL 1180-K, Net.....\$ 14.95
 MODEL 1180. Same as above but factory wired and tested, Net.....\$ 19.95

RESISTANCE DECADE BOX KIT. Supplies resistance values from 0.99,999 ohms with ½% precision. Five separate switches with ten positions on each. Binding posts permit instant substitution of actual equivalent component for the resistance value indicated. Sturdy steel case, size 3½x12x3", Shpg. Wgt. 3 lbs.

MODEL 1171-K, Net.....\$ 19.95
 MODEL 1171. Same as above but factory wired and tested, Net.....\$ 24.95



BATTERY ELIMINATOR AND CHARGER KIT. For bench testing and servicing of 6 and 12 volt auto radios. Charges all 6 and 12 volt batteries. DC output 0-8 volts, 10 amps continuous or 20 amps intermittent. 0-16 volts, 6 amps continuous, 12 amps intermittent. Continuous voltage adjustment with Variac type transformer. Separate voltmeter and ammeter. Fused primary, automatic reset overload relay for secondary. Blue hammertone steel cabinet, size 10½x7¼x8¾". May be wall mounted. Operates on 105-125 VAC 50/60 cycle. Shpg. Wgt. 17 lbs.

MODEL 1050-K, Net.....\$ 29.95
 MODEL 1050. Same as above but factory wired and tested, Net.....\$ 38.95



MULTI-SIGNAL TRACER KIT. Engineered for audible tracing of IF, RF, FM video and audio circuits. Self-contained speaker. Front panel jacks for VTVM use. Response is over 200 MC. Diode probe for stage by stage gain included. May also be used for one-way small PA or intercom system. Complete with 6SJ7, 6K6, 6X5 tubes, diode probe, all parts, panel, and case, less solder. Size: 10x8x4¼". Operates on 110-125 VAC, 60 cycle. Shpg. Wgt. 9 lbs.

MODEL 145-K, Net.....\$ 19.95
 MODEL 145. Same as above but factory wired and tested, Net.....\$ 28.95

110 NEED NEW TEST EQUIPMENT?-We'll Trade In Your Old Units!

EICO PROBES



OSCILLOSCOPE PROBES

MODEL PD. Direct probe for TV waveform tracing in low Z or low frequency circuits. Eliminates stray pickup and signal re-radiation.

MODEL PD. Kit form. Net.....\$ 2.75
MODEL PD. Wired and tested..... 3.95

MODEL PLC. Low capacity probe for TV waveform tracing in high Z, high frequency or wide band circuits. Eliminates distortion from overloading or frequency discrimination.

MODEL PLC. Kit form. Net.....\$ 3.75
MODEL PLC. Wired and tested..... 5.75



MODEL PSD. Demodulator probe for signal tracing and checking of TV and radio RF and IF stages; for stage-by-stage alignment; and for locating hum modulation, ratio detector marking and marker generator calibration. Demodulates amplitude-modulated carriers-between 150 KC and 250 MC.

MODEL PSD. Kit form. Net.....\$ 3.75
MODEL PSD. Wired and tested..... 5.75



VTVM PROBES

MODEL PTP-11. Peak-to-peak probe for direct reading of peak-to-peak voltages directly on DC scales of Eico or other VTVM with input of 11 megohms.

MODEL PTP-11. Kit form. Net.....\$ 4.95
MODEL PTP-11. Wired and tested.... 6.95

MODEL PTP-25. Same as above but for VTVM with input of 25 megohms.

MODEL PTP-25. Kit form. Net.....\$ 4.95
MODEL PTP-25. Wired and tested... 6.95

MODEL PRF-11. RF probe for measurements up to 250 MC on Eico or other VTVM with input of 11 megohms. Accuracy $\pm 10\%$.

MODEL PRF-11. Kit form. Net.....\$ 3.75
MODEL PRF-11. Wired and tested.... 4.95

MODEL PRF-25. Same as above but for VTVM with input of 25 megohms.

MODEL PRF-25. Kit form. Net.....\$ 3.75
MODEL PRF-25. Wired and tested.... 4.95



HVP-1



MODEL HVP-2. High voltage probe for measurements up to 30,000 volts DC. For Eico Models 214-221 VTVM. 740 megohm resistor supplied. Wired only. Net.....\$ 4.95

MODEL HVP-1. Rugged, heavy duty model of HVP-2. Complete with 740 megohm resistor for Eico 214-221. Wired only. Net.....\$ 6.95

We can supply HVP-1 and HVP-2 probes for most any model and brand of VTVM or VQMA. Space does not permit listing. Send us your requirements.

PRECISE Test Equipment IN KIT AND WIRED FORM



7" TUBE CATHODE RAY OSCILLOSCOPE KIT. VERTICAL: Flat $\pm 1\frac{1}{2}$ DB through 5 MC with sensitivity of less than 10 uv PP, constant resistance, shunting bar at inputs 1 and 2 converts push-pull to single-ended normal or reverse phase; push-pull DC amplifiers throughout input and output, internal electronic mixing. POSITIONING: Bridge type on vertical and horizontal. HORIZONTAL: Frequency compensated attenuator in amplifier, push-pull output. SYNC: External, internal plus or minus 60 or 120 cycles. SWEEP RATE: From 1 cycle to 80 KC in 5 ranges. MAGNIFIER: 10 times. CALIBRATION: Internal square wave calibrator and potentiometer for use as VTVM on peak-to-peak measurements. SCREEN: Filtered, edge-lighted scale. INTENSITY MODULATION: Z through modulation amplifier. Size: 11x14x17". Fused circuit. Deep etched aluminum panel. Operates from 105-120 VAC. Complete with all tubes and components. Shpg. Wgt. 33 lbs. MODEL 300-K. Net.....\$ 94.95
MODEL 300. Same as above but factory wired and tested. Net.....\$ 199.50

8 $\frac{1}{2}$ " TUBE CATHODE RAY OSCILLOSCOPE KIT. Same general specifications as Model 300 but has anode intensifier and frequency synchronization control to eliminate horizontal jitters, plus full voltage regulation for stability. Size: 11x14x19". Complete with all tubes, components, and detailed construction instructions. Shpg. Wgt. 35 lbs.

MODEL 308-K. Net.....\$ 129.50

MODEL 308. Same as above but factory wired and tested. Net.....\$ 229.50



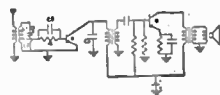
VACUUM-TUBE-VOLTMETER KIT. Easy-to-read $4\frac{1}{2}$ " rugged meter. Burnout proof circuit. Ceramic precision resistors, 1% or better. Deeply etched panel with raised numerals. True zero alignment scale for TV and FM discriminators. AC and DC voltage ranges: 0-5-25-250-500-1000. Resistance: .2 ohms to 1 billion ohms in 5 ranges. DB: -20 to +55. 25 megohm input impedance on DC. Complete with test leads and internal battery. Operates on 105-125 VAC. Fully detailed 3-color instruction book. Size: $9\frac{1}{2}$ x6x5". Shpg. Wgt. 10 lbs.

MODEL 909-K. Net.....\$ 25.98

MODEL 909. Same as above but factory wired and tested. Net.....\$ 37.50

MODEL 912 RF PROBE. Permits reading of frequencies up to 250 MC on Model 909. Net.....\$ 4.25

MODEL 999 HIGH VOLTAGE PROBE. Permits DC voltage readings up to 30,000 on Model 909. Net.....\$ 6.98



TRANSISTOR KIT. For schools, experimenters, laboratories, etc. Complete with parts to build one-stage audio amplifier, two-stage RC coupled audio amplifier, two-stage transformer coupled amplifier, multi-vibrators, audio oscillator, RF oscillator, signal tracer, tuned signal tracer, etc., as separate experiments. Each experiment is explained in detail with the complete transistor story. (Batteries, mike, speaker, or headphones not included.) Kit includes electrolytic condensers, coils, potentiometer, transformer, two transistors, one germanium diode, chassis, terminal strips, wire, resistors, and condensers. Detailed instruction book included. Shpg. Wt. 3 lbs. MODEL T-1. Net.....\$ 17.95



VACUUM-TUBE-VOLTMETER KIT. Voltage regulated. Large $7\frac{1}{2}$ " meter movement. Ceramic precision resistors, 1% or better. Special separate 5 VAC scale for accuracy. Frequency range up to 250 MC with No. 912 Accessory Probe. Zero alignment scale for discriminators. Burnout proof circuit. 25 meg input impedance. AC and DC voltage ranges: 0-5-25-250-500-1000. Resistance: .2 ohms to 1 billion ohms in 5 ranges. DB: -20 to +55. Detailed 3-color instruction book. Attractive steel cabinet with handle. Size: 11x8x5". Operates on 105-120 VAC. Shpg. Wgt. 11 lbs. MODEL 9071-K. Net.....\$ 35.95

MODEL 9071. Same as above but factory wired and tested. Net.....\$ 49.95

MODEL 912 RF PROBE. Extends range of Model 9071 to 250 MC. Net.....\$ 4.25

MODEL 999.W HIGH VOLTAGE PROBE. Extends range of Model 9071 to 30,000 VDC. Net.....\$ 6.98

MUTUAL CONDUCTANCE AND EMISSION TUBE TESTER KIT. New type rotary switches allow connection to each element individually. Positive short test. No backlash roll chart. Checks all types of tubes quickly and accurately. Also checks picture and CR tubes with included adapter. Complete with detailed instruction book. Sturdy steel case with deeply etched aluminum panel. Size: 14x16x6". Shpg. Wgt. 30 lbs.

MODEL 111-K. Net.....\$ 69.90

MODEL 111. Same as above but factory wired and tested. Net.....\$ 139.90

"Your trade-in's worth more at the WALTER ASHE STORE" (111)

RADIO CONTROL KITS

Philmore

ONE-TUBE KIT

PLUS RECTIFIER



RC-333T



RC-222R



RCEU

FOR HOBBY MODELS

Transmitter, receiver, and escapement units for controlling hobby model planes, railroads, boats, etc. TRANSMITTER KIT employs 3A4 tube and operates on 27.255 MC. Three-section telescopic antenna supplied, extends from 34" to 90". No coil winding to be done, coils are supplied wound and ready for assembly. Unit can be held in one hand, weighs only 2 lbs. 6 oz. less batteries. Power input approximately 2.7 watts. Case size: 6x6x3 3/4". Requires one 1 1/2 V "A" battery, two 67 1/2 V "B" batteries. RECEIVER KIT uses RK61 or XFG1 in self-quenching super-regenerative circuit. Small and compact, mounted on bakelite strip 2 1/2 x 1 1/2 x 1 1/2" D. Weighs only 3 1/2 oz. with volume control. Requires two 1 1/2 V "A" batteries, two 22 1/2 V "B" batteries.

TRANSMITTER KIT. Less batteries, with full instructions. Shpg. Wgt. 5 lbs.
MODEL RC-333T. Net.....\$ 16.98

RECEIVER KIT. Less batteries, with full instructions. Shpg. Wgt. 2 lbs.
MODEL RC-222R. Net.....\$ 17.32

ESCAPEMENT UNIT. For use with above units, completely assembled. Shpg. Wgt. 1 lb.
MODEL RCEU. Net.....\$ 3.60

COMBINATION OFFER: Consists of Model RC-333T Transmitter and Model RC-222R Receiver, less Escapement Unit.
MODEL RC-333TR. Net.....\$ 33.15

915. 1 1/2 V Battery for Receiver. Net...\$.08
412. 22 1/2 V Battery for Receiver..... .88
964. 1 1/2 V Battery for Transmitter..... .23
477. 67 1/2 V Battery for Transmitter.... 1.81

AC-DC RADIO KITS

1-BAND MODEL

MODEL 100-1. Modern up-to-the-minute AC-DC superheterodyne kits. Well designed and easy to assemble and wire. Schematic, pictorial, and step-by-step instructions included. Extreme sensitivity and selectivity. Powerful Alnico V speaker. Has built-in loop antenna. Cover AM frequencies 550-1600 KC. Tubes used: 1-12SA7GT, 1-12SK7GT, 1-12SQ7GT, 1-50L6GT, 1-35Z5GT. Large illuminated airplane dial. Operates on 117 volts AC-DC. Beautiful cabinet, size 8 1/2 x 6 x 5 1/2". Complete with all parts and tubes. Shpg. Wgt. 6 lbs.

MODEL 100-1B Ivory and Red \$ 20.89

2-BAND MODEL

MODEL 100-2. Similar to Models 100-1 as described above but has two bands. Tunes AM frequencies 550-1600 KC and also covers shortwave band 5.5 to 16 megacycles. Kit includes all parts, tubes, and cabinet. Shpg. Wgt. 6 1/2 lbs.

MODEL 100-2B Ivory and Red \$ 24.37



PHILMORE

"SELECTIVE" CRYSTAL RECEIVER

A modern crystal receiver which uses germanium crystal. Features variable condenser tuning and high "Q" coil which is tapped at critical point and connected to permanently fixed crystal. Excellent volume and selectivity. Easy to assemble, comes with pictorial diagram in gummed lobliform to be placed on base as template showing location of all parts and connections. Complete with all parts including crystal, less headphones and antenna. Shpg. Wgt. 2 lbs.

MODEL VC-1000. Net.....\$ 3.14

TWO-TUBE KIT

PLUS RECTIFIER



One tube plus rectifier AC-DC radio kit. Complete kit of parts furnished with simple assembly and operating instructions and diagrams. Covers the broadcast band. Anyone without previous knowledge or skill can construct in short time. For use with headphones (not supplied). Uses 1-35Z5, 1-12SJ7GT. Complete with all parts, less tubes.

MODEL 7001B. Net.....\$ 7.35
Kit of tubes for above. Net..... 1.70

Two tube plus rectifier AC-DC radio kit. A more elaborate kit than Model 7001B. Has much greater signal strength. Also permits use of 4" PM speaker which is supplied with kit. Covers the broadcast and shortwave bands, 550-1650 KC and 6-18 MC. Easy to assemble and operate and, when finished, you have a two-band set. Complete with easy-to-follow instructions, wiring diagram, and operating manual. Excellent opportunity for one with no previous knowledge to learn fundamentals of radio. Uses 1-12SJ7, 1-50L6, 1-35Z5. Complete with all parts, less tubes.

MODEL 7001C. Net.....\$ 11.76
Kit of tubes for above. Net..... 2.71

"LITTLE MIRACLE" KIT



One-tube portable battery radio kit. Easy to build and assemble, requires only screwdriver, pliers, soldering iron. Smooth tuning from 550 KC to 1650 KC. Regular variable condenser and Litz-wound coil. The carton is the cabinet. Highly sensitive regenerative detector circuit, good selectivity and volume. Full instructions and diagrams included. Uses 3V4 tube. Complete with all parts, headphone, antenna wire, tube, and cabinet. Uses one flashlight cell (1 1/2 V), 1-22 1/2 V. (Eveready 412 or Burgess U-15). Size: 10x5 1/2 x 3". Less batteries, solder, and hook-up wire. Shpg. Wgt. 2 lbs.

MODEL 7501. Net.....\$ 7.20

IMPORTANT NOTICE CONCERNING THE PURCHASE OF ALL KITS

Great care is exercised by manufacturer to see that customer has received correct components which are called for in kit. In the event kit does not operate properly after correct assembly, customer should contact Walter Ashe Radio Company or manufacturer giving details of difficulty.

Under no circumstances will Walter Ashe Radio Company or manufacturer assume any liability for any expense incurred by customer to put assembled unit in working order. All test equipment, radio and transmitting kits are normally shipped less the wire and solder.

112 READY FOR A NEW RECEIVER? - We'll Trade In Your Old One!

SIMPSON PANEL METERS

ME

INSTRUMENTS THAT STAY ACCURATE



SIMPSON



Model 25 DC, 3" Round Case - Flange diam. 3 1/4"; Depth overall, 2 3/4"; Body diam., 2 3/4"; Scale length, 2 9/16"; Bakelite case. Shpg. Wgt. 2 lbs.

Model 27, 3" Rectangular Case. Width 3"; Height, 3 1/4". Mounts in round hole. Body diam. 2 3/4". Bakelite case. Shpg. Wgt. 2 lbs.

DC MILLIAMMETER

Range	Round Model 25	Square Model 27	Net Each
0-1	"	"	\$ 8.53
0-1.5	"	"	8.53
0-3	"	"	8.53
0-5	"	"	8.53
0-10	"	"	8.53
0-15	"	"	8.53
0-20	"	"	8.53
0-25	"	"	8.53
0-50	"	"	8.53
0-75	"	"	8.53
0-100	"	"	8.53
0-150	"	"	8.53
0-200	"	"	8.53
0-250	"	"	8.53
0-300	"	"	8.53
0-500	"	"	8.53
0-750	"	"	8.53
0-1000	"	"	8.53



THREE INCH



SIMPSON



RADIO FREQUENCY AMMETERS

Internal Thermocouple

Model 35 3 1/2" Round bakelite case. Shpg. Wgt. 2 lbs.

Model 37, 3 1/2" Square bakelite case. Shpg. Wgt. 2 lbs.

Range	Round Model 35	Square Model 37	Net Each
0-1	"	"	\$ 10.29
0-1.5	"	"	10.29
0-2	"	"	10.29
0-2.5	"	"	10.29
0-3	"	"	10.29
0-5	"	"	10.29
0-10	"	"	10.29

3" VOLUME LEVEL INDICATORS DB METERS

Copper oxide rectifier type. High power level in 6 MW. 500 ohm line. 3 1/2" rectangular case.

MODEL 47

General Purpose Type

-10 to +6 DB, 5000 ohms Net \$ 12.05

High Speed Type

-10 to +6 DB, 5000 ohms Net \$ 12.94

Low Speed Type

-10 to +6 DB, 5000 ohms Net \$ 12.94

VU METERS

Available in VU or Per Cent scales.

Model	Description	Net Each
47	Non-Illuminated, 3" Square	\$ 15.58
142	Illuminated, 4" Square	19.11



SIMPSON TWO INCH



Model 125 DC. 2" Round case-2 3/8" Square. Mounts in round hole. Body diam., 2 3/16". Shpg. Wgt. 2 lbs.

Model 127 DC. 2" Rectangular case. 2 3/8" Square. Mounts in round hole. Body diam. 2 3/16". Shpg. Wgt. 2 lbs.

DC MILLIAMMETERS

Range	Round Model 125	Square Model 127	Net Each
0-1	"	"	\$ 7.50
0-1.5	"	"	7.50
0-3	"	"	7.50
0-5	"	"	7.50
0-10	"	"	7.50
0-15	"	"	7.50
0-20	"	"	7.50
0-25	"	"	7.50
0-50	"	"	7.50
0-75	"	"	7.50
0-100	"	"	7.50
0-150	"	"	7.50
0-200	"	"	7.50
0-250	"	"	7.50
0-300	"	"	7.50
0-500	"	"	7.50
0-750	"	"	7.50
0-1000	"	"	7.50

DC AMMETERS

Range	Round Model 25	Square Model 27	Net Each
0-1	"	"	\$ 8.53
0-1.5	"	"	8.53
0-2	"	"	8.53
0-3	"	"	8.53
0-5	"	"	8.53
0-10	"	"	8.53
0-15	"	"	8.53
0-25	"	"	8.53
0-50	"	"	8.53
15-0-15	"	"	8.53
30-0-30	"	"	8.53
50-0-50	"	"	8.53

DC MICROAMMETERS

Number	Round Model 25	Square Model 27	Net Each
0-25	"	"	\$ 14.55
0-50	"	"	11.61
0-100	"	"	11.02
0-200	"	"	9.41
0-500	"	"	8.97

A.C. INSTRUMENTS



Model 55 AC, 3" Round case - Flange diam., 3 1/4"; Depth overall 2 3/4"; Body diam., 2 3/4"; Scale length 2 9/16"; Bakelite case. Shpg. Wgt. 2 lbs.

Model 57 AC, 3" Rectangular case. Width 3"; Height 3 1/4". Mounts in round hole. Body diam. 2 3/4". Bakelite case. Shpg. Wgt. 2 lbs.

AC VOLTMETERS

Range	Round Model 55	Square Model 57	Net Each
0-3	"	"	\$ 7.94
0-5	"	"	7.94
0-10	"	"	7.94
0-15	"	"	7.94
0-25	"	"	7.94
0-50	"	"	7.94
0-100	"	"	7.94
0-150	"	"	9.41
0-300	"	"	9.41
0-500	"	"	13.23

AC MILLIAMMETERS

Range	Round Model 55	Square Model 57	Net Each
0-10	"	"	\$ 7.94
0-15	"	"	7.94
0-25	"	"	7.94
0-50	"	"	7.94
0-100	"	"	7.94
0-250	"	"	7.94
0-500	"	"	7.94

AC AMMETERS

Range	Round Model 55	Square Model 57	Each Net
0-1	"	"	\$ 7.94
0-2	"	"	7.94
0-3	"	"	7.94
0-5	"	"	7.94
0-10	"	"	7.94
0-15	"	"	7.94
0-25	"	"	8.23
0-50	"	"	9.11

DC VOLTMETERS

Range	Round Model 25	Square Model 27	Net Each
0-3	"	"	\$ 8.67
0-5	"	"	8.67
0-10	"	"	8.67
0-15	"	"	8.67
0-25	"	"	8.67
0-50	"	"	8.67
0-100	"	"	8.67
0-150	"	"	8.67
0-200	"	"	8.67
0-250	"	"	8.67
0-300	"	"	8.67
0-500	"	"	8.67
0-750	"	"	8.67

METERS LISTED ABOVE HAVE INTERNAL RESISTORS. THOSE LISTED BELOW HAVE EXTERNAL 1% CARBOFILM RESISTORS.

0-1000	"	"	12.49
0-1500	"	"	12.49
0-2000	"	"	12.49
0-2500	"	"	12.49
0-3000	"	"	12.49
0-4000	"	"	12.49
0-5000	"	"	12.49

REPLACEMENT CASES

2" Round	Net \$ 1.32
2" Rectangular	1.32
3" Round	1.44
3" Rectangular	1.44

20% DEPOSIT REQUIRED ON

C.O.D. ORDERS

"Your trade-in's worth more at the **WALTER ASHE STORE**"

**SIMPSON
THREE INCH
ILLUMINATED**

Simpson Illuminated meters use the method patented by them and are not found on any other make of instrument. The old-fashioned way of shining a light through a translucent dial has caused many cases where the heat from the bulb will make the dial fade, buckle, and discolor. Simpson employs a single bulb and Lucite cone to transmit light to the face and give sufficient illumination to be read with ease with no danger of failure due to heat. Neoprene seal on cone.

RECTANGULAR ILLUMINATED



MODEL 27 DC MILLIAMMETERS

Range	Net	Range	Net
0-1	\$ 10.00	0-100	\$ 10.00
0-10	10.00	0-150	10.00
0-15	10.00	0-200	10.00
0-25	10.00	0-300	10.00
0-50	10.00	0-500	10.00

MODEL 27 DC VOLTMETERS

0-10	10.14	0-1000*	13.96
0-50	10.14	0-2000*	13.96
0-150	10.14	0-3000*	13.96
0-300	10.14	0-4000*	13.96
0-500	10.14	0-5000*	13.96

*Have external Carbofilm resistors, others have internal resistors.



MODEL 57 AC VOLTMETERS

Range	Net	Range	Net
0-10	\$ 9.41	0-150	\$ 10.88
0-15	9.41	0-300	10.88

MODEL 57 RF AMMETERS

0-1	11.76	0-3	11.76
0-2	11.76	0-5	11.76

**BUD
STREAMLINED
METER CASES**



All cases have sloping front with top corner rounded. No. CM-1241 and No. CM-1242 have insulators on top for leads to meter. Black wrinkle finish only. Shpg. Wt. 1 1/2 lb.

Number	Meter Size	Hole Diameter	Net Each
CM-1241	2"	2.334"	\$ 1.22
CM-1242	3	2.835	1.22
CM-1965	2	2.334	.93
CM-1966	3	2.835	.93

ALL PRICES AND SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE



Meters



MODEL 227T

2 INCH DC MILLIAMMETERS

Rectangular flush mounting. 2 3/4" square. Body diameter 2 1/2". Body depth 1". Shpg. Wgt. 2 lbs.

Range	Range	Range	Range
0-1	0-15	0-100	0-300
0-1.5	0-25	0-150	0-500
0-5	0-50	0-200	0-750
0-10	0-75	0-250	0-1000

Any above. Net Each.....\$ 7.35

MODEL 327T

3 INCH DC MILLIAMMETERS

3" rectangular molded case. Body diameter 2 3/4". Body depth 1". Flush mounting.

Range	Range	Range	Range
0-1	0-15	0-150	0-500
0-1.5	0-25	0-200	0-750
0-3	0-50	0-250	0-1000
0-5	0-75	0-300	
0-10	0-100	0-400	

Any above. Net Each.....\$ 8.33

MODEL 337S

3 INCH AC VOLTMETERS

3" square molded case. Body diameter 2 3/4". Body depth 1". Flush mounting.

Range	Net
0-10	\$ 8.33
0-15	8.33
0-150	9.31

SHURITE

PANEL TYPES



With rectangular case for flush mounting. Case size: 2 1/2" x 2 1/4". Requires 2 1/2" hole for mounting. DC meters are polarized-vane solenoid type, AC meters are double-vane repulsion type with jeweled bearing. Shpg. Wgt. 1 lb.

MODEL 950 DC MILLIAMMETERS

Range	Net	Range	Net
0-10	\$ 1.96	0-150	\$ 1.57
0-15	1.62	0-200	1.57
0-25	1.57	0-300	1.57
0-50	1.57	0-400	1.52
0-100	1.57	0-500	1.52

MODEL 950 DC VOLTMETERS

0-3	1.57	0-100	2.01
0-5	1.57	0-150	2.11
0-10	1.62	0-300	3.04
0-15	1.71	0-500	3.97
0-25	1.76	0-750	4.70
0-50	1.86		

MODEL 950 DC AMMETERS

0-1	1.57	0-15	1.67
0-3	1.57	0-25	1.96
0-5	1.57	0-50	2.25
0-10	1.57		

MODEL 950 AC VOLTMETERS

0-10	2.65	0-150	3.38
0-15	2.65	0-300	3.77
0-50	3.14		

MODEL 950 AC AMMETERS

0-1	2.65	0-15	2.65
0-3	2.65	0-30	2.94
0-5	2.65	0-50	3.14
0-10	2.65		

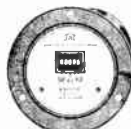


MODEL 701 DC Milliammeters

**3/4 INCH METAL FLUSH TYPE
ACCURACY WITHIN 2%**

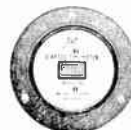
Range	Div.	Net Each	Range	Div.	Net Each
0-1	50	\$ 5.25	0-100	50	\$ 4.93
0-2	40	4.93	0-150	60	4.93
0-5	50	4.93	0-200	40	4.93
0-10	50	4.93	0-300	60	4.93
0-15	60	4.93	0-500	50	4.93
0-25	50	4.93	0-800	40	4.93
0-50	50	4.93	0-1000	50	4.93

**VIBRATING REED
FREQUENCY METER**



MODEL 31-FX. Used extensively in radio, electronics, telephone and industrial applications. Consists of five vibrating reeds which are accurately calibrated to but one frequency. Range 58-62 cy. For operation on 110-130 VAC. Molded bakelite case, size 3 1/2" O.D. Mounts in 2-11/16" hole. Shpg. Wgt. 2 lbs.

Net \$ 23.18



ELAPSED TIME METER

MODEL 31-EX. Records operating time of AC electrical and electronic equipment. Registers up to 9999.9 hours in 1/10 hour steps, then automatically resets. 1/10ths shown in red numerals, others in black. Excellent for recording running time of tube life, TV equipment, maintenance schedules, machinery overhaul, etc. Molded bakelite case, size overall 3 1/2". Hole size 2-11/16". Shpg. Wt. 2 lbs.

110-130 VAC, 60 cy. Net \$ 15.63
220-240 VAC, 60 cy. 16.71

Conant Laboratories

METER RECTIFIERS



For replacement and construction. Complete instructions included. Shpg. Wgt. 6 oz.

TYPE	VOLTS	MA	INT.	VOLTS	MA	CONT.	NET EACH
T	20	60	10	30	30	\$ 1.50	
N	20	60	10	30	30	2.06	
HS	10	60	5	30	30	1.50	
H	10	60	5	30	30	1.18	
R	20	10	10	5	2.06		
BHS	10	10	5	5	1.50		
BT	20	10	10	5	1.50		

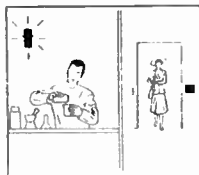
WORNER PHOTO-ELECTRIC APPARATUS PHO

WORNER FOTOELECTRIC ANNOUNCER

Automatically Announces The Entrance or Passing of Any Object



A busy attendant knows when unseen customers enter.



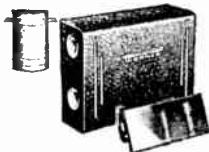
Where instant service is essential, every entrant is announced.



Secret quarters are protected against unwanted intrusion.



The doctor's privacy is never interrupted due to an absent receptionist.



THE THREE-PIECE SET:
Fotoelectric Unit
Mirror With Bracket
Six Volt Chime

The Fotoelectric Announcer is a complete 3-piece set. It is designed to project a beam of light across any entrance to any room or building. Breaking of this light beam by person entering activates a pleasant chime, automatically announcing the entrant. Chime can be located wherever signal is desired. The unit has efficient grid controlled rectifier circuit which insures maximum stability. The unit combines Exciter Lamp and sensitive Photo-Cell in metal case, size 8 1/2 x 2 1/2 x 2 1/2", beautifully finished in grey hammerloid. Bulb has long lamp-life rating of 2000 hours. Operates on 110/120V, 50/60 cy. AC. Shpg. Wgt. 7 lbs.

MODEL 61 FOTOELECTRIC ANNOUNCER, Net \$ 23.52
NO. 1129 Replacement bulb for above, Net \$.33

THE FOTOELECTRIC KITS

For Electronic Experimental Work

MODEL 69 AMPLIFIER KIT. Designed for experimental work by teachers, students, etc. Will operate on any source of light that provide a change of light density. Relay rated at 5 ampere, 110 volt AC operation. Shpg. Wgt. 4 lbs. Net \$ 10.66

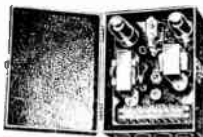
In Place of
Photo Cell Kit
Model 69



MODEL 39 LIGHT SOURCE KIT. Equipped with special 50-watt bulb in well designed optical system to project diffused beam 25 feet. Complete with cord and plug. Ideal for use with Model 69 Amplifier. Easy to assemble. Shpg. Wgt. 4 lbs. Net \$ 6.43



ELECTRONICALLY OPERATED RELAY MODEL 64



MODEL 64. An economical unit for practically any industrial application where cost is a factor. Designed for use with a combination of standardized Worner Photo-Cell and Exciter Lamp units. Will supply voltage to operate bulb. Recommended for uses where light beam distance isn't over 50 feet, or where relay is not required to operate in excess of 250 times per minute. Contains SPDT relay with 5 amp contacts. Size: 8x6x5. Operates from 110, 120 VAC 60 cy. Shpg. Wgt. 10 lbs. Net \$ 49.62

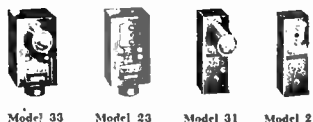
MODEL 63. Especially designed for use with a correct combination of the standardized Worner Photo-Cell and Exciter Lamp units. Electronically operated relay will operate also from light source units such as daylight, artificial lights, etc. Efficiently meets exacting requirements and replaces the need of costly individually engineered equipment. Size: 9x11x5. Shpg. Wgt. 15 lbs. Net \$ 73.50

MODEL 63A. Combines Model 63 and Time Delay Circuit giving delay from zero to 45 seconds. Net \$ 110.25

MODEL 63B. Same as Model 63 with additional application to operate on less active change of light. Net \$ 110.25

EXCITER LAMP & PHOTO-CELL RECEIVER UNITS

For Use With Models 63, 63-A, 63-B and 64
Electronically Operated Relays



Model 33 Model 23 Model 31 Model 21

The Exciter Lamp unit is designed to project the light beam and the Photo-Cell Receiver is designed to pick up the beam and convert its light into electrical energy through the electronically operated relay unit. For use in damp surroundings, Models 33 and 23 can be made water-proof at a slight additional cost.

MODEL 33 EXCITER LAMP is standard for general application and is most generally recommended. Its light beam covers a distance from a few inches to 25 feet from Exciter Lamp to Photo-Cell. Heavy duty, cast iron unit with 1/2" conduit fittings. Grey finish. Size: 4 1/2 x 2 1/2 x 2 1/2". Shpg. Wgt. 5 lbs. Net \$ 9.93

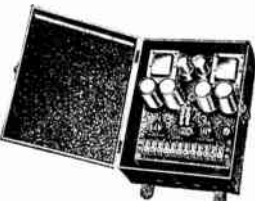
MODEL 23 PHOTO-CELL RECEIVER is engineered for use with Model 33 Exciter Lamp. Size: 4 1/2 x 2 1/2 x 2 1/2". Shpg. Wgt. 5 lbs. Requires amplifier. Net \$ 14.34

MODEL 31 EXCITER LAMP is standard where a lighter weight case is practical. Its light beam covers a distance from a few inches to 25 feet from Exciter Lamp to Photo-Cell. Case is 18 gauge steel, grey wrinkle finish. Has 1/2" knock-out. Size: 6-3/8 x 2 1/2 x 3-1/4". Shpg. Wgt. 4 lbs. Net \$ 8.09

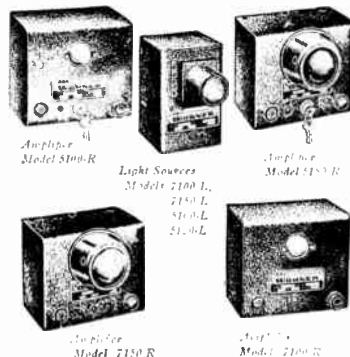
MODEL 21 PHOTO-CELL RECEIVER is engineered for use with Model 31 Exciter Lamp. Size: 6-5/8 x 2 1/2 x 3-1/4". Shpg. Wgt. 4 lbs. Requires amplifier. Net \$ 12.49

NO. 1130 Replacement Bulb for Model 33 & Model 21 Exciter Lamps. Net \$.43

MASTER AMPLIFIER



MODEL
63



Amplifier Model 5000-R
Light Sources Model 7100-L, 7150-L, 7150-L
Amplifier Model 5150-R
Amplifier Model 7150-R
Amplifier Model 7100-R

WORNER BURGLAR ALARMS MODEL 5000 SERIES

MODEL 5000 SERIES. Consists of light source and amplifier unit. Designed for interior use where single beam is desired. Any interruption of this beam operates electrical warning device. Light beam may be reflected by use of mirrors. Light source is equipped with specially engineered lenses, infra-red filters. 110 VAC operation. Amplifiers equipped with knob controlling on/off switch, lock controlled warning signal, phone jack for meter to test plate current. Complete with tubes, lenses, sensitivity control, 5 amp SPDT relay. Shpg. Wgt. 10 lbs.

Number	Type	Net
5100	100 Foot System	\$ 66.15
5150	150 Foot System	83.79

WORNER BURGLAR ALARM MODEL 7000 SERIES

MODEL 7000 SERIES. Consists of one or more light sources and amplifier sets that can be installed with coil systems, traps or others. Light source is equipped with removable infra-red filter which excludes all visible light. Amplifier has jack to measure plate current, sensitivity control, SPDT relay, 5 amps. Each system consists of amplifier and light source. Shpg. Wgt. 20 lbs.

Number	Type	Net
7100	100 Foot System	\$ 61.74
7150	150 Foot System	79.38
7250	250 Foot System	106.57
7500	500 Foot System	163.37

Models 7050 and 7000 are weatherproof.

"Your trade-in's worth more at the WALTER ASHE STORE" (115)

PIL PILOT LIGHTS AND ASSEMBLIES

WESTINGHOUSE

PILOT LIGHTS



Q.	NET EACH	NET PER 10 VOLTS	AMP.	BASE	READ
0	\$.12	\$.80	6-8	.15	SC Brown
1	.12	.80	6-8	.15	Bay. Brown
2	.12	.80	2.5	.50	SC White
3	.13	.87	3.2	.50	SC Green
4	.12	.80	2.5	.50	Bay. White
5	.12	.80	6-8	.25	Bay. Blue
6	.13	.87	3.2	.50	Bay. Green
7	.12	.80	6-8	.25	SC Blue
8	.16	1.07	2.0	.06	SC Pink
9	.16	1.07	2.0	.06	Bay. Pink
10	.12	.80	6-8	.20	SC Pink
11	.17	1.13	2.9	.17	SC Pink
12	.11	.73	6-8	.20	Bay. Pink
13	.11	.73	6-8	.40	Bay. Pink
14	.30	2.00	28	.17	Bay White
15	.30	2.00	28	.17	SC White

MINIATURE LAMPS

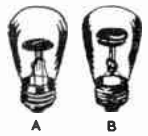
CANDELABRA BASE



6	Candelabra Base, 110 V. 6 Watts	\$.18
7	Candelabra Base, 110 V. 7 Watts	.15



NEON GLOW LAMPS



105-125 VOLT TYPE

Q.	Fig.	Watts	Base	Res.	Each	Net Per 10
1	.51	D	1/25	SCBM	200000	\$.12 \$1.08
2	.2	C	1/25	Wire	200000	.09 .81
3	.17	G	1/4	DCBC	30000	.67 6.03
4	.16	E	1/4	DCBC	---	.63 5.67
5	.48	E	1/4	DCBC	30000	.53 4.77
6	.45	F	1/4	CS	Int.	.65 5.85
7	.57	H	1/4	CS	Int.	.70 6.30
8	.32	J	1	DCBC	4800	.65 5.85
9	.30	I	1	MS	Int.	.70 6.30
10	.34	A	2	MS	Int.	.75 6.75
11	.40	B	3	MS	Int.	1.15 10.35

210-250 VOLT TYPE

12	.58	F	1/2	CS	Int.	.65 5.85
13	.56	I	1	MS	Int.	.70 6.30

*16 meets government specs JAN-1a for 1. SCBM means single contact bayonet miniature, DCBC means double contact bayonet candelabra, CS means candelabra screw, MS means medium screw. Figures in 1st column indicate necessary series resistor, others have internal resistor base.

ARGON GLOW LAMPS

Argon lamps are used principally in the field of fluorescence. They produce a limited amount of near ultraviolet in the 50 Angstrom region. Also used in many photographic applications and for indicators.

Number	Fig.	Watts	Volts	Base	Res.	Net
-4	G	1/4	105/125	DCBC	15000	\$.65
-3	H	1/4	105/125	CS	Int.	.67
-2	B	2	105/125	DCBC	3500	.75
-1	A	2	105/125	MS	Int.	.75

PILOT SIGNICO LIGHT ASSEMBLIES



HORIZONTAL MOUNTED 1/2" JEWEL

Horizontal mounting assembly complete with 1/2" jewel. Mounts in single 11/16" hole. Jewel is removable and allows access to lamp from front. Complete with red, green, amber or clear jewel. Fits panel thickness to 1/4". Bright nickel finish. Less bulb.

No.	For Bulb	Net
305	Miniature Bayonet	\$.32
305-S	Miniature Screw	.32
25	Jewel, bushing and mounting nut.	.23

HORIZONTAL MOUNTED 1" JEWEL

Single hole horizontal mount assembly for 1" jewel. Mounts in 1" hole, holder is of polished chrome. Bulb is replaceable from front of panel. Complete with red, green, amber or clear faceted jewel. Less bulb. U/L approved.

No.	For Bulb	Net
95-B	Miniature Bayonet	\$.83
95-M	Miniature Screw	.83
95-C	Candelabra	.83
75A1	Jewel, bushing and nut	\$.54

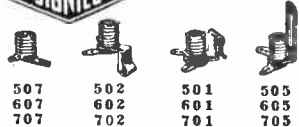
VERTICAL MOUNTED 1/2" JEWEL

Vertical single hole mounting, complete with 1/2" jewel. Mounts in 7/16" hole. Choice of red, green, amber or clear faceted jewel. Fits panel thickness to 1/4". Bright nickel finish. Less bulb.

No.	For Bulb	Net
105	Miniature Screw	\$.21
105-B	Miniature Bayonet	.21
16	Jewel Assembly only with nut.	.15
10-C	Slotted bracket assembly for adjustment to lamp center. Otherwise as above. S. C. candelabra base.	.27



PILOT LIGHT SOCKETS



Pilot lamp sockets in a variety of types for all applications. Lugs are tinned for easy soldering. Sockets cad plated.

5-07	Miniature screw, lug suspend	\$.07
6-07	Candelabra base, lug suspend	.11
7-07	Miniature bayonet, lug suspend	.08
5-02	Down-clip, miniature screw	.09
6-02	Down clip, candelabra	.11
7-02	Down clip, miniature bayonet	.10
5-01	Up clip, miniature screw	.09
6-01	Up clip, candelabra	.11
7-01	Up clip, miniature bayonet	.11
5-05	Adjustable slide, min. screw	.08
6-05	Adjustable slide, candelabra	.11
7-05	Adjustable slide, min. bayonet	.09

NEON LAMP ASSEMBLY

Panel assembly for NE-51 neon bulb. Built-in 50K resistor for 110 volt. Mounts in 11/16" hole. Less bulb. Colors: red, amber, clear. Specify color desired.

No. 95408	Net \$.97
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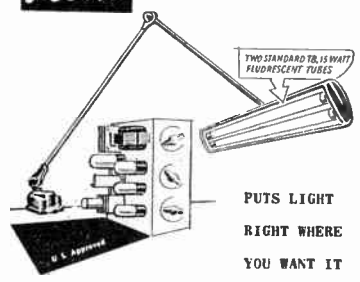
PILOT LAMP INSTALLER

Useful tool for removing or installing pilot light, no broken glass hazard.

No. I-73	Net \$.26
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LIGHT

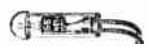


The ideal lamp for factory benches, office desks, laboratories, home workshops, ham shacks. Double-arm extends 36". Attractive bronze finish. White porcelain reflector. Two bolts clamp base to surface up to 3" thick. Remove bolts for screw mounting. Uses two T8, 15-watt fluorescent tubes. Operates on 105-125 60 cy. AC. Shpg. Wgt. 10 lbs. Less tubes.

MODEL 4303	Net Each \$ 14.21
Lots of 3.	Net Each \$13.27
T-8 TUBES for 4303 Lamp,	Net Each \$.65

"OMNI-GLOW"

NEON-TYPE PILOT LIGHTS



Completely enclosed in plastic case. Low in cost and will burn up to 12,000 hours over voltage ranges of 75-150 volts. Requires 1/2" mounting hole. 4" tinned leads. Complete with bulb and locknut.

NO. 1010A1	Red	Net \$.53
NO. 1010A2	Clear	.53
NO. 1010A3	Amber	.53

WIDE ANGLE LUCITE LENS

E. F. JOHNSON



5/8" threaded jewel. For single contact miniature bulb, 47, 49, etc. Mounts in 11/16" hole. Red, amber, green, or clear. Specify color jewel. Less bulb.

No. 147-1142	Net \$.67
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JOHNSON PANEL LIGHT



For front panel lighting. Polished NP hood. Mounts in 1/2" hole. For miniature screw base bulb. Less bulb.

No. 147-330	Net \$.73
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CLIP-IN SOCKET

4-603	Bayonet Base	\$.12
4-606	Miniature Screw	.12
4-607	Candelabra Base	.15

WALTER ASHE RADIO CO.

STORE HOURS:
9:00 A. M. to 5:30 P. M.
Monday through Saturday

16 NEED NEW TEST EQUIPMENT? - We'll Trade In Your Old Units!

RELAYS FOR MOST APPLICATIONS

REL

PR Series HEAVY DUTY POWER RELAYS



PR SERIES. Heavy duty power relays designed for power circuits across-the-line, starting, up to one H.P., heater loads up to 20 amps, remote break-in of transmitters, etc. $\frac{3}{16}$ " silver contacts. SPECIFY VOLTAGE.

Type	Contacts	Position	Net
PR1A	SPST	Normal Open	\$ 3.50
PR5A	SPDT	Normal Open	4.80
PR7A	DPST	Normal Open	4.25
PR11A	DPDT	---	5.70

115 VAC 50-60 CYCLE COIL			
Type	Contacts	Position	Net
PR1A	SPST	Normal Open	4.15
PR5A	SPDT	Normal Open	4.45
PR7A	DPST	Normal Open	4.90
PR11A	DPDT	---	6.35

220 VAC 50-60 CYCLE COIL			
Type	Contacts	Position	Net
PR1A	SPST	Normal Open	4.15
PR5A	SPDT	Normal Open	4.45
PR7A	DPST	Normal Open	4.90
PR11A	DPDT	---	6.35

6 VDC COIL			
Type	Contacts	Position	Net
PR1D	SPST	Normal Open	3.50
PR1D	SPST	Normal Open	3.50

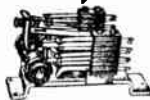
**LK Series
LATCHING RELAYS**

TYPE LK17A. Electrical latch, electrical release relay with high shock and vibration resistance. For multiple circuit switching of power loads, 1/8" 5 ampere contacts, 4PDT, 115 VAC 50/60 cy. coil. Net \$ 6.90



Potter & Brumfield

AP Series RATCHET OR IMPULSE RELAYS



TYPE AP17A. Ratchet or impulse relay. Will actuate on 20 MS impulses. Accurate and positive cam action with no over-travel. 5 ampere, 3/16" silver contacts. 4PDT contacts, 115 VAC 50/60 cy. coil. Net \$ 9.00

KL Series MULTIPLE CONTACT RELAYS



KL SERIES. Multiple contact relays that will withstand high shock and vibration. High dielectric phenolic insulation make these units suitable for RF and AP power switching. 5 amp silver contacts. 115 VAC 50/60 cy. coil.

TYPE	CONTACTS	NET
KL14A	3PDT	\$ 4.30
KL17A	4PDT	5.80

COIL BOBBIN KIT
24 assorted molded phenolic 1000 volt RMS bobbins, 3 each of 8 different sizes. Core diameter from $\frac{3}{16}$ " to $\frac{1}{4}$ ".

TYPE 75A047. Net.....\$ 1.50

LM Series



PLATE CIRCUIT RELAYS

LM SERIES. High grade medium cost plate circuit relays for electronic controls, photo-electric, etc. Silver, 5 ampere contacts. Sensitivity readjustable by tail spring nut. Specify coil wanted.

TYPE	CONTACTS	RESISTANCE	VA	NET
LM5	SPDT	2500	6.3	\$ 2.80
LM5	SPDT	5000	1.5	2.95
LM5	SPDT	10,000	3.2	3.30
LM11	DPDT	2500	9.0	4.20
LM11	DPDT	5000	6.3	4.35
LM11	DPDT	10,000	4.5	4.70

LS Series PLATE CIRCUIT RELAYS



LS SERIES. Similar to Types LM but sensitivity adjustment is made by bending tail spring hook. Silver 5 amp contacts.

TYPE	CONTACTS	RESISTANCE	VA	NET
LS5	SPDT	2500	9.0	\$ 2.25
LS5	SPDT	5000	6.3	2.35
LS5	SPDT	10,000	4.5	2.55

TRANSMITTER RELAY

Advance



Antenna Relay - DPDT, 115 VAC coil, Low loss insulation for 1 KW RF power switching. Shpg. Wgt. 1 lb.

No. AT/2C/115VA Net \$ 7.74

ANTENNA LATCHING RELAYS

DPDT $\frac{1}{4}$ " pure silver contacts. Operates with 2 push buttons. Shifts antenna immediately and locks. No current drain when push button not depressed. Handles 1 KW RF. Shpg. wgt. 1 lb.

No. AL/2C/115VA 115 VAC Net \$ 10.17

MIDGET RELAY COIL, 115 V. A. C.



Double Pole—Double Throw

With all switching above ground, relays have an armature hinge of beryllium copper assuring positive contact in any position and preventing misalignment. Laminated phenolic insulation. All metallic parts are cadmium or nickel-plated. 1/8" pure silver contacts are rated at 1.5A @ 115 VAC (non-inductive). Shpg. Wgt. $\frac{1}{4}$ lb.

No. MG/2C/115A DPDT Relay Net \$ 2.74

OVERLOAD RELAYS



115 VAC electrical reset coil. Resets by push button.

TYPE	BREAKS	NET
OE/2B	250-500 MA	\$ 10.33
OF/2B	500-1000 MA	10.33
Mechanical Reset		
OH/2B	250-500 MA	7.94
OJ/2B	500-1000 MA	7.94

COAXIAL RELAY



Coaxial Relay - For use in switching 50 or 75 ohm coaxial from transmitter to receiver. $\frac{1}{4}$ " pure silver contacts. Rating of 880 watts at 100 MC. Approx. Shpg. Wgt. 8 oz.

No. CB/1C/115A 115 VAC Coil Net \$ 9.78
No. CB/1C/6VD 6 VDC Coil 9.78

Same as above but with DPDT auxiliary contacts.

No. CB/1C2C/115VA 115 VAC Net \$12.13
No. CB/1C2C/6VD 6 VDC 12.13

MIDGET ANTENNA RELAY



FOR 300 OHM LINE

Double Pole—Double Throw

An efficient 300 ohm transmit/receive relay - well-insulated for RF applications. Silicone glass material used for insulation on armature and stationary contact assemblies. Proper line spacing is maintained by solder lugs extending from armature blades in front. Rated on reasonably flat lines up to 500 watts RF input. Available with coils for 115 VAC or 6 VDC. Shpg. Wgt. 1/2 lb.

No. AM/2C/115VA 115 VAC coil. Net \$ 3.21
No. AM/2C/6VD 6 VDC coil. \$ 3.21

TIME DELAY

RELAYS



DPDT adjustable range of delay. 10-60 seconds. $\frac{1}{4}$ " pure silver contacts rated at 10 amps. 115 VAC coil. Shpg. Wgt. 1 lb.
No. DM/2C/115VA Net \$ 9.26

MR Series

MEDIUM DUTY POWER RELAYS



MR SERIES. Medium duty power relays for ham keying circuits, signal devices, burglar alarms, sign controls, etc. Particularly adaptable to multiple panel mounting. AC types operate on 4 VA and DC types on 2 watts. 8 amp silver contacts. Specify coil wanted.

110 VOLT AC 60 CYCLE COIL

TYPE	CONTACTS	POSITION	NET
MR1A	SPST	Normal Open	\$ 2.25
MR5A	SPDT	-----	2.40
MR7A	DPST	Normal Open	3.20
MR11A	DPDT	-----	3.63

6 VOLT AC 60 CYCLE COIL

MR1A	SPST	Normal Open	2.25
MR5A	SPDT	-----	2.40
MR11A	DPDT	-----	3.63

6 VOLT DC COIL

MR1D	SPST	Normal Open	2.25
MR5D	SPDT	-----	2.40
MR11D	DPDT	-----	3.63

KR Series

SMALL—LIGHT DUTY



KR SERIES. Small, light duty relays. Designed for use where size and weight are important. Withstand high shock and vibration. Suitable for RF and power AP switching. Coil silver 5 ampere contacts. Size: 1-15/16" x 1-1/4". Specify coil volt.

110 VOLT AC 60 CYCLE COIL

TYPE	CONTACTS	NET
KR5A	SPDT	\$ 2.20
KR11A	DPDT	2.75
KR14A	3PDT	3.50

6 VOLT DC COIL

KR5D	SPDT	2.10
KR11D	DPDT	2.65
KR14D	3PDT	3.40

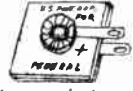
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RELAYS AND SELENIUM RECTIFIERS

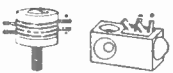
Federal

MINIATURE SELENIUM RECTIFIERS



Compact miniature selenium rectifiers used for replacing power transformer and rectifier tubes. Eliminates long warm-up periods in receivers. Dry and compact, easy to replace. Approximate rectifier voltage drop, 5 volts. Maximum RMS input voltage 130. Maximum inverse peak voltage 380.

Number	DCMA	Size	Plate	
			1-5	6 & over
1159	20	1" Rnd.	\$.91	\$.82
1002A	65	1" Sq.	.88	.80
1003A	75	1" Sq.	1.09	.98
1004A	100	1 1/2" x 1 1/2"	1.21	1.09
1101A	100	1" Sq.	1.12	1.01
1005A	150	1 1/2" x 1 1/2"	1.32	1.19
1006A	200	1 1/2" Sq.	1.85	1.66
1028A	250	1 1/2" Sq.	1.85	1.66
1090A	300	1 1/2" Sq.	1.94	1.75
1023	350	1 1/2" Sq.	2.41	2.17
1130	400	2" Sq.	2.50	2.25
1179	500	2" Sq.	2.59	2.33



Conant Laboratories Instrument Rectifiers

For replacement and construction. Complete instructions included. Shpg. Wgt. 6 oz.

TYPE	INTERMITTENT		CONT.		NET EACH
	VOLTS	MA	VOLTS	MA	
T	20	60	10	30	\$ 1.50
M	20	60	10	30	2.06
H	10	60	5	30	1.50
H	10	60	5	30	1.18
B	20	10	10	5	2.06
BHS	10	10	5	5	1.30
BT	20	10	10	5	1.50

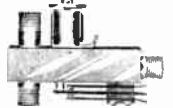
EBY



SENSITIVE RELAY

Mounted as an integral part of the relay, is an SPDT switch with sterling silver contacts. Rated to carry 2.5 amps at 115 volts AC. At 115 volts DC, 15 amps.

No. ER-12-2	2,500 Ohms	Net \$ 3.67
No. ER-12-5	5,000 Ohms	3.82
No. ER-12-10	10,000 Ohms	3.97



DOW-KEY COAXIAL RELAY

MODEL DKC-GE. Opens and grounds lead to receiver in transmit position. Also has external SPDT contacts. Pure silver contacts rated at 750-1000 watts. 115 VAC 50 cycle coil. Net.....\$ 12.25



AUTOMATIC ELECTRIC

R-51 ANTENNA CHANGE-OVER RELAY. DPDT, 1/2" silver contacts. Metal parts cadmium-plated. Mica-cer. base plate. Fungus resistant. 115 VAC coil. Shpg. Wgt. 2 lbs. Net \$ 5.17

GUARDIAN RADIO RELAYS

Series 200 RELAY

with Interchangeable COIL and CONTACT SWITCH ASSEMBLY



2 basic parts - coil assembly and contact switch assembly. Coils and contact assemblies are interchangeable. Available in either SPDT or DPDT. Sensitive coil 200-5000D available for plate circuit operation. 200-4 is a standard size frame with 12.5 amp contact ratings. All contact assemblies fit all coil assemblies.

CONTACT FRAME ASSEMBLIES

Type	Std.	SPDT	8 amps	Net
200-1	Std.	SPDT	8 amps	\$ 1.32
200-2	Std.	DPDT	8 amps	1.79
200-4	Std.	DPDT	12.5	2.09
200-M1	Mdgt.	SPDT	8 amps	1.29
200-M2	Mdgt.	DPDT	8 amps	1.59
200-5	Std.	4PDT	8 amps	3.23
200-M5	Mdgt.	4PDT	8 amps	2.76

COILS

AC COILS DC COILS

Type	Coil	Net	Type	Coil	Net
6A	6 VAC	\$ 1.59	6D	6 VDC	\$ 1.59
12A	12 VAC	1.59	12D	12 VDC	1.59
24A	24 VAC	1.59	24D	24 VDC	1.59
115A	115 VAC	2.00	32D	32 VDC	1.59
230A	230 VAC	2.76	110D	110 VDC	2.00

Series 200-5000D plate circuit coils, 5000 ohms. Net \$ 2.09

OVERLOAD RELAYS



Provides accurate fixed overload protection. Rated at 1500 watts. L-250 armature activated at 250 MA. L-500 armature activated at 500 MA. Shpg. Wgt. 11 oz. Either Style. Net \$ 7.64

ADJUSTABLE

X-100 - Adjustable Overload Relay gives positive protection against current surges and continuous overloads. Replaces expensive, time-wasting fuses. Provides flexible control of current flow. Rated at 1500 watts on 115 VAC, 60 cy. of any inductive power supply delivering up to 1 KW. SPST. Approx. Shpg. Wgt. 12 oz. Net \$ 10.14



CONTACT SWITCH ASSORTMENT

Contact switch parts assortment. Parts and instructions for marking switching combinations up to 4PDT. Less frame.

No. 200-3	Standard	Net \$ 1.32
No. 200-M3	Midget	1.32

WARD LEONARD HEAVY DUTY MIDGET

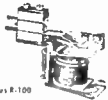


Single Pole Contacts

SPDT contacts rated at 15 amperes. Approx. Shpg. Wgt. 12 oz.

Type 507-547	6 VDC Coil	Net \$ 4.23
Type 507-548	6 VAC Coil	4.23
Type 507-549	115 VAC Coil	4.23

HIGH FREQUENCY RELAY



Contact capacity up to 1 KW at any frequency up to and including 28 MC on AF and RF circuits. 110 VAC 60 cy. coil. SPST. Approx. Shpg. Wgt. 6 oz. Net \$ 2.82

KEYING RELAY



K-320 Relay will follow key or bug at highest WPM obtainable. Clean keying. Contact points can handle 5000 watts on 115 VAC 60 cy. or in AC primary circuit of power supply up to 1 KW. Approx. Shpg. Wgt. 4 oz. Net \$ 3.20

BREAK IN RELAY



DPDT. 115 VAC coil. Contacts handle 1500 watts. Mtg. screws furnished. Approx. Shpg. Wgt. 11 oz. Net \$ 7.64

TIME DELAY RELAY

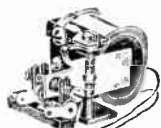


Compact, sturdy, economical time delay relay adjustable for any period between 10 & 60 seconds. Contact capacity 1250 watts on 115 VAC. After contacts close, thermostat blade is cut out of circuit. All terminals insulated from ground. Mounted in enclosed metal box. Size: 5-1/8x3-1/16x2-7/16" H. Shpg. Wgt. 8 oz. Net Each \$ 9.20

ADJUSTABLE WITH ELECTRICAL RESET



X-300-ER - Positive precise protection against current surges and overloads. Remote panel installation of the control potentiometer. Operates on 250 to 750 milliamperes, auxiliary contacts for pilot light indication. Reset relay can be operated from any point. Rated at 3000V. Approx. Shpg. Wgt. 13 oz. Net \$ 6.59



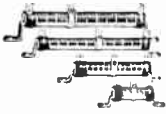
SIGMA HIGH SENSITIVITY RELAY

High resistance relay for use in model airplane work or wherever extreme sensitivity is required. 8000 ohm coil operates on .5 to 2 MA, contacts carry up to 2 amps. Light in weight (2 1/2 oz.), small in size (1 1/2" x 1 1/2" x 1 1/2"). Shpg. Wgt. 10 oz. MODEL 4F-8000S. Net.....\$ 5.29

118 READY FOR A NEW RECEIVER? - We'll Trade In Your Old One!

OHMITE "DIVIDOHM" RESISTORS

RES



10 WATT SIZE - Dividohm

Core: 1 1/2" x 5/16"
Shpg. Wgt. 8 oz.

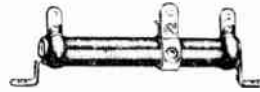
Number	Ohms	Max.		Net
		Ohms	Amps.	
1001	1	3.150	.86	\$.86
1002	2	2.235	.86	
1003	3	1.825	.86	
1004	5	1.415	.86	
1005	7.5	1.155	.86	
1006	10	1.000	.86	
1007	15	.816	.86	
1008	20	.707	.86	
1009	25	.632	.86	
1010	50	.447	.86	
1011	75	.365	.86	
1012	100	.316	.86	
1013	150	.258	.86	
1014	200	.223	.86	
1015	250	.200	.86	
1016	300	.182	.86	
1017	350	.169	.86	
1018	400	.158	.86	
1019	500	.141	.86	
1020	600	.129	.86	
1021	750	.115	.86	
1022	800	.111	.86	
1023	1,000	.100	.86	
1024	1,250	.089	.90	
1025	1,500	.079	.90	
1026	2,000	.069	.90	
1027	2,250	.064	.90	
1028	2,500	.063	.90	
1029	3,000	.056	.90	
1030	3,500	.051	.90	
1031	4,000	.047	.90	
1032	4,500	.045	.90	
1033	5,000	.043	.90	
1034	6,000	.038	.96	
1035	7,000	.034	.96	
1036	7,500	.033	.96	
1037	8,000	.031	.96	
1038	8,500	.029	.96	
1039	9,000	.028	.96	
1040	10,000	.026	.96	

25 WATT SIZE - Dividohm

Core: 2" x 1/4"
Shpg. Wgt. 8 oz.

Number	Ohms	Max.		Net
		Ohms	Amps.	
0360	1	5.000	1.10	\$ 1.10
0360B	2	3.535	1.10	
0361	3	2.885	1.10	
0362	5	2.235	1.10	
0362B	7.5	1.825	1.10	
0363	10	1.580	1.10	
0364	15	1.290	1.10	
0364B	20	1.117	1.10	
0365	25	1.000	1.10	
0366	50	.707	1.10	
0367	75	.577	1.10	
0368	100	.500	1.10	
0369	150	.408	1.10	
0370	200	.353	1.10	
0371	250	.316	1.10	
0371B	300	.288	1.10	
0371C	400	.250	1.10	
0372	500	.223	1.10	
0373	750	.182	1.10	
0374	800	.176	1.10	
0375	1,000	.158	1.10	
0375B	1,250	.141	1.11	
0376	1,500	.129	1.11	
0377	2,000	.111	1.11	
0377B	2,250	.105	1.11	
0378	2,500	.100	1.11	

"Dividohm" resistors are wire wound on porcelain cores. Ideal voltage dividers for original equipment and replacement in transmitters, rectifiers, and other apparatus. Such tapped "bleeders" are made by using one or more adjustable lugs as required. Also handy for obtaining odd resistance values for adjusting circuits and for use on equipment which must be set to meet various line voltages. Furnished with mounting brackets and one adjustable lug. Tolerance $\pm 10\%$.



200 WATT SIZE - Dividohm

Core: 10 1/2" x 1 1/2"
Shpg. Wgt. 1 lb.

Number	Ohms	Max.		Net
		Ohms	Amps.	
1356A	1	14.140	\$ 3.33	
1356B	2	10.000	3.33	
1356C	3	8.160	3.33	
1356D	4	7.070	3.33	
1356E	5	6.320	3.33	
1357	10	4.470	2.5	
1358	25	2.828	2.5	
1359	50	2.000	2.5	
1360	100	1.414	2.5	
1360B	250	.894	2.5	
1361	500	.632	2.5	
1362	1,000	.447	2.5	
1362B	1,500	.365	2.6	
1363	2,500	.283	2.6	
1364	5,000	.200	2.6	
1365	10,000	.141	2.7	
1366	15,000	.115	2.8	
1367	20,000	.100	2.8	
1368	25,000	.089	2.9	
1369	30,000	.081	2.9	
1370	40,000	.061	2.9	
1371	50,000	.049	3.0	
1372	75,000	.033	3.1	
1373	100,000	.025	3.1	

25 WATT SIZE - CONTINUED

Number	Ohms	Max.		Net
		Amps.	Net	
0379	3,000	.091	1.11	
0380	3,500	.084	1.11	
0381	4,000	.079	1.11	
0381B	4,500	.074	1.11	
0382	5,000	.070	1.11	
0383	6,000	.064	1.20	
0383B	7,000	.060	1.20	
0383C	7,200	.059	1.20	
0384	7,500	.057	1.20	
0384B	8,000	.055	1.20	
0384C	9,000	.052	1.20	
0385	10,000	.050	1.20	
0386	12,000	.042	1.25	
0387	15,000	.034	1.25	
0388	20,000	.026	1.25	
0389	25,000	.021	1.35	

75 WATT SIZE - CONTINUED

Number	Ohms	Max.		Net
		Amps.	Net	
0769C	3	5.000	1.62	
0769D	4	4.330	1.62	
0769E	5	3.870	1.62	
0770	10	2.735	1.62	
0771	15	2.236	1.62	
0772	25	1.732	1.62	
0773	50	1.224	1.62	
0774	100	.866	1.62	
0774B	200	.612	1.62	
0775	250	.547	1.62	
0775B	300	.500	1.62	
0775C	400	.433	1.62	
0776	500	.387	1.62	
0777	750	.316	1.62	
0777B	800	.306	1.62	
0778	1,000	.273	1.62	
0778B	1,250	.245	1.66	
0779	1,500	.223	1.66	
0780	2,000	.193	1.66	
0780B	2,250	.182	1.66	
0781	2,500	.173	1.66	
0781B	3,000	.158	1.66	
0782	3,500	.146	1.66	
0782B	4,000	.136	1.66	
0782C	4,500	.129	1.66	
0783	5,000	.122	1.66	
0783B	6,000	.111	1.76	
0783C	7,000	.103	1.76	
0783D	7,200	.102	1.76	
0784	7,500	.100	1.76	
0784B	8,000	.096	1.76	
0784C	9,000	.091	1.76	
0785	10,000	.086	1.76	
0785B	12,000	.079	1.88	
0786	15,000	.070	1.88	
0787	20,000	.061	1.88	
0788	25,000	.049	2.08	
0789	30,000	.042	2.08	
0790	35,000	.036	2.08	
0791	40,000	.032	2.08	
0792	45,000	.029	2.13	
0793	50,000	.026	2.13	
0794	60,000	.022	2.13	
0795	80,000	.017	2.33	
0796	100,000	.013	2.55	

100 WATT SIZE - Dividohm

Core: 6 1/2" x 3/4"
Shpg. Wgt. 1 lb.

Number	Ohms	Max.		Net
		Amps.	Net	
0956A	1	10.000	\$ 2.66	
0956B	2	7.070	2.66	
0956C	3	5.770	2.66	
0956D	4	5.000	2.11	
0956E	5	4.470	2.11	
0957	10	3.160	2.11	
0958	25	2.000	2.11	
0959	50	1.414	2.11	
0960	100	1.000	2.11	
0960B	250	.632	2.11	
0961	500	.447	2.11	
0962	1,000	.316	2.11	
0962B	1,500	.258	2.16	
0963	2,500	.200	2.16	
0964	5,000	.141	2.16	
0965	10,000	.100	2.27	
0966	15,000	.081	2.42	
0967	20,000	.070	2.42	
0968	25,000	.053	2.57	
0969	30,000	.047	2.57	
0970	40,000	.036	2.57	
0971	50,000	.029	2.66	
0972	75,000	.019	2.79	
0973	100,000	.015	2.91	

OHMITE ADJUSTABLE LUGS

Number	Diam.	Net
1058	5/16"	\$.15
0358	7/16"	.15
1958	3/8"	.25
2158	1/2"	.25

JFD LINE CORDS

STANDARD 3 TERMINALS

No. Res.	Net	No. Res.	Net
2180 135	\$1.26	2187 300	\$1.26
2181 160	1.26	2188 330	1.26
2182 180	1.26	2189 350	1.26
2183 200	1.26	2190 390	1.26
2184 220	1.26	2450 450	1.81
2185 250	1.26	2197 560	1.81
2186 290	1.26	2157 960	1.81

TAPPED 4 TERMINALS

Number	Res.	Tap	Net
2176	160	24	\$ 1.46
2195	165	30	1.46
2177	180	25	1.46
2178	200	25	1.46
2179	200	40	1.46
2174	280	40	1.46
2164	360	80	1.81
2166	430	80	1.81
2156	510	80	1.81
2196	560	80	1.81
2158	960	80	1.81
2165	1950	360	2.91

REPLACEMENT LINE CORD FOR MOTOROLA SETS

Number	Res.	Net
2198	1100 & 280	\$ 2.19

UNIVERSAL AC/DC RESISTANCE LINE CORDS

Number	Res.	Net
2175	220-300	\$ 1.81

STEP-DOWN LINE CORDS

No.	Drop	Current	Net
2191	220V-110V	.3 amps	\$ 2.19
2192	220V-110V	.15 amps	2.54

"Your trade-in's worth more at the WALTER ASHE STORE" (119)

RES

IRC RESISTORS - RESISTOR KITS



IRC INSULATED RESISTORS



IRC RESIST-O-CABINETS



ALL-METAL

RTMA Preferred Values

OHMS	OHMS	OHMS	MEGS
0.27	33	3,000	0.27
0.33	39	4,700	0.33
0.39	47	5,600	0.39
0.47	56	6,800	0.47
0.56	68	8,200	0.56
0.68	82	10,000	0.68
0.82	100	12,000	0.82
1.0	120	15,000	1.0
1.2	150	18,000	1.2
1.5	180	22,000	1.5
1.8	220	27,000	1.8
2.2	270	33,000	2.2
2.7	330	39,000	2.7
3.3	390	47,000	3.3
3.9	470	56,000	3.9
4.7	560	68,000	4.7
5.6	680	82,000	5.6
6.8	820		6.8
B.2	1,000	MEGS	8.2
10	1,200		10.0
12	1,500	0.1	12.0
15	1,800	0.12	15.0
18	2,200	0.15	18.0
22	2,700	0.18	22.0
27	3,300	0.22	

COMPOSITION RESISTORS

IRC BT type resistors set new performance standards for insulated fixed composition units. They are particularly suited to the rigorous requirements of television. The filament type resistance element is combined with exclusive construction features to provide a resistor of extremely low operating temperature and excellent power dissipation in a tightly compact, fully insulated unit. Moisture-sealed in molded bakelite. No possibility of grounding. Will pass JAN-R-11 salt water immersion test, insulation breakdown voltage test, high altitude flashover, vibration, soldering and derating.

WIRE WOUND RESISTORS

Type BW are exceptionally stable, inexpensive wire wound resistors. Especially developed for low range requirements. Size and appearance is similar to the composition types. Small and completely insulated. Molded bakelite housing seals out moisture.

10% TOLERANCE COMPOSITION TYPE

TYPE BTS. (JAN-RC10-RC20). 1/2 watt composition. Available in values from 10 ohms to 22 megohms. Tolerance 10%. Size: 13/32x1/8. Net Each \$.10
Lots of 100, One value, Net Each .06

TYPE BTA. (JAN-RC30). 1 watt composition. Available in values from 100 ohms to 22 megohms. Tolerance 10%. Size: 23/32x1/4. Net Each \$.15
Lots of 100, One value, Net Each .09

TYPE BTB. (JAN-RC40). 2 watt composition. Available in values from 330 ohms to 22 megohms. Tolerance 10%. Size: 1-1/4x1/4. Net Each \$.20
Lots of 100, One value, Net Each .12

5% TOLERANCE COMPOSITION TYPE
TYPE BTA. (JAN-RC30). 1 watt composition. Available in values from 100 ohms to 22 megohms. Tolerance 5%. Size: 23/32x1/4. Net Each \$.20
Lots of 100, One value, Net Each .18

BW WIRE WOUND RESISTORS

TYPE BW-1/2. (JAN-R-184-RU3). 1/2 watt composition. Available in values from 0.27 ohms to 820 ohms. Tolerance 10%. Size: 5/8x3/16. Net Each \$.10
Lots of 100, One value, Net Each .06

TYPE BW-1. (JAN-R-184-RU4). 1 watt composition. Available in values from 0.47 ohms to 4700 ohms. Tolerance 10%. Size: 1-1/4x1/4. Net Each \$.15
Lots of 100, One value, Net Each .09

TYPE BW-2. (JAN-R-184-RU6). 2 watt composition. Available in values from 1.0 ohms to 8200 ohms. Tolerance 10%. Size: 1-3/4x21/64. Net Each \$.20
Lots of 100, One value, Net Each .12

5% TOLERANCE WIRE WOUND TYPE

TYPE BW-1. (JAN-R-184-RU4). 1 watt composition. Available in values from 0.47 ohms to 4700 ohms. Tolerance 5%. Size: 1-1/4x1/4. Net Each \$.30
Lots of 100, One value, Net Each .18

NOTE: 100 LOT PRICE APPLIES TO PURCHASE OF ONE VALUE ONLY.

Again available in large steel cabinets, 3 new IRC Resist-O-Cabinets provide the perfect way to stock resistors. 4-drawer cabinets have 28 range identified compartments. Blue, yellow & silver finish adds attractiveness to shop. Drawers have non-spill features & cabinets are designed for stacking. Measuring 5 3/8"x5 15/16"x19 7/8". Resist-O-Cabinets are supplied in three fastmoving assortments - 1/2 watt, 1 watt & Combination. Combination assortment includes new IRC close-tolerance Precisors. No extra charge is made for cabinet when purchased with any of the 3 Resist-O-Cabinets.

RESIST-O-CABINET ASSORTMENT #4

Consists of 100 BW 1/2 & BTS 1/2 watt resistors. 2-47 ohm, 3-100 ohm, 2-220 ohm, 2-270 ohm, 3-470 ohm, 6-1000 ohm, 2-1500 ohm, 2-2200 ohm, 2-2700 ohm, 3-3300 ohm, 5-4700 ohm, 5-10,000 ohm, 3-22,000 ohm, 3-27,000 ohm, 3-33,000 ohm, 6-47,000 ohm, 2-56,000 ohm, 2-68,000 ohm, 6-0.1 meg, 5-0.22 meg, 6-0.27 meg, 3-0.33 meg, 6-0.47 meg, 6-1.0 meg, 5-2.2 meg, 2-3.3 meg, 3-4.7 meg, 2-10.0 meg. Shpg. Wgt. 5 lbs.

Assortment #4 Net \$ 11.76

RESIST-O-CABINET ASSORTMENT #5

Consists of 83 BW-1 & BTA 1 watt resistors. 2-47 ohm, 3-100 ohm, 2-150 ohm, 2-220 ohm, 2-270 ohm, 2-470 ohm, 5-1000 ohm, 2-1500 ohm, 3-2200 ohm, 2-2700 ohm, 2-3300 ohm, 3-4700 ohm, 5-10,000 ohm, 2-15,000 ohm, 3-22,000 ohm, 5-27,000 ohm, 2-33,000 ohm, 2-39,000 ohm, 8-47,000 ohm, 2-68,000 ohm, 5-0.1 meg, 2-0.15 meg, 2-0.22 meg, 5-0.27 meg, 5-0.47 meg, 5-1.0 meg, 2-2.2 meg, 2-4.7 meg. Shpg. Wgt. 5 lbs.

Assortment #5 Net \$ 14.64

COMBINATION RESIST-O-CABINET ASSORTMENT #6

Consists of 91 insulated resistors & close tolerance precisors in the following ranges:

Range	1/2 watt	1 watt	2 watt	DCP
47 ohms	1	1	1	-
100 ohms	1	1	1	-
150 ohms	1	1	-	-
220 ohms	1	1	-	-
270 ohms	1	1	-	-
470 ohms	1	1	1	-
1,000 ohms	3	2	-	1
1,500 ohms	1	1	-	-
2,200 ohms	1	1	-	-
2,700 ohms	1	1	-	-
3,300 ohms	1	1	-	-
4,700 ohms	2	1	1	-
10,000 ohms	2	2	1	1
15,000 ohms	1	1	-	-
22,000 ohms	1	1	1	-
27,000 ohms	1	2	-	-
33,000 ohms	1	1	-	-
39,000 ohms	1	1	-	-
47,000 ohms	3	2	1	-
68,000 ohms	1	1	-	-
0.1 meg	3	2	-	1
0.15 meg	1	1	-	-
0.22 meg	2	1	-	-
0.27 meg	3	1	-	-
0.47 meg	3	2	-	-
1.0 meg	3	2	-	1
2.2 meg	2	1	-	-
4.7 meg	1	1	-	-
5.0 meg	7	-	-	1

Assortment #6 Net \$ 16.76



IRC RESIST-O-KITS

Flat, pocket-size metal kit of 1/2 or 1 watt BT Insulated Composition Resistors for service calls or small bench stocks. All-steel and attractively lithographed in blue and yellow. Resist-O-Kit measures 11/16"x3 7/8"x 6 5/8". Ten compartments, lid snaps securely shut. Ranges are clearly marked on each resistor in kit. This handy kit is furnished at no extra charge with either of two assortments.

IRC RESIST-O-KITS

ALL-METAL



RESIST-O-KIT ASSORTMENT #7

Kit contains 45 BTS 1/2 watt resistors, 4-1000 ohm, 3-4700 ohm, 4-10,000 ohm, 5-47,000 ohm, 6-0.1 meg, 3-0.22 meg, 5-0.27 meg, 6-0.47 meg, 5-1.0 meg, 4-2.2 meg. Shpg. Wgt. 1 lb.

Assortment #7 Net \$ 5.29

RESIST-O-KIT ASSORTMENT #8

Kit contains 30 BTA 1 watt resistors, 4-1000 ohm, 2-2200 ohm, 2-4700 ohm, 3-10,000 ohm, 2-27,000 ohm, 4-47,000 ohm, 4-0.1 meg, 2-0.27 meg, 4-0.47 meg, 3-1.0 meg. Shpg. 1 lb.

Assortment #8 Net \$ 5.29

NEW IRC RESISTOR COLOR CODE CHART

This new IRC Standard RMA Resistor Color Code Chart includes both old and new style codes, tolerance designation, ruler and the various Ohm's Law formulas - all on a handy, pocket-size Pyralin card.

Net Each \$.15



PHONE CHESTNUT 1-1125
1125 PINE ST. ST. LOUIS 1, MO.

120

WALTER ASHE RADIO CO.

PRECISION RESISTORS

RES

IRC PRECISTORS

DEPOSITED CARBON RESISTOR
GUARANTEED ACCURACY ± 1%



Carbon precision resistors. Guaranteed accuracy ± 1% at 25° C. Momentary peak of 6,000 volts without breaking down. Individually factory packed in capped plastic tubes. Shpg. Wgt. 3 oz.

TO MAINTAIN ORIGINAL VALUE OF RESISTOR WITHIN	LIMIT LOAD ON PRECISTOR TO DCH	
15/16" x 9/32" 2 1/16" x 9/32	1/4 Watt	1/2 Watt
2%	1/2 Watt	1 Watt
5%	1 Watt	2 Watt

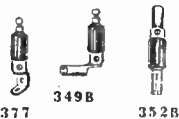
Type DCF—over-all body size, including caps, 1 3/8" long x 1/2" diameter

STANDARD STOCK VALUES	OHMS	Net Each
.....	200	\$.59
.....	250	.59
.....	300	.59
.....	400	.59
.....	500	.59
.....	1,000	.59
.....	1,500	.59
.....	2,000	.59
.....	2,500	.59
.....	3,000	.59
.....	4,000	.59
.....	5,000	.59
.....	10,000	.59
.....	15,000	.59
.....	20,000	.59
.....	25,000	.59
.....	30,000	.59
.....	40,000	.59
.....	50,000	.59
.....	MEG OHMS	
.....	0.10	.59
.....	0.15	.59
.....	0.20	.59
.....	0.25	.59
.....	0.30	.59
.....	0.40	.59
.....	0.50	.59
.....	1.00	.59
.....	1.50	.59
.....	2.00	.59
.....	2.50	.59
.....	3.00	.59
.....	4.00	.59
.....	5.00	.59

Type DCH—over-all body size, including caps, 2 1/8" long x 1/2" diameter

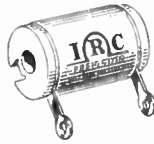
STANDARD STOCK VALUES	MEG OHMS	Net Each
.....	0.5	\$.71
.....	1.0	.71
.....	2.0	.71
.....	3.0	.71
.....	5.0	.71
.....	10.0	.71
.....	15.0	.76
.....	20.0	.76

IGNITION SUPPRESSORS



Type No.		Net
377	Bracket Type	\$.19
349B	Slip-on	.19
352B	Distributor	.22

IRC PRECISION RESISTORS



Non-inductive up to 50,000 cycles. 1% accuracy listed below.

For 5% accuracy add 5%.
For 1% accuracy add 10%.
For .1% accuracy add 25%.

WW-4J
Size: 1/16" x 1/4"

Resistance	Net
0.1, 0.2 ohms	\$ 1.86
0.5 ohms	1.61
1, 5, 10, 25, 50 ohms	1.40
100, 200, 250, 300, 500, 1000, 1500, 2000, 2500 ohms	1.15
3K, 1.5K, 4K, 5K, 7.5K, 10K, 12.5K, 15K, 20K, 22.5K, 25K ohms	1.30
30K, 40K, 50K, 60K, 75K, 100K ohms	1.69
125Ω ohms	1.96
150Ω ohms	2.12
175Ω ohms	2.16
225Ω, 250Ω, 300Ω ohms	2.62
400Ω ohms	2.67
500Ω ohms	3.09

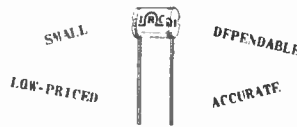


WW-5J
Size: 1/16" x 1/4"

Resistance	Net
600K ohms	5.00
750K ohms	5.88
900K ohms	5.24
1 megohm	6.37

WW-10J

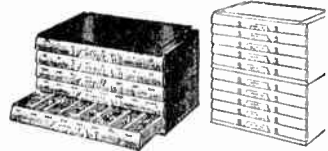
PRECISIONS



Brand new IRC development in precision resistors. Measures only 13/32" long by 9/32" D. 30 stock values, 10 ohms to .15 meg. Small size makes it particularly valuable in military research and development. Employs single winding but inductance is held to minimum because of small size of unit. Wattage rating 0.15. Accuracy 1%. Furnished with wire leads.

Resistance	Resistance	Resistance	
10 Ohms	\$ 1.20	5,000	\$ 1.05
25	.96	7,500	1.05
50	.96	10,000	1.05
100	.96	12,500	1.05
200	.96	15,000	1.15
250	.96	20,000	1.15
300	.96	25,000	1.15
500	.96	30,000	1.15
1,000	.96	40,000	1.27
1,500	.96	50,000	1.27
2,000	1.05	60,000	1.39
2,500	1.05	75,000	1.49
3,000	1.05	0.1 Megohm	1.49
3,500	1.05		
4,000	1.05		

OHMITE Little Devil RESISTOR ASSORTMENTS



Three new Ohmite resistor assortment for every service and lab need. The cabinets are made of sturdy plastic and can be stacked easily. Five drawers, eight compartments to each drawer. Cabinet is 9" long, 4 3/4" high, 5 1/4" deep. No charge is made for cabinet, you pay only the regular price for the resistors. 1/2 watt resistors in CAB-10, 125 1/2 watt resistors in CAB-2 and 125 2 watt resistors in CAB-3.

Number	Type	Net
CAB-10	1/2 Watt Assortment	\$ 14.7
CAB-2	1 Watt Assortment	18.3
CAB-3	2 Watt Assortment	24.1

QUANTITIES AND RESISTANCE VALUES

CAB-10	CAB-2	CAB-3	OHMS		
			QUANTITY	QUANTITY	OHMS
1	1	10	5	3	1000
1	1	15	1	1	1500
1	1	27	1	1	2200
1	1	47	3	3	2700
5	1	100	10	5	4700
1	1	150	1	1	6800
3	1	270	10	10	10,000
1	1	330	3	3	15,000
3	1	470	5	5	22,000
1	1	680	10	10	27,000

CAB-10	CAB-2	CAB-3	OHMS		
			QUANTITY	QUANTITY	OHMS
3	1	33,000	10	10	0.47 meg.
5	5	39,000	1	1	0.68 meg.
10	10	47,000	10	10	1.0 meg.
3	1	68,000	1	1	1.5 meg.
1	1	82,000	1	1	2.2 meg.
10	10	0.1 meg.	3	1	2.7 meg.
5	5	0.15 meg.	1	1	3.9 meg.
3	1	0.22 meg.	1	1	4.7 meg.
10	10	0.27 meg.	1	1	6.8 meg.
3	1	0.33 meg.	1	1	10.0 meg.

NEW OHM'S LAW CALCULATOR



The new re-designed Ohmite Ohm's Law Calculator now has scales for solving parallel resistance problems and a standard slide rule. Postpaid in USA

Cardboard Type	Net	\$
Plastic Type		1.47

"Your trade-in's worth more at the WALTER ASHE STORE" (12)

OHMITE BROWN DEVIL

WIRE WOUND



10 WATT BROWN DEVIL

Core: 1 3/4" x 5 16"
Shpg. Wgt. 3 oz.

Ohms	Max. Amps.	Ohms	Max. Amps.
0.4	5.000	75	.365
1	3.160	100	.316
1.2	2.820	125	.283
1.3	2.740	150	.258
1.5	2.580	200	.223
2	2.235	225	.217
3	1.825	250	.200
4	1.580	300	.182
5	1.414	350	.169
7.5	1.155	400	.158
10	1.000	450	.149
12	.910	500	.141
15	.816	600	.129
20	.707	700	.119
25	.632	750	.115
30	.575	800	.111
35	.535	900	.105
40	.500	1,000	.100
50	.447		

Any above values, Net Ea. \$.44

1.100	.085	2,500	.063
1,200	.091	3,000	.056
1,250	.089	3,500	.051
1,500	.079	4,000	.047
1,750	.074	4,500	.045
2,000	.069	5,000	.043
2,250	.064		

Any above values, Net Ea. \$.47

6,000	.038	8,000	.031
7,000	.034	8,500	.029
7,500	.032	10,000	.026

Any above values, Net Ea. \$.54

11,000	.024	15,000	.019
12,000	.023	16,000	.018
12,500	.022	17,500	.017
13,500	.021	18,000	.017
14,300	.020	20,000	.016

Any above values, Net Ea. \$.61

22,500	.015	25,000	.014
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Any above values, Net Ea. \$.64

30,000	.008	45,000	.006
35,000	.007	50,000	.006
40,000	.007		

Any above values, Net Ea. \$.71

20 WATT BROWN DEVIL

Core: 2" x 7 16"

Ohms	Max. Amps.	Ohms	Max. Amps.
20,000	.024	65,000	.007
Net Ea. \$.71		70,000	.007
		75,000	.007
		80,000	.007
25,000	.020	Net Ea. \$ 1.08	
30,000	.017		
35,000	.015		
40,000	.014	85,000	.006
Net Ea. \$.80		90,000	.006
		95,000	.006
		100,000	.006
45,000	.013	Net Ea. \$ 1.24	
50,000	.012		
55,000	.008		
60,000	.008		
Net Ea. \$.93			

SPRAGUE
STANDARD CAPACITY TOLERANCE $\pm 5\%$

5 WATT - TYPE 5NIT

Non-Inductive, Wire Wound
Ceramic Coated Insulation
Size 1-7/32 X 15 32

Ohms	Max. MA	Net Each
5	1000	\$.59
10	707	.59
15	587	.59
20	500	.59
25	446	.59
30	406	.59
40	354	.59
50	316	.59
75	258	.59
100	224	.59
150	183	.59
200	153	.59
250	141	.59
300	129	.59
400	112	.59
500	100	.59
600	91	.59
700	84	.59
800	79	.59
900	74	.59
1,000	70	.59
1,250	63	.68
1,500	57	.68
2,000	50	.68
2,500	44	.73
3,000	40	.73
4,000	35	.73
5,000	31	.76

3 WATT - TYPE 5AT

Wire Wound, Ceramic Coated
Size 1-7/32 X 15/32

Ohms	Max. MA	Net Each
5	1000	\$.38
10	707	.38
15	587	.38
20	500	.38
25	446	.38
30	406	.38
40	354	.38
50	316	.38
75	258	.38
100	224	.38
150	183	.38
200	158	.38
250	141	.38
300	129	.38
400	112	.38
500	100	.38
600	91	.38
700	84	.38
800	79	.38
900	74	.38
1,000	70	.38
1,250	63	.41
1,500	57	.41
1,750	53	.41
2,000	50	.41
2,500	44	.41
3,000	40	.41
4,000	35	.41
5,000	31	.41
6,000	28	.47
7,000	26	.47
7,500	25	.47
8,000	25	.47
9,000	23	.47
10,000	22	.47
12,500	20	.53
14,000	18	.53
15,000	18	.56
20,000	15	.56
25,000	14	.65
30,000	13	.71
40,000	11	.88

10 WATT - TYPE 10NIT

Non-Inductive, Wire Wound
Ceramic Coated Insulation
Size 1-27/32 X 15 32

Ohms	Max. MA	Net Each
5	1414	\$.59
10	1000	.59
15	890	.59
20	707	.59
25	630	.59
30	575	.59
40	500	.59
50	447	.59
75	385	.59
100	316	.59
150	259	.59
200	223	.59
250	200	.59
300	182	.59
400	158	.59
500	141	.59
600	129	.59
700	119	.59
750	115	.59
800	112	.59
900	100	.59
1,000	100	.59
1,250	89	.68
1,500	81	.68
1,750	75	.68
2,000	70	.68
2,500	63	.73
3,000	57	.73
4,000	50	.73
5,000	44	.76
6,000	41	.76
7,500	36	.85
8,000	35	.85
9,000	33	.85
10,000	32	1.12

10 WATT - TYPE 10AT

Wire Wound, Ceramic Coated
Size 1-27/32 X 15 32

Ohms	Max. MA	Net Each
5	1414	\$.44
10	1000	.44
15	890	.44
20	707	.44
25	630	.44
30	575	.44
40	500	.44
50	447	.44
75	365	.44
100	316	.44
150	259	.44
200	223	.44
250	200	.44
300	182	.44
400	158	.44
500	141	.44
600	129	.44
700	119	.44
750	115	.44
800	112	.44
900	105	.44
1,000	100	.44
1,250	89	.47
1,500	81	.47
1,750	75	.47
2,000	70	.47
2,500	63	.47
3,000	57	.47
4,000	50	.47
5,000	44	.47
6,000	41	.53
7,500	36	.53
8,000	35	.53
9,000	33	.53
10,000	32	.53
12,000	29	.59
14,000	26	.59
15,000	25	.59
17,500	24	.65
20,000	21	.65
25,000	20	.71
30,000	18	.76
40,000	16	.97
50,000	14	1.06
60,000	13	1.18
70,000	12	1.30

OHMITE



INSULATED COMPOSITION RESISTORS



OHMS	OHMS	MEG OHMS
2.7 *	560	0.1
3.3 *	680	0.12
3.9 *	820	0.15
4.7 *	1,000	0.18
5.6 *	1,200	0.22
6.8 *	1,500	0.27
8.2 *	1,800	0.33
10	2,200	0.39
12	2,700	0.47
15	3,300	0.56
18	3,900	0.68
22	4,700	0.82
27	5,600	1.00
33	6,800	1.2
39	8,200	1.5
47	10,000	1.8
56	12,000	2.2
68	15,000	2.7
82	18,000	3.3
100	22,000	3.9
120	27,000	4.7
150	33,000	5.6
180	39,000	6.8
220	47,000	8.2
270	56,000	10.0
330	68,000	12.0
390	82,000	15.0
470		18.0
		22.0

* Available in one watt only

Individually marked $\frac{1}{2}$, 1 and 2 watt composition resistors which may be used at their full wattage ratings at 70° centigrade, (158° F.) ambient temperature. Meet requirements of JAN-R-11. All units marked with resistance values, wattage rating and color coding.

1/2 watt size, 3/8" L., 9/64" D. Maximum voltage 350, tolerance 10%. Values from 10 ohms to 22 megohms. Net each \$.10
Lots of 100, Net each \$.06

1 watt size, 9/16" L., 7/32" D. Maximum voltage 500, tolerance 10%. Values from 2.7 ohms to 22 megohms. Net each \$.15
Lots of 100, Net each \$.09

2 watt size, 11/16" L., 5/16" D. Maximum voltage 1000, tolerance 10%. Values from 10 ohms to 22 megohms. Net Each \$.20
Lots of 100 Net each \$.12

NOTE: 100 LOT PRICE APPLIES TO PURCHASE OF ONE VALUE ONLY.

OHMITE RHEOSTATS - TUBE SHIELDS RHE

VITREOUS ENAMELED

Construction of ceramic and metal. All models have insulated shafts. Current carrying capacities shown are for use in free air.

MODEL "H" - 25 WATT

Diameter, 1 9/16". Depth behind panel, 1 3/8". Shaft, 1/4". Knob supplied. Shpg. Wgt. 1 lb.

Number	Ohms	Amps	Net
0140	1	5.000	\$ 4.14
0141	2	3.540	3.65
0142	3	2.880	3.65
0143	6	2.040	3.65
0144	8	1.770	3.65
0145	10	1.580	3.65
0146	15	1.290	3.65
0147	25	1.000	3.65
0148	35	.845	3.65
0149	50	.707	3.65
0150	75	.575	3.65
0151	100	.500	3.65
0152	125	.445	3.65
0153	175	.375	3.65
0154	250	.316	3.65
0155	350	.267	3.65
0156	500	.222	3.65
0157	750	.182	3.65
0158	1,000	.155	4.14
0159	1,500	.129	4.14
0160	2,500	.100	4.14
0161	3,500	.084	4.34
0162	5,000	.070	4.34

MODEL "J" - 50 WATT

Diameter 2 5/16". Depth behind panel 1 3/8". Shaft 1/4". Knob supplied. Shpg. Wgt. 1 lb.

Number	Ohms	Amps	Net
0308	0.5	10.000	\$ 4.60
0309	1	7.070	4.60
0310	2	5.000	4.60
0311	4	3.530	4.14
0312	6	2.880	4.14
0313	8	2.500	4.14
0314	12	2.040	4.14
0315	16	1.760	4.14
0316	22	1.500	4.14
0317	35	1.190	4.14
0318	50	1.000	4.14
0319	80	.790	4.14
0320	125	.630	4.14
0321	150	.575	4.14
0322	225	.470	4.14
0323	300	.408	4.14
0324	500	.316	4.14
0325	800	.250	4.34
0326	1,000	.224	4.34
0327	1,600	.176	4.34
0328	2,500	.141	4.34
0329	3,500	.119	4.60
0330	5,000	.100	4.60
0331	8,000	.079	4.60
0332	10,000	.070	4.60

OHMITE



MODEL "K" - 160 WATT

Diameter 3 1/8". Depth behind panel 1 3/4". Shaft 1/4". Knob supplied. Shpg. Wgt. 1 lb.

Number	Ohms	Amps	Net
0440	0.5	14.100	\$ 6.88
0441	1	10.000	6.88
0442	2	7.070	6.88
0443	3	5.750	6.88
0444	5	4.470	6.88
0445	7.5	3.650	6.44
0446	10	3.160	6.44
0447	16	2.500	6.44
0448	25	2.000	6.44
0449	50	1.410	6.44
0450	75	1.150	6.44
0451	100	1.000	6.44
0452	200	.707	6.44
0453	300	.575	6.44
0454	400	.500	6.44
0455	500	.447	6.44
0456	750	.365	6.44
0457	1,000	.316	6.88
0458	1,500	.258	6.88
0459	2,000	.224	6.88
0460	2,500	.200	6.88
0461	5,000	.141	7.33
0462	7,500	.115	7.81
0463	10,000	.100	8.25

MODEL "L" - 150 WATT

Diameter 4". Depth behind panel 2". Shaft 1/4". Knob supplied. Shpg. Wgt. 1 lb.

Number	Ohms	Amps	Net
0524	0.5	17.300	\$ 8.72
0525	1	12.300	8.72
0526	2	8.650	8.72
0527	3	7.070	8.72
0528	5	5.480	8.72
0529	7.5	4.470	8.72
0530	10	3.880	8.25
0531	15	3.163	8.25
0532	25	2.450	8.25
0533	35	2.070	8.25
0534	50	1.735	8.25
0535	75	1.415	8.25
0536	100	1.225	8.25
0537	150	1.000	8.25
0538	200	.865	8.25
0539	250	.775	8.25
0540	350	.655	8.25
0541	500	.548	8.25
0542	750	.447	8.72
0543	1,250	.346	8.72
0544	1,800	.288	9.18
0545	2,250	.259	9.18
0546	3,000	.224	9.18
0547	4,500	.182	9.62
0548	7,500	.141	10.10
0549	10,000	.122	11.01

RHEOSTATS

MODEL "N" - 300 WATT

Diameter 6". Depth behind panel 2 3/8". Shaft 3/8". Knob supplied. Shpg. Wgt. 1 lb.

Number	Ohms	Amps	Net
0650	1	17.320	\$ 12
0651	2	12.240	12
0652	3	10.000	12
0653	4	8.660	12
0654	5	7.750	12
0655	7.5	6.320	12
0656	10	5.480	12
0657	15	4.470	12
0658	25	3.460	12
0659	50	2.450	12
0660	75	2.000	12
0661	100	1.730	12
0662	150	1.410	12
0663	200	1.220	12
0664	300	1.000	12
0665	400	.866	12
0666	700	.655	12
0667	900	.578	12
0668	1,200	.500	12
0669	1,500	.447	12
0670	1,750	.414	12
0671	2,500	.346	12

MODEL "R" - 500 WATT

Diameter 8". Depth behind panel 2 1/8". Shaft 3/8". Knob supplied. Shpg. Wgt. 1 lb.

Number	Ohms	Amps	Net
0840	1.0	22.300	\$ 17
0850	1.5	18.200	17
0851	2	15.800	17
0852	2.5	14.100	17
0853	3	12.900	17
0854	4	11.200	17
0855	5	10.000	17
0856	6	7.900	17
0857	12.5	6.300	17
0858	16	5.600	17
0859	25	4.470	17
0860	40	3.500	17
0872	50	3.160	17
0861	80	2.520	17
0862	125	2.000	17
0863	175	1.690	17
0864	250	1.410	17
0865	325	1.240	17
0866	500	1.000	17
0867	750	.817	17
0868	1,000	.707	17
0869	1,500	.577	17
0870	2,000	.500	17
0871	2,500	.447	17

RHEOSTAT TANDEM COUPLING K

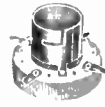
Consists of steel "U" frame, mica wash coupling and Allen wrench. Used to couple two Ohmite rheostats together.

No. 6532 For models "H", "J" Net \$ 1
No. 6533 For models "G", "K", "L" 2

CIR-8



National



Heavy duty metal tube sockets for tubes hav XU 4-pin base.

No. XN-10 Net \$ 1
No. XN-50 For 50 watters Net \$ 1

Popular sockets with steatite insulation. Contact grips tube prong for entire length. Metal ring for 6-position mounting. All have 1-27/32" mounting centers except CIR-8 has 1" mounting centers.

Number		Net
CIR-4	4-prong	\$.35
CIR-5	5-prong	.35
CIR-6	6-prong	.35
CIR-8	8 Octal	.35

Low loss wafer socket with steatite insulation. For the popular 829 & 832 tubes. No. HX-29 Net \$.93

Exceptionally good contacts with high current capacities. Low loss steatite insulation.

No.		Net
XC-4	4-prong	\$.41
XC-5	5-prong	.45
XC-6	6-prong	.46

Low loss socket for 6F4 and 950 series acorn tubes for frequencies as high as 600 MC. Bypass condensers may be compactly mounted between contacts and chassis. No. XLA Net \$ 1.14



1549 Net \$.
1552 Net \$.
1729 Form fit GT/G shield.
1541 Shield for 807 tube.

"Your trade-in's worth more at the WALTER ASHE STORE" 12

SOc SOCKETS REPLACEMENT-INDUSTRIAL



Replacement Sockets



Regular "S" sockets, assembled with retainer ring to steel mounting plate with slotted holes to fit mounting centers from 1-1/2 to 1-7/8". Black bakelite.

Number	Contacts	Net
3-RS-4	4	\$.08
3-RS-5	5	.08
3-RS-6	6	.08
3-RS-7C	7 Combination	.11
3-RS-7L	7 Large	.08
3-RS-7S	7 Small	.08
3-RS-8	8 Octal	.11
3-RS-8L	8 Loktal	.13
3-RS-9	9 Octal Style	.13
3-RS-11	11 Octal Style	.18

MIP Molded-In-Plate Sockets



MIP 77-MIP-8FK

World's Strongest Socket. Molded of high electric black bakelite, sturdy, steel mounting plate molded directly in the lid body, cannot come loose or vibrate, mounted in 1-5/32" round hole, two 5/32" round holes on 1-1/2" centers.

Number	Contacts	Net
-MIP-4	4	\$.07
-MIP-5	5	.07
-MIP-6	6	.07
-MIP-7L*	7 Large	.08
-MIP-7S	7 Small	.07
-MIP-8	8 Octal	.08
-MIP-9	9 Octal Type	.11
-MIP-11	11 Octal Type	.14
-MIP-12	12 Octal Type	.18
-MIP-20	20	.47
-MIP-8FK Floating Octal Socket, Grommets, hdwe. included. 1 1/2" mounting centers.		.24

77-MIP-7L Mounts in 1-9/32" round hole.

Miniature Retainer Ring Type Socket



Mounts in 5/8" round or "D" shaped hole thru No. 2-9 retainer rings except No. 78 which mounts in 1/2" hole with No. 2-10 1/8".

Number	Description	Net
-S3S	For 3 prg. min. photo cells	\$.10
-S4S	4 Contact	.10
-S5S	5 Contact	.13
-S6S	6 Contact	.13
-5P	5 Contact, Miniature	.13
-7P	7 Contact, Miniature	.13

Extremely compact sockets for tube tests, midget applications, etc. Black Bakelite body. Mounts in 1-11/64" keyed hole, miniature socket is in center.

Number	Contacts	Net
-A-7P	7 Miniature	\$.18
-A-9P	9 Miniature	.26



STEATITE



Mounting centers 1 1/2" to 1 7/8".

Number	Contacts	Net
49-RSS4	4	\$.29
49-RSS5	5	.29
49-RSS6	6	.29
49-RSS7S Small	7	.29
49-RSS7L Large	7	.35
49-RSS8 Octal	8	.29

Retainer Ring "S" Type Sockets



Magnal Socket - Has 1 1/16" pin circle for cathode ray & television tubes. Mounts in 1 5/8" hole. Steatite.

No. 49-S811L 11 Contact, Magnal Net \$.72

TV & CR SOCKETS



Designed for television viewing tubes, oscilloscopes & other cathode-ray tubes.

Duodecal Socket for max. of 12 equally spaced pins on a circle diam. of 1.063"

No. 59-402 Net \$.92

Diheptal Sockets for a max. of 14 equally spaced pins on a circle diam. of 1.750".

Number	Net
59-415 Small for 2.050" D. tube base	\$.98
59-417 Medium for 2.250" D. tube base	.98

INDUSTRIAL SOCKETS SERIES 146 7-PIN MINIATURE BUTTON SOCKET



146-111. 7 prong industrial type miniature socket for tubes such as 3Q4, 3S4, etc.

Net \$ 1.47

OCTAL INDUSTRIAL SOCKET



146-103. Octal industrial socket mounts above or below chassis.

Net \$.93

146-104. Same as 103 with molded-in threaded inserts for tie points.

Net \$ 1.28

OCTAL HIGH VOLTAGE SOCKET



146-101. Octal high voltage socket. Mounting holes 136" D.

Net \$.66

SOCKET FOR CARTRIDGE PHOTOTUBE



146-121. Socket for cartridge type phototube such as 921, 922, etc.

Net \$.79



MINIATURE 7 AND 9 PIN SOCKETS



Used for television, FM, auto radios, portables, etc. 7 pin sockets mount in 5/8" chassis hole. Mounting centers 7/8". Screw holes 1/8". 9 pin sockets mount in 3/4" chassis hole. Mounting centers 1 1/8". Rivet holes .095".

Bottom Mounting - No Tube Shield Base

Number	Net
147-502 7 Pin, Black Bakelite	\$.15
147-505 7 Contact Mica-Filled Bakelite	.15
147-501 7 Contact Steatite	.31
59-410 9 Contact Mica-Filled Bakelite	.24

Top Mounting - With Tube Shield Base

Number	Net
147-913 7 Contact Mica-Filled Bakelite	\$.24
147-925 7 Contact Steatite	.38
59-407 9 Contact Mica-Filled Bakelite	.34

Tube Shields and Spring Assemblies



Sturdy, steel shell, cadmium plated to resist rust and corrosion. Stainless steel spring.

Number	Height	For	Net
5-401	1-3/8"	7 pin	\$.08
5-402	1-3/4"	7 pin	.08
5-405	1-1/2"	9 pin	.12
5-408	1-15/16"	9 pin	.14
5-409	2-3/8"	9 pin	.14

Tube Shield No. 5-408 is used with socket No. 59-407.

SERIES 148



Transmitting type steatite tube sockets with Amphenol Cloverleaf contacts. Mounting centers .156". Slotted.

Number	Type	Net
148-101	4 Prong	\$.97
148-105	Small 5-Pin	.97
148-107	Small 6-Pin	1.00
148-111	Octal Socket	.94

Magic Eye Assembly



For 6 prong magic eye tube. Includes 1 megohm target plate resistor & 5 wire, color coded cable 22" long, mounting bracket. Complete with escutcheon & hardware. Tube not included.

No. 58-MEAG Complete Assembly Net \$.89.

OCTAL MAGIC EYE ASSEMBLY



Similar to No. 58-MEAG shown but for octal type magic eye tubes. Complete with 8 wire, color coded cable, 22" long, escutcheon & hardware. Tube not included.

No. 58-MEAG Complete Assembly Net \$.89

24 READY FOR A NEW RECEIVER? - We'll Trade In Your Old One!

SOCKETS RECEIVING - TRANSMITTING Soc

CINCH

CINCH WAFER GLASS TUBE SOCKETS

1 1/2" Mounting Centers



Laminated bakelite socket. Positive grip contacts.

Number	Description	Net
4WX	4 Prong	\$.09
5WY	5 Prong	.09
6WZ	6 Prong	.10
7WU	7 Prong (Small)	.10
7WA	7 Prong (Large)	.10

WAFER OCTAL

8W1	1 5/16" Mounting Centers	\$.10
8W2	1 1/2" Mounting Centers	.10

LOKAL

8LWL	1 1/2" Mounting Centers	Net \$.10
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MOLDED OCTAL

1 5/16" Mounting Centers

High dielectric black bakelite. Sturdy press-on saddle with 4 ground lugs. Mounts in 1 1/16" chassis hole.

8AB Black	Net \$.10
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SUB-MINIATURE

HEARING AID SOCKET



Used for hearing aids, etc. Mica-filled low loss bakelite. Fits Raytheon type CK series. 4 prong tubes use No. 2H5 5 prong socket.

Number	Description	Net
2H5	5 Prong	\$.28
2H6	6 Prong	.29
2H7	7 Prong	.30

8 PRONG SUB-MINIATURE

Sockets for 8 prong sub-miniature tubes such as 1T6, 1A5S, 1E8, 1A6S.

No. 54A136RG	Net \$.48
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J SLOT TUBE SHIELD

Steel shield with tube securing spring. For 7 pin miniature sockets. 2 1/4" high.

No. 7S4	Net \$.19
---------	------------

EBY



Entire socket is molded in one piece of solid bakelite. Phosphor bronze contacts, cad plated. Mounting centers 1-11/16".

Number	Contacts	Net
12-4	4	\$.29
12-5	5	.30
12-6	6	.32
12-7-NO	7 Comb.	.34
12-8	8 Octal	.35



MINIATURE SOCKETS



7 pin. Laminated bakelite, 7/8" mounting centers. Has center shield and ground strap. 11/16" wide.

No. 49-2	Net \$.07
9 pin. 1-1/8" mounting centers. 1" wide.	
No. 49-22	Net \$.09

Vector SOCKET - TURRET



A new and unique terminal structure on which circuit components associated with the tube may be connected directly in the socket. Saves space and simplifies construction.

FOR OCTAL TUBES

Mica-filled socket, steel saddle with 1-5/16" mtg. centers, 4 ground lugs. Requires 1" diameter socket hole.

Number	Height	Terminal	Net
8-0-9T	2"	9	\$.50
6-0-6T	1 1/2"	6	.46

FOR MINIATURE TUBES

Mica-filled miniature 7-pin sockets, 7/8" mtg. centers, requires 5/8" socket hole.

Number	Height	Terminal	Net
8-M-9T	2"	9	\$.59
6-M-6T	1 1/2"	6	.53

FOR NOVAL TUBES

Mica-filled 9-pin noval sockets, 1-1/8" mtg. centers, requires 3/4" socket hole.

Number	Height	Terminal	Net
8-N-9T	2"	9	\$.62
6-N-6T	1 1/2"	6	.56

SHIELD BASES FOR ABOVE



To be used with miniature and noval socket turrets. These fasten above chassis with same screws to attach to socket.

Number	Socket	Net
S-7	7-prong Miniature	\$.08
S-9	9-prong Noval	.09

EBY

SADDLE TYPE TOP MOUNT MINIATURE SOCKETS



7 pin ceramic. 7/8" mounting centers.	
No. 8326	Net \$.26
9 pin ceramic. 1-1/8" mounting centers.	
No. 9735	Net \$.44

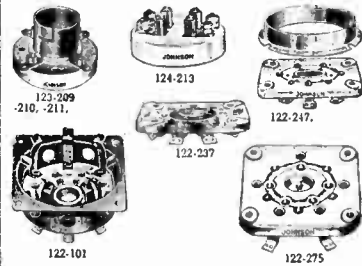
COLOR TV CRT SOCKET



TV socket designed for new type color multi-gun TV picture tubes. Unwired, complete with mounting plate and contacts.

No. COL-1	Net \$ 2.06
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E. F. JOHNSON



Number	Description	Net
123-209	4 Pin-Wide space	\$ 1.08
123-210	4 Pin-Regular space	1.08
123-211	Jumbo, 50 watt, base mtg.	1.37
124-213	Elmac Tubes	1.42
122-237	7 Pin Giant-RCA 813	.71
122-247	7 Pin 826, 828, etc. tubes	.83
122-275	Giant 5 pin-4-125, RK-48	1.29
122-101	7 Pin-826-829-832 tubes	1.96

TRANSMITTING TUBE SOCKETS



For 866, etc. type tubes. Good porcelain insulation, heavy contacts.

No. 434	50 watt	Net \$ 1.38
No. 435	10 watt	1.09

JAMES MILLEN

SOCKET



Socket for 991. Dual contact bayonet socket.

33991	Black Bakelite	Net \$.51
33992	Mica-Filled Bakelite	.63

JAMES MILLEN

CRYSTAL SOCKETS



Number	Pin Spacing	Pin Diameter	Net
33002	3/4"	.125"	\$.36
33102	.487	.095	.36
33202	1/2	.125	.36
33302	1/2	.050	.24

MINI-SPRING FOR MINI-TUBES

Guard springs which give support to the tube in 2 ways. Maintains a direct axial pressure downwards plus a sidewise support which keeps tube upright and perpendicular to the chassis. Spring action is constant and permanent. If equipment has incased chassis or tubes are mounted upside down or horizontal, these springs will keep tube firmly seated in socket.



Number	Type	Net
560	Short	\$.08
561	Medium	.08
562	Long	.08
563	9-Prong	.08

ACRO AND MU SWITCHES

Sw

PORCELAIN KNIFE SWITCHES



Number	Type	Base Size	Net
2351	SPST	1-5/8x1	\$.25
2361	SPDT	2-5/8x1	.30
2371	DPST	1-3/4x1-1/2	.43
2381	DPDT	2-5/8x1-1/2	.53

Slugg. Wgt. 6 oz.

BAKELITE KNIFE SWITCHES



Number	Type	Base Size	Net
1216	SPST	2-3/4x1	\$.54
1217	SPDT	3-1/2x1	.59
1218	DPST	2-5/8x1-7/8	.73
1219	DPDT	3-1/2x1-7/8	.86
1360	3PST	2-5/8x2-1/2	1.20
1220	3PDT	3-1/2x2-1/2	1.30
1221	4FST	2-5/8x3-1/4	1.64
1222	4PDT	3-1/2x3-1/4	1.96
1364	SPDT	3-1/2x3-15/16	2.34

FM and RECORD-PLAYER SWITCH No. 1740



Recommended for quickly attaching phonographs, FM & Television units, etc. to audio of set. Replacement for RCA 9824A. Slugg. Wgt. 1 lb.

No. 1740

Net \$ 1.52



Mallory

24-Position Tap Switch

For test equipment applications, etc. Two section, 24 points each section. 2" shaft. Complete with knob and dial plate.

NO. 13124-L. Net.....\$ 2.06



Tap Change Switch



8 position single pole continuous switch. Markings 1-2-3-4-5-6-7-8, or impedance 0-2-4-8-16-250-500. Slugg. Wgt. 8 oz.

Number	Marking	Net
36-1	1-8	\$.53
36-2	Impedance	.53

Acro SNAP Switches



Switch

FEATURING THE PATENTED ROLLING SPRING PRINCIPLE

Acro and MU Switches for the 1001 applications requiring small snap-action units which use a minimum of pressure to actuate. Extensively used in instruments, industry and experiments. Acro Rolling Spring Switches are simple in construction, consist of Rolling Spring, Actuating Blade and Contact Blade. Contacts where listed as SPDT may be used also as SPST or normally open or normally closed

1CMND1-2AVX



2MD3-1A

Model 1CMND1-2AVX. SPDT. Coin switch. Operating force, 20-27 grams, release force 12 grams, minimum. Phenolic base, contacts of fine silver. Size, 1-5/8x1x1/2 thick. Rated at 3 amps 125 VAC. Net \$ 1.37

Model 2MD3-1A. SPDT. Long lived precision switch of small size which has been tested and approved under Air Force Spec. AN-S-39B. Size, 1-13/64x1x3/64x9/32" thick. Four 3/32" mounting holes. Phenolic case, silver contacts, beryllium springs. Operating force, 6-10 oz., release force 3 oz. minimum. Rated at 10 amps 125 volts, 5 amps 250 volts AC. Net \$ 1.37

1MD1-1A-A18



Model 2MOBD. SPDT. Small size (1-11/32" by 1-1/64 overall) with high current capacity (12 amps 125 VAC, 6 amps 250 VAC). Levers itself readily to mounting in multiples for actuating by cams. Operating force 6-10 oz., release force 2 oz. minimum. Net \$.83

Model 1MD1-1A-A18. SPDT. Similar to Model 2MD3-1A but has mounting bracket with hinged leaf. Operating force 3-6 oz. Release force 1/2 oz. minimum. Net \$ 1.96

RD1A



Model RD1A. SPDT. Pin plunger type switch for all general applications. Size, 1-15/16x11/64x27/32" H. Operating force 8-10 oz., release force 4 oz. minimum. Rated 10 amps 125 VAC, 5 amps 250 VAC. Net \$ 1.28

Model RD-5L. SPDT. Similar to Model RD1A but has leaf actuator made of stainless steel for long life. Net \$ 1.37

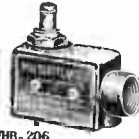


RD-2M

Model RD-2M. SPDT. Similar to above but has roller on end of leaf for operation by cams, etc. Net \$ 1.76

Model RD-1P. SPDT. Panel mount type switch for use where actuating device cannot be accurately controlled. Otherwise similar to above models. Sleeve and button extend approximately 15/16" above case. Complete with two lock nuts. Net \$ 2.94

MU metal clad switches for use on machine tools as safety devices, limit control switches. Have 3/4" female thread for connection to conduit. Weatherproof, splashproof.



MHB-206



MHB-225

Model MHB-206. SPDT. Plunger type, rated at 20 amps 125 VAC, 15 amps 230 VAC, 1/2 HP 115/230/460 VAC. Size overall, 3x2x1". Two "through screws" for mounting. Net \$ 3.72

Model MHB-225. SPDT. Same as above but has waterproofed rubber cap around pin plunger. Net \$ 5.05



MHB-234



MHB-213

Model MHB-234. SPDT. Same as Model MHB-206 but with roller action plunger for use with cams. Net \$ 6.84

Model MHB-213. SPDT. Similar to above switches but has lever action to operate plunger with roller on end of lever. Has flanged base for mounting in addition to screw mount. Net \$ 4.17



MLB-302

Model MLB-302. SPDT. Small, high current type for general use. Rated at 20 amps 125 VAC, 1/2 HP or 15 amps 230 VAC. Lever actuates pin plunger with low operating force. Phenolic case; size, 1-7/8x2 1/2, 32x1" H. Net \$ 1.67



QB-323



QB-301

Model QB-323. SPDT. Super midget type for all miniature applications. May be mounted by means of strap or bracket. Phenolic case is only 11/16" in diameter, 9/32" thick. Will carry up to 10 amps 115 VAC, 5 amps 230 VAC. Extremely short travel on plunger required. 3" lead on common terminal. Net \$.64

Model QB-301. SPDT. Same as above but without lead. Net \$.59



CSG

Model CSG. SPST. Normally open. Rated 6 amps 125 VAC. Developed for coin machine use. 3" actuating shaft requires less than one gram force. Unit is tightly enclosed making it highly resistant to dust, temperature, humidity and vibration. Size: 1 1/4". Silver-plated contacts. Available in clockwise or counter clockwise rotation.

CSG-100 Clockwise Net \$ 1.18
CSG-200 Counter Clockwise 1.18

"Your trade-in's worth more at the WALTER ASHE STORE" (127)

ARROW HART & HEGEMAN SWITCHES

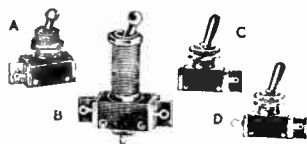


Figure "A" Ball Handle 13/32" Shank

H&H No.	Our No.	Type	Rating	Net Per 10	Net Each
20994-M	232	SPST	3A@250V	\$ 3.79	\$.42
21350-J	233	SPDT	1A@250V 3A@125V	4.80	.54
20902-N	234	DPST	1A@250V 3A@125V	6.89	.77
20905-BK	235	DPDT	1A@250V 3A@125V	7.92	.88

Figure "B" Ball Handle 1" Shank

H&H No.	Our No.	Type	Rating	Net Per 10	Net Each
21615-K	236	SPST	3A@250V	\$4.80	\$.54
21661	237	SPDT	1A@250V 3A@125V	5.83	.63
20902-Q	238	DPST	1A@250V 3A@125V	7.92	.88
20905-F	239	DPDT	1A@250V 3A@125V	8.70	.97

Figure "C" Bat Handle 13/32" Shank

H&H No.	Our No.	Type	Rating	Net Per 10	Net Each
20994-HB	240	SPST	3A@250V	\$3.79	\$.42
21350-EJ	241	SPDT	1A@250V 3A@125V	5.05	.56
20902-AJ	242	DPST	1A@250V 3A@125V	6.89	.77
20905-AN	243	DPDT	1A@250V 3A@125V	7.92	.88

Figure "D" Momentary Contact Toggle Switches. Bat Handle, 13/32" Shank.

H&H No.	Our No.	Type	Rating	Net Per 10	Net Each
0054-S	244	SPST	3A@250V	\$ 6.06	\$.67
1827-Q	245	SPDT	1A@250V 3A@125V	7.00	.78
0907-H	246	DPST	1A@250V 3A@125V	9.16	1.02
1858-X	247	DPDT	1A@250V 3A@125V	10.20	1.13

Our numbers 244 and 246 are "Normal Off".



Figure "E" Momentary Push Button Switch, 9/16" Shank

H&H No.	Our No.	Type	Rating	Net Per 10	Net Each
391-E	248	SPST	1A@125V	\$4.26	\$.47
391	249	SPST	1A@125V	4.26	.47

Figure "E" Momentary Contact Slow Make Break Switch. One circuit is "ON" while other is normally "OFF". Pushing button reverses circuit. Rated 1A 125 V.

H&H No. 3392-A Our No. 250 Net Each \$.78 Net per 10 6.99

Figure "F" Ball Handle Power Switches rated at 12 Amps at 125 Volts or 6 Amps at 250 Volts and 1 H.P. at 250 Volts.

H&H No.	Our No.	Type	Rating	Net Per 10	Net Each
1600	251	DPST		\$8.37	\$.93
1607	261	SPST		8.37	.93

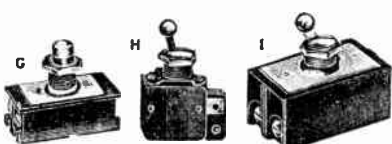


Figure "G" Push Button Power Switches

Similar to types 251 and 261 but push button type. Each set of contacts rated at 12 Amps 125 Volts or 6 Amps at 250 Volts. For use on relay rack doors and cabinets as safety switches, etc.

H&H No.	Our No.	Type	Net Per 10	Net Each
80630	252	DPST	\$12.40	\$1.37

Figure "H" Ball Toggle Power Switch. Will handle 5 Amps at 120 Volts or 10 Amps at 125 Volts. Bakelite body, 3/8" shank, screw connections, SPST.

H&H No.	Our No.	253 Net Each	\$.75
80323-B	253	Net per 10	6.74

Figure "I" Heavy Duty Ball Handle Toggle Switch with neutral center. Extra heavy DPDT contacts for use in transmitters, motors, etc. Fast break reduces tendency to arc. Rated at 5 Amps at 250 Volts or 10 Amps at 125 Volts or 3/4 H.P. at 250V.

H&H No.	Our No.	258 Net Each	\$ 2.87
80638	258	Net per 10	25.90

Figure "I" DPST Power Switch. Heavy duty type will carry 20 Amps at 250 Volts or 40 Amps at 125 Volts or 1-1/2 H.P. at 250 Volts.

H&H No.	Our No.	259 Net Each	\$ 1.93
80421	259	Net per 10	17.40

OFF-ON Plate for 80421 Switch Net .07

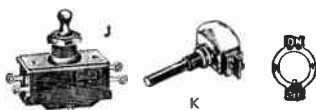


Figure "J" Center-Off Position Switches rated at 6 Amps at 125 Volts or 3 Amps at 250 Volts. Type 262 has two separate sections not connected to each other.

H&H No.	Our No.	Type	Net 10	Net Each
82021	262	2 Cir.	\$ 10.10	\$ 1.12
82022	263	SPDT	9.64	1.07
82024	264	DPDT	10.80	1.20

Fig. "K". Laminated body. 3/8" threaded shank. 1-1/8" shaft.

H&H No.	Our No.	Type	NET PER 10	NET EACH
1561-BS	234	SPST	\$ 4.70	\$.53
1565-Q	235	SPDT	6.30	.70
1572-AR	256	DPST	7.82	.87
1575-AR	257	DPDT	8.70	.97

Nickel-plated switch plates for H&H toggle switches.

"OFF-ON" "H1-LO"	Net Each	\$.03
		.03

SLIDE SWITCHES	Number	Type	Net
	SW-723	SPST	\$.12
	SW-724	SPDT	.13
	SW-725	DPST	.21
	SW-726	DPDT	.21

OHMITE

POWER



TAP SWITCHES

Non-shorting, high current, power switches. All-ceramic insulation with large, solid, silver-to-silver contacts. "Slow-breakquick make" action especially designed for alternating current. Switch shafts are "dead". Used in switchboards, welders, chargers, motor controls, X-ray, transmitters, etc. Switches are single pole, rotary, multi-position units but are available two or three in tandem on order. U/L approved. Also available in 50 amp, 300 volt and 100 amp, 300 volt types.

MODEL 111

AC current rating 10 amperes, 150 volts. Diameter 1 1/4", depth behind panel 1 1/4". 1/4" shaft. For 1/2" panel maximum.

Stock Number	Total Rotation	Net
111-11	300°	\$ 2.72
111-10	270°	2.67
111-9	240°	2.67
111-8	210°	2.57
111-7	180°	2.57
111-6	150°	2.46
111-5	120°	2.46
111-4	90°	2.39
111-3	60°	2.39
111-2	30°	2.39

MODEL 212

AC current rating 15 amperes, 150 volts. Diameter 2 1/4", depth behind panel 1 1/4". 1/2" shaft. For 1/2" panel maximum.

Stock Number	Total Rotation	Net
212-12	330°	\$ 6.88
212-10	270°	6.65
212-8	210°	6.44
212-6	150°	6.19

MODEL 312

AC current rating 25 amperes, 300 volts. 150 VAC between taps. Diameter 3 1/4", depth behind panel 2 1/4". 1/2" shaft. For 1/2" panel maximum.

Stock Number	Total Rotation	Net
312-12	330°	\$ 9.62
312-10	270°	9.41
312-8	210°	9.18
312-6	150°	8.94

FEDERAL ANTI-CAPACITY SWITCH



Positive action, silver plated phosphor bronze springs & contacts. Sng. Wgt. 8 oz.

Number	Description	Net
1425	DPDT 6 Spring	\$ 2.53
1424	4PDT 12 Spring	2.84



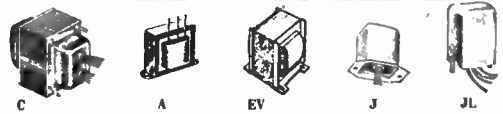
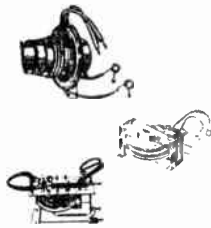
CUTLER-HAMMER

#260 SPDT switch. Center-off position. Net Each \$.56 Net Per 10 \$ 5.04

MERIT TV REPLACEMENT COMPONENTS TEL

HORIZONTAL OUTPUT AND HI-VOLTAGE TRANSFORMERS

Number	Net	Number	Net
HVO-3	\$ 4.70	HVO-21	\$ 6.32
HVO-5	5.88	HVO-22	6.17
HVO-7	7.06	HVO-23	6.17
HVO-X7	8.82	HVO-24	6.17
HVO-8	3.82	HVO-25	6.17
HVO-9	5.88	HVO-26	6.17
HVO-10	5.88	HVO-27	6.17
HVO-11	5.29	HVO-28	7.79
HVO-12	5.88	HVO-29	7.79
HVO-13	4.85	HVO-30	7.79
HVO-15	7.94	HVO-31	6.17
HVO-16	7.94	HVO-32	6.47
HVO-17	7.94	HVO-33	3.82
HVO-18	7.35	HVO-34	3.97
HVO-19	6.17	HVO-35	6.17
HVO-20	6.61		



TELEVISION REPLACEMENT POWER TRANSFORMERS

FIGURE "C"

Types P-3069, P-3071 have built-in socket for rectifier tube. Primary 115 VAC, 60 cycle.

NUMBER	SEC. VOLTS	DC.A	RECT. FIL.	FIL. WIND.	NET
P-3045	120	50		6.3V-2A	\$ 2.94
P-3046	120	25		6.3VCT-5A	1.91
P-3071	360-360	180	5V-3A	6.3V-9A	13.23
P-3072	360-360	180	5V-3A	6.3V-9A	12.49
P-3069	330-350	225	5V-3A	6.3V-10A	13.23
				6.3V-2.7A	
P-3070	350-350	225	5V-3A	6.3V-10A	12.49
				6.3V-2.7A	
P-3059	360-360	250	5V-2A	6.3V-2.7A	14.70
				6.3V-9A	
P-3063	360-360	250	5V-3A	6.3V-9A	13.23
				6.3V-1.2A	
				5V-2A	
P-3061	362-362	295	5V-6A	12.6VCT-5A	16.17
				5V-2A	
P-3073	322-322	180	5V-3A	6.3V-10A	16.17
	205-205	70		6.3V-2.7A	
P-3066	375-375	170	5V-3A	12.6VCT-5A	14.70
	325-325	130	5V-3A	6.3V-2.6A	
				5V-2A	
P-3067	400-400	220	5V-3A	6.3V-10A	14.70
	212-212	90	5V-3A	6.3V-2.6A	
				5V-2A	
P-3077	300-300	250	5V-3A	6.3V-9A	10.77
P-3078	360-360	275	5V-3A	6.3A-9A	13.82
				6.3V-1.5A	
				6.3 or 5V-2.7A	
P-3079	140	300		6.3V-9A	8.67
	tap 117			6.3V-2A	
				6.3V-9A	
P-3076	270-270	300	5V-3A	6.3V-6.5A*	14.11
	180-180	300		6.3V-6.5A*	

*Can be used in series for 12.6V.

HORIZONTAL "SYNC." TRANSFORMERS

Number	%	System	Size	Net
TV-160		Sync. Lock	1-7/16x1-7/16x2"	\$ 1.62
TV-161		Sync. Guide	1-7/16x1-7/16x2"	1.18
TV-162		Sync. Lock and Phase	1-7/16x1-7/16x2"	1.47
TV-163		Ringin Coil	Fits in 7/16" hole.	1.18



I. F. TRANSFORMERS - PERMEABILITY TUNED

Number	Function	Freq. MC	Mounting	Net
TV-100	1st Pix Amp.	25.3	A	\$ 1.62
TV-101	2nd Pix Amp.	22.3	A	1.23
TV-102	3rd Pix Amp.	25.2	B	.47
TV-103	4th Pix Amp. (det)	23.4	B	.47
TV-104	1st Snd. Amp.	21.25	A	1.29
TV-105	2nd Snd. Amp.	21.25	A	1.29
TV-106	Sound Discrim.	21.25	A	1.53
TV-107	Converter	21.8	A	1.62
TV-108	Input Amp.	4.5	A	1.62
TV-109	Sound Discrim.	4.5	A	1.76
TV-110	Snd. Ratio Det.	4.5	A	1.94
TV-111	Snd. Ratio Det.	21.25	A	1.94
TV-112	Tunable Choce	21-25 MC	B	.59

WIDTH-LINEARITY COILS

Number	Net	Number	Net
MWC-1	\$ 1.32	MWC-4	\$.73
MWC-2	.65	MWC-5	.73
MWC-3	1.12	MWC-6	.73



TRAPS—PERMEABILITY TUNED

Number	Function	Frequency	Size	Mounting	Net
TV-150	Cathode Trap*	21, 25 MC	1 1/2" x 1 1/2"	B	\$ 1.18
TV-151	Sound Trap	4.5 MC	1 1/2" x 1 1/2"	B	.59

*Includes Condenser

DEFLECTION YOKES

Number	Net	Number	Net
MD-13	\$ 5.29	MDF-73	\$ 5.88
MDF-70	5.88	MDF-74	5.88
MDF-71	5.88	MDF-90	8.82
MDF-72	5.88	MD-12	5.29



TV AUTO TRANSFORMER

Picture tube brightener. Supplies 12.6 volts. Tapped at 9.45 volts and 6.3 volts. Input 6.3 volts. NO. P-3098. Net.....\$ 1.47



PEAKING COILS

Number	Inductance Microhenries	Color Code	Shunt Res.	Mtg.	Net
TV-180	36.	Black	----	E	\$.27
TV-181	93.	Red	----	E	.27
TV-182	120.	Blue	22K	E	.27
TV-183	180.	White	39K	E	.27
TV-184	180.	Yellow	----	E	.29
TV-185	250.	Green	----	E	.29
TV-186	73.	----	10 Meg.	E	.29
TV-187	230.	----	22K	E	.29
TV-188	500.	----	10 Meg.	E	.29
TV-189	0.8	Orange	----	E	.29

REPLACEMENT TV FILTER CHOKES

NUMBER	HENRIES	MA	OHMS DC	INSULATION	MTG.	NET
C-2973	1.5	10	95	1500	A	\$ 1.03
C-2994	1.5	200	90	1500	A	1.32
C-2995	8.0	100	375	1500	A	1.76
C-2991	2.0	250	53	2000	A	2.59
C-2996	1.0	300	60	1500	A	2.06

VERTICAL OUTPUT TRANSFORMERS

Number	Turns Ratio	H.	W.	D.	Mounting	Net
A-3035	10-1	3-1/8"	2-11/16"	2-1/2"	EV	\$ 3.68
A-3036	10-1	2"	3-1/4"	2"	A	2.50
A-3037*	11.4-1	2"	3-1/4"	1-5/8"	A	2.50
A-3038	10-1	2-1/4"	3-11/16"	2-1/4"	A	3.23
A-3039*	18-1	2-1/4"	3-11/16"	2-1/8"	A	3.23
A-3080	25-1, 50-1	2"	3-1/4"	2"	A	3.53
A-3081*	30-1, 50-1	2-1/4"	3-11/16"	2-1/4"	A	3.82

*Auto Transformer

BLOCKING OSCILLATOR TRANSFORMERS

Number	Turns Ratio	H.	W.	D.	Mounting	Net
A-3000V	1-4-2	1-3/8"	2-3/8"	1-1/4"	A	\$ 1.56
A-3001V	*	1-5/8"	2-13/16"	1-1/2"	A	2.35
A-4000V	1-4-2	1-3/4"	2-5/16"	1-1/2"	J	1.91
A-3002H	2-1	1-3/8"	2-3/8"	1-1/4"	A	1.76
A-4002H	2-1	1-3/4"	2-5/16"	1-1/2"	J	2.21
A-4003V	1-4-2	1-9/16"	1-3/16"	1-3/16"	JL	1.91
A-3004V	Philco 32-8304-8431-42					1.62

"V" Vertical - "H" Horizontal

*Pri/Sec 1, 1-2.08 - Pri/Sec 2, 1-1.



FOCUS COILS



Number	Depth	Tube Size	Equivalent	MA	DC Res.	Mtg.	Net
MF-1*	1-15/32"	10"-12"	RCA 202D1	100	247	P	\$ 4.85
MF-2	1-3/16"	16"	RCA 202D2	100	470	S	6.47
MF-3*	1-15/32"	10"-12"	-----	100	360	P	4.85
MF-4	1-3/16"	14"-20"	-----	75	1000	S	6.47
MF-5	1-3/16"	14"-20"	-----	75	15000	S	6.47

*Equipped with lugs on each side plus Univ. Mtg. Plate.

"Your trade-in's worth more at the WALTER ASHE STORE" (129)

Regency



VHF TELEVISION BOOSTER

Superior performing VHF cascade booster for all channels 2-13. Works with sets with cascade front end. Accurate tracking on all channels. Large, easy-to-read single tuning knob. 300 ohm input and output. Ceramic switches. Tubes: 1-6J6, 1-12AT7. TV set plugs into booster, booster into wall socket. Operates on 117 VAC 50/60 cycles. Brown bakelite cabinet, size 4 1/2 x 6 7/8 x 4 1/2". Shpg. Wgt. 4 lbs.

MODEL DB-550. Net.....\$ 22.05

ASTATIC

"SCANAFAR"



MODEL CT-1. Two-stage booster for VHF channels 2-13. Excellent bandwidth. Uses a neutralized 6J6 driving a push-pull dual triode grounded grid circuit. Balanced, cascaded circuit provides added signal strength with low noise level. Has input and output connections for 72 and 300 ohms. Attractive metal cabinet finished in brown Hammerlin with gold trim. Size: 6 1/2 x 4 x 5". Complete with selenium rectifier and tubes. For operation on 110-120 VAC 60 cy. Shpg. Wgt. 5 lb. Net \$ 20.58

RMS PIX-EYE



MODEL TE-5. Plugs into picture tube socket for instant spot-check of brightness control circuits, contrast control circuits, video circuits, low voltage circuits, filament voltage circuits. No need to remove chassis from cabinet. Also checks picture tube for shorts, intermittents, open circuits. Speeds television servicing. Net \$ 5.85

G-C INTERLOCK CABLE CORD



Replacement cord for RCA, Philco, Hallcrafters, Admiral, and many others. Fits into socket in rear of chassis. Regular molded rubber plug on other end.

NO. 8200

Net \$.44

AC INTERLOCK PLUG

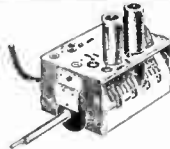


Mounts on TV receiver cabinet. Serves as male socket for female plug end of AC safety cord.

NO. BR-75

Net \$.13

"The Standard Tuner"



SUPER CASCADE TUNER, Nominally set at factory at 22.3 MC but can be adjusted to any frequency within the range of 19-26 MC. Increased sensitivity for fringe area reception. Readily adaptable for UHF. Low noise factor. Long shaft can be cut to desired length. Uses 1-6BQ7, 1-6J6. Perfect tracking on all channels 2-13. Complete with tubes. Shpg. Wgt. 4 lbs.

MODEL TV-2232. Net.....\$ 24.01

MODEL TV-6532. Same as above but for TV sets in 41 MC IF range. Net....\$ 24.01

PERFECTION ION TRAPS



SINGLE FIELD ION TRAPS to be used on bent-gun type TV picture tubes. Simple to install and adjust. Net \$.49

DOUBLE FIELD ION TRAPS to be used on straight-gun type TV picture tubes. Simple to install and adjust. Net \$.99

PERFECTION B. O. Eliminator



B. O. ELIMINATOR. Eliminates B. O. (Barkhausen Oscillation) vertical black bars which appear in picture. Device clamps around horizontal sweep output tube and dark bars usually leave. Net \$.73

TELEVISION

VOLTAGE REGULATORS

JFD

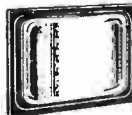


Automatic voltage regulating action provides steadier TV pictures by maintaining 110 AC or DC line voltage at a constant level. Protect the TV set by assuring safe operating potential that prevents the damage of tube and parts from line voltage surges. Simply plug the regulator into wall outlet and the TV set line cord into the regulator itself.

NO. 93-7 300 Watts Net \$ 1.76

NO. 93-8 375 Watts 1.76

PLASTIC TUBE MASKS



For conversion and custom-built installations. Made of finest unbreakable clear Acrylic. Precision optical perfection. Framed in quality gold leaf finish. Provide anti-static distortion-free pictures and serves as protective shield for tube.

Number	For Tube	Net
T105-14	14" Rect.	\$ 5.56
T105-16	16" Rect.	6.61
T105-16R	16" Round	7.03
T105-17	17" Rect.	7.81
T105-19R	19" Round	10.88
T105-20	20" Rect.	11.08
T105-21	21" Rect.	11.76

MALLORY

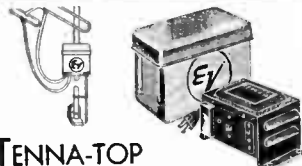


UHF CONVERTER

Can be installed in five minutes. Simple accurate tuning throughout the entire UHF band. Converts any VHF TV receiver to tune ALL UHF channels 14-83. Slide rule dial. Front control turns TV set off-on, permits changeover from UHF to VHF. No strips or switches necessary. Connect UHF and VHF antennas to converter, connect lead (furnished) between converter and receiver, set receiver to channel 5 or 6 and tune UHF. Furnished with built-in UHF antenna which works in same high signal areas; however outdoor UHF antenna is recommended for best results. Attractive maroon plastic cabinet. For operation on 110-120 VAC 50/60 cycle. Shpg. Wgt. 8 lbs.

MODEL 88. Net.....\$ 22.46

ElectroVoice



TENNA-TOP

ANTENNA-MOUNTED TV BOOSTERS

Mounts at antenna ahead of lead-in. Self-tuning, amplifies all VHF channel signals. No manual tuning necessary. Up to 3000 feet of wire may be used. Single lead-in carries power up, brings amplified signal down. Weatherproof amplifier mounts easily on mast, junction control box easily hidden in TV set. Uses four tubes for separate high and low band 2-stage amplifiers. Input and output 150-300 ohms. Operates on 105-125 VAC 60 cycles. Complete with tubes, less lead-in. Shpg. Wgt. 11 lbs.

MODEL 3010. Net.....\$ 51.74

STANCOR

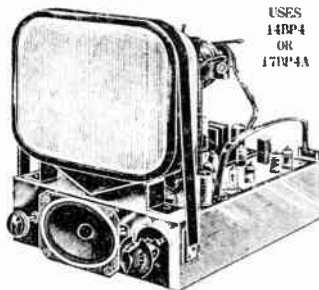
CR TUBE BOOSTER



MODEL P-8192. Adds months of life to any dim electro-magnetic CR tube, regardless of size, when dimming is due to low cathode emission. Easy to install. Two positions, Hi and Low. 15" leads supplied. No AC connection required, no connections to solder. Does not change CR tube space requirements. Two levels of brilliance. Size: 3 1/4" high, 1 1/2" diam. Shpg. Wgt. 1 lb. Net \$ 2.89

130 READY FOR A NEW RECEIVER? - We'll Trade In Your Old One!

“Universal”



USES
14BP4
OR
171P4A

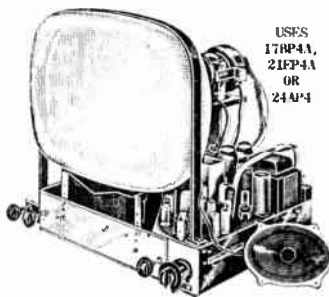
TELEVISION KIT

MODEL 5116. Brand new model of the famous Tech-Master 16-tube AC-DC kit which includes such features as two knob, front panel control which automatically synchronizes picture and sound, improved 12 channel tuner, latest type hi-gain stagger-tuned I.F. system, sufficient high voltage for tubes up to and including 17" on AC. Maximum signal even in fringe areas. New AGC system with special delay network for steady pictures regardless of varying transmission conditions. Complete factory pre-wired, aligned and tested I.F. Synchro-Strip. This saves much of the work and worry of alignment heretofore present in other kits. Ideal for radio and trade schools. No special tools required for construction, helpful step-by-step, pictorial and schematic diagrams included in every kit. Beam power audio output. 4x6" PM speaker. Chassis is small in size, 17x14 x4", light in weight and shockproof. Complete with tuner and all tubes, all hardware, tube mounting for picture tube, all instructions, less picture tube, wire and solder. For operation on 110/120 V. AC-DC, 40/60 cy. Shpg. Wgt. 30 lbs.

LESS PICTURE TUBE

Net \$ 99.95

TECH-MASTER



USES
17BP4A,
21FP4A
OR
24A4

DELUXE KIT

America's finest television kit. The world famous RCA 630 type circuit now further improved by Tech-Master engineers. Features include keyed AGC circuit which minimizes or eliminates "air-plane flutter" and other annoying interference, advanced type 12 channel turret tuner for positive lock-in, improved picture brilliance with new "high Sweep" voltage multiplier system. Truly an excellent kit for the discriminating buyer who wants the best or for the radio and television school where uniformity and simplicity of construction are paramount. Every kit is furnished with complete step-by-step instructions, pictorial and schematic diagrams. No special tools are needed. Sensitivity of 20 MV makes this an excellent receiver for fringe areas. Proper electromagnetic deflection for any tube requiring 53 to 70 degrees horizontal deflection. Any picture tube from 17" to 24" may be used. (Universal mounting bracket supplied.) Complete with 29 tubes, speaker, all instructions (less kinescope, wire, and solder). Size: 21½x15½". For 105/125 VAC 60 cy. Shpg. Wgt. 65 lbs.

MODEL 630-D24 DELUXE KIT. All principal components mounted. Net \$ 159.50

Blue Ribbon



WIRED CHASSIS

29 TUBES

INCLUDING RECTIFIERS
LESS PICTURE TUBE

Custom-built TV chassis with automatic focus designed for use with new low-voltage electrostatic self-focus tubes such as 17TP4, 21MP4, 24BP4, etc. Completely wired, aligned and tested, with all parts and tubes (less kine), quality PM speaker. Ready for use. Uses basic 630 type circuit features plus automatic sound picture synchronization. Advanced, cascade 12-channel (VHF) turret tuner. 5 microvolt sensitivity. 16 KV 2nd anode voltage. Double-time constant AGC. Automatic background control. Operates on 117 VAC 50/60 cycles. Size: 21½x16¼"D. Shpg. Wgt. 55 lbs.

MODEL C-30. Net.....\$ 149.50

TECH-MASTER CHASSIS AND KITS ARE AVAILABLE WITH BUILT-IN UHF CONVERTER WHICH TUNES CHANNELS 14-82 AT EXTRA COST OF \$36.95 NET.

SIMPSON

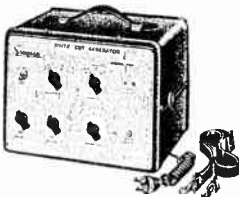


NEW

“MIDGETESTER”

Compact as a pack of cigarettes. Smallest practical volt-ohmmeter commercially available. Fits into your shirt pocket. Size only 1" thick, 4½" long, 2½" wide. Attractive polished styrene case. AC and DC voltage ranges, 0-3-12-60-300-1200 at 10,000 ohms per volt. Resistance, 0-10,000 ohms, 0-100,000 ohms, 0-1 megohm, 0-10 megohms. Complete with test leads and instructions. Shpg. Wgt. 3 lbs.

MODEL 355. Net.....\$ 29.35



NEW SIMPSON
WHITE DOT GENERATOR

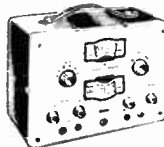
For making linearity adjustments of black and white TV and linearity and convergence adjustments on color TV receivers. Vertical and horizontal synchronization assures correct aspect ratio. Has ample attenuation, 300 ohm RF output. Positive or negative video output, excellent for accurate and fast checking transient response of video amplifiers. Housed in attractive grey hammerloid case, size 8x8½x11". Operates on 117 VAC 50/60 cycle. Complete with shoulder strap and operating instructions. Shpg. Wgt. 15 lbs.

MODEL 434. Net.....\$ 144.55



RF SIGNAL GENERATOR

WR-49A



Compact and lightweight signal generator with built-in DC blocking condensers in probe tip. Used for alignment and signal tracing in AM-FM receivers, alignment of low frequency IF amplifiers in TV receivers and signal tracing and troubleshooting in TV. Six ranges: 85-200 KC, 200-550 KC, 550-1600 KC, 1.6-4.8 MC, 4.7-14 MC, 13-30 MC. Coarse and fine RF attenuator controls. 1% accuracy dial calibration. Size: 7½x10½x6"D. Blue-grey hammerloid case with satin-aluminum panel. Operates on 117 VAC. Complete with output cable, tubes, and instructions. Shpg. Wgt. 10 lbs.

MODEL WR-49A. Net.....\$ 59.50

THE HICKOK ELECTRICAL INSTRUMENT COMPANY



NEW
5"
scope

MODEL 665. New Hickok 5" scope with all the needed characteristics for accurate TV alignment and service work. Frequency range: 0.5 cycles to 700 KC, down 3 DB. Amplifier: Push-pull, vertical sensitivity 20 MV RMS per inch. Horizontal, 30 MV RMS per inch. Vertical Input Impedance: 15 MMF, 2.2 megohms. Horizontal Input Impedance: 52 MMF, 0.1 megohms. Sweep Oscillator Range: 18 CPS to 50 KC. Withstands shock, vibration, humidity. Uses 5UP1 CR tube, 1-1V2, 1-6X4, 1-6AB4, 3-12AT7, 1-6U6. Blue Hammertex steel case, 13Hx17 $\frac{1}{2}$ Dx9 $\frac{1}{2}$ "W. 23 lbs. net; Shpg. Wgt. 30 lbs.

MODEL 665 NET \$129.50



Hickok
WIDE RANGE
5" LABORATORY
Oscillograph

For the industrial and professional engineer, a versatile scope for observation of transient or regular recurring phenomena. Vertical amplifier has flat freq. res. of 0-4.5 MC within 3 DB with sensitivity of 25 MV/1. Vertical sensitivity switch to increase to 10 MV/1 with res. of 0-1 MC. Horizontal amplifier freq. res. 0-200 KC, sensitivity 50 MV/1. Recurrent and driven sweep of 2 cy. to 30 KC. Sweep speed up to 0.75" per microsecond. Expandable sweep, 6 times. Fixed freq. speeds of 30 and 7875 for observation of waveforms, Sync at 60 or 120 cy External or internal sync. Built-in peak-to-peak calibrating voltages of 100; 10; 1; and .1 volts. Sawtooth sweep output available. Phase control 0-90°. Z axis shielded. Shock mounted. Mu metal shielded, calibrated scale for calibrating voltages. Supplied with 5UP1 For 105/125 VAC 60 cy. Size: 14 $\frac{1}{2}$ x11x19. Shpg. Wgt. 44 lbs.

MODEL 640 NET \$355.00



MODEL 670 OSCILLOGRAPH

Tailored to the exacting requirements of modern TV servicing. Designed with DC amplifiers to provide perfect square wave response on low frequency, even down to DC. Direct coupled, balanced, (push-pull) amplifiers for horizontal and vertical deflection. Sensitivity .01 (10 MV) RMS per inch. Recurrent linear sweep; 3 cy. to 50 KC. Fixed sweep frequencies; 30 cy. and 7875 cy. FREQUENCY RANGE: Vert. Amp., DC to 500 KC, down 3 db. Usable to beyond 2 MC; pulse rise time 0.6 microsec. Horiz. Amp., 0-100 KC; pulse rise time 3.8 microsec. Demodulator circuit for viewing modulation on RF signal. Reversing switches for both horizontal and vertical deflection. Negative and positive synchronizing. Provision for direct connection to horiz. and vertical plates of CR tube. Portable steel case, size 9 $\frac{1}{2}$ x12 $\frac{1}{2}$ x18"D. For operation on 105-125 VAC 50/70 cy. Shpg. Wgt. 35 lbs.

MODEL 670 NET \$244.00

HICKOK CRYSTAL DEMODULATOR PROBE

When used with any CRO, enables user to trace a modulated RF signal at any frequency up to 500 MC through a radio or television receiver from the antenna post to the detector or discriminator. Complete instructions with unit. Shpg. Wgt. 1 lb.

MODEL 34 PROBE Net \$ 9.80

HICKOK TELEVISION PROBE

For use with any scope to reduce the capacity induced through long leads to receiver. Reduces loading to approximately 15 mmfd., thereby not usually affecting circuit. Non-frequency discriminating. Shpg. Wgt. 1 lb.

MODEL TYP-1 PROBE Net \$ 12.60

JACKSON 5-INCH OSCILLOSCOPE FOR VHF-UHF-COLOR

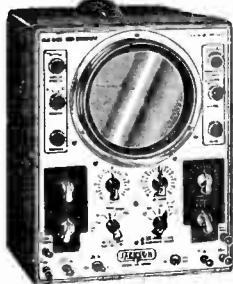
High sensitivity, wide band scope, .018 RMS volts per inch. Correct color response. Flat within 1 DB from 20 cycles through 4.5 MC. This feature necessary for evaluating color burst signal and level of color chrominance signal. With bandwidth of 20 cycles through 100 KC, the sensitivity ranges are .018, .18, 1.8 RMS volts per inch. Wide band position 20 cycles through 4.5 MC, has sensitivity ranges of .25, 2.5, 25 RMS volts per inch. Internal horizontal sync. Horizontal sweep expansion, four times screen width. Push-pull horizontal amplifiers have sensitivity of 0.40 RMS volts per inch. Vertical input impedance: 1.5 megohms, shunted by 20 mmfd. Horizontal input impedance: 1.1 megohms. Vertical polarity reversal switch. Return trace blanking. Synchronizing input control: four positions; internal positive, internal negative, external, 60 cycle. Scope is suitable for all TV color and black-white systems, FM and AM. Operates on 117 VAC 60 cycles. Size: 13x10 $\frac{1}{2}$ x15 $\frac{1}{4}$ "W. Finish: stool-grey Ham-R-Tex. Shpg. Wgt. 32 lbs.

MODEL CRO-2. Net.....\$ 220.50

MODEL CR-P Demodulation Probe. Net.....\$ 9.75

MODEL 10 LCP Low Capacity Cathode Follows.....\$ 9.55

Probe. Net.....\$ 12.60



**BIG
7-INCH SCOPE
KIT**



MODEL 470-K. Big 7 inch scope kit for all servicing needs, schools, laboratories, etc. Frequency Response: Vertical amplifier, 10 cycles to 1 MC, 2 DB. Horizontal amplifier, 10 cycles to 200 KC \pm 0 DB, -4 DB at 500 KC. Both amplifiers have cathode follower input, push-pull output. Sensitivity: Vertical, 0.01 volts RMS per inch. Horizontal, 0.3 volt RMS per inch. Sweep Range: 15 cycles to 100 KC in 4 overlapping ranges. Internal Voltage Calibrator allows direct reading of peak-to-peak voltage on calibrated screen. Kit is complete with separate construction and instruction manual, all parts, tubes, including CR tube. Blue-grey steel case, size 10x15x15"D. Operates on 105-125 VAC 50/60 cy. Shpg. Wgt. 35 lbs. Net \$ 79.95

MODEL 470. Same as above but factory wired and tested. Net \$ 129.50



**EICO
425
SCOPE KIT**

MODEL 425-K OSCILLOSCOPE KIT. Wide range, high sensitivity, push-pull deflection scope for FM, TV, & AM alignment. Sensitivity .05 to .1 volts per inch. Wide range, flat from 5 CPS to 500 KC with full gain setting, useful to 2 $\frac{1}{2}$ MC. Wide range, multi-vibrator, sweep circuit from 15 CPS to 75,000 CPS. Direct connection to plates of CR tube available at rear of cabinet. Z axis intensity modulation feature included. Size: 8 $\frac{1}{2}$ x17x13" H. Complete with 3-6SN7, 2-6J5, 2-5Y3, and 5BP1 tubes. Operates on 110-120 VAC, 60 cy. Complete with all assembly instructions, diagram, tubes, parts, cabinet and panel. Less solder. Shpg. Wgt. 30 lbs. Net \$ 44.95

MODEL 425 - Same as above but completely wired and tested. Net \$ 79.95

SEE PAGES 108, 109, 110, AND 111 FOR COMPLETE LINE OF EICO KITS AND WIRE TEST EQUIPMENT.

Simpson
OSCILLOSCOPE
CALIBRATOR



MODEL 276. Adapts your scope for voltage measurements by comparative methods. Continuously variable calibrating voltage supplied, indicated by 4 $\frac{1}{2}$ " meter, shows RMS values 0.06V to 90V, peak values from 0.1V to 125V, and peak-to-peak values from 0.2V to 250V. Bakelite case, 5 $\frac{1}{2}$ x7x3 $\frac{1}{2}$ "H. For 105-125 VAC 50/60 cy. Shpg. Wt. 5 lbs. **NET \$28.91**



oscilloscopes

WO-88A

5" SCOPE



MODEL WO-88A. New 5" scope for General Purpose Industrial and Television servicing. Vertical amplifier response flat from 0-100 KC, sensitivity 25 MVPI rms. Useful beyond 1 MC. Horizontal sensitivity 0.6 volts rms. Calibrating voltage, 0.35 volts. Sweep frequency 15 CPS to 30 KC. (4 ranges). Positive and negative sync facilities. Frequency compensated attenuators. Direct coupled push-pull vertical amplifier. Complete with Direct Probe and Cable, Low-Capacitance Probe, Clip, Ground Lead, Green filter graph screen. Uses 1-6X4, 1-12A7, 2-6A6, 1-1V2, 2-12AT7, 1-5UP1. Size, 9Wx13½Hx16½D. Operates on 105-125 VAC 60 cy. Net weight 25 lbs., Shpg. Wgt. 32 lbs.

MODEL WO-88A SCOPE

\$149.50



WO-56A

7" SCOPE

MODEL WO-56A. New 7" scope tube model with identical vertical and horizontal amplifiers direct coupled for flat response down to DC. Push-pull throughout. Peak-to-peak calibrating voltage source. Frequency response of both amplifiers flat within -2 DB from DC to 500 KC, useful beyond 2 MC. CR tube well shielded. Dual controls for coarse and fine tuning. Ideal for TV service, has pre-set fixed positions for TV vertical and horizontal waveforms, "plus and minus" sync. Line frequency sweep and sync with phasing. Deflection sensitivity: Vertical, MVPI rms 10.6 with direct probe. Horizontal, MVPI rms 21.2 without cable and probes. Variable sweep frequency 3 CPS to 30,000. Uses 4-6BH6, 5-12A7, 1-6X4, 1-1V2, and 7J1 scope tube. Complete with Direct Probe and Cable, Low-Capacitance Probe, Ground Lead, Clip, Graph Screen. Operates on 105-125 VAC 60 cy. Case finished in blue-grey hammeroid, size 13-3/8H, 9W., 16-5/8"D. Shpg. Wgt. 38 lbs.

MODEL WO-56A SCOPE

\$274.50

SYLVANIA

400

Sensitive
All-Purpose
Oscilloscope



MODEL 400. Exceptionally high gain, sensitive, wide-band scope designed especially for servicing TV receivers. Accurately shows any TV pulse, wave-shape or signal on 7" screen. HIGH VERTICAL SENSITIVITY: 0.01 volts RMS (10 MV) per inch. Vertical response flat from 10 cy. to 2 MC, useful to 4 MC. Square wave response to 50 KC. Usable with any crystal, direct special probe or with lead supplied. Hard-tube multivibrator sweep circuit; linear sweeps from 15 cy. to 50 KC, rapid return trace. Direct 24 volts RMS per inch P. to P. Hor. amp. 0.5 volt RMS per inch P. to P. Direct 26 volts RMS per inch P. to P. POWER SUPPLY: 117V 50/60 cy., 200 watts. Fuse protected. SIZE: 17Hx11-3/8Wx17-3/4"D. FINISH: Pearl grey mar-resistant crackle finish. Panel grey with green, baked-on-enamel letters. Shpg. Wgt. 45 lbs.

MODEL 400

NET \$249.50

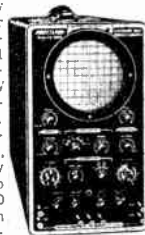
PRECISION

MODEL ES-500A. Highly sensitive 5" scope for TV, FM, and AM applications. Has Push-Pull horizontal and vertical amplifiers. 20 MV per inch "v" sensitivity. Response 10 cy. to 1 MC. Linear multivibrator sweep circuit, 10 cy. to 30 KC. 4-way sync selection. Sweep phasing control. 150 MV per inch deflection sensitivity in PP horizontal amplifier. In black ripple heavy gauge steel case. Size: 8x14x18. Includes light shield, calibrating mask, and instruction manual. For 110-120 VAC 50/60 cy. operation. Shpg. Wgt. 44 lbs.

MODEL ES-500A

Net \$170.23

SERIES SP-5. Oscilloscope Test Probe Set. For TV signal tracing, alignment, trouble shooting and waveform analysis. For use with Precision ES-500 and ES-500A scopes. Set consists of shielded Master Cable and four different detachable probe heads. 1-High Impedance, Low Capacity, 2-Signal Tracing, Crystal Probe, 3-Resistive, Isolating Probe, 4-Shielded Direct Probe. Cables, instructions. In vinyl plastic case. **Net \$23.03**



PRECISION

OSCILLOSCOPES



5" general purpose scope. Push-pull vertical and horizontal drive, vertical 20 millivolts per inch sensitivity, horizontal 50 millivolts per inch sensitivity, 1 volt peak-to-peak regulated voltage calibrator. Vertical frequency response 20 cycles to 500 KC within 2 DB. Vertical square wave response from 20 cycles to 50 KC. Internal linear sweep 10 cycles to 30 KC. Built-in 60 cycle sine-wave phasing control. Beam modulation input terminal at front of panel. All four deflection plates directly accessible at rear. Removable, calibrated screen. Complete with all tubes including 5UP1 CR. Operates on 117 VAC. Size: 8¼x14x16½". Shpg. Wgt. 30 lbs.

MODEL ES-520. Net.....\$124.95



7" high sensitivity, wide band scope with response DC to 5 MC. Push-pull vertical and horizontal DC amplifiers. Narrow band vertical sensitivity 5 MV per inch, wide band 100 MV. Vertical frequency response: narrow band 3 DB or better at 500 KC, wide band 3 DB or better at 5 MC. Frequency-compensated, cathode follower, step-attenuator decade input on both V and H amplifiers. Built-in, press-to-calibrate, 1 volt peak-to-peak voltage source. V pattern reversal on both narrow and wide band. Horizontal sensitivity 100 MV per inch, 3 DB or better from DC to 1 MC. Beam modulation input terminal. All four deflection plates directly available at rear. Built-in 60 CPS phasing and blanking controls. Operates on 117 VAC. Complete with all tubes including 7VP1 CR tube. Size: 10½x14½x18½". Shpg. Wgt. 48 lbs.

MODEL ES-570. Net.....\$269.50

SYLVANIA

CALIBRATING STANDARD

Designed for use with any scope to quickly and accurately measure peak-to-peak voltages, voltage of waveforms, etc. May be used as a calibrated voltage source. Eliminates need for peak reading voltmeters. Output is a 60 cy. square-topped, calibrated and adjustable symmetrical wave. Output impedance, 100,000 ohms. Calibrated step attenuator multiplier .001/.01/.1/1/10. For 105/125 VAC 60 cy. Inst'd. Pearl grey cabinet, size 11½x5x4"D. Shpg. Wgt. 8 lbs.



MODEL 300

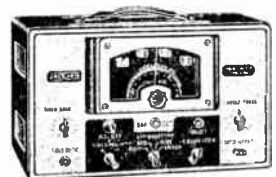
NET

\$44.50

A complete signal source for the adjustment and troubleshooting of all color circuits in color television receivers operating on the NTSC approved color system. All component generators and power supplies are built-in. No external signal sources are required. This means perfect adjustment even when no color testcasts are available. Crystal controlled 4.5 MC oscillator, crystal controlled color burst oscillator, no-drift synch signals, eight overlapping color bars, built-in white dot and cross hatch generator. Operates on channels 3-6. Complete with 21 tubes, cables, 4.5 and 3.58 MC crystals, and instructions. Operates on 105-125 VAC 50/60 cycles. Size: 16½x9½x10¼"D. Shpg. Wgt. 23 lbs.

MODEL 712. Net.....\$343.00

JACKSON



**COLOR BAR AND
WHITE DOT GENERATOR**

Hickok

**DYNAMIC MUTUAL CONDUCTANCE
TUBE TESTERS**

PORTABLE MODEL



The popular radio and TV technicians model tube tester tests all latest tubes on "Good-Bad" scale and also reads mutual conductance in micromhos. Tubes are tested under actual operating conditions. Has life test feature. Also checks for noise and gas. Easy-to-operate roll chart. Sturdy, portable carrying case finished in black leather with removable cover. Size: 16 3/4 x 18-3/8 x 7 1/2. For 105/125 VAC 60 cy. Shpg. Wgt. 33 lbs.

MODEL 533-AP NET \$185.80

NEW COMBINATION



MODEL 605-A. Same fine tube tester as Model 600-A but also includes handy multitester with the following scales, AC-DC volts 0-10/100/500/1000; DC sensitivity 20000 ohms per volt, AC 100 ohms per volt. Resistance: 0.1 ohm to 100 megohms (center scale 25, 2500, 500000 ohms). Inductance: to 70 henries. Capacitance: Microfarads: 50, 5, as low as .0001. Current: DC 10/100/500 MA. Also excellent for leakage test of electrolytics and checks for hum in any stage of receiver. Net weight 17 lbs. Dark red leatherette case with removable lid. Size 16 3/4 x 11 1/4 x 7 1/2". For operation on 110-130 VAC. Shpg. Wgt. 27 lbs.

MODEL 605-A COMBINATION \$189.50

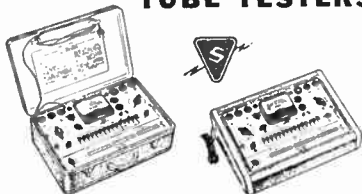
HICKOK MODEL CRT-1 ADAPTER

A cathode ray tube tester adapter which plugs into any late model Hickok tube tester and gives accurate readings of CRT condition. Applies separate voltages to each element of tube. In small handy case. Complete with cables. Shpg. Wgt. 2 lbs.

MODEL CRT-1 Net \$ 9.90

SYLVANIA

TUBE TESTERS



PROFESSIONAL TYPE



Highest accuracy professional laboratory type tube tester. Checks all types of tubes including "ruggedized" under actual operating conditions. Reads mutual conductance directly in micromhos. Line voltage and DC grid bias metered at all times. Has provision for insertion of plate MA for measuring Ip in conjunction with Gm. Choice of one of three AC signals, 0.25, 0.5 and 2.5 volts can be injected into control grid. This permits more accurate testing of high gain tubes. Separate rectified voltages applied to each element of tube. Sensitive Gas Content test. Noise test. Accurate life expectancy feature. Separate AC meter provides line voltage rating at all times. Permits perfect matching of tubes. Strong, portable carrying case, size, 16 3/4 x 18-3/8 x 7 1/2. For operation on 105/125 VAC 60 cy. Shpg. Wgt. 39 lbs.

MODEL 539A NET \$287.00

SMALL PORTABLE



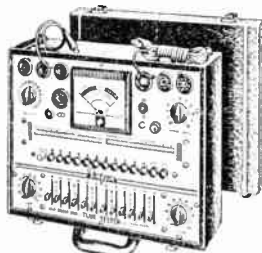
MODEL 600-A. New lighter weight portable using dynamic mutual conductance method of testing tubes. Excellent for portable handling. Scale readings in micromhos or "English" Good-Bad scale. Efficient Gas test. Tests tubes under simulated operating conditions. Tests all latest type tubes. Easy-to-operate roll chart. Case has removable hinged lid, case covered in attractive dark red leatherette. Net weight 15 lbs., size 16 3/4 x 11 1/4 x 7 1/2". Operates on 110-130 VAC 60 cy. Shpg. Wt. 25 lbs.

MODEL 600-A TUBE TESTER \$164.00

MODELS 219 (COUNTER) AND 220 (PORTABLE) TUBE TESTERS. Sylvania's new model tube tester for counter or portable will test any tube now on the market. Simplified operation and controls enable user to quickly and accurately test tubes. All elements are placed as under actual test conditions by means of "dynamic" tube testing method. New voltage control prevents tube damage. Switch numbers correspond to pin numbers. New ohmmeter type indicator for shorts and leakage, shorted tube reads "Replace". New double size power transformer. For operation on 105/125 VAC, 60 cy. Shpg. Wgt. 20 lbs.

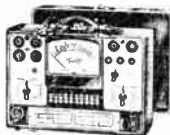
Either Model NET \$114.50

**SIMPSON
TUBE TESTER**



MODEL 1000 PLATE CONDUCTANCE TUBE TESTER featuring fast testing in convenient ohms readings for leakage and shorts. Tests any receiving tube by plate conductance readings on easy-to-read dial. Tests are made under conditions simulating actual working conditions of tube. Multi-position toggle switch for selecting proper voltages for plate, screen and bias. Each tube element individually connected to proper potential. New style roll chart. Luggage-style carrying case, 16 1/2 x 26". For 105-125 VAC 50/60 cycles. Net weight 15 lbs. Shpg. Wgt. 33 1/2 lbs.

MODEL 1000 NET \$132.30



MODEL 3413A
TUBE TESTER

MODEL 3413-A. Modern tube tester for all servicing uses. Tests all types of tubes including 9 pin, miniature hearing aid, pilot lights, etc. "Open" and "short" test for all elements on all tubes. 3-position lever switches for all tube connections. Illuminated roll chart. New easy-to-read 6" meter with "GOOD-BAD" scale showing tube values. Appliance continuity check. Metal case, size 15 1/2 x 11 x 7". Removable hinged lid. For 117 VAC 50/60 cycles. Shpg. Wgt. 20 lbs.

NET \$77.91

MODEL B. V. ADAPTER for testing TV picture tubes in Model 3413A Tube Tester. Net \$ 4.91



**SUPERIOR
INSTRUMENTS
POCKET SIZE**

CRT TUBE TESTER. Tests all magnetic-deflected tubes, in the set or out of the set. Will handle 7" to 30" types. Tests for quality by emission method on "Good-Bad" scale. Tests for inter-element shorts and leakages up to 5 megohms. Test for open elements. Self-contained built-in power supply, no other instrument needed. Operates from 110 VAC. Size 3 1/2 x 5 1/2 x 2 1/4". Shpg. Wgt. 3 lbs.

MODEL TV-40. Net.....\$ 15.53

TUBE AND SET TESTERS

TES

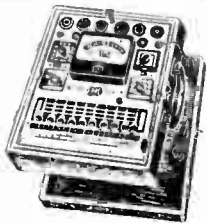
SUPERIOR INSTRUMENTS

TV-11



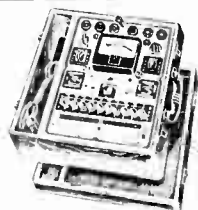
Checks every type of receiving tube now available. Uses the established emission method of testing for quality, will show shorts, leakages to 5 megohms. New self-cleaning lever action switches for individual element testing. Built-in roll chart provides complete data. New line control for variation between 105-130 VAC. Noise test: phono jack on front panel for plugging in either phones or external amplifier. May be used as Condenser Leakage Checker. Relaxation type oscillator in this model will detect leakage even when frequency is one per minute. Beautiful hand-rubbed oak cabinet with cover. Size: 11"x13"x6. Shpg. Wgt. 15 lbs.

MODEL TV-11 NET \$46.55



MODEL 205P. Accurate, dependable readings by means of emission method. Completely flexible switching arrangement by means of four position lever-type switches. Tests all tubes including Novals and new sub-miniatures. Individual sockets for all type bases. Tests all types from .75 to 117 volts. Shorts and leakage tests. Tests all cold cathode, magic eye, voltage regulator and ballast tubes. Line voltage control compensates for variations from 105-135 volts. Hand-rubbed oak carrying case. Easy-roll tube chart. Shpg. Wgt. 16 lbs.

MODEL 205P NET \$46.55



MODEL 206P. Mutual conductance tube tester. Affords ease of operation with completely flexible switching arrangement. Shows condition of tube on calibrated microhm and "reject-good" scale. Checks tubes for gas content. Detects shorts and open elements. Checks all tubes now current and provision for tubes of the future. Tests tubes for noise and RF. Instrument fuse on panel. Checks individual sections of multi-element tubes. Built-in roll chart for easy, quick tube-testing. Hand-rubbed oak carrying case. Shpg. Wgt. 18 lbs.

MODEL 206P NET \$81.83

PRECISION APPARATUS

CR-30

CATHODE RAY TUBE TESTER

PRECISION CR-30 CATHODE RAY TUBE TESTER which tests all TV picture tubes, magnetic and electrostatic, scope tubes and industrial types. TV picture tubes may be tested while installed in the set by means of connecting cables. Tests all elements by means of 14-lever element selection switch system. Internal voltage regulated bridge type VTVM. Micro-line voltage adjustment meter monitored at filament supply, assuring correct voltage at all times. Isolated power supply. 4-5" 8" full vision meter, high speed roller tube chart, hardwood portable case with removable cover. Tool and test cable compartment. Size: 17"x13"x6 1/2". For 105/125 VAC. Shpg. Wgt. 22 lbs.

MODEL CR-30 NET \$102.65

10-12P

MODEL 10-12P. Uses the "electronic" principle of tube checking which will accurately evaluate the overall merit of a tube. This system will find bad tubes which many other testers will pass as "okay". Free point lever element selection for all elements. Free point inter-leave short check. Separate test on multi-section tubes. Tests ballast tubes and pilot lamps. Line voltage adjustment. Fuse on panel. Tests radio A, B, and C batteries under load. Isolated power supply. 4-5/8" full vision 50 microhm meter. Portable hardwood case, size 13"x17"x9 1/2". For 105/125 VAC. Shpg. Wgt. 23 lbs.

MODEL 10-12P NET \$105.35

CHALLENGER



MODEL 715. CHALLENGER Dynamic Principle Tube Tester. Push buttons and rotary switches apply separate element voltages and load circuits to each tube. Proper test voltages protect tube under test. Shorts and high resistance leakage is shown on flashing neon bulb. Tests all types of tubes including new TV amplifiers and rectifiers. Provision for new tubes which may come out in the future. Simplified, built-in roll chart with one year free supplement service included. 4 inch accurate, easy-to-read meter has Good-Bad and Re-test-scale. All-steel grey cabinet, size 9"x13"x9 1/2". NET Wgt. 11 lbs. Shpg. Wgt. 17 lbs.

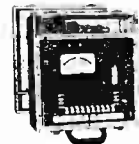
MODEL 715 NET \$77.91

MODEL 612P "Cathode Conductance" free point, lever operated tube and battery tester. Tests all types of tubes. Filament voltage .75 to 117 volts. Easy-to-read P.V. meter. Dual short check sensitivity. Separate tests on multi-section tubes. Provision for checking ballast tubes and pilot lamps. Micro-line adjustment. Noise and condenser test pin jacks. Tests all popular A, B, and C radio batteries. Easy-to-operate roll chart. Panel mounted tube. Hardwood portable case, size 12"x13"x6. For 105/125 VAC 60 cy. Shpg. Wgt. 19 lbs.



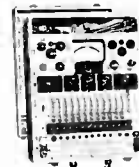
MODEL 612P NET \$77.91

MODEL 654P. Same cathode conductance tube tester as described in Model 612P with addition of 5 DCV ranges at 20,000 ohms P/V up to 6,000 volts, 5 AC and output voltage ranges up to 6,000 volts at 1,000 ohms P/V. 6 DC current ranges 0-130 microamp to 12 amps. Ohms, 0-60 meg. 5 DB ranges. "Safety" 6,000 volt pin jacks. 1% accuracy resistor 4-5/8" wide angle meter. Isolated power supply. Hardwood portable case, size 12"x13"x6. For 105/125 VAC. Shpg. Wgt. 20 lbs.



MODEL 654P NET \$107.55

MODEL 10-54P. Same tube checker as described in Model 10-12P but has in addition 6 DC voltage ranges at 20,000 ohms P/V up to 6,000 volts, 6 voltage ranges up to 6,000 volts at 1,000 ohms P/V, 6 output ranges, 7 DC current ranges, 60 microamps to 12 amps, 6 dB ranges and 4 resistance ranges to 60 meg. Uses 1% wire wound and metallized resistors. A complete portable laboratory. Hardwood portable case, size 13"x17"x6 1/2". Complete with batteries and high voltage test leads. For 105/125 VAC. Shpg. Wgt. 25 lb.



MODEL 10-54P NET \$136.71

PICTURE TUBE ADAPTER CABLE

Precision picture tube adapter. For following models: 10-12, 10-15, 10-20, 10-22, 10-54, 612, 614, 620, 654, 910, 912, 914, 915, 920, 922, and 954.

MODEL PTA. Net. \$ 6.61



648



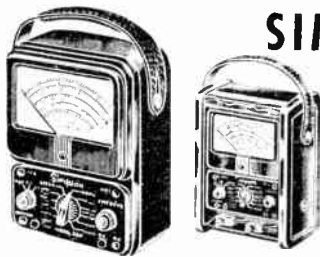
Incorporates Dynamic Tube Testing Method, applies voltage to each element of tube, insuring proper testing. Separate load circuits are also employed. Tests tubes under actual operating conditions. Positive short test. New style roller tube chart, triple indexed, 105/125 VAC. 50-60 Cye. operation. Shpg. Wgt. 18 lbs.

Model 648-B Bench Style \$102.41

Model 648-P Portable Style. Net \$ 87.33

Model 648-P. Portable style. Net \$107.31

SIMPSON



FAMOUS MODEL 260

MODEL 260. One of the finest high sensitivity multi-testers ever produced. Strong, molded bakelite sub-panel assembly. Pin jacks are recessed so no metal parts are exposed. All figures and symbols are molded into a heavy bakelite panel and filled with durable white for long wear and legibility. DC grid readings as low as 2 microamperes and up to 10 amps. Resistance readings up to 20 megs and as low as 1/5 ohm. 6 DC ranges at 20,000 ohms per volt: 2.5/10/50/250/1000/5000. AC voltage ranges: same as DC but at 1000 ohms per volt. Output: 2.5/10/50/250/1000. Milliamps DC: 10/100/500. Microamperes DC: 100. Amperes DC: 10. Decibels -12 to +55 DB. Ohms: 0-2000 (12 ohms center), 0-200,000 (1200 ohms center), 0-20 megohms (120,000 ohms center). Complete with test leads and operator's manual. Size: 5 1/2 x 3 1/8". Shpg. Wgt. 5 lbs.

262

269

MODEL 262. AC-DC Volt-Ohm-Milliammeter. 20,000 ohms per volt DC. 5000 ohms per volt AC. 7 inch dial - 7 inch case. 33 easy-to-read scales. Accuracy 3% DC, 5% AC of full scale reading. DCV: 0-1.0/8/40/160/400/1600/4000. ACV: 0-3/8/40/160/800. AF Output V: 0-3/8/40/160. DB: -8-11/-5-19/-14.5-33.5/-26.5-45.5. Ohms 0-500 (4.5 ohms center), 0-5000 (45 ohms center), 0-50,000 (450 ohms center), 0-500,000 ohms (4500 ohms center), 0-5 megs (45,000 ohms center), 0-50 megs (450,000 ohms center). DC Current: 0-1.6/16/160 MA, 0-1.6/16 amps. Sturdy portable case. Complete with leads, instructions. Net weight 4 lbs. Shpg. Wgt. 6 lbs. **Net \$ 58.31**

100,000 OHMS PER VOLT

MODEL 269. AC-DC Volt-Ohm-Microammeter. Ultra-sensitive instrument for high voltage measurements, TV receivers, laboratory research, other electronic work. 33 useful ranges, accuracy of 3% DC, 5% AC, full scale deflection. 7 inch dial features extra long scale. Ranges: DCV: 0-1.6/8/40/160/400/1600/4000. ACV: 0-3/8/40/160/800. AF Output Voltage: 0-3/8/40/160. DB: -8-11, -5-19, -14.5-33.5, -26.5-45.5. Ohms: 0-2000 (18 ohms center), 0-20,000 (180 ohms center), 0-200,000 (18,000 ohms center), 0-200 megs (1.8 megohm center). DC Current: 0-1.6/16/160 MA, 0-1.6/16 amps. Sturdy portable case. Complete with test leads. Net weight 4 lbs. Shpg. Wgt. 6 lbs. **Net \$ 86.24**

MODEL 5262. Carrying case for Models 262 and 269. Shpg. Wgt. 1 1/2 lbs. **Net \$ 9.75**

"Micro-Tester" Portable

Volt-Ohm-Milliammeters



MODEL 230



MODEL 379



MODEL 240

Model 230. Pocket size VOMA. AC & DC volts: 0-10/250/1000. DCMA: 0-10/50/250. Resistance: 0-1000/100,000. Complete with test leads and self-contained batteries. Shpg. Wgt. 4 lbs. **Net \$ 24.43**

Model 240. Pocket size AC & DC Volt-Ohm-Milliammeter. ACV: 0-15/150/750/3000. DCV: 0-15/75/300/750/3000. AC & DC volts 1000 ohms per volt. DCMA: 0-15/150/750. Resistance: 0-3000/300,000. Complete with leads and self-contained batteries. Shpg. Wgt. 4 lbs. **Net \$ 25.82**

MODEL 379 Battery Tester

Actually places the battery under a proper load during the test. 1% accuracy resistors. Tests all radio and hearing aid batteries. 10 ranges from 1 1/2 volts to 90 volts. **Net \$ 23.22**

NO. 4299 CARRYING CASE for Models 230, 240, 379. **Net \$ 5.39**

TRIPLET



Model 630 Model 630-A

Triplet's latest advancement in portable multi-meters. A beautiful streamlined instrument in a completely insulated, molded case providing AC-DC volts, DC microamps, milliamps, amperes, ohms, megohms, DB & output readings. Uses famous Red Dot Lifetime Guarantee 5 1/2" 0-50 microampere, 250 MV instrument. Selector switch is of exclusive Triplet design which keeps out dirt & retains contact alignment permanently. Uses precision film or wire wound resistors. Easy grip knob for switching ranges. Scale is 4 3/8" long at top arc. Connections are made by means of banana jacks. 6 DC voltage ranges at 30000 ohms PV: 0-3/12/60/300/1200/6000. 6 AC voltage ranges (same as DCV) at 5000 ohms PV. 6 DB ranges from -30 to +70. DC microamps: 0-60 at 250 MV. 3 DC milliamp ranges: 0-1.2/12/120 at 250 MV. DC amperes: 0-12 at 250 MV. 4 ohms scales: 0-1000 10,000 ohms, 0-1/100 megohms. 6 output ranges: same as ACV ranges. Weighs only 4 lbs, complete with batteries. Complete with leads, batteries & instructions.

MODEL 630 NET \$38.71

WITH MIRROR SCALE

Same instrument as above but has mirrored scale for easier reading & better accuracy. Accuracy of 1% on all DC ranges except 6000 volt range, accuracy on AC or DC 6000 volt range 3%. Accuracy of 2% on all AC ranges except 6000 volt range. Accuracy of 1% on all resistance scales when used with full battery. Complete with instructions and leads. Shpg. Wgt. 0 lbs.

MODEL 630-A NET \$ 48.11

Model 630 Black Leather Carrying Case for 630 Series instruments. Net \$ 8.33

WIDE RANGE MIRROR-SCALE

625-NA

Widest range tester of its type with brand new features - Long 5.6" mirror scale for better reading accuracy .33 ranges. DCV Ranges: 0-1.25/5/25/125/500/2500 at 20000 OPV. DCV RANGES: 0-2.5/10/50/250/1000/5000 at 10000 OPV. ACV Ranges: 0-2.5/10/50/250/1000/5000 at 10000 OPV. DC Microamps: 0-50. DCMA: 0-1/10/100/1000. DC Amperes: 0-10. Ohms: 0-2000/200000. Megohms: 0-40. DB: 7 ranges, -30 to +69. 6" Red Dot Lifetime guarantee meter. Insulated black molded case with removable strap handle. Size: 2 1/2 x 5 1/2 x 6". Complete with batteries and leads. Shpg. Wgt. 6 lbs.



MODEL 625-NA NET \$48.51

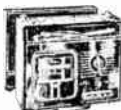
TRIPLET MODEL 629. Leather carrying case for 625-NA Tester. **Net \$ 6.37**

TRIPLET MODEL 79-T-70. High voltage test probe (30,000 VDC for use with models 630-630A-625NA). Probe is 11-3/4" long, with 48" hi-voltage wire lead with banana plug at tester end. **Net \$ 14.21**

ROTO-RANGER

AC-DC Volt-Ohm-Milliammeter with rotating dials

As selector switch is moved to the range desired, drum rotates and correct scale is brought into view. Voltage ranges: AC (1000 OPV), DC (20,000 OPV): 2.5, 10, 50, 250, 1000, 5000. DCMA: 100, 100, 500. DC Microamps: 100. DC Amps: 10. Output: 2.5, 10, 50, 250, 1000. Resistance: 0-2000/200,000/20 meg. Leatherette case with leads. Shpg. Wgt. 7 lbs.



MODEL 221

MODEL 221 NET \$73.50

High Voltage Probe to permit readings up to 30,000 volts DC on Model 221 Roto Ranger. **Net \$ 9.75**

HICKOK

VOLT OHM MILLIAMMETER



Pocket Size
HIGH SENSITIVITY

MODEL 450

New Model VOMA in extra thin compact unbreakable, insulated shockproof case. Large 5" lucite cased meter. 20,000 ohms per volt on DC; 5,000 ohms per volt on AC. Ranges: 2.5 10/50/250/1000/5000. Also measures output, DC current: 0-50 microamperes, 0-2.5/10/50/250/1000 MA., 0-10 amps. Ohms: 0-1000/10000 and 0-1/100 meg. DB: -30 to +55 in 5 ranges. Size: 8 1/4" x 5 1/2" x 2 1/4". Batteries, test leads, and instructions included. Shpg. Wgt. 5 lbs.

MODEL 450 NET \$46.50

SIMPSON

"Micro-Tester" Portables



MODEL 370 AC AMMETER. Self-contained current transformer, 60 cy. Ranges: 0-1/2/5/10/25. Net \$ 19.55

MODEL 371 AC VOLTMETER. Ranges: 0-150/300/600. Net \$ 18.03

MODEL 372 OHMMETER. Ranges: 0-300/5000/50000/5 meg/5 meg/50 meg. Self-contained batteries. Net \$ 24.99

MODEL 373 DC MILLIAMMETER. Ranges: 0-1/5 10 25 50/100 250/500/1000. Net \$ 19.55

MODEL 374 DC MICROAMMETER. Ranges: 0-50/100 250 500/1000. Net \$ 22.54

MODEL 375 DC AMMETER. Ranges: 0-1/2 5/10 25. Net \$ 19.55

MODEL 376 AC VOLTMETER. Rectifier type. Ranges: 0-5/10 25/50 100/250/500/1000. Net \$ 19.55

MODEL 377 DC VOLTMETER. 1000 OPV. Ranges 0-1/2 5/5/10/25/50/100/250/500/1000. Net \$ 19.55

MODEL 378 AC MILLIAMMETER. Self-contained current transformer. Ranges: 0-5/25/100/250/1000. Net \$ 22.15

MODEL 4299 CARRYING CASE. Net \$ 5.39

EMC ECONOMY LINE

102 POCKET METER



An exceptional buy in a handy, all around quality instrument with features found only in much higher priced instruments. 3" square meter, 1 MA D'Arsonval type meter, 2% accurate. Case is of molded bakelite, rounded corners, same zero adjustment is used for both resistance ranges. RANGES: ACV: 0-12 120 600 1200 3000. DCV: 0-6 60 300 600/3000. DC current ranges: 0-6/30 120 MA: 0-1.2 Amps. AC current ranges: 0-30/150/600 MA. Resistance: 0-1000/1 meg. Size: 3 1/4" x 2 1/4". Shpg. wgt. 2 lbs.

MODEL 102 (Less leads) \$14.60

103 VOLOMETER

An excellent value for all around use. Has 4 1/2" square meter, 1 MA D'Arsonval type, 2% accurate. Case is of molded bakelite, rounded corners. Same zero adjustment for both resistance ranges. RANGES ACV: 0-12/120/600, 1200/3000. DCV: 0-6/60/300/600/3000. DB RANGES: -4 to +64 DB in 5 ranges. DC current ranges: 0-6/30/120 MA: 0-1.2 Amp. AC current ranges: 0-30/150/600 MA. Resistance: 0-1000 ohms, 0-1 megohms. Size 3 1/4" x 2 1/4". Shpg. Wgt. 3 lbs.



MODEL 103 (Less leads) \$18.37

MODEL 103-S - Same as above but with plastic carrying strap. Net \$ 18.86

104 VOLOMETER

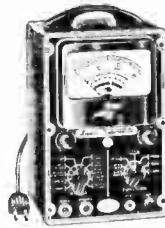
A fine instrument for use by engineers, laboratory men, teachers, servicemen, etc. Has 4 1/2" square meter, 50 microamp sensitivity. Case is of molded bakelite, rounded corners, with carrying strap. DCV RANGES: (20,000 OPV) 0-6/60/300/600/3000. DC current ranges: 0-6/60/600 MA. AC current ranges: 0-30/300 MA; 0-3 Amps. Resistance: 0/20K, 0/200K, 0/20 meg. DB ranges: -4 to +67 in 5 ranges. Size: 5 1/4" x 2 1/4". Shpg. Wgt. 3 lbs.



MODEL 104 (Less leads) \$26.41

SUPERIOR INSTRUMENTS

NEW SUPER METER



Combination volt-ohm-milliammeter all-purpose tester for use in shop or home. Built-in isolation transformer eliminates danger of shock. RANGES: DC Volts; 0-7.5-15-75-150-750-1500-7500. AC Volts; 0-15-30-150-300-1500-3000. Output Volts, same as AC volts. DC CURRENT: 0-1.5-15-150 MA, 0-1.5-15 amps. RESISTANCE: 0-1000-100,000 ohms, 0-10 megs. CAPACITY: .001 to 1 mfd, 1 to 50 mfd. (Quality test for electrolytics.) REACTANCE: 50 to 2500 ohms, 2500 ohms to 2.5 megohms. INDUCTANCE: .15 to 7 hy., 7 to 7000 hy. DECIBELS: -6 to -18, +14 to +38, +34 to +58. Good-Bad scale for checking electrolytics. Rugged steel case, size 6 1/4" x 9 1/4" x 1 1/2". Leads and instructions included. Shpg. Wgt. 6 lbs.

MODEL 670-A. Net.....\$ 27.83



UTILITY TESTER. Measures voltages, currents, resistance, leakage. Used for testing electrical appliances and motors, automotive circuits, tube continuity, etc. Measures actual current consumption of AC or DC appliances while in operation. Indicates resistance from zero ohms to 5 megohms. Measures actual voltage and indicates whether current is AC or DC. Size 3 1/4" x 5 1/2" x 1 1/2". Complete with test leads and full instructions. Shpg. Wgt. 4 lbs.

MODEL 70. Net.....\$ 15.53



VOLT-OHM-MILLIAMMETER

Compact, pocket-sized volt-ohm-milliammeter, size 3 1/4" x 5 1/2" x 1 1/2". Full View 2% accuracy 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 DB RANGES: -6 DB to +18 DB, +14 DB to +38 DB, +34 DB to +58 DB. Molded case. Complete with batteries, test leads, and instructions. Shpg. Wgt. 7 lbs.

MODEL 770A. Net.....\$ 15.53



TRIPOLET

POCKET TESTER

666-HH



Precision, pocket-size VOMA. Now has 3" meter, lifetime guaranteed. Positive action range change switch. AC & DC voltage ranges: 0-10/50/250/1000/5000 at 1000 ohms PV. DCVA: 0-10/100 500. Ohms: 0-2000/400000. In attractive bakelite case, 3 1/16" x 5 7/8" x 2 9/16". Complete with leads, clips & batteries. Shpg. Wt. 3 lbs. Model 666-III NET \$24.01

Model 669 Leather Carrying Case, Net \$ 5.39

666-R

A new instrument with Triplet's exclusive enclosed selector switch of molded construction which keeps dust out and retains contact alignment permanently. Small, size: 3 1/16" x 5 7/8" x 2 9/16". Easy to carry. Light in weight. (weighs only 1 1/2 lbs. with batteries). Uses 3" Red Dot Life-time Guarantee instrument. 0-200 microammeter, 250 MV, 6 ACV & DCV ranges at 1000 ohms PV: 0-10 30 250/1000/5000. DCMA: 0-10 100, at 250 MV. DC amps: 0-1, at 250 MV. Ohms: 0-3000/300,000 (20-2000 at center scale). Megohms: 0-3 (20,000 ohms center scale). Complete with 50' leads, batteries & instructions.

Model 666-R NET \$25.97

Model 669 Leather Carrying Case for 666-R, 666-III instruments. Net \$ 5.39



WV-77A
"JUNIOR"
VOLTOHMYST



High input resistance on all ranges, 11 megohms for DC, .02 to 2 megohms for AC. Flat frequency response from 30 CPS to 3 MC, 50 KC to 250 MC with WG-264 accessory probe (listed below at extra cost). Large durable 4" easy-to-read plastic meter case. 1% accuracy resistor. Completely shielded metal case. Free from line voltage fluctuations. Polarity reverse switch. Zero centering for TV-FM discriminator alignment. Cables have slip-on probes. Measures DC from 50 MV to 1200 volts. AC voltage from 100 MV to 1200 volts (RMS). Wide range ohmmeter, measures resistance from .2 ohms to one billion ohms. Convenient to carry, small size, 8HX5-3/8WX4"D. For 105/125 VAC. Complete with tubes, battery, probes and cables. Shpg. Wgt. 6 lbs.

MODEL WV-77A **NET \$47.50**



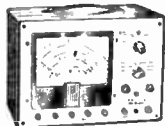
WV-97A
SENIOR
VOLTOHMYST



Frequency response flat from 30 CPS to 3 MC on all ranges up to 1400 volts peak-to-peak. Measures all complex waveform voltages in TV. 4" x 200 micrometer movement, electronically protected from damage by overload. Pointer may be zero-centered for discriminator and bias circuits. DCV Ranges: 0-1.5-5-50-150-500-1500. ACV Ranges: Peak-To-Peak, 0-4-14-42-140-420-1400-4200. RMS: 0-1.5-5-15-50-150-500-1500. OHM-METER: Seven Ranges; 0-1000 megohms, center scale values; 10, 100, 1000, 10,000 ohms, 0.1, 1, 10 megohms. TUBES: 2-6AL5, 1-12AU7. Operates from 105-125 VAC 50/60 CPS. SIZE: 7 1/2" x 5 1/2" x 4 1/2" D. Case finished in blue-grey hameroid, satin aluminum panel. Complete with WG-218 Direct Probe and Cable, WG-222 DC Direct Probe, Ohms lead and probe, ground lead with alligator clip, slip-on alligator clip, instruction book, and tubes. Shpg. Wgt. 7 lbs.

MODEL WV-97A. Net.....\$ 67.50

MASTER VOLTOHMYST



A larger deluxe version of the famous Model WV-97A. Features a new large meter measuring approximately 8-1/2"W. Has new current scales from microamperes to amperes. Direct measurement of peak-to-peak values of unsymmetrical complex waves from 0.2 volt to 2000 volts. Measures peak-to-peak values of symmetrical complex wave forms from 0.2 volt to 4200 volts. RMS values of sine waves from 0.1 volt to 1500 volts. DC voltages from 0.2 to 1500 volts. Resistance, 0.2 ohms to 1000 megohms. Current, 10 microamperes to 15 amperes, DC. An excellent instrument for signal tracing in TV receivers. Sturdy 200 microampere meter movement is accurate within 2%. Complete with direct probe and cable. DC probe, ohms probe, Negative current cable, ground cable. Size, 10" H., 13 1/2" W., 7" D. Finished in blue-grey hameroid, satin-aluminum panel. Operates on 105-125 VAC 50/60 cy. Shpg. Wgt. 10 lbs.

MODEL WV-87A **Net \$ 112.50**

PROBES



High voltage safety probes (up to 50 KV) for use with Volt Ohmyst and others. WG-290 has mike type connector, WG-290 has phone tip connectors. Both less multiplier resistor.

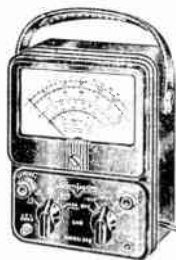
MODEL WG-289. Net.....\$ 7.15

MODEL WG-290.....\$ 7.15

MULTIPLIER RESISTORS FOR WG-289 - 290

Number	Resistance	Net
WG-206	1090 megohms.	\$ 2.80
WG-207	991	2.80
WG-208	400	2.80
WG-209	480	2.80
WG-210	900	2.80

MODEL WG-264. Crystal diode probe slips on Direct Probe of Volt Ohmyst and extends range to 250 MC. Net.....\$ 7.75
 MODEL WG-222. DC/Direct probe slips on WG-218. Measures DC or Resistance by throwing switch on probe. Net.....\$ 3.50
 MODEL WG-218. Shielded input cable with Direct Probe, mike type connector on other end. Net.....\$ 3.75
 WG-289 Probe and WG-206 Resistor increase range of Volt Ohmysts to 50,000 volts.



SIMPSON

MODEL 303

VACUUM TUBE

VOLT-OHMMETER

MODEL 303 VTVM. A companion instrument to the famous Model 260. Small compact (size, 5 1/2" x 3 1/8") bakelite case houses all necessary ranges for complete radio servicing and laboratory applications. DC VOLTAGE RANGES: 0-1.2-12-60-300-1200 (30,000 V. with HV Probe), input resistance 10 megohms for all ranges. Polarity reversing switch. OHMS: 1000/100,000/1 meg/10 meg/1000 meg. AC VOLTS: 1.2-12-60-300/1200. AF VOLTAGE: 1.2-12-60. DB, in 5 ranges from -20 to +63 DB. May be used as galvanometer for FM discriminator alignment. Measures HF voltage - 30 volts maximum - with accessory HF crystal probe, frequency, flat 20 KC to 100 MC. Complete with HCW probe, ACV Ohms probe, ground leads and instructions. Operates from 105/125 VAC. 60 cy. Shpg. Wgt. 6 1/2 lbs.

Model 303 **NET \$66.64**

MODEL 303-RT. Same as above but mounted in "Roll Top" case. Shpg. Wgt. 8 lbs. Net \$ 74.48

HIGH VOLTAGE PROBE. For reading voltage up to 30,000 or Model 303. Net \$ 9.75

HIGH FREQUENCY PROBE. For signal tracing up to 100 MC on Model 303. Net \$ 7.35



VTVM

KIT AND WIRED



MODEL 106. Vacuum tube voltmeter. Available in wired or kit form. Specially designed for field alignment of radio and TV. All functions and ranges completely electronic - meter cannot burn out. Uses dual-triode balanced bridge circuit. 5 AC-DC voltage ranges: 0-1 1/2/10/100/300/1000, (30,000 VDC with HVP accessory probe). 5 resistance ranges: 1K/10K/100K/10 meg. 1000 meg. 5 DB ranges: -24 to ±55. Zero center position for FM discriminator alignment. Uses 1% precision resistors for voltage multipliers. Portable bakelite case, size 4 1/2" x 3 1/2". Shpg. Wgt. 5 lbs.

MODEL 106K. Kit form. **\$23.42**

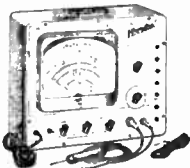
MODEL 106. Wired and tested. **35.18**

MODEL RFP. High frequency probe, useful to 200 MC. Net \$ 6.81

MODEL HVP. 30,000-volt probe for Model 106. Net \$ 8.57

HICKOK

Electronic Volt-Ohm-Capacity Milliammeter



An Electronic Volt-Ohm-Capacity-Inductance-Milliammeter. Large 9" meter with over 250' of usable scales. AC and DC voltage scales: 0-3-12-30-120-300/1200. This new model has provisions for peak-to-peak as well as RMS ranges. Includes zero center DC scale. DCV: 0-3-12-30/120-300-1200. Capacity: 0-10,000 pF in 2 ranges, 0-1000 pF in 5 ranges. Inductance: 50 mh-100 hys. Resistance: 1/10 ohm to 10,000 megohms in 8 ranges. AC frequency up to 300 MC. Complete with high frequency probe. Size: 14x16"x8". Shpg. Wgt. 25 lbs.

MODEL 209-A **Net \$ 132.50**

MODEL PR30KV H.V. Probe **11.90**



Hickok
MODEL 215 VTVM

A small compact electronic VTVM with large 5" easy-to-read dial. DC voltage ranges of 0-1.5-3-12-30-120/300/1200. AC voltage ranges in both peak-to-peak or RMS in 7 ranges for quick and accurate measurement of sine or complex wave shapes. AC frequency response flat from 40 cy. to 3.5 MC. Zero center DC scale for discriminator alignment. Ohms of x1; x10; x100; x1K; x10K; x100K; x1 meg. Lowest ohms scale actually usable down to less than 2/10 ohm. Input impedance: on DC 10 meg; on AC 30 meg with 150 mmf. For 110/130 VAC 60 cy. Size: 5 1/2" x 8 1/2" x 4" D. Shpg. Wgt. 8 lbs.

MODEL 215 **Net \$ 67.50**

MODEL PR30KV H.V. Probe **11.90**

VACUUM TUBE VOLTMETERS

TEST

JACKSON



**NEW JACKSON "TELE-VOLTER".
SUPER VACUUM TUBE VOLT-OHM-METER**

Portable or bench style VTVM designed to measure AC volts, DC volts, resistance. 7" sloping front meter with carefully damped hairline pointer. Uses only one probe for all scales and all frequencies, built-in switch on probe changes probe from DC to AC or ohms. Reads directly all AC voltages, in RMS, peak, and peak-to-peak values. 1 volt scale plus calibrated zero center makes it easy to read those less-than-one-volt measurements. Wide frequency response, essentially flat to 4.5 MC thru 0-100 scales. DC scales: 0-1-5-10-50-100-500-1000. AC RMS scales: 0-1-5-10-100-500-1000. Resistance: 0-1000-10,000-100,000 ohms, 0-1-10-100-1000 megohms. Identif-Lites, two lighted windows show position of function switch and range. Grey hammertone cabinet, size 8" x 8" x 7". Operates on 105-125 VAC 50/60 cycle. Complete with probe, clip, and ground lead. Net weight 10 lbs. Shpg. Wgt. 14 lbs.

MODEL 709 "TELEVOLTER". Net \$93.10

**20% DEPOSIT REQUIRED ON
C.O.D. ORDERS**

SYLVANIA

POLYMER TYPE 221-Z



MODEL 221Z. Extremely sensitive multi-purpose vacuum tube voltmeter for use in all TV, FM, and AM servicing in wide range measurements of voltage, resistance and current. Accurate RF voltage measurements up to 300 MC in 5 ranges, 3/10/30/100/300 volts. DC voltage measurements up to 1,000 volts with plus or minus polarity on 6 scale ranges. (Measures 10,000 or 30,000 volts with accessory probes listed below). Measures AC voltage in 6 ranges up to 1,000 volts, DC current up to 10 amps in 7 ranges, and resistance up to one billion ohms. Has large zero center 4" illuminated meter. Mike type panel connectors on test leads. RF probe has ground clip and detachable extension tip. Grey metal cabinet with handle, size 11 1/2" x 8 3/4" x 7 D. For 105/125 VAC, fuse protected. Complete with RF probe and test leads. Shpg. Wgt. 17 lbs.

MODEL 221Z NET \$99.50

TYPE 225 PROBE. Extends range of 221Z to 30,000 volts DC. Net \$ 12.50

TYPE 223 PROBE. Extends range of 221Z to 10,000 volts DC. Net \$ 9.95

NEW

**SIMPSON
VTVM**



Incredibly accurate vacuum tube voltmeter with large, easy-to-read 7" meter. Adjust-A-View handle permits instant bench level viewing angle. Has zero center adjustment for discriminator alignment. DC voltage range: 0-1-6-8-40-160-1000-1600, 10 megs input impedance, 1 meg isolation in probe. AC voltage range: 0-3-8-40-160-800, 60 cycle input impedance 260,000 ohms, input capacitance 200 mmfd. AC peak-to-peak probe 20 volts maximum. Frequency range flat 20 KC to 100 MC. Input capacity 4 mmfd. Decibels: -12 to +45 in four ranges. Resistance: 0-1000-10,000-100,000 ohms, 0-1-10-1000 megs. Operates on 105-125 VAC. Size: 7 1/2" x 6 x 2 1/8". Complete with DCV probe, ACV ohms probe, ground lead, and instruction manual. Shpg. Wgt. 7 lbs.

MODEL 307. Net.....\$ 35.75

MODEL 5262. Neolite carrying case for Model 307. Net.....\$ 9.75



TRIPOLET

VOM VTVM

Combination VTVM and VOM. Two fundamental units built into one case. 34 RANGES: VOM, AC, and DC voltage ranges; 0-3-12-60-300-1200, DC at 20,000 ohms per volt, AC at 5,000 ohms per volt. DC Microamps: 0-60 at 250 MV. DC Milliampers: 0-1-2-12 at 250 MV. DC Amperes: 0-1-2-12 at 250 MV. DB: -30, +4; +16, +30, +44; +55. Resistance: 0-1500-15,000 ohms, 0-1-5-150 megohms. VTVM, DC voltage: 0-1-2-6-30-120, galvanometer center mark "-0+" for discriminator alignment. One switch selects any function of either VTVM or VOM. Self-contained batteries for both VTVM and VOM. 5 1/2" Red Dot Lifetime Guarantee Meter. Sturdy, molded case, size 3 1/2" x 5 1/2" x 7 1/2". Complete with leads and probe. Shpg. Wgt. 6 lbs.

MODEL 631. Net.....\$ 59.31

NO. 639. Leather Carrying Case for the Model 631. Net.....\$ 8.33

NO. T-79-70. 30,000 VDC Probe for the Model 631. Net.....\$ 14.21

TRIPOLET

TELEPHONE SERVICE INSTRUMENT



PRECISION APPARATUS

VACUUM TUBE VOLTMETERS MODEL EV-20

MODEL EV-20. VTVM and multi-range test set with true zero center on all ranges. Direct reading high frequency scales. Also has complete standard 1000 ohms P/V functions. Has 48 ranges, 6 zero center VTVM ranges, 13 1/3 megs constant input resistance, 3/12/30/120/300/1200. 6 resistance ranges from 0-2000 ohms to 2000 megohms. 4 high frequency VTVM ranges, 0-120V (Uses RF-10A Probe). 6 AC-DC and output ranges at 1000 ohms P/V, 0-3/1200V. 8 DC current ranges, 0-300 microamps to 0-12 amp. 6 DB ranges from minus 20 to plus 63 DB. 4 1/2" meter. Complete with test probe, leads, and battery. Black ripple finished cabinet, size 10 1/2" x 6 1/2" x 5. Shpg. Wgt. 11 lbs.

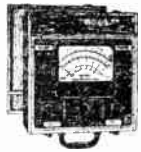


MODEL EV-20 NET \$68.35

RF-10A RF PROBE for use with EV-10A and EV-20 VTVM's. Net \$ 14.11

EV-10A VTVM

MODEL EV-10A. Megohm-meter with zero center VTVM. 7" meter. 4 high frequency scales plus 1000 ohms P/V functions. 8 VTVM ranges to 6000V DC. HF ranges to 120V (Requires RF-10A Probe) 6 resistance ranges to 2000 megohms. 8 AC-DC and output voltage ranges to 6000V at 1000 ohms P/V. 8 DC current ranges to 12 amps. 8 DB ranges from minus 20 to plus 77 DB. Complete with cables. Hardwood portable case, size 10 1/2" x 12 x 6. Shpg. Wgt. 18 lbs.



MODEL EV-10A P NET \$100.45

TV-4 PROBE. Increases DC VTVM ranges of Models EV-10A and EV-20 to read up to 60,000V DC. Shpg. Wt. 2 lbs. Net \$ 14.45

TELEPHONE SERVICE INSTRUMENT. Tailored especially for the requirements of telephone service. Special ranges and meter characteristics for checking oscillator activity in low AC ranges of carrier equipment, high and low pass filters, relay coils, resistors, shorts, batteries, ringing supply generators, etc. 20 RANGES: DC Volts 0-0.3-3-12-60-300-600 at 20,000 ohms per volt. AC Volts 0-3-12-60-300-600 at 3000 ohms per volt. DC Milliampers 0-06-1-2-12-120 at 150 MV. Ohms 0-1,000-10,000-100,000 (22-220-2200 at center scale). Megohms 0-1-10 (22,000-220,000 at center scale). 5 1/2" Red Dot meter with Lifetime Guarantee. One switch, recessed with panel, selects any range. Black, molded case, size 7 1/2" x 5 1/2" x 3 1/2", complete with strap handles and removable shoulder strap. Black molded panel with engraved white markings. Weighs only 4 lbs. Complete with batteries, 50" test leads and alligator clips. Shpg. Wgt. 6 lbs.

MODEL 630-T. Net.....\$ 51.45

LEATHER CARRYING CASE for Model 630-T. MODEL 639. Net.....\$ 8.33

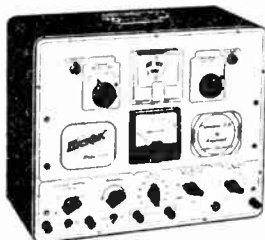
"Your trade-in's worth more at the WALTER ASHE STORE" 139

ALL ELECTRONIC SWEEP-ALIGNMENT GENERATOR



New

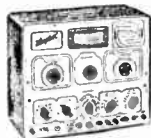
Video Generator FOR COLOR



Triple-shielded to reduce leakage. Aligns all VIF channels (2-13) on fundamentals. High 3 volts output. Permits signal attenuation from 3 to 300,000 microvolts. FM range, 0-50 MC, 1F heterodyned output. Low band fundamental output 50-90 MC. High band 170-220 MC. Sweep deviation 0-15 MC \pm 3 MC. Sinusoidal horizontal sweep output voltage for scope 1.5 volts AC RMS. Output impedance at terminal of output cable 90 ohms. Operates on 117 VAC. Steel case, size 13 $\frac{1}{2}$ "x8 $\frac{1}{2}$ "x16 $\frac{1}{2}$ "W. Shpg. Wgt. 38 lbs.

MODEL 695. Net..... \$ 265.00

Universal Television Alignment



SIGNAL GENERATOR MODEL 610A

An unequalled instrument for aligning television receivers. Affords visual alignment of any TV channel from 59 to 216 MC. Not necessary for station to be on air. Attenuates the output to very low signal. Crystal frequency may be modulated or unmodulated. Has marker signals of 19-31 MC & 30-48 MC. Marker modulation: 400 cy. AM at 50%. Output voltage: .75 volts max. Output impedance: X1, X10, X100-5 ohms. X1k-20 ohms. X10K-75 ohms. Hus standby switch to keep filaments lit, ready for immediate use. Sweep width to 15 MC. Sweep frequency ranges: 0-40 MC, 35-75 MC, 75-115 MC and 150-230 MC. Attractively cased in blue hammertone with satin chrome finished panel. Size: 14"x16 $\frac{1}{2}$ "x8". For 105/125 VAC 50/60 cy. operation. Shpg. Wgt. 32 lbs.

MODEL 610A **NET \$219.00**

NO. 75 ADAPTER. Termination pad for Model 610A. Net \$ 8.50

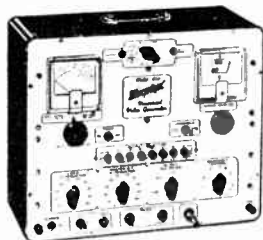
Crystal Controlled Microvolt



SIGNAL GENERATOR MODEL 292X

A universal, all-band MV signal generator with higher accuracy and low loss. Covers frequency range of 125 KC to 110 MC and 150 MC to 220 MC all on fundamentals. Has modulated and unmodulated output. \pm 2 to 100,000 VV. Temperature compensated. 1000 KC crystal oscillator. .05 accuracy. AP output 0-2V at 400 cy. or 400 cy. modulated on RF carrier. 3 output impedances. Calibrated 8" dial with over 100" of scale. DB ranges -10 to +38. Attractive blue hammertex case, size 16 $\frac{1}{2}$ "x13 $\frac{1}{2}$ "x7". All test leads included. For 105/125 VAC 60 cy. Shpg. Wgt. 36 lbs.

MODEL 292X **NET \$296.00**



Compatible for color or black and white TV. Quickly localizes and accurately identifies trouble in any section of a TV receiver. Xtal-controlled timer circuit delivers video pulses of 60-90-15750 cycles and 315 KC singularity or in combination, positive and negative output. Pulses are locked together and are crystal-controlled. RF oscillator covers channels 2-13 on fundamentals. AC meter on panel to check line fluctuations. Easy to adjust color sets by means of white dots. Provides means for accurate adjustments of focus, convergence, purity yoke, dynamic convergence, linearity and aspect ratio. RF can be externally modulated with video frequencies from 5 cycles to 4 MC with variable percentage modulation on all channels. Steel portable case, size 13 $\frac{1}{2}$ "x16 $\frac{1}{2}$ "x7"D. Test leads included. Operates on 105-125 VAC. Shpg. Wgt. 37 lbs.

MODEL 650C. Net..... \$ 318.90

Universal Crystal Controlled



SIGNAL GENERATOR MODEL 288X

MODEL 288-X. High output AM-FM Generator crystal controlled. Usable in TV alignment as a marker oscillator. RF unmodulated or internally amplitude modulated at 400 cycles, or internally frequency modulated. RF variable from 110 KC. to 110 MC on AM, all fundamental, and 110 KC to 160 MC on FM, in 7 bands. Variable AP output, 0-15,000 cycles. Outputs continuously variable with multiplier and linear controls. DB meter: -10 to \pm 38 in 3 ranges. For 117 VAC. Test leads included. Blue finish steel case, size 13 $\frac{1}{2}$ "x16 $\frac{1}{2}$ "x7"D. Net 25 lbs. Shpg. Wgt. 36 lbs.

MODEL 288X **NET \$195.00**



JACKSON AUDIO OSCILLATOR

MODEL 655. Deluxe audio frequency oscillator operates on a new basic principle, resistance capacity tuned. Continuously variable from 20-300,000 cy. in 4 bands. 20-200, 200-2000, 2000-20,000, 20,000-200,000. Accuracy .35 or 1 cy. 33" of easily read scales. 5 output impedances, 10V/250/500/5000 ohms and resistive, controlled by selector switch. Output power 500 milliwatts. Wave-form, less than 5% harmonic distortion at all frequencies between 30-15,000 cy. Hum level down more than 60 DB of maximum power output. Grey steel case with handles. Size: 13 $\frac{1}{2}$ "x9 $\frac{1}{2}$ "x5 $\frac{1}{8}$ ". 117 VAC operation. Shpg. Wgt. 33 lbs.

NET \$132.30

SUPERIOR

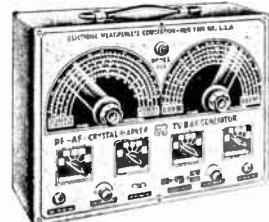
TELEVISION BAR GENERATOR



New Television Bar Generator puts an actual bar pattern on any TV receiver screen when station is not on air. Only 2 simple steps, connect generator to antenna post of receiver and plug in line cord. Provides linear pattern to adjust vertical linearity, height, and centering; horizontal drive, width, peaking, linearity and centering. Internal vertical and horizontal sweep signals. Provides signal for testing video amplifiers. Channels 2-5 (7-13 by harmonics). Complete with leads and operating instructions. For operation on 105/125 VAC Shpg. Wgt. 12 lbs.

TV BAR GENERATOR **NET \$39.15**

EMC SIGNAL GENERATOR



Five-purpose instrument containing generators for RF, Audio, Square Wave, Bar, Crystal Marker. Frequency range in 5 bands, 18 cycles-108 MC on fundamentals, to 216 MC on 2nd harmonic. Bar generator for TV adjustment of horizontal and vertical alignment. Crystal marker and amplitude control. Constant RF output impedance. Stepped RF attenuator. AF oscillator sine wave output from 18 cycles to 300 KC. Variable percentage of modulation. Excellent all-around shop instrument. Operates on 117 VAC. Shpg. Wgt. 20 lbs.

MODEL 700. Net..... \$ 54.78

RMS TV BAR GENERATOR



MODEL BAR-1. Portable bar generator for use where test patterns are not obtainable. Permits accurate linearity adjustments without test pattern and without need for station to be on the air. Provides adjustable number of bars across the screen. Produces both vertical or horizontal bars for easier alignment. Size: 6 $\frac{1}{2}$ "x4 $\frac{1}{2}$ "x2 $\frac{1}{2}$ ". For operation on 117 VAC. Shpg. Wgt. 3 lbs.

Net \$ 14.64

SIGNAL GENERATORS FOR TV-FM-AM TES

PRECISION APPARATUS

MULTI-BAND SIGNAL AND MARKER GENERATOR



MODEL E-200C. Signal and marker generator for TV, FM, and AM alignment. Frequency coverage: Direct reading in 8 bands from 83 KC to 240 MC. Fundamentals to 30 MC. Exceptional stability and accuracy on all bands. 6½" engine-turned tuning dial. 1000 point vernier scale. 400 cycle audio oscillator-modulator. Dual RF attenuators. Lo-Hi coaxial output cable connectors. Four types of signals: Unmodulated RF, 400 cy. Modul. RF Externally modulated RF, 400 cycle audio output. Direct reading AVC AGC substitution voltage, 0-50 volts DC. Direct reading variable modulation, 0-100% continuously adjustable. Well shielded portable steel case, size, 10½x12x6". Complete with tubes, output cable, and manual. For 117 VAC. Shpg. Wgt. 17 lbs.

MODEL E-200C NET \$76.93

WIDE RANGE SWEEP SIGNAL GENERATOR



This newest development from Precision is a narrow & wide band sweep signal generator for all FM & TV requirements. Frequency range: 2-500 MC, continuous direct reading. 2-250 MC via direct fundamental electronic beat. No coil switching required. Prep. Range: FM-TV band width, narrow & wide band for FM & TV, variable & continuous direct reading, 0-1000 KC, 0-10 MC. Additional coverage: in zero band width (unmod.) 2-500 MC direct reading via electronic beat. 40-125 MC absolute VFO. Uses high frequency TV-Video test probe. Phasing control is continuously variable for use with scope. Separate output terminal provides synchronized sweep. Completely shielded, eliminating strays. Complete with leads and instructions. For 110 VAC operation. Shpg. Wgt. 19 lbs.

MODEL E-400 NET \$136.95

SIMPSON

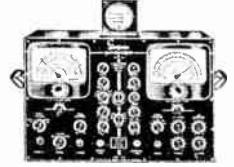
CROSS HATCH GENERATOR



MODEL 485. New synchronized cross-hatch pattern generator. Provides a synchronized signal, modulated on carrier frequencies of channels 2, 3, 4, 5, and 6 which can be tuned and sent through receiver on test. When receiver is properly adjusted, signal will show equally spaced lines in vertical, horizontal, or cross-hatch patterns on picture tube. All patterns are locked in place with sync pulses in transmitted wave forms. Horizontal and vertical linearity, hold, height, width, and drive adjustments may be made when no signal is available from station. Handsome grey case, size 11" x 8" x 9¼". Complete with all cables and operating instructions. For 105-125 VAC operation. Shpg. Wgt. 15 lbs.

MODEL 485 NET \$144.55

FM-TV GENESCOPE FOR COLOR TV



Modern servicing instrument for TV-FM-AM, certain tests in color TV. Supplies all necessary signal sources for proper alignment. Incorporates high sensitivity scope and high frequency crystal probe for signal tracing. CR tube mounted vertically and viewed by mirror. Marker generator frequencies: Fundamental and 2nd harmonic, Band A; 3.3-15.6 MC, Band B; 15-76 MC, Band C; 75-250 MC. Unmodulated or amplitude modulated 30% at 400 cycles. 400 cycle audio signal. Output attenuated by two controls. FM generator frequencies: Band A; 2-120 MC, Band B; 140-260 MC, (dial marked for harmonic use for UHF). Sweep width continuously variable, 0-15 MC. Sweep rate 60 cycles. Scope sensitivity: (480 only) Vertical, 35 MVPI; Horizontal, 70 MVPI. Sweeps: Linear, 3-60 cycles; Sine Wave, 60 cycles; Resonance, flat to 200 KC. Complete with scope cables, impedance matching output cable, HF crystal probe and cable, operator's manual and UHF instructions. Operates on 117 VAC. Size: 22x14x7½". Shpg. Wgt. 35 lbs.

MODEL 480 GENESCOPE, Net.....\$ 465.50

TV-FM SIGNAL GENERATOR



Same instrument as Model 480 but does not include oscilloscope. Size: 17x14x7½". Shpg. Wgt. 29 lbs.

MODEL 479, Net.....\$ 318.50



Sweep and Marker Generator

MODEL TVG-2



MODEL TVG-2. New TV signal generator for all service and alignment purposes. 3 range sweep oscillator 2-38 MC, 38-108 MC, 174-216 MC, all on fundamentals. Large accurately calibrated dial with TV channels clearly indicated. Electrical/mechanical sweep adjustable from .1 MC through 18 MC in 7 steps. Calibrated marker coverage 4 MC through 215 MC showing TV I. P. s. Crystal oscillator for marker or calibrator, 4 MC through 20 MC. Variable output. Audible or metered 400 cy. modulation. 60 cy. sine wave timing with phase control for oscilloscope timing. Provision for insertion of video signal to modulate external marker output. Output impedance 30 ohms. Complete with cables. Steel grey Ham-R-Tex cabinet, size 13x8x19-1/8". For 105/125 VAC. Shpg. Wgt. 28 lbs.

MODEL TVG-2 NET \$240.10



CHROMATIC AMPLIFIER

Increases the number of tests on color receivers when using Models 479-480 for servicing, such as testing I and Q demodulator circuits, and the Y amplifier. Provides video signal boost of over 40 times. Flat within 1 DB from 8 KC to 4.5 MC. May also be used with low gain scopes to service all low gain video circuits in color TV circuits. Complete with instruction book.

MODEL 406, Net.....\$ 24.45

CHROMATIC PROBE

All color TV tests frequencies are available from Models 479-480 when used with the Chromatic Probe. Replaces standard output cable supplied with Models 479-480. Sweep signal extends from 8 KC to 4.5 MC. Complete with instruction book.

CHROMATIC PROBE, Net.....\$ 9.75

"Your trade-in's worth more at the **WALTER ASHE STORE**" (141)

**SPRAGUE TO-4
TEL-OHMIKE**



CAPACITOR-RESISTOR-ANALYZER. For use in radio, TV service, by schools, labs, experimenters, etc. Has push buttons for instant range selection. Resistance bridge measures from 2.5 ohms to 25 megohms at line frequency. Capacitance bridge measures up to 2000 mfd in five overlapping ranges. Leakage current of electrolytics measures directly on meter with exact rate of voltage up to 600. Continuously adjustable power supply. Magic eye tube simplifies bridge balancing for capacitance, resistance, and power factor measurements. Capacitors discharge on release of push button. Power factor of electrolytics measured by Wien bridge up to 55% in three ranges. Modern case finished in two-tone grey. Size: 8 1/2 x 14 1/2 x 6". Operates on 117 VAC 50/60 cycle. Shpg. Wgt. 17 lbs.
MODEL TO-4. Net.....\$ 72.03



KWIK-TEST

CAPACITOR CHECKER

Quickly and easily indicates open, shorted, or intermittent capacitors without removing them from the circuit. Checks all types of capacitors, paper, mica, electrolytic, and ceramic from 30 mmfd to 2000 mfd. Will indicate defect even though capacitor under test has resistor as low as 50 ohms in parallel. Push a button and magic eye shows condition of capacitor. Complete with test leads. Operates on 117 VAC 50/60 cycle. Size: 9 x 6 x 5 1/2". Grey wrinkle finish steel case. Tubes: 1-1626, 1-1629. Shpg. Wgt. 8 lbs.
MODEL KT-1. Net.....\$ 33.81

POMONA



Check cathode ray and picture tubes for shorted, relative emission, glow heater, and filament continuity. Saves buying a 14-tube tester. Easy and quick to use. May be carried in tool compartment of present tube tester. Simply plug into appropriate socket of tube tester.

- MODEL CR-1. For use with Jackson 613.
 - MODEL CR-5. For use with Jackson 115-715.
 - MODEL CR-7. For use with Sylvania 139-140-219-220 Series.
- Any above types, Net Each \$ 9.75

CORNELL-DUBILIER

CAPACITOR TEST INSTRUMENTS

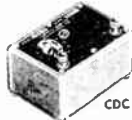


CAPACITOR-RESISTOR BRIDGE

Capacitor-Resistor Bridge which quickly and accurately measures important characteristics of all types of capacitors and resistors. Detects capacitor defects such as OPENS, SHORTS, INTERMITTENTS. Checks capacities from .00001 mfd to 1000 mfd in 4 scale ranges (.00001-.005, .001-.5, .1-50.0, 20.0-1000 mfd). Checks power factor of electrolytics. Checks leakage. Resistance scale ranges 2: 100 ohms to 50,000, 10,000 ohms to 5 megohms. Self-contained power supply. Uses Magic Eye for visual indication. Enamel finish metal case, size 5 1/2 x 7 1/2 x 10 1/2". Operates from 110-125 VAC 50/60 cycle. Shpg. Wgt. 13 lbs.
MODEL BF-60. Net.....\$ 41.99



MODEL BN



CDC

CAPACITOR BRIDGE

Model BN measures paper, mica & electrolytic condensers from .00001 to 50 mfd. by Wien bridge circuit. Measures power factor. Direct scale readings & magic eye indication. Extremely compact size. Complete with tubes. 110 VAC operation. Shpg. Wgt. 4 1/2 lbs.

MODEL BN. Net.....\$ 24.45

CAPACITOR DECADES

May be used in groups of three decades or used individually for maximum flexibility. Each decade is furnished with calibration chart. Accuracy of CDB-3 and CDC-3 is 3%, others 5%. Model CDA-5 is mica dielectric, others are oil-paper dielectric. Rated voltage, 60p 100, 200 AC.

Model	Capacity	Net
CDA-5	.011 mfd in .0001 mfd steps	11.12
CDB-5	1.1 mfd in .01 mfd steps	11.12
CDB-3	1.1 mfd in .01 mfd steps	13.23
CDC-5	10.0 mfd in 1.0 mfd steps	19.55
CDC-3	10.0 mfd in 1.0 mfd steps	21.56

INDUSTRIAL DEVICES

NINE-VOLT VOLTMETER

NINE-VOLT voltmeter is compact, rugged, dependable. Easy to transport and inherently accurate to indicate a 2 or 3 volt drop in 110 V AC line. Will indicate voltage AC or DC 65 to 500 volts. Also indicates 11 source 15 AC or DC. Widely used by radio, refrigeration, electricians, experimenters, etc. Glow lamp life, 25000 hrs. Complete with heavily insulated 12" test leads, lightweight, impact resistant case and dual panel, thoroughly insulated. Shpg. Wgt. 3 lbs.
Net \$ 2.49



MODEL 400-B

**Simpson
CAPACITY
BRIDGE**



MODEL 381 CAPACITY BRIDGE. A small, compact, wide range instrument with 3 ranges of capacity, 20 mmfd to 5,000 mmfd, .005 mfd to 2 mfd, 1 mfd to 500 mfd. Easy to use as there are no multiplying factors or confusing calculations to make, merely set switch to desired range, adjust the bridge arm and read meter for maximum deflection. Ideal instrument for radio and TV servicing, engineers and industry. Size: 3-5/8 x 5-1/2 x 2-3/8". Housed in bakelite case with etched aluminum panel, weight only 15 lbs., operates on 115 VAC, 50/60 cy. Shpg. Wgt. 3 lbs.
MODEL 381. Net.....\$ 27.93

**PRECISION
ELECTRONICS**



SIGNAL TRACERS

With this new model signal can be followed from antenna through speaker or radio or amplifier. Small size probe will not disturb oscillator circuits. Operates from 20 cy. to over 300 KC. 3 stage wide range audio input panel. Jack provided for output readings on AC meter. Isolated AC line to hum. 50/60 cy. 110/120 VAC operation. Gunmetal hammerhead finished case. Shpg. Wgt. 10 lbs.

MODEL 201A. Net.....\$ 39.50

WITH METER

Has all features of above tracer and, in addition, gives visual indication as well as audible. Multiplier range switch of 1, 10 & 100. Case is gun-metal hammerhead finish. 50/60 cy. 110/120 VAC operation. Shpg. Wgt. 15 lbs.

MODEL 251A. Net.....\$ 57.00



LOAD-CHEK

APPLIANCE TESTER

MODEL 660. New appliance tester which will give simultaneous reading of line voltage and power. Simply plug TV set or appliance (up to 1000 watts) into meter. Excellent for TV servicing. Has large easy-to-read meter. Has high and low (0-1000, 0-500) AC-DC voltage scales, AC or DC voltage scale 0-130. Black molded case, size 5 1/2 x 2 1/2. Leather handle. Shpg. Wgt. 4 lbs.

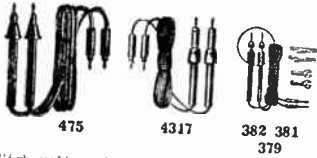


MODEL 660 NET \$28.91

TEST LEADS - TEST INSTRUMENTS

TES

TEST LEADS



High voltage heavy duty test leads which safely test up to 10,000 volts for use on TV, high voltage amplifiers, transmitters, etc. Low voltage drop. Large diameter bakelite handles with guards. Heavy duty red and black cable. 6" prod on one end of 48" lead, 2" prod on other end.

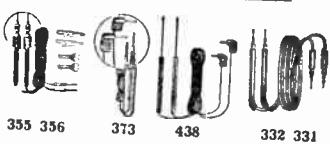
NO. 475 Net \$ 3.28

High voltage heavy duty test leads for measuring up to 15,000 volts DC. Thick walled bakelite handles with finger guards, 6" probes, 48" leads.

NO. 4317 Net \$ 2.94

Slim handles with phono needle points, extra flexible rubber-covered kinkless wire. Insulated for 5,000 volts. 4" Tenite probes with 48" red and black leads.

NO. 382 - With phone tips Net \$.71
NO. 381 - With spade terminals. .71
NO. 379 - With alligator clips. .71



Slim handles with solderless plugs, 48" extra flexible test leads with 4" handles. Insulated for 5,000 volts. Wire is non-kinking.

NO. 355 - With phone tips. Net \$.71
NO. 356 - With spade terminals. .71

Pencil-type test leads with finger-grip molded tips. All connections are soldered. Rivets provide easy removal of wire. Handles are 5" long, leads 48" long.

NO. 373 Net \$ 1.32

Slim-line test leads with long vinyl insulated shaft. Red and black Tenite handles, 48" leads. Molded phone tip plug on other end.

NO. 438 Net \$ 1.03

Unbreakable test prods with shock-proof rubber handles. One end has standard needle point tips, 48" leads.

NO. 332 - With non-insulated phone tips. Net \$.73
NO. 331 - With insulated solderless plug. Net \$.82

ICA PHONO. NEEDLE POINT TEST PRODS



Phono needle point test prods only. Removable chuck. Supplied in black or red Tenite, 5" and 7" long.

NO. 389A Red, 5" Long Net \$.26
NO. 389B Black, 5" Long .26

SOLDERLESS PLUG TEST PRODS



Solderless plug test prods with solderless plug chuck. Slim Tenite handles in black or red.

NO. 390A Red, 5 1/4" Long Net \$.26
NO. 390B Black, 5 1/4" Long .26



SIMPSON FIELD STRENGTH METER

MODEL 488 measures TV signals in all locations, and is particularly useful in fringe areas where the 50 microvolt scale is of prime importance to measure low signal strength. The additional ranges of 500, 5000, and 50,000 microvolts extend the instruments usefulness in higher signal strength areas. 4 1/2" easy-to-read meter. Shoulder strap included. Meter is excellent for orienting antennas, adjustment of boosters, antenna comparison, etc. Size: 8x11x8 1/2". For 105/125 VAC. Shpg. Wgt. 15 lbs.

MODEL 488 Net \$ 112.70



Industrial Instruments

WHEATSTONE BRIDGE

For laboratory, school and industrial use. Has ratio dial settings of .001-.01-.1-1-10-100-1000 as well as built-in resistance standards of 1-10-100-1000 ohm decades. Accuracy: ratios, .05%, resistors 1/10 of 1%. Self-cleaning switches. Moving coil galvanometer, sensitivity 1 microamp per MM. Binding posts for connections. Case is of hardwood with removable cover. Complete with instructions. Shpg. Wgt. 12 lbs.

MODEL RN-1. Net.....\$ 135.24



SIMPSON APPLIANCE TESTERS



390 Volt-Amp-Wattmeter 391 392

MODEL 390 For 50/60 cy. AC current, Volts AC, 0-150, 0-300, Amperes 0-3, 0-15. Watts, 0-300/600/1500/3000. Complete with break-in plug, leads and instruction book. Shpg. Wgt. 5 lbs.

NO. 4299 Carrying Case. Net \$ 38.71 Net \$ 5.39

A.C.-D.C. Volt Wattmeters

MODELS 391 and 392 designed for the simultaneous reading of volts and watts. Ranges of both models, AC Volts: 0-130, 0-280. Model 391 wattage scales 0-1500 and 0-3000, Model 392 wattage scales 0-1000 and 0-5000 watts. Shpg. Wgt. 5 lbs.

MODEL 391 Net \$ 29.40
MODEL 392 34.30

NO. 3413 Carrying Case. Net \$ 5.39

JFD TEST LEADS

WITH BANANA PLUGS



NO. 3-9. 5" long heavy-duty, high luster cast phenolic prod handles. Have phono-needles on large prods, banana plugs on small prods, 54" leads, black and red.

Net \$ 1.23

NO. 3-12. 5" long prods similar to above but have senior solderless phone plugs on large prods, banana plugs on small (meter) prods, 54" leads, black and red.

Net \$ 1.23

JAMES MILLEN



GRID DIP METER

One of the most versatile instruments ever developed. A highly stable, calibrated RF oscillator unit with a 2" meter to read grid current. Frequency-determining coil is plugged into unit so that it may be used as a probe. Operates on 115 VAC 50/60 cy. or may be used with batteries. 270° calibrated drum dial provides 7 direct reading scales plus an additional universal overlapping ranges. Each range has individual plug-in probe. For extended range, see coils below. Size: 7x-3 1/2x3 3/8".

- 4-in-1 instrument:
1. Grid Dip Oscillator
 2. Oscillating Detector
 3. Signal Generator
 4. Indicating Absorption Wavemeter
- Many applications of this grid dip meter.
1. Aligning receiver tuned circuits.
 2. Determining frequency of transmitter tuned circuits with power off.
 3. Transmitter neutralization.
 4. Finding of parasitic oscillations.
 5. Pretuning wave traps.
 6. Indication of circuit Q.
 7. Measurement of self-resonant frequency of RF chokes.
 8. Measurement of inductance and capacity.
 9. Measurement of antenna resonant frequency.
 10. Adjustment of tuned feeders.
 11. Tuning beam antennas, etc.

Complete with 7 inductors, rock, tube, and instructions. Shpg. wgt. 3 1/2 lbs.

MODEL 90651. NET.....\$61.50

ADDITIONAL COILS FOR ABOVE

Number	Freq. Range	Net
46702	925-2000 KC	\$6.72
46703	500-1050 KC	6.72
46704	325-600 KC	6.72
46705	220-350 KC	6.72



DIP METER



Highly sensitive, accurately calibrated. Has enumerable uses in the laboratory, service shop, and ham shack. Incorporates many features. Can be used as a grid dip oscillator, signal generator, or absorption wave meter. May also be used to make measurements of capacity, inductance, circuit "Q", and as a means of determining other factors in electrical circuits. Complete instruction book enclosed with instrument. Self-contained power supply operates from 110 volts AC. Covers 1.75 to 260 MC in five calibrated overlapping bands. 500 microamp meter with adjustable control. Wedge-shaped for ease of getting into tight places. Uses 955 acorn-type tube. Size: 3x3x7". Finished in hammered grey. Weight 2 lbs. Shpg. Wgt. 3 lbs.

MODEL 600. Net.....\$ 39.75

"Your trade-in's worth more at the WALTER ASHE STORE" (143)

BARKER & WILLIAMSON



MODEL 300

FREQUENCY METER

MODEL 300. An accurate and convenient means of making direct measurements of unknown audio frequencies up to 30,000 cy. Integral power supply. Useful for checking of audio oscillators or tone generators. Housed in black crackle, steel cabinet. Carrying handle. **FREQUENCY RANGE:** 0-30,000 cy. in 6 ranges. **SENSITIVITY:** Minimum .25 volts input. **WAVE FORM:** Will operate on any wave form with peak ratios of less than 8 to 1. **CALIBRATION:** When referenced against 60 cy. line frequency, all other frequencies will fall within 5%. **SIZE:** 13 $\frac{1}{2}$ "x7 $\frac{1}{2}$ "x9 $\frac{1}{2}$ ". For 110 VAC 50/60 cy. operation. Shpg. Wgt. 16 lbs.

MODEL 300 NET \$126.00

LINEAR DETECTOR



MODEL 404

Model 404 provides combined RF detection and audio bridging circuit for use with any distortion meter. Measures distortion or noise in AM carriers or in balanced or unbalanced audio circuits. Operating range 400 KC to 30 MC. Input: single-ended; impedance 10,000 ohms. Bridging impedance: 6,000 ohms; insertion loss 1 DB. Frequency essentially flat from 20-50,000 CPS. Includes a bridging transformer, vacuum tube rectifier, and 40 DB pad adjustable in 10 DB steps. **SIZE:** 8 $\frac{1}{2}$ "x7 $\frac{1}{2}$ "x5. Shpg. Wgt. 8 lbs.

MODEL 404 NET \$85.00



MODEL 400

DISTORTION METER

Model 400 is a sensitive instrument having a wide range of applications in the audio frequency measurements field. Ideal for measuring low level audio voltage and determining noise and harmonic content of same. Variable frequency selective filter provides a single frequency suppression circuit for the frequency range of 30 to 15,000 cy. Small size, light weight, and outstanding performance make this instrument an ideal unit for either laboratory or field work. Panel is of 1/16" reverse etched aluminum. **FREQUENCY RANGE:** (a) Distortion meter, for fundamentals from 30 to 15,000 cy., measuring harmonics to 45,000 cy. (b) As a voltmeter and DB meter from 30 to 45,000 cy. **SENSITIVITY:** (a) Noise and distortion measurements, minimum input .3 Volts. (b) Voltmeter, full scale readings of .3, .1, .03, .01, and .003 volts. **CALIBRATION:** For distortion measurements: ± 5 DB. For voltage measurements: $\pm 5\%$ of full scale at 1000 cy. **SIZE:** 13 $\frac{1}{2}$ "x7 $\frac{1}{2}$ "x9 $\frac{1}{2}$ ". For 110 VAC, 50/60 cy. operation. Shpg. Wgt. 16 lbs.

MODEL 400 NET \$168.00

SINE WAVE CLIPPER



MODEL 250

MODEL 250 does the work of a square wave generator costing many times more. Provides a clipped sine wave for examining transients and frequency response of audio circuits. Designed to be driven by audio oscillator. Includes input terminals, output level control, and function selector switch. Speeds circuit analysis.

MODEL 250 NET \$10.00



MODEL 200

AUDIO OSCILLATOR

MODEL 200. Ideal for use in distortion and frequency measurements. Calibrated frequencies between 30 and 30,000 cy. No zero reset or line calibration is required. Self-contained power supply. Housed in black crackle, steel cabinet, carrying handle. **VOLTAGE OUTPUT:** 10 volt into a 500 ohm load. **WAVE FORM:** RMS harmonics at 3 volts on 500 ohm load less than 1% on all frequencies between 50 and 15,000 cy. **FREQUENCY RESPONSE:** Better than ± 1 DB from 30-15,000 cy. with 500 ohm load. **STABILITY:** Better than 1%. **CALIBRATION:** $\pm 3\%$ of scale reading. **SIZE:** 13 $\frac{1}{2}$ "x7 $\frac{1}{2}$ "x9 $\frac{1}{2}$ ". For 110 VAC 50/60 cy. operation. Shpg. Wgt. 16 lbs.

MODEL 200 NET \$138.00

PRECISION

SINE-SQUARE WAVE SIGNAL GENERATOR



Audio-video, sine-square wave signal generator. Continuously variable sine and square wave ranges 20-200 CPS, 200-2000 CPS, 2000-20,000 CPS, 20 KC to 200 KC sine wave only. Output: 2000 ohms, 0-20 volts max., flat within 1 DB. Distortion: less than 1%, 20 CPS through 200 KC. Accuracy: 1% or 1 cycle. Four fixed high frequency square wave steps: 50 KC, 100 KC, 250 KC, 500 KC. Direct-reading dial and panel of heavy gauge etched anodized aluminum. Operates on 117 VAC. **SIZE:** 10 $\frac{1}{2}$ "x12 $\frac{1}{2}$ ". Complete with tubes, coaxial output cable, and operating manual. Shpg. Wgt. 20 lbs.

MODEL E-300, Net.....\$ 171.00

NEW V-O-M

High Sensitivity Multi-Range Test Set



High sensitivity multi-range test set with 44 ranges, 20,000 ohms per volt DC, 5,000 ohms per volt AC, 8 AC and DC voltage ranges: 0-1.2-3-12-60-300-600-1200-6000. 8 AC output ranges same as AC volts, 7 DC current ranges: 0-50-300 microamperes, 0-1.2-12-120-600 mA, 0-12 amperes. 5 resistance ranges: 0-200-2000-20,000 ohms, 0-2-20 megohms. 8 DB ranges: -20 to +77. Extra large 5 $\frac{1}{4}$ " rugged meter, 40 microamperes sensitivity, 2% accuracy. Positive contact jacks and plugs. Complete with batteries, test leads, operating manual. **SIZE:** 5 $\frac{1}{2}$ "x3 $\frac{1}{2}$ ". Shpg. Wgt. 5 lbs.

MODEL 120, Net.....\$ 39.15



AUDIO SIGNAL GENERATOR



Audio signal generator with built-in DC blocking capacitors in probe. Variable audio signal and separate 60 cycle signal, variable in amplitude available on front panel. Four frequency ranges: 11-110 CPS, 110-1100 CPS, 1.1-11 KC, 11-100 KC. Continuously tunable. Separate high and low output terminals. Voltage regulated oscillator power supply. Frequency stability $\pm 3\%$ or better. Used for checking frequency response, intermodulation distortion, etc. Operates on 117 VAC. **SIZE:** 7x10 $\frac{1}{2}$ "x6". Complete with tubes, output cable, instruction book. Blue-gray hammered case with satin-aluminum panel. Shpg. Wgt. 12 lbs.

MODEL WA-44A, Net.....\$ 87.50

SUPERIOR SIGNAL GENERATOR



MODEL 660-A. Provides complete coverage for AM-FM-TV alignment. Generates radio frequencies from 100 KC to 60 MC on fundamentals and from 60 MC to 220 MC on powerful harmonics. RF available separately or modulated by the internal audio oscillator. Built-in 400 cycle sine wave audio oscillator. AF oscillator circuit has over one volt output. 5 step ladder type attenuator. Complete with coaxial cable test lead, instructions. **SIZE:** 6x6 x9". Shpg. Wgt. 14 lbs. **Net \$ 42.00**

SERVICE - ALIGNMENT TOOLS

Too

GENERAL CEMENT ALIGNMENT TOOLS



AND WRENCHES

G-C DUPLEX ALIGNMENT SCREW DRIVER

Low inductance metal tip on both ends. One end is $\frac{1}{8}$ " and other end is $\frac{7}{32}$ ". Insulated.

No. 5001 Net \$.50

G-C "STRATO" TUNING WAND

Brass cylinder on one end and iron core on other end. By inserting iron core end you increase the inductance and inserting brass end lowers inductance.

No. 5002 Net \$.65

G-C RCA ALIGNING TOOL

Made of $\frac{1}{8}$ " bone fibre, narrow screw driver on one end and screw nib inserted on other end.

No. 5003 Net \$.50

G-C NO-METAL INSULATING ADJUSTMENT SCREW DRIVER

Made of black bone fibre. Ends can be reground. 7" long.

No. 5004 Net \$.26

G-C INSULATED HEX WRENCH & DRIVER

Combination hex wrench & insulated screw driver. The screwdriver may be extended 7-13".

No. 5005 Net \$.50

G-C NON-EXTENSION TYPE WRENCH & DRIVER

Same as above except screw driver is permanently attached in wrench. Length not adjustable. Overall length 6".

No. 5007 Net \$.26

G-C ALLIGATOR & WRENCH ALIGNING TOOL

Made of $\frac{7}{32}$ " bone fibre with alligator on one end and $\frac{1}{4}$ " metal hex wrench on other end.

No. 5012 Net \$.32

AMPHEND

Neutralizing tool for UHF alignment. Large and has metal tip for TV adjustment. No hand capacity.

No. 55 Net \$.15

G-C NE-O-LITE TESTER

Handy, inexpensive tester that every radioman should have for testing AC lines, polarity of AC or DC, testing for blown fuses, tracing ground line in AC, as an RP indicator spark plug tester, and 101 other uses. Can be used on 60 VAC to 500 VAC or DC.

No. 5100 Net \$.33



G-C WRENCH & SCREW DRIVER ALIGNER TOOL

Made of $\frac{7}{32}$ " bone fibre with $\frac{1}{8}$ " hex wrench on one end and screw driver with metal nib on other end.

No. 5013 Net \$.56

G-C NO. 5014 ALIGNMENT TOOL

Made of bone fibre, combination tool. Consists of screw driver with metal nib. $\frac{1}{4}$ " hex wrench slotted and $\frac{5}{16}$ " hex wrench on other end.

No. 5014 Net \$.59

G-C NO. 5015 ALIGNMENT TOOL

Bone fibre, combination tool. Consists of screw driver with metal nib. $\frac{5}{16}$ " hex wrench, $\frac{1}{4}$ " hex wrench slotted, with metal screw driver on one end.

No. 5015 Net \$.97

G-C NO. 5016 ALIGNMENT TOOL

Bone fibre combination tool. Consists of screw driver with metal nib, $\frac{5}{16}$ " hex wrench, $\frac{1}{4}$ " hex side wrench and $\frac{1}{4}$ " hex end wrench slotted.

No. 5016 Net \$.97

G-C DUPLEX INSULATED WRENCH ALIGNMENT TOOL

Made of bone fibre with $\frac{1}{8}$ " hex metal wrench on one end and $\frac{5}{16}$ " hex metal wrench on other end.

No. 5017 Net \$.82

INSULATED ALIGNING WRENCHES

Made of bone fibre tubing, hexed full length inside, so end of wrench can be cut off when worn out.

No. 5053 6" Net \$.22
No. 5054 3" .24

G-C ALIGNMENT SCREW DRIVER

Low inductance metal tip screw driver. Completely insulated. $\frac{1}{8}$ " dia., 6" long.

No. 5000 Net \$.26

NEW ZENITH NYLON HEX WRENCH

Nylon hex wrench alignment tool. Hex on both ends, one end undercut for iron core tuners to reach bottom slug in coils.

No. 8606 Net \$.32

INSPECTION LIFE

Operates on 110 volts AC or DC. Fine for servicing radios or refrigerators in the hard-to-get places.

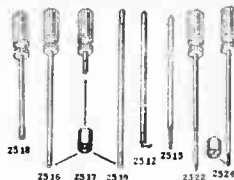
No. 705 Net \$ 1.32

G-C SLUG SAVER-ADJUSTING TOOL

For Standard and other tuners. Prevents slug from falling out and getting lost.

No. 9087. Net \$.59

WALSCO ALIGNMENT TOOLS



TV OSCILLATOR ALIGNMENT TOOLS

Cat. No. Net
2518 For Philco Receivers \$ 1.03
2522 For Receivers, "Standard Coil" Front Ends .63

WALSCO TV I.F. ALIGNMENT SCREW DRIVER

Standard tools for all TV and FM sets. Made of new flexible low-loss plastic with thin precision screwdriver tips. Made with thin ($\frac{7}{32}$ ") polystyrene handle, 7" long. Special tool on one end for dressing wires and finding loose connections or shorts. Other end has low capacity screw driver tip.

Cat. No. Net

2512 Wire Dressing & Alignment Tool \$.36

WALSCO "K-TRAN" ALIGNMENT TOOL

2516 - $\frac{3}{8}$ " long, for #6 Studs \$.63
2517 - 3" long, for #6 Studs .42
2519 - 7" long, 1 end for #6 Studs; other end for #4 Studs. .62
2524 - $\frac{3}{8}$ " long. Slotted type, for #6 Studs .63

WIRE DRESSING & ALIGNMENT TOOL

For adjustment of all miniature (K-Tran) I.F. transformers. Made of tough bone fibre. One end is machined to fit "K-Tran" slot; other end is equipped with low capacity metal screw driver tip.

Cat. No. Net

2515 "K-Tran" Alignment Tool \$.48

SERVICE TWEEZERS

No. 572 - Small precision tweezer with narrow pointed ends especially suitable for delicate work. $\frac{3}{8}$ " long. Shpg. Wgt. 3 oz. Net \$.35



No. 570 - Self-closing tweezer with crossover action. $\frac{3}{8}$ " long, serrated blunt points. Shpg. Wgt. 3 oz. Net \$.62



No. 571 - Heavy duty tweezer with slide-lock features. $\frac{3}{8}$ " long, serrated blunt points. Shpg. Wgt. 3 oz. Net \$.76

NO. 575 TWEezer KIT

No. 575 - Made of durable leatherette. Contains one each of the above listed tweezers. Net \$ 2.69

INSPECTION MIRROR



Inspection mirror to see in the chassis and inspect coils, parts, and connections. Long handle. Shpg. Wgt. 4 oz. No. 3690 Net \$.32

"Your trade-in's worth more at the **WALTER ASHE STORE**" (145)

Too PUNCHES - NUT & SCREW DRIVERS



GREENLEE

PUNCHES

TYPE 730 cuts smooth round holes in metal, bakelite or hard rubber up to 1/8" thick. Operates simply with ordinary wrench. Shpg. Wgt. 1 lb.

Size	Net	Size	Net
1/2"	\$ 2.16	1-1/4"	\$ 2.47
5/8"	2.16	1-3/8"	2.83
3/4"	2.16	1-1/2"	3.19
7/8"	2.16	1-5/8"	3.69
1"	2.34	1-3/4"	4.18
1-1/16"	2.47	1-7/8"	5.22
1-1/8"	2.47	2"	5.62
1-5/32"	2.47	2-1/4"	6.12
1-3/16"	2.47		

REPLACEMENT SCREWS

1/2" thru 1-1/2" (Specify) Net Each \$.27
 1-5/8"-1-3/4" (Specify) .36
 1-7/8", 2", 2-1/4" (Specify) .49

TYPE 732 quickly and easily cuts holes for keyed radio sockets. Ordinary wrench supplies drive power. Drive screw fits 1/2" hole.

SIZE	NET	SIZE	NET
15/16"	\$ 3.73	1-17/64"	\$ 4.27
1-11/64"	4.00	1-21/64"	4.50

TYPE 733 "b" punch simplifies and speeds the work of making 1/2" D-shaped openings. Used for tube sockets, etc. Drive screw fits 3/8" hole. Net \$ 3.51

SQUARE

Full or partial cuts made easily in metal. 4 cutting edges. Operates by simply screwing down with ordinary wrench. Shpg. Wgt. 1 lb.

NUMBER	NET
731-5/8"	\$ 3.33
731-3/4"	3.87
731-1"	4.56

AMPHENOL



PUNCHES

For cutting holes for Amphenol sockets. Keyed.

NO. LD1	1-11/64" hole	Net \$ 7.06
NO. LD2	1-21/64" hole	7.06



CIRCLE CUTTERS

Adjustable

A heavy duty tool for hand or electric drill. Cuts holes 1" to 5 1/2" in steel and other hard materials.

NO. 5A	Square Shank	Net \$ 1.95
NO. 5B	5/16" Round Shank	1.95
NO. 5C	1/2" Round Shank	1.95
	Extra Blades	.53

ECONOMY STYLE

NO. 4	Cuts holes 7/8" to 4" dia.	\$ 1.43
	Extra cutting blades for above.	.53

WALSCO

KEY WRENCHES

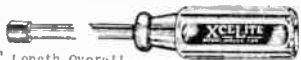


NO. 8600F. Ass't. of 4 small-size hex wrenches for No. 4 to 1/4" set screws and cap screws No. 2 to 8. Net \$.32

NO. 781. Ass't. of 3 medium-size hex wrenches for 1/4" to 7/16" screws and cap screws No. 8 to 5/16". Net \$.32

NO. 8602F. Ass't. of 4 small-size spline (Bristle) wrenches for set screws to 1/4" and cap screws to No. 8. Net \$.32

PLASTIC HANDLE NUT DRIVERS



6" Length Overall			
No.	Nut Size	Net	Nut Size
6	3/16"	\$.57	11 11/32" \$.57
7	7/32"	.57	12 3/8" .57
8	1/4"	.57	14 7/16" .75
9	9/32"	.57	16 1/2" .75
10	5/16"	.57	

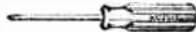
STUBBY NUT DRIVERS



Made in 1/4", 5/16" and 3/8" sizes, with extra deep sockets to handle two nuts at once. Overall 3/4". Shaft 1 1/4" long. Shpg. Wgt. 8 oz.

Number	Nut Size	Net
S-8	1/4"	\$.48
S-10	5/16"	.48
S-12	3/8"	.48

PHILLIPS SCREWDRIVERS



Number	Blade Size	Net
P-12	2x1/8"	\$.30
X-108	5"	.69
X-101	3"	.63
X-102	4"	.81
X-103	6"	1.08
X-104	8" H. D.	1.35

STUBBY SCREWDRIVERS

POLISHED BLADES



Number	Blade Size	Net
S-3161	3/16x1	\$.39
S-141	1/4x1	.45

ADJUSTABLE WRENCHES



Drop forged from chrome alloy steel for rugged dependability. Thinner to get at the hard-to-reach places. Better gripping because the movable jaw has a wide bearing. Hole in handle permits hanging on work bench. Chrome plated. Shpg. Wgt. 1/2 lb.

NO. 44	4" Adjustable Wrench	Net \$ 1.54
NO. 46	6" Adjustable Wrench	1.58
NO. 48	8" Adjustable Wrench	1.80

HEXAGON AND BRISTO KEY WRENCHES



Essential key wrenches for every repair man. Both hex and Bristo types made of special alloy steel properly hardened. Used on knobs, dials, motors, pulleys, etc.

NO. 5629. Kit of 5 Hex Key Wrenches for No. 4 to 1/4" set screws and No. 2 to 8 cap screws in leatherette case. Net \$.50

NO. 5670. Kit of 6 Bristo Key Spline Wrenches for No. 4 to 1/4" set screws and No. 2 to 8 cap screws in leatherette case. Net \$.50

XCELITE

SUPER DELUX Nut Driver Set

Handles are designed to fit the hand. Made of rugged plastic with high dielectric properties. Color coding makes selection of sizes easy. Double depth sockets, double heat treated, full polished blades. Metal container can be fastened to wall or work bench.



NO. 127 Net \$ 4.71

MULTI-PURPOSE SET

Contains 9 detachable nut driver blades, 3/16" to 1/2" size, 3/16"-9/32" screw driver blade, Phillips reversible screw driver, and strong Xcelite handle for holding all tools. Leatherette roll type case. Shpg. Wgt. 1 1/4 lbs.

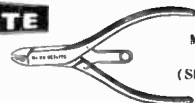
NO. 99-PR Net \$ 7.17

SCREWDRIVERS



Number	Blade Size	Net	Number	Blade Size	Net
R-181	1/8x2	\$.18	R-3163	3/16x3	\$.45
R-183	1/8x3	.24	R-3164	3/16x4	.48
R-184	1/8x4	.33	R-3166	3/16x6	.57
R-186	1/8x6	.36	R-3168	3/16x8	.60
R-188	1/8x8	.42	R-3160	3/16x10	.69
R-5323	5/32x3	.39	R-144	1/4x4	.66
R-5324	5/32x4	.39	R-146	1/4x6	.63
R-5325	5/32x5	.39	R-148	1/4x8	.69
R-5328	5/32x8	.48			

XCELITE



MIDGET SNIP

(SHEAR-ACTION)

NO. 49. Electronic midget snip, (shear-action). For those hard-to-get-at places in radio and TV chassis. Scissors type blades are sharp and durable. Net \$ 2.33



LONG NOSE CUTTER END

NO. 58. Radio-TV plier. Long nose, and has cutter close to end of long nose. For use where standard diagonal plier is too large to enter. 6 1/2" long. Net \$ 2.78



REAMERS

NO. 120 tapered reamer for enlarging holes in sheet metal or other material. Made of quality steel. "T" handle, 5 1/2" overall, 3/4" taper, 1/8" shank, 1/8" point. Net \$.94

NO. 130 tapered reamer with removable "T" handle for use in electric drill chucks. Hardened carbon steel. Point 1/8", shank 9/16", overall 7". Net \$ 1.20

146 NEED NEW TEST EQUIPMENT? - We'll Trade In Your Old Units!

SMALL TOOLS - KRAEUTER PLIERS **Too**



TOOLS

CBS-Hytron Test Adapters facilitate testing for measuring voltage, resistance, gain, etc. No need to turn chassis upside down. Simply remove tube, insert adapter, replace tube in adapter. All contacts of tube are now accessible for testing circuits.



NUMBER	FOR	NET
SH-27	7-Pin Miniature	\$ 1.45
SH-28	8-Pin Octal	2.25
SH-29	9-Pin Miniature	1.75

HYTRON TUBE LIFTER



lifts any type of tube out of its socket. **SH-21** Net \$ 15

HYTRON PROBING TWEEZERS



No. SH-24 Made of rich, tough polystyrene. Safe to use. Excellent for probing for shorts, intermittents, opens, etc. Net \$.35



NEW SH-23 HYTRON TUBE PULLER. Pull or insert 7-pin miniature tubes the easy way. Adjusts automatically to varying tube diameters. Tube Puller works by suction and friction on top of tube. Net \$.75

HYTRON SOLDERING AID



Soldering made easy...fast! No more battling with bulky long-nose pliers to unsolder those nicely wrapped, "mechanically solid" joints. No more patching leads snipped short. Hytron Soldering Aid makes job a cinch. **No. SH-25** Net \$.49



HYTRON SOLDER DISPENSER

Your thumb on control wheel feeds solder as you need it. Retracts easily when job is done. Handy pocket clip. Complete with 20 lengths of .050" solder.

No. SH-32. Net.....\$.98
No. SH-34. Tube of 80 refills.....\$.49

7.9 PIN TUBE STRAIGHTENER

Combination 7 and 9 pin straightener for miniature tubes. Works safely and quickly, avoid broken tubes.

No. SH-79 TWIN STRAIGHTENER. Net \$ 1.06

AMO MINIATURE TUBE PULLER

Designed to prevent tube breakage and burnt fingers. For removing miniature tubes.

No. 3093 7-Prong Net \$ 1.06
No. 8106 9-Prong 1.06



G-C TUBE AND PARTS EXTRACTOR TL-201

Skillfully constructed of spring steel, cadmium plated. Has rubber cushion on the prongs. A handy tool to have around.

No. 3092 Net \$.97



G-C KNOB PULLER

Simply slip the G-C puller behind the knob & pull it off. Saves time.

No. 1063 KNOB PULLER Net \$.29



KRAEUTER PLIERS

DIAGONAL 'OBLIQUE' CUTTING PLIERS



4561

LONG NOSE SPECIAL NEEDLE POINT PLIERS



826

SHORT CHAIN NEEDLE NOSE PLIERS



1643

MEDIUM NOSE SPECIAL NEEDLE POINT PLIERS



823

THIN NOSE COMBINATION



40

16

IGNITION PLIERS



643

ELECTRICIANS' SIDE CUTTING PLIERS



1830

ROUND NOSE ROUND JAW PLIER



1611

EXTRA LONG CHAIN NOSE PLIERS



1781

1771

EXTRA LONG NOSE NEEDLE POINT PLIERS



827

837

WIRE STRIPPING DIAGONAL CUTTING PLIER



2612

LONG CHAIN NEEDLE NOSE PLIERS



1661

Number

Number	Net
4501	3/8" with cutter \$ 1.96
4561	5" with cutter 2.20
4561	6" with cutter 2.50
643	5" 1.59
46	6" Deluxe 1.37
16	6" Standard .80
825	5" with cutter 2.70
1781	7" with cutter 2.83
1771	7" no cutter 2.17
826	6" with cutter 2.92
1611	5" no cutter 2.09
1830	4" with cutter 1.96
1830	5" with cutter 2.69
1830	6" with cutter 2.29
1830	7" with cutter 2.50
1830	8" with cutter 2.83
826	7" with cutter 3.25
837	7" no cutter 2.83
2612	6" with cutter 2.83
1661	6" with cutter 2.50
1643	5" 1.83

G-C THIN NOSE PLIERS

An excellent tool for the radio man for strunging and holding radio dial cable, soldering wires, holding parts, starting screws, nuts, etc. Notched jaws grip small objects firmly.

No. 5192 Straight Nose Pliers Net \$.59

No. 5193 Curved Nose Pliers Net \$.59

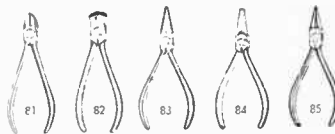


GRILLE CLOTH

Colors: Brown or Grey

Replace that old worn grille cloth with one of these sparkling types.

Number	Size	Net
940	18x20"	\$.88
941	9x18"	.44
942	12x12"	.41
944	24x13"	.79
945	18x13"	.53



JEWELERS PLIERS

Small lightweight precision pliers designed for fine close work as required by jewelers, hobby crafters, model builders, inventors, and skilled technicians. These 4 1/2" pliers are drop forged from fine steel. Machined, ground, carefully heat-treated and polished. Shpg. Wgt. 5 oz.

NO. 81. DIAGONAL CUTTERS for fine close work. Net.....\$ 2.50

NO. 82. END CUTTING NIPPERS for fine close work. Net.....\$ 3.00

NO. 83. CHAIN NOSE PLIERS - no cutters. 1 1/4" smooth jaw. Net.....\$ 2.42

NO. 84. FLAT NOSE PLIERS - no cutters. 1 1/4" smooth jaw. Net.....\$ 2.50

NO. 85. ROUND NOSE - ROUND JAW - no cutter. 1 1/2" smooth jaw. Net.....\$ 2.50

INDUSTRIAL PLIERS



NO. 710-10". Industrial type pliers with tongue-n-groove joint. Forged fins and grooves allow 5 parallel adjustments of 1/4", 1/2", 3/4", 1-1/16", 1 1/2". Working capacity has a range from 3/16" to 1-5/8". Polished finish. Overall length 10". Net \$ 2.37

LONG NOSE PLIERS



NO. 422. Long nose side cutting plier. Economy tool for TV, radiomen, electricians, maintenance men, etc. 5 1/2" long. Net \$.69

DIAGONAL CUTTING PLIERS



NO. 425. Diagonal cutting plier. Good sharp cutting edge for radio and electric wires. 4 3/8" long. Net \$.69

walco ornamental metal grille



Used in many of the very finest custom installations. Grille is heavy metal, richly plated in "brushed brass", and lacquered for enduring rich gold effect.

NUMBER	SIZE	NET
382	12x18"	\$ 1.76
384	18x24	3.23
386*	24x36	6.14
387*	24x48	8.09
388*	36x48	11.36

*Not stocked, on special order only.

"Your trade-in's worth more at the WALTER ASHE STORE" (147)

PLIER AND WRENCH KIT



Plier and wrench kit. Made of high grade steel with polished heads. Ideal for car, home, and gifts. Kit consists of 7" linesman slip-joint plier, 6" adjustable wrench, 5 3/4" diagonal plier, 5 3/4" long nose plier. Heat sealed plastic case. Shpg. Wgt. 2 lb. NO. 4014. Net.....\$ 2.58

OxWALL

**SOCKET WRENCH SET
RATCHET HANDLE**



10-piece socket wrench set. Amber color plastic ratchet handle, 3 1/2" extension and eight wrenches. Sizes: 1/16", 7/32", 1/8", 9/32", 5/16", 11/32", 3/8", 7/16". Shpg. Wgt. 1 lb. NO. 3901. Net.....\$ 1.65

**INTERCHANGEABLE
NUT DRIVER SET**



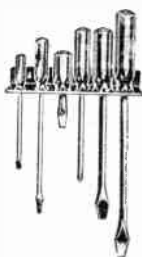
7-piece interchangeable nut driver set. Flanged, aluminum screw chuck set in unbreakable, shockproof plastic handle. 3 1/4" blades. Sizes: 1/16", 1/8", 5/16", 3/8", 11/32", 7/16", 1/2". Shpg. Wgt. 1 lb. NO. 3822. Net.....\$ 1.50

**INTERCHANGEABLE
SCREWDRIVER SET**



6-piece magnetized interchangeable screwdriver set. Hardened and tempered steel blades. Aluminum screw chuck. Unbreakable, shockproof, non-inflammable amber plastic handle. Heat sealed plastic case. Sizes: 1/4" x 3 1/4", 3/8" x 3 1/2", 1/2" x 5 1/2", Phillips 1 1/8" x 4 1/2", 2 1/8" x 4 1/2". Shpg. Wgt. 8 oz. NO. 3918M. Net.....\$.57

SCREWDRIVER SET



Magnetized screwdriver set consisting of drivers, 3/8" x 8", 1/2" x 6", 1/2" x 1 1/2", 3/8" x 3 1/2", 1/4" x 5", Phillips 1/2" x 4". Unbreakable, shockproof amber plastic handle. Hardened tempered tool steel blades. Complete with metal wall rack holder. Shpg. Wgt. 2 lbs. NO. 3796. Net.....\$.75

TUBE PIN STRAIGHTENER

Precision steel dies for the straightening of pins on fragile miniature tubes. Quickly aligns pins that have been bent.

NO. 5191. For 7-pin miniatures. Net...\$.73
NO. 8105. For 9-pin miniatures.....\$.73

*ALL PRICES AND SPECIFICATIONS
SUBJECT TO CHANGE WITHOUT
NOTICE.*



GE TWIN-X WRENCH SET

Wrenches designed especially for radio and TV work. Solid construction-chrome plated over case hardened steel. Set consists of two wrenches with following sizes: 1/2", 7/8", 1", 1 1/8", 1 1/4", 1 1/2", 1 3/4", 2", 2 1/4", 2 1/2", 3". Shpg. Wgt. 1 1/2 lbs. NO. ETR-752. Net.....\$ 2.00

**TUBE
GIZMO**

4-IN-1 TOOL



A handy little gadget - four tools in one. Use it to pull all miniature tubes. Specially hardened nylon-bakelite pin aligning dies for straightening pins on 7-pin and 9-pin tubes. Also use it as a rubber-cushioned tube tapper. Pure India rubber is used. MODEL TG-4. Net.....\$.65

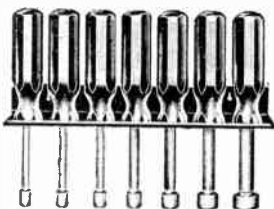
WRENCH FOR H&H KNURLED NUTS



Special deep cavity accommodates knurled nuts as used on H&H switches. Knurled surface is tapered. NO. 3480. Net.....\$ 1.87

**20% DEPOSIT REQUIRED ON
C.O.D. ORDERS**

NUT DRIVER SET



7-piece nutdriver set. Complete with metal wall rack. Handles are of unbreakable, amber plastic. Long life steel blades, 2 1/2" long. Sizes: 1/16", 1/8", 5/16", 3/8", 11/32", 7/16", 1/2". Shpg. Wgt. 2 lbs. NO. 3828. Net.....\$ 2.21

WA BREAST DRILL

Works smoothly. Hardwood handle with solid steel frame. 1/4" capacity chuck. Net.....\$ 2.94

WA HAND DRILL

A light hand drill for small work. Solid handle with plain finished frame and chuck nut. Takes drill bits 0" to 3/16". Length 9 1/4". Shpg. Wgt. 1 lb. Net.....\$ 1.57

GENERAL

DRILL AND WIRE GAUGE

Made of heavy gauge hardened and tempered steel. Carefully inspected, oiled, and individually wrapped. Easy to read, deep clear numerals. Numbered from 1 to 60 for any drill. 2 1/4" x 6 1/4". Net.....\$ 1.17

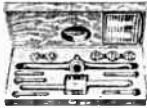
SIX INCH STEEL RULER



6" stainless steel rule with depth gauge pocket clip. Width 1/4". Reads 32nds and 64ths. NO. 301. Net.....\$ 1.10

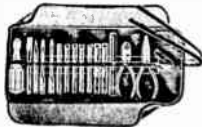
HANDY TOOLS - WIRE STRIPPERS Too

CARBON STEEL TAP AND DIE SETS



Heat treated. Clean, accurate threads. Made of high carbon alloy steel. Packed in finished mahogany case. One plug tap and solid dies furnished in following sizes: 4-36, 6-32, 8-32, 10-32, 1/4-20. Shpg. Wgt. 3 lbs. Net \$ 4.39

WALDEN WORCESTER SPINTITE WRENCHES



Deluxe Spintite sets containing all popular radio and ignition size tools. Wrench sizes: 3/16, 1/4, 5/16, 11/32, 3/8, 7/16 & 1/2. Screw driver: 1/8x4 3/16x4, 1/4x4. Reamer 1/16-3/16. 6" long nose plier, 5" diagonal cutter neutralizing tool and Universal handle. Complete in leatherette roll.

No. 3800B15 Net \$ 16.07

Same as above but less pliers and neutralizing tool.

No. 3800A12 Net \$ 6.09



WISE

No. 149. A practical vise of good construction. Attractive and finely made. Width of jaws 1-3/4". Opens to 1-3/4". Shpg. wgt. 2 lbs. No. 149 Net \$ 1.20



JEWELER'S SCREWDRIVER SET

Consists of one jeweler's screw driver body and five replaceable screw driver blades, sizes 0, 1, 2, 3, 4. Enclosed in plastic container. Shpg. Wgt. 8 oz. No. 605-S Net \$ 1.13

JEWELERS SCREWDRIVERS



Precision made of steel tubing and equipped with tempered steel blades and free-wheeling swivel head. Removable blades are held firmly in place by threaded chucks. Set of six, consists of No. 0, .100; No. 1, .080; No. 2, .070; No. 3, .055; No. 4, .040; No. 5, .025. No. 600-S. Set of six. Net \$ 3.09

SYLVANIA WRENCH SET

Handy, light duty wrench kit in attractive plastic case. Consists of ratchet handle, extension, and 8 sockets, sizes 3/16", 7/32", 1/4", 9/32", 5/16", 11/32", 3/8" and 7/16". Net \$ 3.00



STANDARD SPEEDEX WIRE STRIPPER

Fast operating precision made hand tool for stripping insulation from all types of wire. Very easy to operate. Strips 750 to 1000 wires per hour. All blades are interchangeable and easily replaced.

No. 733 12 to 20 Wire Net \$ 3.88
No. 733A 14 to 30 Wire 3.88
No. 733H For 300 ohm TV and FM transmission line. 3.88

AUTOMATIC SPEEDEX WIRE STRIPPER

Similar to standard models except has "stay open feature" with new Speedex "Trig-O-Matic" action. Automatically holds jaws open until wire is removed and prevents bending or crushing of fine wires.

No. 744 12 to 20 Wire Net \$ 4.85
No. 744A 14 to 30 Wire 4.85
No. 744H For 300 ohm transmission line. 4.85

G-C SPEEDEX WIRE STRIPPER KIT



Wire stripper complete with 7 different size blades put up in a specially designed permanent steel box. For wires No. 8 to No. 30. Helps keep all parts together in one kit. Available with automatic or standard model strippers.

No. 733-K Standard Stripper Kit with blades. Net \$ 9.17
No. 744-K Deluxe Automatic Stripper Kit with blades. Net \$ 10.14

G-C SPEEDEX REPLACEMENT BLADES



Fit standard and automatic models. Blades interchangeable.

Number	Size	Number	Size
3W	12-20	3W-E	14-18
3W-4	14-30	3W-F	10-14
3W-B	10-18	3W-G 18 P.O.S.J.	
3W-C	8-10	3W-H 300 ohm	
3W-D	16-22	twin line	

Any size. Net \$ 9.97

G-C WIRE STRIPPER

5-in-1 tool. Hardened steel, use as wire stripper, scraper, cutter, screw driver and wire winder.



No. 757 Net \$.29

WALSCO PROTECTO-TUBE



Synthetic tubing designed for insulating handles of pliers, screwdriver blades, cable connector ends, test prods, etc. Will not crack or shatter. Easily applied. Kit contains 12 ft. assorted sizes and colors, expanding solution and instructions.

No. K-18 Net \$ 1.07



BERNZ-O-MATIC

TORCHES



TX-10

TX-101

Burn propane gas, heat up to 2300 degrees. Disposable cylinder holds enough fuel to burn up to 15 hours. Lights instantly at touch of a match, even at 30 degrees below zero. Burns in any position. Self-sealing valve prevents leakage, thus burner may be safely removed at any time during life cycle. Used for electrical work, plumbing, wood refinishing, soldering, fitting, metal working, paint removing, home repairs, or any use where high heat is needed.

MASTER TORCH with TX-1 pencil flame burner for medium duty work. Non-clogging orifice. Fully loaded torch weighs 2 1/2 lbs. Cylinder size 10" long by 2 1/4" diameter. Overall length 17". Complete with cylinder and burner. Shpg. Wgt. 4 lbs. NOT AVAILABLE.

MODEL TX-10. Net.....\$ 5.20

Replaceable cylinder. NOT AVAILABLE.

NO. TX-9. Net.....\$ 1.45

NO. TX-1. Pencil flame burner. Net.....\$ 3.75

NO. TX-2. Utility burner for heavy duty work. Net.....\$ 3.75

Flame Spreader attachment for use with TX-2 burner provides wide flame for burning off old paint, furniture finishing, floor laying, etc.

NO. TX.300. Net.....\$ 1.45

BANTAM TORCH with precision tip for all small flame uses in jewelry repairs, radiowork, gun and tackle repairs, etc. Fully loaded unit weighs only 22 oz. Size: 7" high, 2 1/4" diameter. Shpg. Wgt. 3 lbs. NOT AVAILABLE.

MODEL TX-101. Net.....\$ 3.70

Replaceable cylinder. NOT AVAILABLE.

NO. TX-109. Net.....\$ 1.12

COMPLETE TORCHES AND REPLACEMENT CYLINDERS SHIPPED BY TRUCK OR EXPRESS ONLY.

GENERAL

AUTOMATIC CENTER PUNCH



No. 79 Automatic, push the punch. Adjustable, light or heavy impressions. Speedy. Replaceable points made of tempered alloy steel. 1/2" dia. by 5" long. Shpg. Wgt. 5 oz. Net \$ 2.95
Extra Points Net Each .30

GEE-LAR AUTOMATIC CENTER PUNCH



Handy center punch for panel and lay-out work. For use by servicemen, mechanics, and engineers. Also handy for starting screws. Push on handle and center mark snaps in. No. 3005 Net \$ 1.62

Replacement point for above. Net \$.29

NO. 701 STEEL SPEAKER SHIMS.

Extra flexible Swedish steel shims for centering voice coils 4 sizes in kit. Net \$.53



NO. 702 FIBRELOID SPEAKER SHIMS.

Tough and flexible fibreloid shims, 5 sizes in kit. Net \$.38

PLASTIC PLIERS

Not a substitute for metal pliers but very useful for specialized jobs on radios, appliances, etc. Light in weight - only 1 1/2 oz. Absolutely shockproof and non-magnetic. 6000 volt breakdown. Not guaranteed against breakage.

No. PRP Net \$ 9.97

"Your trade-in's worth more at the WALTER ASHE STORE" (149)

WELLER SOLDERING GUNS



Irons may be used for soldering jobs, home-craft, plastic tile cutting, removing hardened putty, heat sealing, etc. Dual spotlights for easy locating of work at tip. High impact housing, streamlined design case, husky transformer. All models heat to operating temperature in 5 seconds. Models D-550 and D-440 are dual heat. Heavy duty models - shpg. wgt. 4 lbs.; standard duty models - shpg. wgt. 3 lbs.

HEAVY DUTY MODELS

MODEL D-550, Heat 200/275 Watts. Net \$11.71
Lots of 3, Net Each..... 10.54
Lots of 12, Net Each..... 9.96
MODEL S-500, Heat 250 Watts. Net..... \$ 9.75
Lots of 3, Net Each..... 8.77
Lots of 12, Net Each..... 8.29

STANDARD DUTY MODELS

MODEL D-440, Heat 100/150 Watts. Net \$10.73
Lots of 3, Net Each..... 9.66
Lots of 12, Net Each..... 9.12
MODEL S-400, Heat 135 Watts. Net..... \$ 8.77
Lots of 3, Net Each..... 7.89
Lots of 12, Net Each..... 7.46



NEW JUNIOR

Compactly designed iron which heats to operating temperature in 5 seconds, over 100 watts. Trigger switch, instantly off or on by fingertip control. Hand some, rugged, gloss-black plastic case. Tip fits easily into tight places. Two pre-focused spotlights illuminate work at tip. May also be used for cutting and smoothing with accessory tips. Operates on 120 VAC 60 cycle only. U/L approved. Shpg. Wgt. 3 lbs.

MODEL 8100, Net Each..... \$ 5.83
Lots of 3-11, Net Each..... 5.19
Lots of 12 or more, Net Each..... 4.94

NO. 7333 REPLACEMENT 2.2 VOLT BULB.
Fits all Weller soldering irons. Net Each \$.15

REPLACEMENT TIPS

Number	Net
7300 SOLDERING TIP. For Models B, S-107, D-207. (Pkg. of 2)	\$.25
7135 SOLDERING TIP. For WS-100, WD-135, S-400, D-440, 8100. (Pkg. of 2)	.25
7250 SOLDERING TIP. For WS-200, WD-250, S-500, D-550, 8250A. (Pkg. of 2)	.35
6110 CUTTING TIP. With tip nuts. For WS-100, WD-135, S-400, D-440, 8100.	.35
6120 SMOOTHING TIP. With tip nuts. For WS-100, WD-135, S-400, D-440, 8100.	.35
6130 CUTTING TIP. With tip nuts. For WS-200, WD-250, S-500, D-550, 8250.	.35
6140 SMOOTHING TIP. With tip nuts. For WS-200, WD-250, S-500, D-550, 8250A.	.35
7323 REPLACEMENT SWITCH. For all single heat models.	1.25
7324 REPLACEMENT SWITCH. For all dual heat models.	1.40



WEN
"QUICK-HOT"

SOLDERING GUN

U/L approved gun which heats in 2½ seconds to working temperature. Cools quickly when trigger is released. Built-in spotlight angled to focus on work at tip. Extra long narrow tip easy to get into tight places. Tip has steel nose and is practically indestructible. Gun weighs only 1½ lbs. Heat-proof, shock-resistant plastic case. 6-ft. cord. Operates on 120 VAC 50/60 cycles, 1.1 amperes. Shpg. Wgt. 2½ lbs.

MODEL 199, Net Each..... \$ 5.83
Lots of 3-11, Net Each..... 5.19
Lots of 12 or more, Net Each..... 4.94
19B4 REPLACEMENT TIP..... .35



WEN
250 WATT
"Quick-Hot"

ELECTRONIC SOLDERING GUN

Heavy duty iron which heats to working temperature in 3-5 seconds, 250 watts. Perfect balance. Built-in spotlight focuses on work at tip. Long-reach tip fits into tightest corners. In addition to all types of soldering, gun may be used for engraving, wood burning, plastic tile cutting, etc. Operates on 120 VAC 50/60 cycle. U/L approved. Shpg. Wgt. 5 lbs.

MODEL 250, Net Each..... \$ 9.71
Lots of 3-11, Net Each..... 8.64
Lots of 12 or more, Net Each..... 8.20
25A4 REPLACEMENT STANDARD TIP..... .11
25X20 FERALLOY LONG LIFE SOLDER.
ING TIP..... .35
25C1 PLASTIC TILE CUTTING TIP..... .35



KESTER

"RESIN-FIVE" CORE SOLDER

The better solder for television, all radio and electronic parts, and household use. "Resin-Five" Flux is more active and stable than any resin flux yet it is non-corrosive and non-conductive.

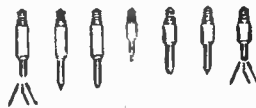
Small tin, household size. Net \$.17
1 lb. roll "Resin-Five" core solder, 40% tin-60% lead, 3/32" dia. 1.07
1 lb. roll "Resin-Five" core solder, 40% tin-60% lead, 1/16" dia. 1.10
5 lb. roll "Resin-Five" core solder, 40% tin-60% lead, 1/16" dia. 5.30
1 lb. roll "Resin-Five" core solder, 50% tin-50% lead, 1/16" dia. 1.28
5 lb. roll "Resin-Five" core solder, 50% tin-50% lead, 1/16" dia. 6.20
1 lb. roll acid core solder, 40/60 1.07
5 lb. roll acid core solder, 40/60 5.15
Solder Paste, 2 oz. tin .12

UNGAR

Electric



Soldering Pencil



Widely used in service work, home workshops, production lines, laboratories, etc. Tips available in three wattages.

No.	Type	Tip Temp.	Net
23½ WATTS			
536	Pyramid	700°	\$.86
539	Chisel	700°	.86
540	Plastic Marking	700°	.86
535*	Heating Unit	650°	.86
37½ WATTS			
1235*	Heating Unit	750°	1.06
1236	Pyramid	800°	1.06
1239	Chisel	800°	1.06
47½ WATTS			
4035*	Heating Unit	850°	2.35
4033	Chisel	900°	2.35
4039	Chisel	1000°	2.35
4036	Pyramid	1000°	2.35

*Tiplets for use with 535-1235-4035 heating units. Interchangeable, screw-in type.

331 Pencil Tip..... \$.12
332 Offset Tip..... .12
333 Chisel Tip..... .12
776 Handle with cord set, for all tips, 5" long..... .90

Ungar ELECTRIC PENCIL AND SOLDERING SET



MODEL 217. Soldering set for hobbyists, home craftsmen, radio men, etc. For use on wood, plastic, leather, foil, cork. Excellent for delicate soldering jobs in meters and small places. Complete with handle and cord set, detachable 20 watt threaded heating unit, six interchangeable tips, 5 sheets metallic embossing foil, abrasive cloth, instructions for all homecrafts, and illustrated catalog of plaques and projects. Shpg. Wt. 1 lb.

MODEL 217 ELECTRIC PENCIL SET Net \$2.29

WALSCO TERMINAL LUGS



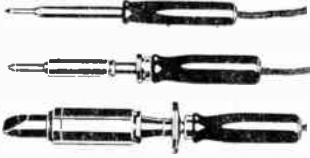
1 2 3 4 5 6 7 8
Packaged in attractive clear plastic containers. All are tinned and ready to use. For #6 and #8 screw.

No.	Qty.	Net	Fig.	No.	Qty.	Net
7110-F	20	\$.29	1	7118-N	125	\$1.06
7120-F	25	.29	2	7128-N	140	1.06
7130-F	25	.29	3	7138-N	115	1.06
7140-F	20	.29	4	7148-N	100	1.06
7150-F	15	.29	5	7158-N	100	1.06
7160-F	35	.29	6	7168-N	250	1.06
7170-F	25	.29	7	7179-N	140	1.06
7180-F	20	.29	8	7189-N	115	1.06

SOLDERING IRONS - GUNS

Too

American Beauty ELECTRIC SOLDERING IRONS



World famous for many years, these irons have construction features which assure efficient and long life. Heating element core is made of solid steel rod. Nickel-chromium heating element is wound around the core and bound with patented compression winding. Every iron is supplied with long lasting self-flexible heater cord. Heat insulating stands are supplied with all irons. Operates from either AC or DC current.

Number	Wattage	Shpg. Wgt.	6 Lot Net Ea.	Single Net Ea.
3128	60	1 lb.	\$ 3.51	3.67
3138	100	2	5.58	5.83
3158	200	3	6.53	6.83
3178	300	4	8.61	9.00
3198	550	6	11.16	11.66

NEW ANGLE TYPE



SOLDERING IRON

No. 3128-A. New ANGLE-TYPE iron for production uses, service, TV and all-around uses. A companion iron to No. 3128, with new angle feature. Rated at 60 watts, operates on 105-125 volts AC or DC.

Net Each \$ 4.00
6 Lot, Net Each 3.83

COPPER TIPS



Number	For Iron	Tip Size	Net
3734	S-76	7/16	\$.30
3728	3128	1/4	.30
3738	3138	3/8	.37
3738-S*	3138	3/8	.37
3758	3158	5/8	.85
3778	3178	7/8	1.61
3798	3198	1-1/8	2.73

*Chisel type tip. All others are pyramid tips.

American Beauty

REGULATING

TEMPERATURE

STAND



Thermostat control regulator for irons while at rest. Thermostat may be set at any desired temperature. Handles up to 660 watts. For AC only. Shpg. Wgt. 2 1/2 lbs.

No. 475. Net.....\$ 4.41



DRAKE



DELUXE MODELS



MODEL 326. 125-watt iron with 3/8" adjustable plug tip. Nichrome element. Cooling fins keep handle cool. With stand, 13" long. Shpg. Wgt. 2 lbs.

Net \$ 4.12
Extra Tip .35



MODEL 325. 100-watt iron with 3/8" adjustable plug tip. Standard radio iron. Nichrome element. With stand, 13" long. Shpg. Wgt. 1 1/2 lbs.

Net \$ 3.82
Extra Tip .35

ECONOMY MODELS



MODEL 315. 60-watt iron with 3/8" screw on tip. For light work. Nichrome-Porcelain element. With stand. Gun metal finish. 11 1/2" long. Shpg. Wgt. 1 lb.

Net \$ 1.47
Extra Tip .33



MODEL 316. 100-watt iron with 3/8" screw on tip. Excellent for all around work. Nichrome-Porcelain element. With stand. Shpg. Wgt. 1 lb.

Net \$ 2.00
Extra Tip 1.06

MIDGET IRONS



MODEL 350. 35-watt midget soldering iron with 1/8" straight tip and extra tip bent at 45° angle. For continuous duty. Nickel chromium element. 7" long, weighs 6 oz. Complete with 6-ft. cord, plug, and stand. Shpg. Wgt. 1 lb.

Net \$ 3.53
Extra Tip .15



MODEL 400. Small continuous duty 60-watt iron with 1/4" plug-in tip. Only 9" long, weighs 8 oz. Nickel chromium heating element. 6-ft. cord. Stand included. Shpg. Wgt. 1 lb.

Net \$ 3.82
Extra Tip .24

DRAKE "PEE WEE" IRON FOR PORTABLE USE



MODEL 360. Midget 35-watt soldering iron for radio and TV work. Complete with 3/16" tip. 5-ft. U/L approved cord. Shpg. Wgt. 1 lb.

Net \$ 2.94
Extra Tip .18

DRAKE SOLDER POTS



200



100

MODEL 200. Heavy duty production-type 300-watt solder pots. Nichrome element wound directly around cast iron well. Well size 2 1/2" dia., 2" deep. Holds 2 lbs. solder. Complete with detachable cord, plug and bale handle. For 110 volts AC. Shpg. Wgt. 6 lbs.

Net \$ 7.14

MODEL 100. Standard duty 150-watt solder pots. Nickel chromium element wound on ceramic core. Well size, 1 1/2" dia., 1" deep. Holds 1 lb. solder. Complete with detachable cord and plug. Shpg. Wgt. 3 lbs.

Net \$ 5.56

PHILLIPS "FLASH"

SOLDERING GUNS



FLASH MODEL 75. Operates directly from 1 volt AC or DC line. Lightweight (6 oz.), perfectly balanced. Cool protected grip. Ideal to carry in kit, fast heating, fast cooling. Shpg. Wgt. 1 lb. Net.....\$ 2.

FLASH MODEL SF-100. Pistol grip switch handle. Operates from 6-12 volts storage battery or stepdown transformer, Model HD-52. Shpg. Wgt. 1 lb. Net.....\$ 2.

MODEL HD-520 TRANSFORMER. Net.....\$ 4.
Extra Tip for SF-100. Net.....\$.50
Carbon Element for SF-100.....\$.50
X-121 - Assortment of 3 Tips.....\$ 1.
Y-121 - Assortment of 4 Tips.....\$ 1.

PHILLIPS

"VERSA-TOOL"



Latest model of this popular tool which has interchangeable tip assemblies. Has 1/2" pencil point for fine soldering jobs and 3/8" pyramid tip for heavy duty soldering. 2-position fingertip switch, gives light only in first position, hot and light in second position. 250 watts. Fuse circuit protects all internal elements. Heats in four seconds. Snug, pistol-grip handle fits comfortably. Shpg. Wgt. 5 lbs.

MODEL 250. Net.....\$ 10.

KWIKHEAT



THERMOSTATIC SOLDERING IRON

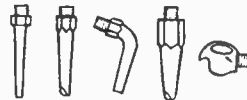


225-WATTS

Built-in thermostat. Working temperature in 90 seconds. Tips easily replaceable. 6-ft. heater cord. For 100/125 volts AC only. Shpg. Wgt. 1 1/2 lbs.

MODEL 300 with No. 1 Tip. Net Each \$9.10
Lots of 3, Net Each 8.10

KWIKHEAT EXTRA TIPS



#20 FOR LIGHT WORK
#21 FOR HOIST SIZES
#23 FOR TIGHT PLACES
#24 FOR HEAVY WORK
#25 FOR TURNING WIRES

Any above styles, Net Each.....\$ 1.1

KWIKHEAT JUNIOR



MODEL 200. With thermostatic control. Weighs only 8 oz., complete with tip. Element is wound on corrosion-resistant copper core, plated for further protection. Heat 700° F. 1 1/2" long with tip. Operates on 100-125 VAC only. 150 watts. Complete with tip, cord, and rest. Shpg. Wgt. 2 lbs.

Net \$ 5.8
Lots of 3, Net Each 5.1

No. 2051 Replacement Tip. Net \$.3

"Your trade-in's worth more at the WALTER ASHE STORE" (151)

TOO SANDERS - SPRAY GUNS - DRILLS

WEN STRAIGHT LINE ACTION

Electric SANDER-POLISHER HANDY • LIGHT • QUIET



Sander-polisher with straight-line action. Sands and polishes with the grain up into even the tightest corners and produces mirror-smooth, scratchless surfaces. Also shines shoes and saddles. Fits the hand perfectly. Self-tightening paper holder. Powerful vibrator motor - 14,400 strokes per minute. Travel of idler: 1/2" idler, 1/4" loader. Sanding area: 2 1/2" x 1 1/2" (13 1/4 square inch). Working weight: 2 1/2 lbs. Assortment of sanding sheets and polishing pads included. Operates on 110-120 VAC 60 c/clo. Shpg. Wgt. 4 lbs.

MODEL 202. Not Each.....\$ 10.46

sts of 3-11, Not Each..... 9.30

sts of 12 or more, Not Each..... 8.84



SUPER-POWER

Super power vibrator sander-polisher which does 14,400 strokes per minute. New motor sign affords straight-line sanding with the sin previously not available in vibrator sanders. Fits up into tightest corners. Sanding area 1/2 square inch. Plastic case fits hand perfectly. Operates on 110-120 VAC 60 c/clo. 1.5 lbs. Complete with gold finish metal tool kit x with handle, 12 sheets paper, 2 polishing pads. Shpg. Wgt. 5 lbs.

MODEL 303. Not Each.....\$ 12.71

sts of 3-11, Not Each..... 11.30

sts of 12 or more, Not Each..... 10.74

TWIST DRILLS

High speed, short length drills. Utility type for all uses. Made with short flutes, proper heat treatment to insure maximum life. May be used on screw machines, turret lathes, hand or breast mills. Finest quality.

Size	Net	Size	Net
5/64	\$.24	9/32	\$.70
1/16	.24	19/64	.75
3/32	.24	5/16	.83
1/8	.27	21/64	.91
7/32	.30	11/32	.97
1/4	.31	23/64	1.10
5/16	.33	3/8	1.15
3/8	.35	25/64	1.25
7/16	.39	13/32	1.40
1/2	.40	27/64	1.47
5/8	.42	7/16	1.56
3/4	.49	29/64	1.71
7/8	.52	15/32	1.78
1	.56	31/64	1.90
1 1/8	.65	1/2	2.01

CHAMPION SPRAY GUNS

- All Metal Construction
- Completely Electric
- Needs No Compressor



Completely self-contained spray gun. No compressor needed, powerful vibrator housed right in the handle. Develops over 90 lbs. pressure, sufficient power to spray any type of paint, lacquer, varnish, oils, deodorants, chemicals, insecticides, enamels, etc. No nozzle adjustment, just one control knob. All-metal construction. Non-corrosive piston and cylinder. Will spray from open jar, large or small container. Easy to clean and operate. Housing is rust-proof. Pistol-trigger action control. Motor operates at 7200 strokes per minute. Operates on 117 VAC only. Complete with U/L approved 8-ft. cord and plug and 25 cc. glass jar. Net weight 3 1/2 lbs. Shpg. Wgt. 5 lbs.

MODEL 5J-81. Not.....\$ 9.77

MODEL 5J-81M. Same as above but has polished aluminum canister. Not.....\$ 11.73

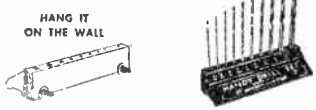
INTERNATIONAL ROTARY HIGH-SPEED (OPE-SAW) DRILL-BIT IT DRILLS IT SAWES IT REAMS



Cuts, Saws, Reams - Sheet Metal, angle iron, pipe, wood, plastic, etc. Python will operate in stainless steel when used in fast 1/4" drill, slow drill press, lathe or milling machine. Wart Hog for lighter metal, wood, etc. Drills own starting hole, then use as saw or reamer. Fits 1/4" chuck. Withstands severe continuous use without breaking. Ideal to cut transformer holes in chassis, woodwork, etc. Resharpener by manufacturer free of charge.

Python Bits, 3" long.	Net Each	\$ 3.87
Python Bits, 3 1/2" long.	3 for	11.27
Python Bits, 2-3/8" long.	Net Each	2.89
Python Bits, 2-3/8" long.	3 for	8.33
Wart Hog Bits, 3 1/2" long.	Net Each	3.87
Wart Hog Bits, 3" long.	3 for	11.27
Wart Hog Bits, 2-3/8" long.	Net Each	2.89
Wart Hog Bits, 2-3/8" long.	3 for	8.33

DRILL SETS



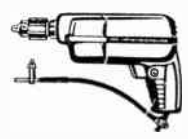
Handy Drill Set contains ten most popular sizes of drills. Finished in yellow or royal blue lacquer. Has die cast holes, each marked with proper drill size. Following drill sizes are included: 1/16", 5/64", 3/32", 7/64", 1/8", 9/64", 5/32", 3/16", 7/32", 1/4".

Number	Net
77 Drill Set	\$ 2.52
72 Stand (For above drills)	.46
77S Drill Set & Stand	2.98

PET POWER TOOLS

ELECTRIC DRILLS

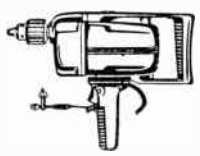
1/4-INCH



1/4 inch electric drill with gear-type chuck. Palm-grip with instant release, lock-type trigger switch built into handle. Powerful tool ideal for bench work or home workshop. Dynamically balanced armature and precision-cut gears. Forced ventilation. Self-lubricating bronze bearings. Speed: No-load, 1600 RPM; full-load, 900 RPM. Capacity: 1/4" in steel, 1/2" in hardwood. Complete with 6-ft. cord. Operates on 117 volts AC or DC. U/L approved. Shpg. Wgt. 4 lbs.

MODEL 1950-G. Not.....\$ 16.40

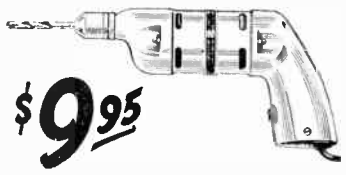
1/2-INCH



1/2 inch electric drill with precision gear-type chuck. Aluminum alloy die-castings for housings and handles combine strength and light weight. Precision, dynamically balanced armature, heat-treated alloy steel gears in gear-tight housing, oil-retaining bronze bearings. Forced ventilation. Instant-release, lock-type trigger switch built into side handle. Capacity: 1/2" in steel, 1" in hardwood. Speed: No-load, 450 RPM; full-load, 300 RPM. Complete with 7-ft. cord. Operates on 117 volts AC or DC. U/L approved. Shpg. Wgt. 11 lbs.

MODEL 510. Not.....\$ 28.95

POWERHOUSE DRILL



No house or shop can afford to be without an electric drill at this price. Will outperform many other drills selling for much more. 110-120 volt AC-DC 50/60 cy. 1/10 HP motor. No load speed - 1200 RPM, full load speed - 700 RPM. Comfortable grip with dependable instant action switch. Sturdy key-less three jaw 1/4" capacity chuck. Weighs only 31 oz. Armature is dynamically and statically balanced for vibrationless operation. Die cast aluminum handle and gear case. 60-foot highest quality cord and plug. 90-day factory guarantee. Shpg. Wgt. 3 lbs. Net \$ 9.95

52 NEED NEW TEST EQUIPMENT?-We'll Trade In Your Old Units!

INPUT TRANSFORMERS

TRA

LINEAR STANDARD AUDIO TRANSFORMERS

UTC

LOW IMPEDANCE TO GRID TRANSFORMERS



TYPE LS-10. Low impedance mike, pickup, or multiple line to grid. Primary 50, 125/150, 200, 250, 333, 500/600 ohms. Secondary 60,000 ohms in 2 sections. Plus or minus 1 DB 20-20,000 CPS. Maximum level plus 10 DB. LS-1 case. Net \$ 14.70

TYPE LS-10X. Same as above, but has 50,000 ohm secondary. LS-1 case. Net \$ 18.62

TYPE LS-12. Low impedance mike, pickup, or multiple line to p.p. grids. Primary 50, 125/150, 200, 250, 333, 500/600 ohms. Secondary 120,000 ohms in 2 sections. Plus or minus 1 DB 20-20,000 CPS. Maximum level plus 10 DB. LS-1 case. Net \$ 16.66

TYPE LS-12X. Same as above, but has 80,000 ohms overall, split secondary. LS-1 case. Net \$ 19.60

TYPE LS-14. Low impedance mike, pickup, or parallel mixer to grid. Primary 2.5, 5.5, 10, 15, 22, 30, 3E, 60 ohms. Secondary 60,000 ohms in 2 sections. Plus or minus 1 DB 20-20,000 CPS. Maximum level plus 10 DB. LS-1 case. Net \$ 17.64

TYPE LS-14X. Same as above, but has 50,000 ohms secondary. LS-1 case. Net \$ 19.60

TYPE LS-15X. Three isolated lines or pads to one or two grids. Primary 30, 50, 200, 250 ohms each primary. Secondary 60,000 ohms overall, in two sections. Plus or minus 1 DB 20-20,000 CPS. Maximum level plus 10 DB. LS-1 case. Net \$ 19.60

TYPE LS-18. High level multiple line to p.p. grids. Primary 50, 125/150, 200, 250, 333, 500/600 ohms. Secondary 50,000 ohms overall in 2 sections. Plus or minus 1 DB 20-20,000 CPS. Maximum level plus 20 DB. LS-2 case. Net \$ 15.68

INTERSTAGE AUDIO TRANSFORMERS

TYPE LS-19. Single plate to p.p. grids like 2A3, 6L6, etc. Split secondary. Primary 15,000 ohms. Secondary 95,000 ohms; 1.25:1 each side. Plus or minus 1 DB 20-20,000 CPS. Maximum level plus 12 DB. LS-1 case. Net \$ 15.68

TYPE LS-20. Single plate to single grid. Primary 15,000 ohms. Secondary 60,000 ohms; 2:1 turn ratio. Plus or minus 1 DB 20-20,000 CPS. Maximum level plus 10 DB. LS-1 case. Net \$ 16.66

TYPE LS-21. Single plate to p.p. grids. Split pri. and sec. Primary 15,000 ohms. Secondary 135,000 ohms; 3:1 overall. Plus or minus 1 DB 20-20,000 CPS. Maximum level plus 10 DB. LS-1 case. Net \$ 14.70

TYPE LS-40. Single plate to p.p. grids. Split secondary. Primary 15,000 ohms. Secondary 135,000 ohms; 3:1 overall. Plus or minus 1 DB 30-20,000 CPS. Maximum level plus 12 DB. LS-1 case. Net \$ 17.64

TYPE LS-22. P.P. plates to p.p. grids. Split pri. and sec. Primary 30,000 ohms plate to plate. Secondary 80,000 ohms; turn ratio 1.6:1 overall. Plus or minus 1 DB 20-20,000 CPS. Maximum level plus 18 DB. LS-2 case. Net \$ 21.56

TYPE LS-23. P.P. plates to p.p. grids. Medium level. Split pri. and sec. Primary 30,000 ohms plate to plate. Secondary 50,000 ohms; turn ratio 1.3:1 overall. Plus or minus 1 DB 20-20,000 CPS. Maximum level plus 15 DB. LS-1 case. Net \$ 18.62

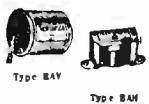
TYPE LS-26. Bridging line to 1 or 2 grids. Primary 5,000 ohms. Secondary 60,000 in 2 sections. Plus or minus 1 DB 15-20,000 CPS. Maximum level plus 15 DB. LS-1 case. Net \$ 17.64

LS-1 CASE. 3-1/8Lx2-5/8x3-1/4"H. MOUNTING 1-15/16"x2-7/16". SHPG. WGT. 5-1/2 LBS.

LS-2 CASE. 4-7/16Lx3-1/2x4-3/16"H. MOUNTING 2-11/16"x3-11/16". SHPG. WGT. 9 LBS.

U.T.C. CLASS A INPUT TRANSFORMERS

TYPE	APPLICATION	RATIO	CASE	WT.	NET
S-1	1 plate to 1 grid	3:1	G-2	2 1/2	\$ 3.92
S-2	1 plate to 2 grids	2:1	G-2	2 1/2	4.90
S-3	1 plate to 1 or 2 grids compact type	2:1	G-1	2	3.63
S-4	1 plate to 2 grids wide range response	1:1	G-3	3	5.59
S-5	Single or double button mike or line to 1 grid hum-bucking type	16:1	G-2	2 1/2	3.92
S-6	Single or double button mike or line to 1 grid, compact type	16:1	G-1	2	3.63
S-7	Single plate & carbon mike	3:1	G-2	2 1/2	5.39
	to 1 or 2 grids	16:1			



THORDARSON

Input Transformers



Single Plate to Single or Push-Pull Grids

TYPE	CASE	RATIO	MTG. CENTERS	NET
T-20A16	BAH	1:2	2	\$ 1.76
T-20A17	RAV	1:2	1 7/16	3.82
T-20A22	BAH	1:3	2 7/8	2.94
T-20A23	FGV	1:3	2 3/8	3.82

T-20A25 has split secondary, hum-bucking coil and core. T-20A16 & T-20A17 have wire leads. Primary current is 8 MA. Average Shpg. Wgt. 1 1/2 lbs.

Low Impedance Source (Microphone, Line or Mixer) to Single or Push-Pull Grids

TYPE	CASE	RATIO	APPLICATION	MTG. CTRS.	NET
T-20A00	BAH	1:10	Line or mic to single or PP grids	2"	\$ 2.06
T-20A01	FGV	1:20	Line or mic to sgl. grid	2 3/8	3.53
T-20A02	FGV	1:20	Line or mic to PP grids	2 3/8	3.82
T-20A05	RTV	1:10	Line or mic to single or PP grids	1 5/16	8.82
T-20A03	BAH	1:3.25	Single plate & mic or line to grid	2 3/8	2.94
T-20A04	BAH	1:80	Voice coil or mic to grid	2	1.70

For coupling a single source to the grid or grids of a Class "A" amplifier stage. Response for T-20A00, T-20A03 & T-20A04, 250-3500 CPS. T-20A01, T-20A02 & T-20A05 response, 60-7500 CPS. Average Shpg. Wgt. 1 1/2 lbs.

Interstage Transformers

T-20A29. Universal interstage transformer for auto radios. Has 1:1:1 ratio. Mounting centers 1 1/4". 2-1/8"x1Dx1-3/16"H. Net \$ 2.31

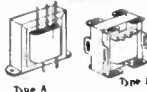
TYPE	CASE	RATIO	MTG. CENTERS	NET
T-20A19	BAH	1:3	2 3/8	\$ 2.31
T-20A25	RTV	1:1.41	1 5/16	7.31

Push-Pull Plates to Push-Pull Grids

T-20A24 FGV 1:3 PRI. 8 MA 2 3/8 \$ 4.11

Expander-Compressor Feedback Control

TYPE	CASE	APPLICATION	WEIGHT	NET
T-20A26	RTV	Feedback	1/2	\$ 8.81



STANCOR

PUSH-PULL INPUT

TYPE A-63C - Push-pull input transformer. Single plate (700 to 15,000 ohms) to push-pull class "A" grids. Ratio 3:1. Max. pri. O.C. 10 MA. Mounting A. Measures 1 5/8"Hx2 7/8"Wx1 1/2"D Shpg. Wgt. 0.7 lbs. Net \$ 1.7

PUSH-PULL INTERSTAGE

TYPE A-4155 - Push-pull inter-stage transformer. (7000 to 15,000 ohms) to push-pull class "A" grids. Ratio 3:1. Max. pri. D.C. 10 MA. Mounting L. Measures 2 1/16"Hx2 5/16"Wx1 3/4"D Shpg. Wgt. 1 lb. Net \$ 3.81

TYPE A-4774 - Push-pull inter-stage transformer. Push-pull plates (7000 to 20,000 ohms) to parallel or push-pull grids. Ratio 3:1. Max. pri. D.C. 10 MA. Mounting S. Measures 2 5/16"x2 7/8"Wx1 3/4"D. Shpg. Wgt. 1.2 lbs. Net \$ 2.7

INTERCOMMUNICATOR AND TRANSCIEVER

TYPE A-3833 - For transceiver input microphone & plate to grid. Primary impedance, 205000. Secondary impedance, 60000 ohms. 5 watts max. rating. Style A mounting. Measures 1 5/8"Hx2 7/8"Wx1 1/2"D. Shpg. Wgt. 0.7 lbs. Net \$ 2.51

MICROPHONE PICKUP OR LINE TO GRID

TYPE	APPLICATION	IMPEDANCE PRI.	SEC. RATIO	MTG. CTRS.	WT. NET
A-4705	S.B. mic to s.grid	200/70	80000	1:20	A 0.4 \$ 1.8
A-4706	S.B. mic to s.grid	100	60000	1:21.5	A 0.5 1.9
A-4708	D.B. mic to s.grid	200 CT	57000	1:17	J 0.7 2.5

"Your trade-in's worth more at the WALTER ASHE STORE"

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MODULATION TRANSFORMERS

U T C UNIVERSAL MODULATION TRANSFORMERS

Secondary carries class C current. Any modulator tubes to amp RF load.

TYPE	AUDIO POWER	SMPG. WT.	NET.
S-18	12 watts	3	\$ 5.88
S-19	30 watts	4	7.84
S-20	55 watts	6	12.74
S-21	110 watts	10	17.64
S-22	250 watts	23	27.44



CG VARIMATCH MODULATION UNITS

Will match any modulator tubes to an RF load. Combination tapped windings afford extremely wide range in impedance matching. Primary impedances from 500 to 20,000 ohms; secondary impedances 30,000 to 300 ohms.

TYPE	MAX. AUDIO POWER	MAX. CLASS C INPUT	TYPICAL MODULATOR TUBES	CASE NO.	SMPG. WT.	NET.
CM-0	12	25	30, 49, 79, 6A6, 53, 2A3, 6B5.	RC-100	4	\$ 8.33
CM-1	30	60	6V6, 6B5, 2A3, 42, 46, 6L6, 210	RC-125	4	10.78
CM-2	60	125	801, 6L6, 809, 4-40, T-20, 1698	RC-150	12	14.70
CM-3	125	250	500, 807, 845, T2-20, RK-30, 35-T	RC-152	20	17.64
CM-4	300	600	50-T, 203A, 805, 838, T-55, Z8-120	RC-175	20	32.34
CM-5	600	1200	805, 8P-300, 204A, HK-354, 250TH	TM12XPH 65	65	78.40

UNIVERSAL DRIVER TRANSFORMERS

TYPE	APPLICATION	CASE	SMPG. WT.	NET.
S-8	Single driver plate to push-pull grids.	G-3	3 lb.	\$ 5.39
S-9	Pushpull driver plates to grids of class B tubes up to 400 watts output.	G-4	4 lb.	6.37
S-10	Pushpull 56, 60C triode, 6C5 or similar plates to 45's, 2A3's or 6L6's, self or fixed bias.	G-3	3 lb.	5.39

CG VARIMATCH DRIVER TRANSFORMERS

TYPE	PRIMARY	TYPICAL OUTPUT TUBES	CASE NO.	SMPG. WT.	NET.
CG-51AX	All single tubes like: 6C5, 30, 49, 53, 79, 89, 6A6, 45, 46, 2A3	19, 30, 49, 79, 89, 2A3, 45, 46, 6L6, 42, 59	RC-87	3	\$ 7.84
CG-53AX	P.P. tube like: 45, 59, 2A3, 6B5, 6L6	46, 4-46, 841, 210, 801, RK-18, 800, 203A, 838, 805, 50T, 830B	RC-112	4	8.82
CG-50AX	50, 200, 500 ohm line	805, 838, 203A, ZD-120, 100TH, 800, 55T, RK-18	RC-112	4	9.80
CG-238AX	4-2A3, 4-45, 4-50, 2-211A, 2-845	4-805's, 4-838's, 4-203A's, 2-204's, 2-849's, 2-HP300's, 2-HP200's, 2-250TH's, 2-450TH's, 2-250TH, 2-450TH, 2-HP200, 2-HP300, 2-204A, 2-849	RC-150	20	17.64
CG-512	50, 200, 500 ohm line	2-HP200, 2-HP300, 2-204A, 2-849	RC-150	20	17.64

DRIVER TRANSFORMERS

TYPE	Primary Imp.	Reflected Secondary Impedance	+1 DB from	Max. Level	Case No.	Net
LS-7	Push pull 6C5, 6SN7 or similar ohms plates to A 2A3's, 6L6's, 5881's	.45 primary impedance turn ratio to 1.5:1 Pri. to Sec.	20-20,000	+25 DB	LS-2	\$ 19.60

STANCOR MODULATION



Multi-tapped units to correctly match output of modulator stage to load. Match all common impedances of class "B" modulator (2,000 to 20,000 ohms) to class "C" load of 2,000 to 20,000 ohms.



TYPE	MAX. WATTS	MAX. D.C.	MTG.	SMPG. WT.	NET.
A-3891	15	Pri.-100 MA Sec.-100 MA	D.	2.5	\$ 8.00
A-3892	30	Pri.-150 MA Sec.-150 MA	D	4.3	10.11
A-3893	60	Pri.-180 MA Sec.-180 MA	D	6.2	10.91
A-3894	125	Pri.-225 MA Sec.-225 MA	D	9.4	13.23
A-3898	300	Pri.-260 MA Sec.-260 MA	FS	37.9	41.54
A-3899	600	Pri.-500 MA Sec.-500 MA	FS	70.0	82.73

THORDARSON MODULATION TRANSFORMERS



TYPE	CASE	IMPEDANCE		POWER	WGT.	NET.
		TYPE 808 PRI.	TYPE 605 SEC.			
T-21M30	BAH	10,000 CT	4500	3	4	\$ 2.35
T-21M52	FGV	10,000 CT	4500	10	1 1/4	3.53
			3750			
			3000			
T-21M54	GGV	6,600 CT	4000	25	2 1/2	5.00
T-21M56	GGV	10,000 CT	6600	75	6 1/2	9.70
			3750			
T-21M58	KTV	15,000 CT	6250	100	13	18.23

Multi-Match Modulation (M) Transformers

For matching standard, medium & high power modulator tubes. Instructions included. All are PUV case style. T-21M60 and T-21M66 case style KTV.

TYPE	AUDIO POWER	PRI. MA EA.	MA SIDE	SEC. MA SERIES	MA P.A.R.	SMPG. WT.	NET.
T-21M60	15	50	50	100	3%	3	\$ 12.35
T-21M61	60	125	125	250	8%	8	19.40
T-21M62	125	210	160	320	16%	16	25.40
T-21M64	300	250	250	500	20	20	40.28
T-21M65	500	320	320	640	55	55	67.62
T-21M66	50 Pri.	500 ohms.	Sec. 5M-6M-7M-8M-9M-10M	11		11	18.82

THORDARSON Driver (D) Transformers

TYPE	CASE	DRIVER TUBE	OUTPUT RATIO	PRI. MA	MA PER 1/2 SEC.	NET.
T-20D75	BAH	1-30, 1-49, 1-C65, 1G6, 1-H4 (sgl. plate)	136, 19, 2-30, 106,	2.4:1	5	1 1/2 \$ 2.06
T-20D76	BAH	1-6N7, 6A6, 53, 6J5, (Sgl. plate)	1-6N7, 6A6, 53,	5.2:1	15	1/2 2.06
T-20D77	FGV	1-89, 6F6, etc. triode	792-46, 59	2.5:1	30	1 1/4 3.23
T-20D78	GGV	1-C65, 1-6F6 (Sgl. plate)	2-6F6, 25L6 Class AB2			
T-20D78	GGV	2-6F6 etc. 1-6A6, 53, 6N7, (Sgl. Class B) or PP pri.)	2-6F6, 2-6N7, 2-807	4:1	40	2 1/2 5.00
T-20D79	FGV	1-6N7 triode, 6N7 etc. triode	2-6N7, etc., 5.2:1		30	1 1/2 4.12
T-20D80	GGV	2-2A3, 45, 6L6 (PP Pri.)	203A, T20, T55, 805, 100TH, etc. (Class B)	3.2:1	100	3/4 5.29
T-20D81	GGV	PPR45, etc. (PP Pri.)	PPR05, 833 etc. (PP Class B Grids).	5:1	100	3/4 7.06
T-20D82	GGV	2-2A3, 45, 6C6, (PP Pri.)	PPR05, 833 etc. (PP Class B Grids)	3.2:1	100	3/4 5.88
T-20D83	PUV	Pri. 500 ohm line.	Ratio 1: 75:1, 85:1, 1:1.25, 1:1.4, 1:1.75, 1:2, 1:2.25, 1:2.5, 1:2.75, 1:3			22.34

154 READY FOR A NEW RECEIVER? - We'll Trade In Your Old One!

OUTPUT TRANSFORMERS

TRA

UTC

LINEAR STANDARD OUTPUT AUDIO TRANSFORMERS



LS-3 CASE
Length 5 1/2"
Width 3"
Height 4 1/2"
Mounting 4 3/8" x 5 1/2"
Screws 10-72
Cutout 3/4" dia
Unit Weight 15 lbs

LS-2 CASE
Length 4 7/8"
Width 3 1/2"
Height 4 1/2"
Mounting 4 1/2" x 4 1/2"
Screws 10-72
Cutout 3/4" dia
Unit Weight 15 lbs

TYPE LS-52. For p.p. 2A3, 6V6, 2A5 A prime. Primary 8,000 ohms. Secondary 500, 333, 250, 200, 125, 50, 30, 20, 15, 10, 7.5, 5, 2.5, 1.2 ohms. 15 watts. LS-2 case. Net \$ 18.62

TYPE LS-54. Same as above but has secondary of 30, 20, 15, 10, 7.5, 5, 2.5, 1.2 ohms. Net \$ 14.70

TYPE LS-55. For p.p. 2A3's, 6A5G's, 300A's, 275A's, 6A3's, 6L6's CASTG. Primary 5,000 and 3,000 ohms plate to plate. Secondary 500, 333, 250, 200, 125, 50, 30, 20, 15, 10, 7.5, 5, 2.5, 1.2 ohms. 20 watts. LS-2 case. Net \$ 18.62

TYPE LS-57. Same as above but has secondary of 30, 20, 15, 10, 7.5, 5, 2.5, 1.2 ohms. Net \$ 14.70

TYPE LS-58. For p.p. parallel 2A3's, 6A5G's, 300A's, 6A3's. Primary 2500 and 1500 ohms plate to plate. Secondary 500, 333, 250, 200, 125, 50, 30, 20, 15, 10, 7.5, 5, 2.5, 1.2 ohms. 40 watts. LS-3 case. Net \$ 37.24

TYPE LS-60A. For p.p. 2A3's, 6A3's, 6B4G's fixed bias, cathode follower drive. Primary 4600 ohms plate to plate. Secondary 15, 10, 7.5, 5, 3.75, 2.5, 1.2 ohms. 30 watts. LS-3 case Net \$ 23.52

TYPE LS-62A. Same as above but has secondary of 500, 125 ohms. Net \$ 19.60

TYPE LS-61. For p.p. GFC, class B 4G's, CASTG, 807-TR, 1614-TR. Primary 10,000 and 6,000 ohms plate to plate. Secondary 500, 333, 250, 200, 125, 50, 30, 20, 15, 10, 7.5, 5, 2.5, 1.2 ohms. 15 watts. LS-2 case. Net \$ 18.62

TYPE LS-63. Same as above but has secondary of 30, 20, 15, 10, 7.5, 5, 2.5, 1.2 ohms. 15 watts. LS-2 case. Net \$ 14.70

TYPE LS-6L1. For p.p. 6L6's self bias. Primary 9,000 ohms plate to plate. Secondary 500, 333, 250, 200, 125, 50, 30, 20, 15, 10, 7.5, 5, 2.5, 1.2 ohms. 30 watts. LS-3 case. Net \$ 29.40

TYPE LS-6L3. Same as above but has secondary of 30, 20, 15, 10, 7.5, 5, 2.5, 1.2 ohms. Net \$ 19.60

TYPE LS-6L4. For p.p. 6L6's fixed bias or p.p. parallel 6L6's self bias. Primary 3800 and 4500 ohms plate to plate. Secondary 500, 333, 250, 200, 125, 50, 30, 20, 15, 10, 7.5, 5, 2.5, 1.2 ohms. 55 watts. LS-3 case. Net \$ 44.10

ALL HAVE FREQUENCY RESPONSE OF 25-20,000 CPS EXCEPT LS-60A AND LS-62A WHICH HAVE RESPONSE OF 20-20,000 CPS, PLUS OR MINUS .2 DB

HIGH LEVEL MATCHING TRANSFORMERS

TYPE	APPLICATION	PRI. IMP.	SEC. IMP.	Z, 2dB	MAX. WATTS	CASE	SHPG. WT.	NET
LS-33	High level line matching	50, 125, 200, 250, 333, 500/20, 30, 50, 600, 125, 200, 250, ohms	1.2, 2.5, 5, 10, 15, 20, 300/600	20-	15	LS-2	9 \$	17.64
LS-34	High level line matching	50, 125, 200, 250, 333, 500/20, 30, 50, 600, 125, 200, 250, ohms	1.2, 2.5, 5, 10, 15, 20, 300/600	20-	30	LS-3	17	26.46

OUTPUT TRANSFORMERS



SECONDARY IMPEDANCES: 500, 200, 16, 8, 5, 3, 1.5 OHMS

TYPE	IMPED. OHMS, OVERALL	P.P.	TYPICAL TUBES	MAX. WATTS	CASE	SHPG. WT.	NET
CG-16	3000/5000	2A3, 6A3, 48, 6B4	20	RO-100	4	\$ 8.82	
CG-19	6000/10000	6N7, 6A6, 6F6, 89, 46, 6V6	20	RO-100	4	8.82	



UTC

UNIVERSAL OUTPUT TRANSFORMERS TO LINE AND VOICE COIL

(Secondary Impedances: 500, 15, 8, 2 ohms)

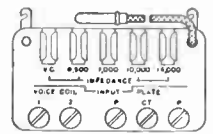
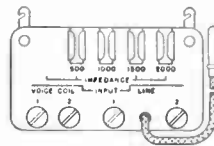
TYPE	MAX. WATTS	PRI. IMP.	TYPICAL TUBES	CLASS	CASE	SHPG. WT.	NET
S-14	10	2500 ohms	2A3, 6A3, 6A5, 6B4, 6L6, 6Y6, 25L6, 35L6	A	G-2	2 1/2	\$ 5.88
		4000 ohms	31, 43, 45, 48, 6V6, 12A5, 12A6	A			
		7000 ohms	33, 47, 42, 47, 59, 89, 2A5, 6AC5, 6F6, 6K6, 6N6, 7B5	A			
		10000 ohms	37, 38, 41, 1G5, 3C5, 6A4, 6N7	A			
S-15	12	4000 ohms	6Y6, 25L6	AB	G-2	2 1/2	\$ 5.39
		5000 ohms	45, 2A3, 6A3, 6A5, 6B4	AB			
		10000 ohms	30, 1H4, 6AC5G, 6B5, 19, 49, 53, 79, 89, 6A6, 6N7, 6Y7	AB			
S-16	30	3000 ohms	45, 48, 2A3, 6A3, 6A5, 6B4, 25L6	AB	G-4	4	\$ 6.86
		6000 ohms	42, 2A5, 6F6 triodes, 46, 59, Parallel 53, 6A6, 6N7	AB			
		9000/10000	42, 45, 2A5, 6AC5, 6B5, 6F6, 6L6, 6V6	AB			
S-17	75	3800 ohms	6L6's	AB2	G-5	6	\$ 8.82
		4500 5000	4-6L6's	AB1			
			46, 1608, 909	B			

MATCHING TRANSFORMERS

TYPE	APPLICATION	PRI. OHMS	SEC. OHMS	CASE	SHPG. WT.	NET
S-11	Single 50,000 triode, 6C5 of similar tube to line.	15000	200/500	G-2	2 1/2	\$ 4.41
S-12	Line to speaker 15W.	500, 2000, 4000	2, 4, 8, 15	G-2	2 1/2	4.90
S-13	Line to speaker 20W.	500, 2000, 4000	2, 4, 8, 15	G-4	4	6.86

Jensen TRANSFORMERS

ADJUSTABLE IMPEDANCE



TYPE "ZY"

TYPE "ZX"

TYPE ZX. Impedance values: voice coil, 4500, 7000, 10,000, and 14,000 ohms. All except voice coil are center-tapped for push-pull tubes. Uncased type. Pin-tip adjustment. Mountable on a speaker.

NUMBER	IMP.	POWER WATTS	FOR USE WITH	SHPG. WT.	NET
ZX-1092	6-8	10.0	P12-T, P10-S, P10-T, PR-R, PR-S, PR-SH, P8-T	2	4.23

TYPE ZY. Same as type ZX except matches line impedances. Impedances: 500, 1000, 1500, 2000 and voice coil. No center tap available. Cased type. Pin-tip adjustment. Mountable on a speaker.

NUMBER	IMP.	POWER WATTS	FOR USE WITH	SHPG. WT.	NET
ZY-2005	8	25.0	P15-N, P15-N6, P15-P, P12-N, P12-NH	4	\$ 8.33
ZY-2003	6-8	16.0	P15-Q, P12-R, P12-P, P12-Q, P12-QH, P12-S, P12-SH, P10-Q, P10-R, P8-P, P8-Q, JRP-40	3	6.06
ZY-3002	6-8	10.0	P12-T, P10-S, P10-T, PR-R, PR-S, P8-SH	2 1/2	4.23
ZY-4002	3-4	6.5	P8-U, P8-V, P6-T, P6-T6, P6-V	1 1/2	2.82

"Your trade-in's worth more at the WALTER ASHE STORE" (155)

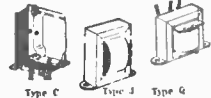


CHICAGO STANDARD

TRANSISTOR TRANSFORMERS

Smallest iron core audio transformers ever built. Designed primarily for transistor applications but can be used wherever low power is involved. Useful range, below 1 mc level. Constructed of extremely fine wire, wound on molded nylon bobbins, special nickel alloy steel laminations. They weigh less than 1/10 ounce, are only 3/8x3/8x3/8" in size. Five types available.

Number	Application	Pri. Imp.	Sec. Imp.	Pri. DC Res.	Sec. DC Res.	Net
LM-110	Interstage	20000	1000	1675	285	\$7.20
LM-111	Output or Match.	1000	50/60	120	9	6.17
LM-112	Hi-Imp. Mike In.	200000	1000	4000	195	8.09
LM-113	Interstage	3000	1000	1350	205	6.47
LM-114	Output or Match.	500	50/60	70	9	6.17



STANCOR HIGH FIDELITY TRANSFORMERS

New Stancor high fidelity output transformers which have excellent frequency response of 20-20,000 CPS within plus or minus 1.0 DB. Extremely low percentage of inter-modulation distortion over entire frequency range and at any power level. Maximum audio watts 50. Mounting C. Size: 3 1/2x4 1/4x4 1/2. Shpg. Wgt. 6 1/2 lbs.

TYPE	PRI. IMP. (P.P.)	SEC. IMP. OHMS	NET
A-8050	1500	8, 16	\$ 12.02
A-8051	2500	8, 16	12.02
A-8052	3000	8, 16	12.02
A-8053	5000	8, 16	12.02
A-8054	9000	8, 16	12.02
A-8072	7600	4, 8, 16	14.70

UNIVERSAL OUTPUT

TYPE	APPLICATION	MAX. PRI. DC	AUDIO WATTS	CLASS	MTG.	SHPG. WGT.	NET
A-3856	Single or push-pull plates (4000 to 14000 ohms) to voice coil.	35MA	4	Q	Q	0.4	\$ 1.70
A-3823	Single or push-pull plates (4000 to 14000 ohms) to voice coil.	40MA	8	Q	Q	0.7	1.82
A-3852	Push-pull plates (4000 to 14000 ohms) to voice coil.	40MA ea.	1/2 18	J	J	1.3	2.35
A-3830	Push-pull plates (3000 to 10000 ohms) to voice coil.	60MA ea.	1/2 20	J	J	1.8	3.18

PUSH-PULL PLATES TO VOICE COIL

TYPE	APPLICATION	MAX. PRI. DC	TYPICAL OUTPUT TURFS	MAX. AUDIO WATTS	CLASS	MTG.	SHPG. WGT.	NET
A-3301	3000 ohms to 500/15/8/4 ohms	55MA	CA3, CA3, 25L6	AD	30	C	3.7	\$6.00
A-3800	5000 ohms to 500/250/15/8/4 ohms	80MA	CA3, CA3, CL6	AB	30	C	3.7	5.12
A-3801	6600 ohms to 500/250/15/8/4 ohms	150MA	CL6	AB1	35	C	5.8	6.14

STANCOR-WILLIAMSON

ULTRA-LINEAR AMPLIFIER KIT

New model Ultra-Linear version of the famous Stancor-Williamson Amplifier. Audio power 25 watts. Uses newly developed Stancor Ultra-Linear output transformer type A-8072 which has screen taps for UL application. Flat to 40,000 CPS at 1 watt, 10 watts, 20 watts. Recommended power transformer and choke listed below. Pre-fabricated two-piece chassis is completely punched for all components. Instructions and list of other necessary parts can be had by requesting bulletin 479.

TYPE A-8072 Hi-F Output Transformer, Net.....	\$ 14.70
TYPE PC-8412 Power Transformer.....	8.41
TYPE C-1411 Choke.....	4.20
TYPE WML-8 Chassis (2).....	5.63
MISCELLANEOUS PARTS (less tubes), Approx.....	22.00
SET OF TUBES, Approx.....	9.00



THORDARSON



Special Duty — Single and Push Pull Plates to Voice Coil — Low Level

TYPE	CASE	Average Supp. Wgt. 2 lbs.		WATTS	NET
		PRIMARY	SEC.		
T-22545	BAH	1500-3000	3, 2-4	3	\$ 1.76
T-22546	BAH	3000-6000	3, 2-4	3	2.06
T-22547	BAH	6000-12000 C.T.	3, 2-4	3	2.06
T-22548	BAH	12000-25000 C.T.	3, 2-4	3	2.06
T-22556	BAH	8000/10000 C.T.	3, 2-4/6-8	8	2.94
T-22558	BAH	5000/7000 C.T.	3, 2-4/6-8	8	2.94
T-22540	BAH	2500/1900 C.T.	3, 2-4/6-8	8	2.94

Special Duty Output to Line and Voice Coil High Level

TYPE	CASE	Average Supp. Wgt. 3 lbs.		WATTS	NET
		PRIMARY	SECONDARY		
T-22564	GGV	10000 C.T.	3, 2-4/6-8/15/250/500	25	\$ 5.59
F-22566	GGV	8000 C.T.	3, 2-4/6-8/15/250/500	25	5.59
T-22568	GGV	6500 C.T.	3, 2-4/6-8/15/250/500	25	5.29
T-22570	GGV	5000 C.T.	3, 2-4/6-8/15/250/500	25	5.29
T-22572	GGV	3000 C.T.	3, 2-4/6-8/15/250/500	25	5.29
T-22578	GGV	3300 C.T.	3, 2-4/6-8/15/250/500	60	7.64

Universal Tubes to Multiple Voice Coil

TYPE	CASE	Average Supp. Wgt. 2 lbs.		WATTS	NET
		PRIMARY	SECONDARY		
T-22874	BHI	14000-2500 C.T.	1-30	25	\$ 4.70
T-22862	BHI	4000-1500	1-30	8	2.94
T-22866	BHI	14000-3000	3, 2-4/6-8	3	2.35
T-22887	BAH	14000-2000	3, 2-4/6-8	6	2.65
T-22888	BAH	14000-2000	3, 2-4/6-8	5	2.94

Matching-Line or Lines to Voice Coil

TYPE	CASE	Average Supp. Wgt. 2 lbs.		WATTS	NET
		PRIMARY	SECONDARY		
T-22880	BHI	500-600	3, 2-4/6-8/15	8	\$ 3.23
T-22882	BHI	2000-500	3, 2-4/6-8/15	25	5.00
T-22883	BAH	2000-500	3, 2-4/6-8/15	15	3.53
T-22884	BAH	2000-500	3, 2-4/6-8/15	5	3.23
T-22885	BAH	2000-500	3, 2-4/6-8/15	3	3.23

"24" SERIES SERVICE LINE, TUBE TO VOICE COIL.

TYPE	CASE	TYPICAL APPLICATIONS		PRI. IMP.	MA. WATTS	SEC. CTRS.	WGT.	NET
		MTG.	PRI. PRI.					
TS-24530	BAH	2A3, 6A3, 6B4, 6W6, 7A5, 25A5, 25L6, 35L6, 50B5, 50A5, 50L6, 70L7, etc.	2000	55	5	2	1/2	\$ 1.18
TS-24531	BAH	31, 45, 50, 71A, 354, 6A5G, 6V6, 7C5, 35L6, etc.	5000	40	5	2	1/2	1.18
TS-24532	BAH	46, 47, 59, 1C5, 1G5, 1G5, 1S4, 2A5, 6AC5, to 6P6, 6X6, 6N6, 6V6, 10000 etc.	7000	30	5	2	1/2	1.18
TS-24534	BAH	1P4, 1P5, 6P6, 6V7, 6Y7, etc.	15000	10	5	2	1/2	1.18

Small size replacement transformers for nidgets, size only 2-1/8x1 1/2x1-3/16". Supp. Wgt. 8 oz.

TYPE	CASE	APPLICATIONS	PRI. IMP.	WATTS	NET
TS-24548	BAH	1S4, 354	4-5000	1	\$ 1.18
TS-24549	BAH	1C5GT, 1C5GT, 1S4, 3F4, etc.	2-2000	1	1.18

UNIVERSAL MATCHING-LINE OR LINES TO VOICE COIL.

TYPE	CASE	PRIMARY	SECONDARY	WATTS	SIZE	NET
TS-24566	BHI	2000-1500-1000-500	3, 2 to 4, 8 to 8	10	2-13/16x 2 1/2x1-5/8"	\$ 2.94
TS-24562	BHI	3000-2500-2000-1500-1000	Pri. as 500, Sec. 10 to 8, Pri. as 1000 500	1000	3-3/8x2 1/2x 1 1/2	3.82

UNIVERSAL SERVICE REPLACEMENT

TYPE	CASE	APPLICATIONS	TYPICAL PRI. IMP.	PRI. MA. IMP.	SEC. IMP.	MAX. WATTS	WT.	NET
TS-24560	BHI	Single or Push-Pull Plates	4M, 7M, 8M, 10M, 14M CT	35	.1 to 4	29 ohms	1/2	\$ 2.06
TS-24581	BHI	Single or Push-Pull Plates	4M, 7M, 8M, 10M, 14M CT	40	.1 to 8	29 ohms	1	2.35

FILAMENT - MIKE TRANSFORMERS TRA

THORDARSON

Filament (F) Transformers



Type BAV



Type CAV



Type BAV

117 volt, 50/60 cycle primaries. T-21F02 has 7500 ins. RMS. T-21F20 and T-21F05 have 10,000 ins RMS. All others have 1500 ins. RMS.

TYPE	CASE	VOLTS	AMPS.	LBS.	NET
T-21F00	BAV	2.5 CT	5	1	\$ 2.94
T-21F01	BAV	2.5 CT	10	1	3.53
T-21F02	CAV	2.5 CT	10	2 1/4	4.70
T-21F03	BAV	5 CT	3	1	2.94
T-21F04	CAV	5 CT	8	2 1/4	4.41
T-21F05	CAV	5 CT	15	6 3/4	6.76
T-21F06	CAV	5 CT	3	2	4.70
T-21F07	CAV	5 CT	13	2 1/4	4.41
T-21F08	BAV	6.3 CT	21	5 1/4	7.06
T-21F09	BAV	6.3 CT	1	1	2.94
T-21F10	BAV	6.3 CT	3	2 1/4	4.70
T-21F11	CAV	6.3 CT	6	2 1/4	4.41
T-21F12	CAV	6.3 CT	10	2 1/4	4.41
T-21F14	BAV	6.3-5-2.5 (Tapped Secondary)	2.5	1	2.94
T-21F15	BAV	7.5 CT	4	1 1/4	3.82
T-21F16	CAV	7.5 CT	8	2 1/4	4.70
T-21F17	CAV	7.5 CT	12	4	6.17
T-21F18	CAV	10 CT	5	2 1/4	4.70
T-21F19	CAV	10 CT or 11 CT (Tapped Primary)	11	5 1/4	7.06

STANCOR FILAMENT TRANSFORMERS



TYPE	VOLTS	AMPS	INSUL.	MTG.	WT.	NET
P-6133	2.5 CT	5.0	7500	S	1.5	\$ 3.35
P-3060	2.5 CT	10.0	10000	B	2.5	4.06
P-3026	5.0 CT	3.0	2500	C	2.4	4.41
P-C135	5.0 CT	10.0	2500	N	3.0	4.15
P-6468	5.0 CT	30.0	2500	D	4.3	9.55
P-6137	5.25CT	13.0	2500	N	5.2	6.82
P-6134	6.3 CT	1.2	2500	A	0.8	1.70
P-3014	6.3 CT	3.0	2500	B	2.0	3.03
P-3044	6.3 CT	6.0	2500	B	2.4	3.67
P-6308	6.3 CT	10.0	2500	N	3.4	4.41
P-3016	10.0 CT	4.0	2500	B	3.3	4.50
P-3696	10.0 CT	5.0	2500	C	4.0	5.35
P-6139	10.0 CT	8.0	2500	N	4.9	5.47
P-8130	12.6 CT	2.0	1500	A	1.4	3.03
P-6469	25.2 CT	1.0	1500	A	1.4	2.88

TYPE	VOLTS	AMPS	INSUL.	MTG.	WT.	NET
P-3009	5.0 CT	3.0	2500	C	4.5	\$ 7.85
P-5008	5.0 CT	4.0	2500	C	3.8	6.91

TYPE P-1834-3 SPECIAL FILAMENT TRANSFORMER. Multi-tapped unit for tube checker. Secondary volts 1.1/1.4/1.5/2.0/2.5/3.0/3.3/5.0/6.3/7.0/7.5/12/25/30/35/50/70/85/110/117. Primary volts 125/115/105. Mounting A. Measures 2 5/8" H x 1 1/2" W x 2" D. Shpg. Wt. 2.4 lbs. Net \$ 8.35



UTC

FILAMENT TRANSFORMERS

UTC

CASE SHPG.

TYPE	FIL. 1	FIL. 2	FIL. 3	INSUL. NO.	CASE	SHPG.	WT.	NET
S-C4	2.5VCT-5A	2.5VCT-5A	5VCT-6A	3000V. G-5	G		6	\$ 8.33
S-C5	2.5VCT-5A	5VCT-4A	6.3VCT-3A	3000V. G-5	G		6	8.33
S-66	2.5VCT-10A	7.5VCT-6.5A		3000V. G-5	G		6	8.33
S-67	5VCT-6A	6.3VCT-5A		3000V. G-5	G		6	8.33
S-68	5VCT-3A	6.3VCT-4A	7.5VCT-5A	3000V. G-5	G		6	8.33
S-C9	6.3VCT-3A	7.5VCT-6.5A		3000V. G-5	G		6	8.33
S-70	6.3VCT-5A	6.3VCT-5A		3000V. G-5	G		6	8.33
S-71	2.5VCT-6A	2.5VCT-6A	2.5VCT-12A	1000V. G-7	10		10	11.76
S-72	5VCT-3A	5VCT-3A	5VCT-6A	500V. G-5	G		6	8.82

TYPE	VOLTS	CURRENT	INSUL.	NO.	WT.	NET
S-53	2.5 VCT	10A	1500 V.	G-3	3	\$ 4.61
S-54	5 VCT	4A	2500 V.	G-3	3	4.61
S-55	6.3 VCT	3A	1500 V.	G-3	3	4.61
S-56	7.5 VCT	3A	1500 V.	G-3	3	4.61
S-57	2.5 VCT	10A	10,000 V.	G-5	6	7.35
S-58	2.5 VCT	20A	10,000 V.	G-5	6	7.84
S-59	5 to 5.25 VCT	13A	5000 V.	G-5	6	7.35
S-60	5 to 5.25 VCT	22A	10,000 V.	G-7	10	10.78
S-61	7.5 VCT tapped	10A	3000 V.	G-5	6	7.84
S-62	10 VCT	10A	3000 V.	G-5	6	7.35
S-63	14 VCT tapped	10A	5000 V.	G-7	10	12.25

MICROPHONE CABLE TRANSFORMERS



UTC cable transformers are designed to be inserted in the cable circuit & are ruggedly constructed to withstand mechanical abuse. Cable connections (supplied less cable) are made through spring strain relief to terminal boards inside end caps. 1" diameter, 2 1/2" long, 1/2 lb.

- TYPE MC-1 - Primary tapped 30/50 & 200/250 ohms, secondary to grid, standard fidelity. Net \$ 8.82
- TYPE MC-2 - Primary tapped 30/50 & 200/250 ohms, secondary to grid, high fidelity. Net \$ 9.80

UTC

PHOTO FLASH TRANSFORMERS



Can be used for either standard (Amalg type) or trigger (Sylvania type) multiple flash bulbs. Circuit details included with transformer.

- TYPE PF-1 - Primary for 115 V. 50/60 cy. Secondaries for power supply delivering 2300 V. DC to condenser up to 100 mfd. (30 mfd. charges in 4 Sec.) Compound sealed in G-3 case 2 1/8x2 1/8" high. Weight 2 lbs. Net \$ 6.86
- TYPE PF-2 - For portable photoflash service. Primary tapped for 4 volt or 6 volt battery (full wave vibrator). Secondary for power supply delivering 2300 volts DC to condenser up to 60 mfd. (30 mfd. charges in 8 Sec. with 6 volts or 14 Sec. with 4 volts). Compound sealed in G-3 case. Weight 2 lbs. Net \$ 6.86
- TYPE PF-3 - Trigger transformer 15 KV peak. 7/8 O.D. x 3" long Weight 2 oz. Net \$ 4.90

MICROPHONE CABLE TRANSFORMERS



Rapid change from high to low impedance. Shielding minimizes hum pickup. Compact - rugged - inconspicuous.

TYPE	CASE	IMPEDANCE PRI.	SEC	RATIO	WGT.	NET
T-2AA0	2	30-60	50,000	1:31.6	3/4	\$ 17.64
T-2AA1	2	200-250	50,000	1:14.2	3/4	17.64

THORDARSON

PHOTO-FLASH POWER SUPPLY TRANSFORMERS

- TYPE T-22R42. Case BAV - Power Transformer. Pri. 117 V. 60 cy Sec. 2250 VDC-1.5 MA. 2.5 V @ 1.75A. Wt. 2 lbs. Net \$ 5.35
- TYPE T-22R43. Case BAV - Power Transformer. Pri. 117 V. 60 cy or 4 V. Vib.-Sec 1100VAC-1.5 MA DC. Wt. 1 1/2 lbs. Net \$ 7.35
- TYPE T-22R44. Case BAV. Ignition Transformer. Pri. 200 V. Condenser discharge. Sec. 15000 V. Peak. Wt. 1 lb. Net \$ 3.82

"Your trade-in's worth more at the WALTER ASHE STORE" (157)

CBS-HYTRON FILTER REACTOR TUBE

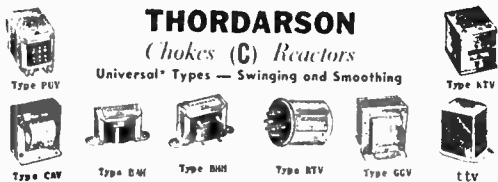
TYPE 6216 is an electron tube of beam power design with 9 pin miniature base. When used in appropriate circuits it will replace iron core filter choke rated at 12 henry, 100 MA., 350 ohms. Designed for military airborne or vehicular service. Especially rugged. May also be used as wide band video amplifier, VHF class C amplifier and multiplier, class A or B amplifier, pass tube in electronic voltage regulated supply, passive switching tube with low cut-off voltage, etc. Filament 6.3 V., 1.2 amps. Complete information on file.

Net \$ 3.50

THORDARSON

Chokes (C) Reactors

Universal Types — Swinging and Smoothing



TYPE	CASE	HENRIES	MA	MA	INS.	RES.	WGT.	NET
F-20C30	BAH	350	5	25	2000	5500	1 1/2	\$ 2.94
F-20C51	BAH	35	15	25	1200	1850	1 1/2	1.47
F-20C32	BAH	8	40	65	1200	450	1 1/2	1.47
F-20C33	BAH	12	80	100	2000	375	1 1/2	2.06
F-20C34	GGV	8	150	200	2700	145	2 1/2	3.82
F-20C35	GGV	6	200	300	2700	75	3 1/2	4.70
F-20C36	GGV	7	300	375	3500	60	6 1/2	6.47
F-20C37	PIV	10	500	600	7500	65	26	26.46

TUNED AUDIO CIRCUIT REACTOR

F-20C58	BAH	.75	0	10	1100			\$ 1.76
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Splatter (C) Suppressor Choke

TYPE	CASE	APPLICATION	INS.	WGT.	NET
F-20C10	KTV	Inductance .2-1.5 Hy. a 300 MA DC	9000	7	\$ 14.70
F-20C61	KTV	Inductance .2-1.5 Hy. @ 500 MA DC	9000	9	17.64
F-20C62	BHH	Inductance .2-1.5 Hy. @ 100 MA DC	2700	1 1/2	3.23

Band Pass Speech Filter

TYPE	CASE	APPLICATION	WGT.	NET
F-20C73	RTV	200 to 3500 Cy. Band Pass Filter	1/2	\$ 14.70

DUAL TONE CONTROL COMPONENTS

TYPE T-20C74 REACTOR. Used in tone compensating system in order to attenuate or boost independently bass or treble frequencies. Case type is similar to RTV except has wire leads. Or use with R-1068X dual hum-bucking control. 22 hrs inductance, 220 ohms DC res. 1/7 1/16" mounting centers. Shpg. wt. 1/2 lb. Net \$ 3.53

TYPE R-1068X DUAL CONTROL. For use with reactor listed above. Shaft length 3/8". Complete with diagram, list of parts for a tone compensating system, plus mounting hardware. Shpg. wt. 8 oz. Net \$ 2.35

THORDARSON TELEVISION TRANSFORMERS

- V-24S86 Vertical scanning output transformer. Case CAV. Size 5" RWx2"Dx3-1/8"H. Shpg. Wgt. 3 lbs. Net \$ 3.88
- V-24A87 Vertical blocking oscillator transformer. Case BAH. Size 1 1/2"x1 1/2"x1-3/8"H. Shpg. Wgt. 1 lb. Net \$ 1.47
- V-24A88. Same as TV-24A87. Fully enclosed and potted, with eads. Case TTV. Size 2 1/4"x1 1/2"Dx2-1/8"H. Shpg. Wt. 1 lb. Net \$ 2.35
- V-24A89 Horizontal blocking oscillator transformer. Case BAH. Size 1 1/2"x1 1/2"x1-3/8"H. Shpg. Wgt. 1 lb. Net \$ 1.76
- V-24A90. Same as TV-24A89. Fully enclosed and potted, with eads. Case TTV. Size 2 1/4"x1 1/2"Dx2-1/8"H. Shpg. Wt. 1 lb. Net \$ 2.65

W. MILLER R.F. Transformer for HV Power Supply

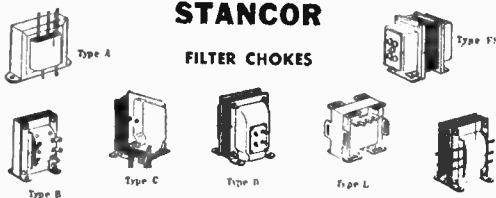
power supply transformer for use with TV receivers and CR scopes. No. 4525 for voltages to 4000 DC. No. 4526 for voltages to 10,000 DC (or 30,000 DC in voltage doubler tripler circuit). Type 1B3GT tubes are used as oscillator and RF oscillator circuit uses one or more 6V6 or 6Y6 in parallel. Long ripple control in output. Circuit diagram supplied with each coil.

No. 4525	HVRF to 4 KV	Size 1 1/2"x3 1/2"	Net \$ 4.95
No. 4526	HVRF to 30 KV	Size 2 1/2"x6"	8.25



STANCOR

FILTER CHOKES



SMOOTHING CHOKES FOR D.C. POWER SUPPLIES.

TYPE	INDUCTANCE % MADC	DC RES. IN OHMS	RMS INSUL.	MTG.	SHPG. NET WT.
C-1003	16 0 hy @ 50 MA	580	1500	A	L 1.1 \$ 1.44
C-1355	8 0 hy @ 75 MA	290	1500	L	L 1.0 1.79
C-1002	15 0 hy @ 75 MA	400	1500	A	L 1.7 1.91
C-1001	10 5 hy @ 110 MA	225	3000	A	L 2.3 2.62
C-2301	2 5 hy @ 130 MA	100	2000	A	L 1.0 1.82
C-1421	7 4 hy @ 140 MA	165	3000	C	L 2.5 3.62
C-2304	2 3 hy @ 150 MA	60	1500	A	L 1.0 1.88
C-1710	7 0 hy @ 150 MA	200	1500	A	L 2.2 2.91
C-1410	4 0 hy @ 175 MA	100	3000	C	L 2.4 3.70
C-2325	2 0 hy @ 200 MA	60	1500	A	L 2.0 2.26
C-2326	1 0 hy @ 300 MA	43	1500	A	L 2.0 2.56
C-1411	4 5 hy @ 200 MA	80	3000	C	L 3.5 4.20
C-1703	4 0 hy @ 250 MA	60	3000	B	L 4.2 5.35
C-1412	4 0 hy @ 250 MA	60	3000	C	L 4.3 6.14
C-2308	8 0 hy @ 300 MA	80	3000	C	L 7.8 8.09
C-1413	8 0 hy @ 300 MA	80	5000	D	L 7.8 8.09
C-1414	7 5 hy @ 400 MA	60	5000	D	L 11.8 11.64
C-1415	6 0 hy @ 500 MA	75	7500	FS	L 23.7 26.93

SWINGING CHOKES

VARYING INDUCTANCE FOR INPUT SECTION OF D.C. POWER SUPPLIES.

TYPE	HYS.	MA	OHMS	INSUL.	MTG.	WT.	NET
C-1718	13.5-3.5	15-150	130	2000	C	2.3	\$ 3.73
C-1400	12-2	17.5-175	100	3000	C	2.4	4.17
C-1401	12-2	20-200	80	3000	C	3.5	4.76
C-1645	12-2	20-200	90	5000	C	4.5	5.47
C-1702	12-2	25-250	60	3000	B	4.3	5.47
C-1402	12-2	25-250	60	3000	C	4.3	6.14
C-1720	20-4	30-300	80	3000	N	7.2	7.82
C-2307	20-4	30-300	80	3000	C	7.9	8.91
C-1404	17-3	40-400	60	5000	D	11.7	11.64
C-1405	16-4	50-500	75	7500	FS	24.3	23.93

U T C CHOKES



TYPE	SERV.	INDUC.	CURRENT	RESIS. OHMS	INS.	CASE NO.	SHPG. NET WT.
S-23	Audio	500 Hy.	5 MA	6000	1500 V.	G-2	3/4 \$ 3.72
S-24	P.P. Choke	500 Hy.	3 MA	4000	1500 V.	G-2	2 1/2 \$ 4.41
S-25	Filter	30 Hy.	30 MA	900	1500 V.	G-2	2 1/2 \$ 3.43
S-26	Filter	15 Hy.	60 MA	230	1500 V.	G-2	2 1/2 \$ 3.43
S-27	Filter	30 Hy.	75 MA	350	1500 V.	G-4	4 \$ 4.41
S-28	Filter	20 Hy.	100 MA	350	1500 V.	G-4	4 \$ 4.41
S-29	Filter	10 Hy.	175 MA	95	1500 V.	G-4	4 \$ 4.41
S-30	Swinging	5/25 Hy.	175 MA	95	1500 V.	G-4	4 \$ 4.41
S-31	Filter	20 Hy.	225 MA	120	2700 V.	G-5	6 \$ 5.88
S-32	Swinging	5/25 Hy.	225 MA	120	2700 V.	G-5	6 \$ 5.88
S-33	Filter	20 Hy.	300 MA	90	4000 V.	G-7	10 \$ 8.33
S-34	Swinging	5/25 Hy.	300 MA	90	4000 V.	G-7	10 \$ 8.33
S-35	Filter	20 Hy.	400 MA	85	5000 V.	G-8	14 \$ 11.76
S-36	Swinging	5/25 Hy.	400 MA	85	5000 V.	G-8	14 \$ 11.76
S-37	Filter	20 Hy.	550 MA	60	6000 V.	G-8	14 \$ 13.72
S-38	Swinging	5/25 Hy.	550 MA	60	6000 V.	G-8	14 \$ 13.72

Save Money With a 'Surprise' Trade-In Allowance on Your Used Test and Communication Equipment

Here's the way to get that new test equipment or communications equipment you've been wanting, and at amazingly big savings, too! Simply tell us what factory built units you have to trade, giving make and model number, indicate what new models you want. Then watch us fly into action and make you a "Surprise" Offer that's sure to please. Don't delay. Get your trade-in deal working right now!

58 NEED NEW TEST EQUIPMENT?-We'll Trade In Your Old Units!

POWER - AUDIO TRANSFORMERS

TRA



STANCOR

Type M Mounting

TYPE	SECONDARY		RECT.	FIL.	FIL. 2		A	SIZE	SHPG. WGT.	NET
	AC V.	DCMA V.			A.	V.				
PM8406	325-0-325	40	5	2	6.3	CT 2	2 1/2x3x3H	2 1/2	\$ 4.06	
PM8407	325-0-325	55	5	2	6.3	CT 2	2 1/2x3x3H	3 1/2	4.47	
PM8408	340-0-340	70	5	2	6.3	CT 2 1/2	2 1/2x3x3H	3 1/2	5.06	
PM8409	350-0-350	90	5	2	6.3	CT 3	3x3x3 1/2H	4 1/2	5.64	
PM8410	360-0-360	120	5	3	6.3	CT 3 1/2	3x3x3 1/2H	5 1/2	6.23	
PM8411	375-0-375	150	5	3	6.3	CT 4 1/2	3 1/2x4x4H	6	7.47	
PM8412	400-0-400	200	5	3	6.3	CT 5	3 3/4x4x4H	8 1/2	8.41	
PC8414	600-0-600	200	5	3	6.3	3	4x4x4 1/2H	8 1/2	10.61	

(PC8414 - Type C Mounting)

TYPE	SECONDARY		RECT.	FIL.	ADD. WIGGS.		A	SIZE	SHPG. WGT.	NET
	AC V.	DCMA V.			A.	V.				
P-6001	325-0-325	40	5.0	CT	2	2.5	CT 4	2 1/2x2 1/2x3H	2 1/2	\$ 5.29
P-6002	350-0-350	50	5.0	CT	2	2.5	CT 7 1/2	3x2 1/2x3H	3	6.59
P-6003	350-0-350	70	5.0	CT	2	2.5	CT 9	3x3x3 1/2H	4	7.33
P-6005	350-0-350	70	5.0	CT	3	2.5	CT 3 1/2	4 1/2x3x3 1/2H	5	5.14
P-6004	350-0-350	90	5.0	CT	3	2.5	CT 1 1/2	3x3x3 1/2H	4 1/2	6.79
P-6007	400-0-400	110	5.0	CT	3	2.5	CT 1 1/2	3 1/2x3x3 1/2H	5 1/2	8.32
P-6006	350-0-350	120	5.0	CT	3	2.5	CT 1 1/2	3 1/2x3x3 1/2H	5 1/2	8.79
P-6315	370-0-370	275	5.0	CT	3	6.3	CT 7	4 1/2x3 1/2x4 1/2H	10	11.47



UTC

COMBINED PLATE AND FILAMENT

TYPE	VOLTAGE	RECTIFIER FIL.	FIL. NO. 1	FIL. NO. 2	CASE NO.	SHPG. WT.	NET
S-39	490-400-0-400-490	5 V.-2A	2.5VCT	6.3VCT	G-7	10	\$ 14.70
S-40	525-425-0-425-525	5 V.-3A	6.3VCT	6.3VCT	G-7	10	14.70
S-41	600-0-600	5 V.-3A	7.5 V. tapped	6.3VCT	G-7	10	14.70
S-42	200 MA 600-525-0-525-600	5 V.-3A	7.5 V. tapped	6.3VCT	G-8	14	16.66
S-43	300 MA 525-0-525	5 V.-3A	6.3VCT	6.3VCT	G-9	23	24.50



THORDARSON



POWER TRANSFORMERS FOR SELENIUM RECTIFIERS

TYPE T-26R32. Secondary, AC volts 120. 50 MA DC. 6.3VCT 1.5A. 2" mounting centers. Shpg. Wgt. 1 lb. Net \$ 2.35

TYPE T-22R12. Secondary, AC volts 135. 75 MA DC. 6.3V 1.5A. Mounting Centers 3-1/8" Shpg. Wgt. 1-1/2 lbs. Net \$ 3.23

Universal and Special Duty to Line

TYPE	CASE	PRIMARY	SECONDARY	WATTS	NET
T-22876	BHH	14000-3000 C.T.	500-600	25	\$ 4.41
T-22890	FGV	20000 C.T.	125/200/500-600CT	3	3.53
T-22892	RTV	20000 C.T.	125/200/500-600CT +10DB	7.35	

STANCOR

TUBE TO LINE

TYPE	APPLICATION	IMPEDANCE IN	MAX. OHMS DC	PRI. AUDIO WATTS	AUDIO WATTS	MTG.	SHPG. WGT.	NET
A-3841	Single plate to line	Pri.-7000/6000/5000/4000/2500.	Sec.-500.	60MA	10	J	1.5	\$ 4.41



LINE TO VOICE COIL

TYPE	APPLICATION	IMPEDANCE IN	MAX. OHMS	PRI. AUDIO WATTS	AUDIO WATTS	MTG.	SHPG. WGT.	NET
A-3882	Line to voice coil	Pri.-500/333/250	Sec.-15/8/4	25	D	2.4	\$ 5.47	
A-3883	Line to voice coil	Pri.-500	Sec.-15/8/6/4	25	J	1.1	2.76	



UTC

PLATE, CRYSTAL, PHOTOCELL, AND BRIDGING TO LINE

TYPE LS-27. Single plate to multiple line. Primary 15,000 ohms. Secondary 50, 125/150, 200, 250, 333, 500/600 ohms. Plus or minus 1 DB 30-15,000 CPS. Maximum level plus 15 DB. Hum level minus 74 DB. Net \$ 17.64

TYPE LS-50. Single plate to multiple line. Primary 15,000 ohms. Secondary 50, 125/150, 200, 250, 333, 500/600 ohms. Plus or minus 1 DB 20-20,000 CPS. Maximum level plus 15 DB. Hum level minus 74 DB. Net \$ 15.19

TYPE LS-51. Push pull low level plates to multiple line. Primary 30,000 ohms plate to plate. Secondary 50, 125/150, 200, 250, 333, 500/600 ohms. Plus or minus 1 DB 20-20,000 CPS. Maximum level plus 16 DB. Hum level minus 74 DB. Net \$ 18.62

TYPE LS-38. Crystal microphone or pickup to multiple line, with internal equalizer. Primary 100,000 ohms. Secondary 50, 125/150, 200, 250, 333, 500/600 ohms. Equalized for crystal. Maximum level plus 10 DB. Hum level minus 74 DB. Net \$ 19.60

TYPE LS-39. Photocell, high-mu triode, diode or overbiased detector to multiple line. Primary 100,000 ohms. Secondary 50, 125/150, 200, 250, 333, 500/600 ohms. Plus or minus 1 DB 20-20,000 ohms. Maximum level plus 10 DB. Hum level minus 74 DB. Net \$ 17.64

TYPE LS-150. Bridging from 50 to 500 ohm line to line. Primary 4,000 ohms bridging. Secondary 50, 125/150, 200, 250, 333, 500/600 ohms. Plus or minus 1 DB 15-30,000 CPS. Maximum level plus 15 DB. Hum level minus 74 DB. Net \$ 17.64

TYPE LS-151. Bridging from 50 to 500 ohm line to line. Primary 16,000 ohms bridging. Secondary 50, 125/150, 200, 250, 333, 500/600 ohms. Plus or minus 1 DB 15-30,000 CPS. Maximum level plus 18 DB. Hum level minus 74 DB. Net \$ 15.68

MIXING TRANSFORMERS

TYPE	APPLICATION	PRI. IMP.	SEC. IMP.	MAX. LEVEL	CASE NO.	SHPG. WT.	NET
LS-30	Mixing, low impedance mike, pickup, or multiple line	50, 125/150, 200, 250, 333, 500/600 ohms	50, 125/150, 200, 250, 333, 500/600 ohms	+17DB	LS-1	4	\$ 15.68
LS-30X	As above	As above	As above	+15DB	LS-1	4	18.62
LS-31	Three isolated lines or pads to multiple line.	200, 250, 300, 333, 500/600 ohms ea. primary	50, 125/150, 200, 250, 333, 500/600 ohms	+15DB	LS-1	4	17.64
LS-31X	As above	As above	As above	+14DB	LS-1	4	21.56
LS-32	Mixing, low impedance mike, pickup, or parallel mixer to multiple line.	2.5, 5, 10, 15, 22, 150, 200, 300, 333, 500/600 ohms	50, 125/150, 200, 250, 333, 500/600 ohms	+15DB	LS-1	4	21.56

ALL TYPES ARE LS-1 CASE, SIZE 3-1/8x2-5/8x3-1/4"H. MOUNTING 1-15/16"x2-7/16". SHPG. WGT. 5-1/2 LBS.



UTC HYBRID AND REPEAT COILS

TYPE	APPLICATION	PRI. & SEC. IMPED.	±1db	MAX. LEVEL	CASE NO.	SHPG. WT.	NET
LS-130	Line to line for isolating split balanced & unbalanced circuits; balanced for max. reduction cross talk (70DB)	500/600 ohms	30-	+10DB	LS-1	4	\$ 19.64
LS-141	Three sets of balanced windings for hybrid service, center-tapped.	500/600 ohms	30-	+10DB	LS-1	4	17.64
LS-142	Line to line & to push pull grids for hybrid service.	500/600 ohms & 60,000 ohms	30-	+10DB	LS-1	4	17.64
LS-143	Hgh. efficient cy ring & talk repeat coil, for low freq. ringing.	500/600 ohms & 500/600 ohms	Efficient	+25DB	LS-2	9	\$ 14.70

"Your trade-in's worth more at the WALTER ASHE STORE"

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STANCOR
Plate Transformers



Type	DC VOLTS	DCMA ICAS	PRI. VOLTS	MTG.	SHPG. WT.	Type FS	NET
P-8020	1500 1250	625	115-230	FS	65.0		\$ 66.06
P-8041	1750 1500	625	115-230	FS	65.5		65.03
P-8033	2000 1750	625	115-230	FS	77.0		81.35
P-8074	2500 2000	375	115-230	FS	62.8		79.09
P-8035	2500 2000	575	115-230	FS	80.0		86.38
P-9920	2500	450	117 625 (Replacement Unit for BC-610 Xmitter)	Y	122.0		135.15



UTC PLATE TRANSFORMERS—BIAS

Primary 115 V. — 50/60 Cycles

TYPE	VOLTAGE	DC CURRENT	CASE NO.	SHPG. WT.	NET
S-44	575-525-0-525-575	500 MA	G-9	23	\$ 21.56
S-45	900-750-0-750-900	200 MA	G-8	14	16.66
S-46	1000-750-0-750-1000	300 MA	G-8	23	20.58
S-74	1175-500-0-500-1175	150 MA	G-10	27	19.60
S-47	1500-1250-1000-0-1000-1250-1500	300 MA	G-10	27	26.46
S-48	1500-1250-1000-0-1000-1250-1500	500 MA	G-11	31	33.32
S-49	2100-1800-1500-0-1500-1800-2100	300 MA	G-11	34	32.34
S-50	3000-2500-0-2500-3000	300 MA	G-12	57	49.60
S-51	Will supply any bias voltage from 15 to 100 VDC	200 MA	G-5	6	10.78
S-52	Will supply any bias voltage from 75 to 400 VDC	200 MA	G-7	10	13.72



THORDARSON
Plate (P) Transformers



TYPE	CASE	SEC. VOLTS	1 CAS DCMA	SHPG. WGT.	NET
T-21P75	PUV	3000-0-3000 2400-0-2400 1500-0-1500	650	135	\$ 108.78
T-21P77	PUV	3000-0-3000 2450-0-2450	425	77	73.50
T-21P79	PUV	1875-0-1875 1560-0-1560	550	60	51.74
T-21P81	PUV	1560-0-1560 1265-0-1265	425	57	52.92
T-21P82	PUV	2335-0-2335 1700-0-1700	300	50	52.92
T-21P85	PCV	855-0-855 730-0-730	425	19	22.05
T-21P83	PCV	1560-0-1560 1250-0-1250	300	33	29.40
T-21P87	GGV	835-0-835 636-0-636	300	19	12.05
T-21P89	GGV	550-0-550	250	6	7.94
T-21P91	PCV	1200-0-1200 900-0-900	200	22	37.04
T-21P83	GGV	1075-0-1075 500-0-500	110	10	13.23
T-21P96	JUV	LO 2450-0-2450 HI 3000-0-3000	500	63	78.79

**ELECTRO
ENGINEERING
WORKS**



Type	Volts DC Out of Filter ICAS	MA	Primary	Shpg. Wgt.	Net
E-5105	2000-1750-1500	500	115-230 VAC, 60 cy.	30 lbs.	\$ 44.50
E-5706	2500	500	115-230 VAC, 60 cy.	34 lbs.	42.50
E-5707	3000	650	115-230 VAC, 60 cy.	40 lbs.	59.00



THORDARSON
Universal Replacement Power (R) Transformers



TYPE	SECONDARY VOLTS	DCMA	RECT. V.	FIL. A.	NO. 2 V. A.	MTG. A. CTRS.	WGT.	NET
T-22R60	250-0-250	40	5	2	6.3CT 2	2x2 $\frac{1}{2}$	1 $\frac{1}{2}$	\$ 4.70
T-22R11	275-0-275	50	5	2	6.3CT 2.5	2x2 $\frac{1}{2}$	2 $\frac{1}{2}$	4.70
T-22R2	300-0-300	70	5	2	6.3CT 3	2x2 $\frac{1}{2}$	2 $\frac{1}{2}$	5.88
T-22R4	300-0-300	90	5	2	6.3CT 3.5	2x2 $\frac{1}{2}$	3	6.17
T-22R5	300-0-300	120	5	3	6.3CT 5	2x3 $\frac{1}{2}$	4 $\frac{1}{2}$	6.76
T-22R6	325-0-325	150	5	3	6.3CT 5	2x3 $\frac{1}{2}$	5 $\frac{1}{2}$	7.06
T-22R7	350-0-350	200	5	3	6.3CT 6	3x3 $\frac{1}{2}$	7 $\frac{1}{2}$	8.82
T-22R8	250-0-250	40	5	2	2.5CT 4	2x2 $\frac{1}{2}$	1 $\frac{1}{2}$	4.70
T-22R9	275-0-275	50	5	2	2.5CT 7.5	2x2 $\frac{1}{2}$	2 $\frac{1}{2}$	5.29
T-22R10	325-0-325	85	5	2	2.5CT 9	2x2 $\frac{1}{2}$	3 $\frac{1}{2}$	8.23
T-22R11	325-0-325	120	5	3	2.5CT 12.5	2x2 $\frac{1}{2}$	5 $\frac{1}{2}$	8.82

Primary 117 VAC, 50/60 Cy. AGF Case

TYPE	SECONDARY VOLTS	DCMA	RECT. V.	FIL. A.	NO. 2 V. A.	MTG. A. CTRS.	SHPG. WGT.	NET
T-22R30	275-0-275	50	5	2	6.3 CT 2.5	2x2 3/16	3 $\frac{1}{2}$	\$ 5.88
T-22R31	360-0-360	80	5	2	6.3 CT 2.5	2x2 11/16	4	7.06
T-22R32	350-0-350	110	5	2	6.3 CT 3	2x2 11/16	5 $\frac{1}{2}$	7.94
T-22R33	375-0-375	160	5	3	6.3 CT 3	3x3 9/16	7 $\frac{1}{2}$	9.41
T-22R34	385-0-385	225	5	3	6.3 CT 5	3x3 9/16	10	11.76
T-22R35	400-0-400	340	5	6	6.3 CT 7	3x4 1/16	12 $\frac{1}{2}$	12.94
T-22R36	600-0-600	200	5	3	6.3 CT 5	3x3 5/16	6 $\frac{1}{2}$	10.58

Primary 117 VAC, 50/60 Cy. GGV Case



THORDARSON
TELEVISION REPLACEMENT AND EXPERIMENTAL Power (R) Transformers



TV-22R40.	Case GGV. AC volts 1800, DCMA 2. Rect. fil. 2.5V-1.8A, fil. no. 2 6.3V-.6A, tapped at 2.5V-2.1A. Size 3-5/32x3-3/8x3-13/16H. Shpg. Wgt. 6 lbs. Net \$ 10.58
TV-24R91.	Case GGV. AC volts 1800, DCMA 4. Rect. fil. 2.5V-1.75A. Size 2-5/8x2-7/8Dx3-1/8H. Shpg. Wgt. 3 lbs. Net \$ 7.35
TV-24R92.	Case GGV. AC volts 2400, DCMA 10. Rect. fil. 2.5V-1.75A. Size 3/8x3-7/8Dx4/8H. Shpg. Wgt. 6 lbs. Net \$ 9.41
TV-24R94.	Case AGF. AC volts 380-0-380, DCMA 210 or AC volts 200-0-200, DCMA 90. Rect. fil. 5V-6A; fil. no. 2 5V-3A; fil. no. 3 two 6.3V-5A windings. Size 3/8x4/8Dx5-7/8H. Shpg. Wgt. 17 lbs. Net \$ 17.05
TV-24R98.	Case AGF. AC volts 350-0-350, DCMA 175. Rect. fil. 5V-2A and 6.3V-3A; fil. no. 2 6.3V-7A; fil. no. 3 6.3V-9A. Size 3/8x4/8Dx5-7/8H. Shpg. Wgt. 15 lbs. Net \$ 11.76

NEW UNIVERSAL REPLACEMENT TELEVISION POWER TRANSFORMER

Through the use of a multi-tapped high voltage secondary winding rated at 295 MA, it is possible to cover a wide range of high voltage secondaries. Two 5-volt rectifiers and four 6.3V. windings make this transformer adaptable to practically any circuit. Covers over 90% of present and proposed TV sets. Long U/L approved color coded leads, universal mounting brackets, dual internal shielding, color coded diagram printed on transformer. Primary, 117 VAC 50/60 cy. HV secondary 420-0-420, 360-0-360, 300-0-300 @ 295 MA. 1V secondary 5 V @ 6 amps., 5 V @ 3 amps., and four 6.3 V @ 3 amps. Size 3-3/4x1-1/2x4-7/8"D. Shpg. Wgt. 13 lbs. TYPE T-26R00 Net \$ 14.76



Variable D.C. Power Supply Component

TYPE T-22R50. Case BAH. Special Phase Shift Transformer. 117V. Pri. 3 1/8" Mtg. Wgt. 1 $\frac{1}{2}$ lbs. Net \$ 4.41

REGULATING TRANSFORMERS

TRA

UTC STEP DOWN AUTO-TRANSFORMERS

With 6-ft. cord and female receptacle. 230-240 to 110-120 volts - 50/60 cycle.



TYPE	APPLICATION	SHPG. WT.	NET
R-4	85 watt capacity	4	\$ 5.59
R-42	125 watt capacity	5	6.17
R-43	175 watt capacity	5 1/2	6.86
R-44	250 watt capacity	6 1/2	8.33

ISOLATION TRANSFORMERS

Ideal for isolating line noise, AC-DC sets, etc. Excellent electrostatic shielding. 2000-volt breakdown test. 6-ft. cord and female receptacle. For operation on 110 120 VAC 60 cycle.



TYPE	RATING	SHPG. WT.	NET
R-73	100 watts	4 lbs.	\$ 8.33
R-74	250 watts	12	14.70
R-75	600 watts	20	23.52
R-76	1200 watts	30	38.22



UTC VARITRAN CONTROL UNITS

Designed for 115 or 230 volt service. Output voltages 0-130 and 0-260 volts. As voltage is reduced, wattage is reduced correspondingly. Maximum current can be taken at any point from 0 to 20 volts and from 95 to 130 volts.

TYPE	INPUT VOLTAGE	OUTPUT VOLTAGE	MAX. WATTS	AMP'S.	FIGURE	SHPG. WT.	NET
V-1	115 V.	0-130	570	5	6	12	19.60

Voltage Changer (V) Transformers



TYPE	Pri. volts	Sec. volts	Cont. duty	SHPG. WT.	NET
T-23V21	230-250 (50/60 cy.)	110-125.		5	\$ 6.47
T-23V22	100	110		6 1/4	7.64
T-23V23	150	110		10 1/4	8.82
T-23V24	250	110		13	13.52



Isolation (V) Transformers—Plug-In Adjustment

TYPE	CASE	SEC. VOLTS	VA	WGT.	NET
T-23V25	GVW	115	100	13	\$ 12.35
T-23V26	PVV	115	300	19	23.52

VIBRATOR POWER TRANSFORMERS



For direct replacement in automobiles, etc.



TYPE	CASE	PRIMARY	HIGH VOLTAGE SECONDARY	WGT.	NET
T-23R20	CAV	6-8 VDC	250 VDC, 50 MA	2 1/2	\$ 4.70
T-23R22	CAV	6-8 VDC	325 VDC, 75 MA	3 1/2	5.29
T-23R24	GVV	6-8 VDC	325 VDC, 135 MA	6 1/2	9.70

STANCOR

AC-DC VIBRATOR POWER TRANSFORMER

TYPE P-616G - Secondary AC volts 350-0-350. 6 volts DC or 117 volts AC primary input. Filament - 6.3 volts @ 2.25 amps. Type C mounting. Secondary DC to filter rated at 55 MA. Shpg. Wgt. 6.9 lbs. Net \$ 9.51



SUPERIOR POWERSTAT

VARIABLE VOLTAGE TRANSFORMERS



FIG. 1

FIG. 2

FIG. 3

FIG. 4

FIG. 5

TYPE 20

FIG. 1. Smallest in physical and electrical size of entire POWERSTAT line. 5 terminals permit connecting for clockwise or counter-clockwise rotation for increasing voltage up to or above line voltage. Input 115 VAC 60 cy., single phase. Output 0-135 or 0-115 volts, 3.0 amps, 0.4 KVA. 50/60 cy. Size 3 1/2 x 3 1/2. Shpg. Wgt. 6 lbs. Net \$ 12.50

TYPES 116 - 216

FIG. 2. Type 116 may be used for either wall or bench mounting. Has on-off switch, input cord-plug, fuse in the output lead, protective screening around unit. Input 115 VAC 50/60 cycle, single phase; output 0-135 volts, 7 1/2 amps, 1.0 KVA. Output voltage can be limited to line voltage. Size overall, 6 1/2 x 5-7/8 dia. Shpg. Wgt. 12 lbs. Net \$ 23.00

FIG. 216. Similar to Model 116 but input voltage is 230 VAC 50/60 cycle, single phase. Output 0-270 volts, 3.0 amps, 0.8 KVA. Net \$ 26.00

TYPES 116U - 216U

FIG. 3. Uncased models of Types 116 and 216. Output receptacle, on-off switch, input cord-plug, fuses and screening are not supplied. These are meant to be back-of-panel mounted. Ratings are same as cased type. Shpg. Wgt. 12 lbs. Net \$ 18.00

Type 116U - For 115 VAC operation. Net \$ 20.00
Type 216U - For 230 VAC operation.

TYPES 1156B - 1256B

FIG. 4. Type 1156B. Input 115 VAC 50/60 cy., output 0-135 VAC, 45 amps, 6.1 KVA. Size: 15-1/8" D, 8-3/8" H. Shpg. Wgt. 80 lbs. Net \$ 118.00

FIG. 4. Type 1256B. Input 115/230 VAC 50/60 cy. Output 0-270 VAC, 28 amps, 3.27 KVA. Size: 15-1/8" D, 8-3/8" H. Shpg. Wgt. 80 lbs. Net \$ 118.00

TYPE UC1M

FIG. 5. A compact portable source of variable AC voltage. Has metered input and output with two output receptacles and pair of binding posts which supply voltage as regulated by knob. Excellent for laboratory and industrial uses, radio and TV servicing. Continuously variable output 0-135 volts. Housed in sturdy black crackle metal case. Complete with 6-ft. cord and plug, renewable fuse. Rated at 7 1/2 amps, 1 KVA. Shpg. Wgt. 17 lbs. Net \$ 53.00

TYPES 136 - 236



Type 136. Input 120 VAC, 50/60 cy., single phase. Output 0-120 140V, 20 amps, 2.4/2.8 KVA. Net \$ 30.00
Type 236. Input 240 VAC 50/60 cy., single phase. Output 240 280V, 9 amps, 2.2/2.5 KVA. Or 120V 120 VAC 50/60 cy., output 0-280 VAC 1.1 KVA. Net \$ 30.00

TYPE 10

Fills a need where a relatively low power control is required. Rotation of the brush tap delivers any desired ACV output voltage from 20% to, or above line voltage, up to 10%. Stepless. Easily installed in back-of-panel position, single hole mounting. RATING: Input, 120 volts-60-cycles-one phase. Output, 0-120-132 volts, 1.25 amperes, 150/165 VA. Net weight 1 lb., 13 oz. Size, 3" diam., 2-1/16" deep. Shpg. Wgt. 3 lb. Net \$ 8.50



TYPE 10 Powerstat

Net \$ 8.50

ISOTAP ISOLATION TRANSFORMER

MODEL MP-25A. Made particularly for television servicing. Combination hi-lo isolation transformer. Consists of a 250 VA auto transformer winding and a 275 VA isolated secondary winding. Primary line voltage range is 105-130 volts, 7 position rotary switch. Size 5-3/8" x 5 W 4-3/8" D. Shpg. Wgt. 14 Lbs. Net \$ 17.00



REGULATING TRANSFORMERS

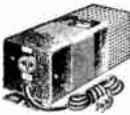
SOLA CONSTANT VOLTAGE TRANSFORMERS



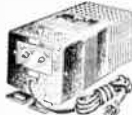
Type 3



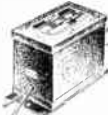
Type 4



Type 2



Type 21



Type 1

STANDARD
UNITS

SOLA

LOW HARMONIC DISTORTION



TYPE CVH

Designed for use with equipment that requires a stabilized source of undistorted voltage. Less than 3% harmonic distortion in the output voltage wave. Output voltage is essentially sinusoidal. Operation is automatic and instantaneous, requires no maintenance. 60 cy. operation.

Sola C.V. transformers provide a smooth flow of carefully regulated power to electrical equipment automatically without manual adjustments. Designed to maintain their output constant to within plus or minus 1% for a total primary variation of 30%. Load circuit is isolated both electrically and physically from input.

ENCLOSURE TYPE	NO.	VOLT AMPERES	VOLTAGE INPUT	VOLTAGE OUTPUT	SHPG. WT.	NET
12	301002	15	95-125	6.3	6	20.00
	301003	15	95-125	115.0	6	20.00
1	30488	15	95-125	6.0	8	16.00
	30492	15	95-125	6.3	8	16.00
	30498	15	95-125	115.0	8	16.00
2	30804	30	95-125	115.0	14	18.00
	30805	60	95-125	115.0	15	25.00
	30806	120	95-125	115.0	20	33.00
	30888	150	95-125	115.0	25	40.00
21	30881	25	95-125	6.3	14	17.00
	30882	50	95-125	6.3	15	24.00
22	30885	60	95-125	115.0	14	25.00
	30886	120	95-125	115.0	18	33.00
3	30807	250	95-125	115.0	31	52.00
	30807	250	190-250	115.0	31	52.00
	30808	500	95-125	115.0	43	81.00
	30808	500	190-250	115.0	43	81.00
4	30809	1000	95-125	115.0	115	135.00
	30809	1000	190-250	115.0	115	135.00
	30811	2000	95-125	115.0	215	245.00
	30811	2000	190-250	115.0	215	245.00

NUMBER	OUTPUT CAPACITY IN V. A.	INPUT VOLTS	OUTPUT VOLTS	SHPG. WT.	NET
5003	60	95-125	115	35	35.00
5004	120	95-125	115	45	44.00
5005	250	95-125	115	60	70.00
5006	500	95-125	115	70	105.00
5008	1000	95-125	115	160	175.00
5010	2000	95-125	115	320	310.00

"TeloVolt" FOR TV SETS

Eliminates fluctuations in line voltage. Automatically shuts off or on when set is turned off or on. Set plugs into transformer. Type 7202 may be operated over range of 175 VA to 300 VA; Type 7201 operates over range of 110 VA to 180 VA.



NUMBER	OUTPUT CAPACITY IN V. A.	INPUT VOLTS	OUTPUT VOLTS	L. W. H.	SHPG. WT.	NET
7201	180	95-130	115-120	8-1/8-4-7/8	19	\$ 27.60
7202	300	95-130	115-120	9-1/8-4-7/8	26	30.00

CAPACITOR TYPE



Type CVH transformers deliver filament and plate voltages regulated within ±3% or less, with line voltage variations of 100-130 volts. Type CVE transformers are furnished complete with capacitors and capacitor mounting brackets. Provide a compact regulated source of plate and filament windings on the same cord. No adjustments or maintenance. Operation is automatic and instantaneous. All operate from input of 100-130 volts 60 cycle.

Type CVE
7100 Series

NUMBER	OUTPUT CAPACITY IN V. A.	DC INPUT VOLTS TO FILTER	DC INPUT FILAMENT WINDINGS 6.3 VOLTS	DC INPUT WINDINGS 5 VOLTS	SHPG. WT.	NET
7104	42	275 VDC	2.5A CT	2.0A	5 1/2	\$ 10.15
7106	75	385 VDC	3.0A CT	2.0A	8 1/2	12.60
		410 MA				
7107	210	380 VDC	#1 4.0A	3.0A	19	19.60
		250 MA	#2 8.0A			

SOLAVOLT A.C. VOLTAGE SUPPLY with Harmonic Filter

Adjustable regulated AC voltage supplies with harmonic filters. Each unit is provided with attached input cord and plug; line on-off switch; one standard receptacle for a fixed regulated 115 volts, other standard receptacle is for a variable regulated output of 0-130 volts. A pair of jacks with regulated variable output of 0-130 volts for connecting instruments with plugs or wire type leads is on panel. Any or all outputs may be used simultaneously within total maximum rating. All outlets are regulated ±1%. Total harmonic distortion is less than 3%. Regulated response 1.5 cycles or less. Units are self-protected against short circuits. Except for the rotor of the auto transformer there are no moving parts, no manual adjustments and no tubes or other expendable parts. Portability is a feature which adapts these units for use in shop or laboratory. Size 50105, 7 1/2 x 11 1/2 x 14 1/2; size 50106, 7 1/2 x 12 1/2 x 14 1/2 x 3/8" D.

ADJUSTABLE
REGULATED



NUMBER	PRIMARY	SEC. #1 FIXED	SEC. #2 ADJUSTABLE	CAP.	MAX. CURRENT	SHPG. WT.	NET
50105	95-125	115 V	0-130 V	250 VA	3A	50	\$ 110.00
50106	95-125	115 V	0-130 V	500 VA	7.5A	70	153.00

RAYTHEON

Voltage Stabilizers



A precision built unit which provides maximum voltage stabilization with minimum variation in output voltage. Completely automatic, no adjustments to make. Delivers controlled output voltage to plus or minus 1/2% of their full rating. Will stabilize input voltages varying as much as 15% from nominal value. Will correct varying input voltage within 1/20th of a second. Cannot be damaged by overload. Input 95-130 VAC 60 cycle.

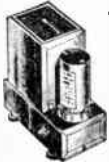
TYPE	CAPACITY WATTS	SIZE	SHPG. WT.	NET
VR-6110	15	5 1/2 x 2 1/2 x 3 1/4 H	6 lbs.	\$ 16.00
VR-6111	30	7 1/2 x 3-3/8 x 4-1/8 H	7 1/2	18.00
VR-6112	60	7 1/2 x 3-3/8 x 4 3/4 H	10	25.00
VR-6113	120	7 1/2 x 3-3/8 x 6 H	18	33.00
VR-6114	250	12-3/8 x 5 x 7 1/2 H	30	52.00
VR-6115	500	12-3/8 x 5 x 9 H	50	81.00
VR-6116	1000	14 x 13 1/2 x 9 1/2 H	130	135.00



MALLORY VIBRATORS

Number	Net	Number	Net
245	\$ 4.53	852	Uso 870
246	Uso 4546	853	Uso 859
247	4.54	854	\$ 2.88
248	Uso 4548	859	2.76
G248	5.03	G859	3.23
249	Uso 4549	W859	2.88
270B	Uso 271HD	860	Uso 870
271HD	5.38	866	Uso 859
273C	5.38	868	Uso 870
273D	5.38	869	Uso 859
294	2.88	870	2.88
F294	4.20	G874	2.88
298	3.73	901M	Uso 859
500P	Uso 859	902M	Uso 859
501P	Uso 859	903M	2.44
505P	2.88	952W	Uso 953W
506P	3.73	953W	4.53
507P	Uso 859	954	4.53
508P	Uso 859	1100	2.88
509P	2.44	1501	Uso 4501
716	4.53	G1501	Uso G4501
725C	5.03	T4000	Uso T4003
G725C	5.85	T4002	6.29
742	4.53	T4003	5.76
743	4.53	4501	3.73
748	4.53	G4501	4.06
G749C	5.85	4502	4.06
W759	4.85	4546	4.53
825C	4.06	4548	4.53
826C	3.73	4549	4.53
F826C	4.53	G4549	5.03
G826C	4.53		

MALLORY VIBRAPACKS



VP-552, VP-G-556 Type Vibrapack

VP-555, VP-557 Type Vibrapack

Portable power supply with built-in noise suppression equipment. Type VP-555H also includes an efficient low frequency hum filter. Type VP-557 incorporates first input filter condenser only. Others do not include high voltage hum filter. Used extensively for furnishing "B" power for portable, aircraft, farm and marina transmitters and receivers. Easy to install. Shpg. Wgt. 8 lbs.

Type	Input	Voltage Output	M.A. Output	Net
VP-551-SR	6.3	125-150	100	\$ 18.23
		175-200		
VP-552-SR	6.3	225-250	100	20.29
		275-300		
VP-553-TR	6.3	125-150	100	22.34
		175-200		
VP-554H-TR	6.3	225-250	100	23.52
		275-300		
VP-555H-TR	6.3	300	200	47.01
VP-557-TR	6.3	400	150	47.01
VP-G556-SR	12.6	225-250	100	21.17
		275-300		

ATTENUATORS

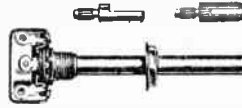


"T" Pad

"L" Pad

Designed to provide a simple method of controlling the level of low impedance audio circuits, and for volume control of microphones, phonographs, PA systems and allied equipment. DC dissipation rating, 4 watts. May be used with amplifier having peak rating of 15 watts.

MIDGETROLS



SINGLE MIDGETROLS

Round shaft controls for replacement use in audio, tone, similar circuits of electronic equipment. Carbon element. Case size $\frac{1}{4}$ " dia. Shaft 2 1/2" long, $\frac{1}{8}$ " dia. Easily cut to desired length. Power rating: linear taper $\frac{1}{2}$ watt, others $\frac{1}{4}$ watt.

No.	Ohms	Taper	No.	Ohms	Taper
U3	1M	2	U40	100M	2
U4	1M	4	U41	100M	4
U5	1500	2	U415	125M	4
U6	2M	4	U42	150M	1
U7	2500	2	U43	200M	4
U8	3M	4	U44	250M	1
U12	5M	1	U45	250M	2
U14	5M	4	U46	250M	4
U18	10M	1	U48	500M	1
U19	10M	2	U50	500M	4
U20	10M	4	U51	750M	1
U21	15M	1	U53	1 Meg.	1
U22	15M	2	U54	1 Meg.	4
U24	20M	1	U155	1.5 Meg.	4
U26	20M	4	U55	2 Meg.	1
U28	25M	2	U56	2 Meg.	4
U29	25M	4	U255	2.5 Meg.	4
U33	50M	1	U57	3 Meg.	1
U34	50M	2	U59	3 Meg.	4
U35	50M	4	U65	5 Meg.	1
U36	75M	1	U67	5 Meg.	4
U39	100M	1	U82	10 Meg.	4

Any type, Net Each \$.73

SINGLE TAPPED MIDGETROLS

No.	Ohms	Top At	No.	Ohms	Top At
UT-420	250M	50M	UT-443	1 Meg.	450M
UT-425	350M	70M	UT-450	2 Meg.	125M
UT-429	500M	50M	UT-448	2 Meg.	250M
UT-427	500M	100M	UT-454	2 Meg.	400M
UT-430	500M	150M	UT-449	2 Meg.	600M
UT-431	500M	225M	UT-451	2 Meg.	900M
UT-440	1 Meg.	200M	UT-457	3 Meg.	900M
UT-438	1 Meg.	300M			

Any type, Net Each \$ 1.09

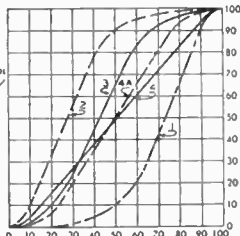
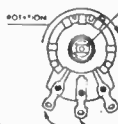


Midgetrol Switches

For all *U* Controls

NO.	US-26	SPST	Terminal	Net \$.35
NO.	US-26T	SPST, Dummy	Terminal	.44
NO.	US-27	DPST		.35
NO.	US-28	DPST		.44

TAPERS for Carbon Controls



"T" PAD ATTENUATORS

NO.	NET	OHMS	IMP.
T2	2.50	2	L2
T4	2.50	4	L4
T6	2.50	6	L6
T8	2.50	8	L8
T15	2.50	15	L15
T50	2.50	50	L50
T100	2.50	100	L100
T200	2.50	200	L200
T250	2.50	250	L250
T500	2.50	500	L500
T600	2.50	600	L600
T1000	2.50	1000	L1000
T2000	2.50	2000	L2000
T3000	2.50	3000	L3000

"L" PAD ATTENUATORS

NO.	NET	OHMS	IMP.
L2	2.21	2	L2
L4	2.21	4	L4
L6	2.21	6	L6
L8	2.21	8	L8
L15	2.21	15	L15
L50	2.21	50	L50
L100	2.21	100	L100
L200	2.21	200	L200
L250	2.21	250	L250
L500	2.21	500	L500
L600	2.21	600	L600
L1000	2.21	1000	L1000
L2000	2.21	2000	L2000
L3000	2.21	3000	L3000

DUAL CONCENTRIC MIDGETROLS



Designed to exactly duplicate original equipment quickly and easily. Both types $\frac{1}{4}$ " dia., carbon element. US26 switch attaches easily. Necessary hardware and fittings included in front section.

FRONT SECTION

No.	Ohms	Taper	No.	Ohms	Taper
UF13L	1000	4	UF54L	50M	4
UF13R	1000	2	UF753L	75M	4
UF152L	1500	4	UF15A	100M	1
UF152R	1500	2	UF15R	100M	2
UF23L	2000	4	UF15L	100M	4
UF23R	2000	2	UF254A	250M	1
UF252L	2500	4	UF254L	250M	4
UF252R	2500	2	UF55A	500M	1
UF33L	3000	4	UF55R	500M	2
UF33R	3000	2	UF55L	500M	4
UF53R	5000	2	UF16A	1 Meg.	1
UF53L	5000	4	UF16L	1 Meg.	4
UF73R	7000	2	UF155A	1.5 Meg.	1
UF14L	10M	4	UF155L	1.5 Meg.	4
UF14R	10M	2	UF26A	2 Meg.	1
UF253R	25M	2	UF26L	2 Meg.	4
UF253L	25M	4	UF255L	2.5 Meg.	4
UF34A	30M	1	UF46A	4 Meg.	1
UF54A	50M	1	UF106L	10 Meg.	1

Any type, Net Each \$ 1.18

REAR SECTION

UR13L	1000	4	UR15L	100M	4
UR15L	1500	4	UR254A	250M	1
UR23L	2000	4	UR254L	250M	4
UR352L	3500	4	UR354A	350M	1
UR352R	3500	2	UR55A	500M	1
UR53R	5000	2	UR35L	500M	4
UR53L	5000	4	UR16A	1 Meg.	1
UR14R	10M	2	UR16L	1 Meg.	4
UR14L	10M	4	UR26A	2 Meg.	1
UR253L	25M	4	UR26L	2 Meg.	4
UR55A	50M	4	UR255L	2.5 Meg.	1
UR753L	75M	4	UR36A	3 Meg.	1
UR15R	100M	2	UR56L	5 Meg.	4

Any type, Net Each \$.59

NO. DS-36, 3" extension shaft. Used to couple front and rear Midgetrol section together to make single shaft, dual control for scope, etc. Net.....\$.26

SINGLE TAPPED CONTROLS FRONT SECTION

No.	Ohms	Tapped At
UF751-T52	750	500
UF252-T52	2500	500
UF252-T23	2500	2000
UF254-T753	250M	75M
UF55-T54	500M	500M
UF55-T254	500M	250M
UF16-T25	1 Meg.	200M
UF16-T154	1 Meg.	150M
UF1A-T35	1 Meg.	300M
UF26-T55	2 Meg.	500M

Any type, Net Each \$ 1.32

REAR SECTION

UR254-T753	250M	75M
UR354-T54	350M	70M
UR55-T54	500M	50M
UR55-T154	500M	150M
UR55-T254	500M	250M
UR16-T1253	1 Meg.	125M
UR16-T25	1 Meg.	200M
UR16-T254	1 Meg.	250M
UR16-T35	1 Meg.	300M
UR26-T25	2 Meg.	200M
UR26-T95	2 Meg.	900M

Any type, Net Each \$.73



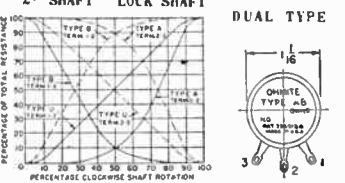
ECONOMY P.A. CONTROL

Designed primarily for inexpensive sound equipment including all types of fading & mixing systems. All units have metal shaft 1 7/8" from end of 3/8" bushing. Limited to input applications. Maximum power rating for all units of 1 watt.

MX-146	50	"Delta-T" Pad	\$ 2.94
MX-147	200	"Delta-T" Pad	2.94
MX-148	500	"Delta-T" Pad	2.94
MX-149	600	"Delta-T" Pad	2.94

OHMITE

2 WATT MOLDED COMPOSITION POTENTIOMETER-TYPE AB



Exceptionally high quality variable resistance controls available in 2" round shaft or screwdriver shaft with lock nut. Designed for industrial, laboratory, and other uses where reliability is important. May be used as rheostat or potentiometer. Power rating 2 watts. Low noise level. Unit is dustproof, splashproof and unaffected by heat, cold, moisture or length of service. Voltage rating 500 volts. All resistors shown are 10% tolerances with exception of 5 meg, 2.5 meg, and 1 meg which are 20%.

Ohms Res.	Linear Shaft	Taper 2" Shaft	A Taper 2" Shaft	B Taper 2" Shaft
50	CU-5001	CU-5001		
100	CU-1011	CU-1011		
250	CU-2511	CU-2511		
500	CU-5011	CU-5011		
1,000	CU-1021	CU-1021		
2,500	CU-2521	CU-2521		
5,000	CU-5021	CU-5021		
10,000	CU-1031	CU-1031		CB-1031
25,000	CU-2531	CU-2531		CB-2531
50,000	CU-5031	CU-5031		CB-5031
.10 Meg	CU-1041	CU-1041	CA-1041	
.25	CU-2541	CU-2541	CA-2541	
.5	CU-5041	CU-5041	CA-5041	
1.0	CU-1052	CU-1052	CA-1052	
2.5	CU-2552	CU-2552	CA-2552	
5.0	CU-5052	CU-5052		
Net	\$ 2.50	\$ 1.91	\$ 2.21	\$ 2.21

No. CS-1 SPST Switch Net \$.65

Dual units with 2" round shaft. Independent electrical connections. Linear taper. All ure 10% tolerance except CCU-1052 which is 20%.

RESISTANCE	TYPE NUMBER
10,000/10,000	CCU-1031
25,000/25,000	CCU-2531
50,000/50,000	CCU-5031
.1 Meg/.1 Meg	CCU-1041
.25 Meg/.25 Meg	CCU-2541
.5 Meg/.5 Meg	CCU-5041
1.0 Meg/1.0 Meg	CCU-1052
Any above type,	Net Each \$ 5.73

OHMITE

DIRECTION INDICATOR POTENTIOMETER-MODEL RB-2



Compact unit used in 6V potentiometer circuit as a transmitting element, to indicate remotely position of rotary beam. Indicating meter can be 0-1, 0-1.5 or 0-2 DCMA (with marked scale). Potentiometer attaches to beam mechanism, 360° rotation. 2-5/16" dia. Complete instructions included.

MODEL RB-2 Net \$ 5.75



CLAROSTAT

WIRE-WOUND CONTROLS

CLAROSTAT 10 SERIES

4 watts, linear taper wire wound controls. Molded phenolic case, size 1 1/2" diam. and 1 1/2" deep. 2" round shaft. Loss switch.

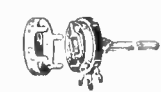
Type	Res.	Net	Type	Res.	Net
10-1	1	\$ 1.09	10-750	750	\$ 1.09
10-2	2	1.09	10-1,000	1,000	1.09
10-4	4	1.09	10-1,500	1,500	1.09
10-6	6	1.09	10-2,000	2,000	1.09
10-10	10	1.09	10-2,500	2,500	1.09
10-15	15	1.09	10-3,000	3,000	1.09
10-20	20	1.09	10-5,000	5,000	1.09
10-25	25	1.09	10-7,500	7,500	1.09
10-30	30	1.09	10-10K	10K	1.09
10-40	40	1.09	10-15K	15K	1.09
10-50	50	1.09	10-20K	20K	1.29
10-60	60	1.09	10-25K	25K	1.29
10-75	75	1.09	10-30K	30K	1.68
10-100	100	1.09	10-40K	40K	1.68
10-200	200	1.09	10-50K	50K	1.68
10-300	300	1.09	10-75K	75K	2.06
10-400	400	1.09	10-100K	100K	2.06
10-500	500	1.09			

LOUDNESS CONTROL



A continuously compensated control which boosts lows and highs as volume is reduced yet maintains depth and brilliance even at whisper level. Control consists of 3 variable resistance units which operate from one common shaft. Easy to install, requires only three connections. Complete instructions included. Depth behind panel 1 3/4" (no switch), 2-5/16" with switch.

TYPE LC-1 Control less Switch	Net \$3.85
TYPE 76-1 SPST Switch	.35
TYPE 76-2 DPST Switch	.35



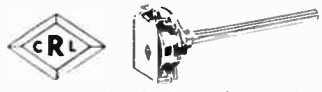
IRC WIRE-WOUND CONTROLS

2 watts. Diam. 1 1/4". Shaft length 2 1/4". Loss switch. Shpg. Wgt. 8 gr.

No.	Ohms	No.	Ohms
W-2	2	W-30	30
W-3	3	W-40	40
W-4	4	W-50	50
W-5	5	W-60	60
W-6	6	W-75	75
W-8	8	W-100	100
W-10	10	W-200	200
W-15	15	W-300	300
W-20	20	W-400	400
W-25	25	W-500	500
		W-750	750
		W-1000	1000

Any type, Net Each.....\$.73
NO. 51. SPST Switch, Not.....\$.36

COMPENTROL



The CRL COMPENTROL is a volume control and special Printed Electronic Circuit designed to compensate for the loss of highs and lows when music is played thru TV, radio sets (5 tubes or more, AC-DC), audio amplifiers, and radio-phonograph combinations at normal listening level. This control will boost highs and lows even at whisper level, making for better listening. Easy to install. Available in 1 meg, and 1/2 meg. sizes, with or without switch. Ideal for high fidelity uses.

CI-60 Plain type, 1/2 Meg. Net \$ 2.45
CI-60S Switch type, 1/2 Meg. 2.45
CI-70 Plain type, 1 Meg. 2.45
CI-70S Switch type, 1 Meg. 2.94

Centralab



BLUE SHAFT RADIOHMS

Model "B" Blue Shaft Radiohms are small, compact controls which will fill every service, industrial and experimental need. 15/16" in diameter. Element rated at 1/2 watt. 3" fluted mill shaft.

No.	Ohms	Taper	No.	Ohms	Taper
B-4	500	C1	B-44	150000	C2
B-5	1000	C1	B-46	200000	C1
B-6	2000	C1	B-50	250000	C1
B-7	2500	C1	B-51	250000	C2
B-8	3000	C1	B-58	500000	C4
B-10	5000	C1	B-59	500000	C1
B-13	6500	C1	B-60	500000	C2
B-14	10000	C1	B-68	1 Meg.	C5
B-15	10000	C2	B-69	1 Meg.	C1
B-16	10000	C6	B-70	1 Meg.	C2
B-18	10000	C4	B-75	2 Meg.	C1
B-20	15000	C6	B-76	2 Meg.	C2
B-22	20000	C1	B-77	2 Meg.	C5
B-24	20000	C6	B-83	2 1/2 Meg.	C1
B-26	25000	C1	B-84	3 Meg.	C1
B-31	50000	C1	B-85	3 Meg.	C2
B-32	50000	C2	B-86	4 Meg.	C1
B-35	75000	C1	B-87	5 Meg.	C1
B-40	100000	C1	B-89	7 Meg.	C7
B-41	100000	C2	B-98	10 Meg.	C1

Any above controls, Net \$.73
Except B-60 and B-70 Net \$.59

BLUE SHAFT TAPPED CONTROLS

No.	Ohms	Taper	Tap	No.	Ohms	Taper	Tap
BT-53	250K	C11	125K	BT-73	1 Meg	C13	300K
BT-55	250K	C13	75K	BT-74	1 Meg	C16	100K
BT-57	350K	C12	70K	BT-78	2 Meg	C11	1 Meg
BT-65	500K	C11	250K	BT-79	2 Meg	C12	400K
BT-66	500K	C12	100K	BT-80	2 Meg	C13	600K
BT-67	500K	C13	150K	BT-81	2 Meg	C15	200K
BT-71	1 Meg	C11	500K	BT-82	2 Meg	C16	1 Meg

Any above controls, Net \$ 1.69



MODEL BB TWIN RADIOHMS SINGLE SHAFT

Two regular Radiohms are mounted in tandem on a single shaft which rotates both sections. Switch types are not furnished. Rating 1/2 watt. Shaft, 3" long from end of 3/8" bushing. Universal fluted full length mill.

Number	Ohms	Ohms	Net
	Front	Rear	
BB-190	100,000	25,000	\$ 1.47
BB-101	10,000	50,000	1.47
BB-102	100,000	100,000	1.47
BB-103	250,000	250,000	1.47
BB-104	500,000	500,000	1.47

BLUE SHAFT "FASTACH" SWITCHES

No. KB-1	SPST	Net \$.29
No. KB-2	DPST	.35
No. KB-3	SPDT	.44

CRL BLUE SHAFT TAPERS

C-1, Linear, uniform resistance change from either end.
C-2, Semi-log (audio) 10% center. Volume or tone.
C-4, Modified log with 20% center. Volume or tone.
C-5, RH modified log 20% center. Reverse of C-4. Decreases with clockwise rotation.
C-6, Modified log with 40% center. Volume control or antenna shunt and "C" bias.
C-7, Symmetrical-straight line, slow resistance change at either end. Tone control.
C-11, Taper tapped at 50% rotation, 50% resistance. Used as tone control or in TV.
C-12, Taper tapped at 37 1/2% rotation, 20% resistance. Volume control with tone tap.
C-13, Taper tapped at 50% rotation, 30% resistance. Volume control with tone tap.
C-15, Taper tapped at 50% rotation, 10% resistance. Volume control with tone tap.
C-16, Taper tapped at 62% rotation, 50% resistance. Volume control with tone tap.

TRANSMITTING & RECEIVING LINE WIRE

BELDEN transmission line cables



CELLULINE

UHF-VHF LEAD-IN

Cellular polyethylene core and thick polyethylene outer wall make this 300 ohm line absolutely waterproof; no end seal required. Lowest losses possible at UHF and VHF frequencies. Both conductors are 7x28 stranded "Weldohm" annealed copper-coated steel wire.

Per Foot, Net.....	\$.05
100 Ft. Coil.....	4.41
500 Ft. Coil.....	22.05
1000 Ft. Coil.....	44.10



8204

TYPE 8204. 2-conductor #18 wire. For use with doublet receiving antenna. Tinned copper 7x26 flexible stranding. Low loss rubber insulation. White cotton braid, weather-resistant.

25 Ft. Coiled and Cartoned, Net.....	\$ 1.06
100 Ft. Spool.....	3.37
500 Ft. Spool.....	15.29



8205

TYPE 8205. 2-conductor #22 cable. Tinned copper 7x30 flexible stranding. For use with doublet receiving antenna. Rubber insulation. Black cotton braid, weather-resistant.

25 Ft. Coiled and Cartoned, Net.....	\$.73
100 Ft. Spool.....	2.50
500 Ft. Spool.....	10.66



8209

TYPE 8209. 2-conductor #18 wire. For use with doublet receiving antenna at low frequencies to reduce noise pickup. Tinned copper 7x26 flexible stranding. Low loss rubber insulation. Tinned copper braid shield. White cotton braid, weather resistant compound.

15 Ft. Coiled and Cartoned, Net.....	\$ 1.06
50 Ft. Coiled and Cartoned.....	2.94
100 Ft. Spool.....	5.58
500 Ft. Spool.....	26.46

Federal "PIPELINE"



TYPE TV-1185. Federal's new "Pipeline of the Air". Contains most of field inside "silver" polyethylene sheath, utilizing dead-air space between copper leads and reducing usual loss of reception caused by snow, ice, and moisture on line. Very effective where weather conditions cause rapid deterioration of ordinary line. Resists salt laden air and air polluted by chemical or gas vapors. 7/28, 300 ohm impedance, excellent for UHF signals.

Per Foot Net.....	\$.04
Per 100 Feet.....	3.75

Federal K-III



New 300 ohm shielded and balanced TV lead-in. Minimizes noise, snow, and ghosts due to transmission line pickup. Better pictures under all weather conditions. Minimizes auto and electrical interference.

Per Foot Net.....	\$.13
Per 100 Feet.....	12.50



8225

TYPE 8225. 300 ohm transmission lead for receiving antennas for TV and FM. Exceptionally low losses at high frequencies. Bare copper, flexible stranding; conductors are parallel. Polyethylene plastic insulation. 2 conductor #20 (7X28).

Per Foot, Net.....	\$.03
50 Ft. Coil.....	1.18
75 Ft. Coil.....	1.76
100 Ft. Coil.....	2.16
500 Ft. Spool.....	9.90
1000 Ft. Spool.....	18.77

ULTRA-WELDOHM



8235

TYPE 8235. UHF transmission cable. 300 ohm cable, 20 gauge, 7x28 stranded copper coated steel wire which can be handled easily without destroying electrical characteristics, easily stripped, may be twisted without distortion to get proper line balance. Low wet loss, withstands rain and snow. Resists sun, oxidation and wind. Covered with heavy brown solid polyethylene plastic insulation.

Per Foot, Net.....	\$.05
100 Ft. Spool.....	4.41
500 Ft. Spool.....	22.05



8230

No. 8230. Extra strong 300 ohm impedance TV lead-in wire. Ideal for long runs from antenna to receiver. "Weldohm" copper coated steel wire, flexible stranding. Polyethylene plastic insulation. Parallel conductors. Size 20 (7x28). Over 2 1/2 times flex life and over 1 1/2 times break strength of copper equivalent.

Per Foot, Net.....	\$.03
50 Ft. Coil.....	1.18
75 Ft. Coil.....	1.76
100 Ft. Coil.....	2.16
500 Ft. Spool.....	9.90
1000 Ft. Spool.....	18.77

extension cords



1705 1701 1702

1751

Size 18, type POSJ - 64. Extra-flexible brown all-rubber parallel lamp cord. Both ends unbreakable rubber. Does not mar floors or furniture. Safe for use on table tops. Underwriter's flag type blue cord set label.

Type 1705	6 ft.	Net \$.99
Type 1701	10 ft.	1.08
Type 1702	15 ft.	1.22

Size 18, type SV. Black all-rubber portable cord with Belden molded-on rubber connector and Belden unbreakable soft rubber plug. Underwriter's flag type blue cord set label.

Type 1751	20 ft.	Net \$ 1.28
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TELEVISION GUY WIRE



High grade, extra strength twisted steel guy wire, completely galvanized to prevent rust and corrosion.

Number	Size	Length	Net
420	4x20	100'	\$.65
620	6x20	100'	.80



TWIN LEAD

14-056
14-080 14-079

Amphenol Twin-Lead is made from the finest materials available. Brown pigmented polyethylene dielectric assures minimum RF loss and more constant impedance. Remains flexible and unaffected by chemical fumes and temperature changes throughout long and serviceable life. For TV, Ham and all experimental uses.

NO. 14-056. 300 ohm. Per Foot Net.....	\$.02
NO. 14-056. 300 ohm. Per 100 Feet.....	1.91
NO. 14-056. 300 ohm. Per 500 Feet.....	9.56
NO. 14-056. 300 ohm. Per 1000 Feet.....	17.20

NO. 14-079. 150 ohm. Per Foot Net.....	\$.02
NO. 14-079. 150 ohm. Per 100 Feet.....	1.80

NO. 14-080. 75 ohm. Per Foot Net.....	\$.02
NO. 14-080. 75 ohm. Per 100 Feet.....	1.80

"CENTURY" TWIN-LINE. 300 ohm impedance. Heavy 100 mil web thickness provides extra strength, ideal for uses requiring long runs. 7/28 bare copper conductors.

NO. 14-100. Net Per Foot.....	\$.03
NO. 14-100. Net Per 100 Feet.....	2.65
NO. 14-100. Net Per 1000 Feet.....	24.99

300 OHM TRANSMITTING TUBULAR LINE. Rated at 1 KW RF power. Conductors are 7/26 copper wire, insulation brown polyethylene.

NO. 14-076. Net Per Foot.....	\$.07
NO. 14-076. Net Per 100 Feet.....	6.23

"HEAVY DUTY" TWIN-LINE. 300 ohm impedance. Heavy 185 mil web thickness and uses 7/26 bare copper conductors. Larger conductors have lower losses than smaller line. Excellent for fringe area reception and low power amateur transmitter.

NO. 14-185. Net Per Foot.....	\$.07
NO. 14-185. Net Per 100 Feet.....	6.23

TUBULAR TWIN LEAD



14-271

TYPE 14-271 TUBULAR TWINLEAD. Superior to flat types of twinlead in all UHF applications. Consists of 7 strands #28 copper-weld conductors imbedded in brown polyethylene forming protective canopy. Outperforms flat type twinlead 3-1 in wet or inclement weather. Signal transfer is unaffected by rain, sleet, ice or salt spray. 300 ohm impedance.

Per Foot Net.....	\$.04
Per 100 Feet.....	3.76
Per 500 Feet.....	17.64
Per 1000 Feet.....	33.81

1 KW 75 OHM LEAD

14-023

NO. 14-023. 75 ohm twin-lead for transmitting rated at 1 KW RF power. Copper-clad conductors for extra strength.

Per Foot Net.....	\$.06
Per 100 Feet.....	5.71

300 OHM COPPER-CLAD

NO. 14-022. 300 ohm extra strength twin-lead with copper-clad conductors.

Per Foot Net.....	\$.05
Per 100 Feet.....	4.94

RG CABLES



Coaxial cables for all purposes. Low-loss flexible polyethylene inner jacket, copper shielded vinyl outer jacket.

Type	Impedance	Net Per Foot	Per 100 Feet
RG-8/U	52	\$.14	\$ 13.23
RG-11/U	75	.13	12.42
RG-22/U	95	.17	16.08
RG-58/U	53.5	.06	5.71
RG-59/U	73	.07	6.55

"Your trade-in's worth more at the WALTER ASHE STORE" (165)

microphone cables

plastic microphone cable

Performance and long service life are the outstanding features of Belden Microphone Cables. They are resistant to physical abuse, aging, and moisture. In addition, they have low capacitance, high insulation resistance, and low attenuation of audio frequencies.



8411

For lapel microphones

TYPE 8411. For lapel microphone. #25 1-conductor 3x33 tinned copper-4x33 tinned steel. Flexible stranding. Cellulose yarn braid. Polyethylene insulation. Tinned copper braid shield. Chrome vinyl plastic jacket. 49 mmf nominal capacitance per ft.

15 Ft. Coiled and Cartoned, Net.....	\$.67
25 Ft. Coiled and Cartoned.....	1.03
50 Ft. Coiled and cartoned.....	1.91
100 Ft. Spool.....	3.53
500 Ft. Spool.....	16.17



8401

For crystal, ribbon, and carbon microphones

TYPE 8401. For crystal, ribbon and carbon microphones. #25 1-conductor 3x33 tinned copper-4x33 tinned steel stranding. Cellulose yarn braid. Polyethylene insulation. Tinned copper braid shield. Chrome vinyl plastic jacket. 25 mmf nominal capacitance

15 Ft. Coiled and Cartoned, Net.....	\$.81
25 Ft. Coiled and Cartoned.....	1.25
50 Ft. Coiled and Cartoned.....	2.35
100 Ft. Spool.....	4.41
500 Ft. Spool.....	20.58



8422

TYPE 8422. For carbon microphones. #22 2-conductor wire. 16x34 tinned copper, flexible stranding. Polyethylene insulation. Color coded; conductors cabled with fillers; rayon braid; tinned copper braid shield; chrome vinyl plastic jacket.

15 Ft. Coiled and Cartoned, Net.....	\$ 1.00
25 Ft. Coiled and Cartoned.....	1.62
50 Ft. Coiled and Cartoned.....	3.19
100 Ft. Spool.....	6.03
500 Ft. Spool.....	29.40

shielded multiple conductor



8424 8425 8426 8427

TYPE 8424. Interconnecting power cable for all electronic uses. Also used as microphone cable. 4-conductor #20 wire. 26x34 tinned copper, flexible stranding. Cotton wrap. Rubber insulation. Color coded. Conductors cabled. Rayon braid. Tinned copper braid shield. Cotton wrap. Black rubber jacket.

15 Ft. Coiled and Cartoned, Net.....	\$ 1.62
50 Ft. Coiled and Cartoned.....	4.95
100 Ft. Spool.....	9.55
250 Ft. Spool.....	23.15

TYPE 8425. Same as 8424 except 5-conductor. 15 Ft. Coiled and Cartoned, Net..... \$ 1.86
50 Ft. Coiled and Cartoned..... 5.68
100 Ft. Spool..... 11.03
250 Ft. Spool..... 26.82

TYPE 8426. Same as 8424 except 6-conductor. 15 Ft. Coiled and Cartoned, Net..... \$ 2.16
50 Ft. Spool..... 6.91
100 Ft. Spool..... 13.52
250 Ft. Spool..... 33.07

TYPE 8427. Same as 8424 except 7-conductor. 15 Ft. Coiled and Cartoned, Net..... \$ 2.30
50 Ft. Spool..... 7.45
100 Ft. Spool..... 14.70
250 Ft. Spool..... 36.01

rubber microphone cable



8428

Heavy-duty studio cables

TYPE 8428. Heavy duty studio mike cable. Tinned copper, flexible stranding, cotton wrap. 2 conductors #18 (41x34). .295 diam. Tinned copper braid shield, rayon braid, cotton wrap, black rubber jacket overall.

15 Ft. Coiled and Cartoned, Net.....	\$ 1.57
25 Ft. Coiled and Cartoned.....	2.35
50 Ft. Coiled and Cartoned.....	4.56
100 Ft. Spool.....	8.82
500 Ft. Spool.....	43.37



8410

TYPE 8410. For crystal, ribbon and carbon microphones. #25 1-conductor wire. 3x33 tinned copper-4x33 tinned steel, flexible stranding. Cellulose yarn braid; waxed; rubber insulation; rayon braid; tinned copper braid shield; rayon wrap; black rubber jacket. 33 mmf nominal capacitance.

15 Ft. Coiled and Cartoned, Net.....	\$ 1.25
25 Ft. Coiled and Cartoned.....	2.06
50 Ft. Coiled and Cartoned.....	3.77
100 Ft. Spool.....	7.15
500 Ft. Spool.....	34.33



8412

TYPE 8412. For carbon microphones. 2-conductor #20 wire. 26x34 tinned copper, flexible stranding. Cotton wrap. Rubber insulation. Color coded. Conductors cabled with fillers. Rayon braid. Tinned copper braid shield. Cotton wrap. Black rubber jacket.

15 Ft. Coiled and Cartoned, Net.....	\$ 1.18
25 Ft. Coiled and Cartoned.....	1.86
50 Ft. Coiled and Cartoned.....	3.67
100 Ft. Spool.....	7.06
500 Ft. Spool.....	33.81



8423

TYPE 8423. For carbon microphones. 3-conductor #20 wire. 26x34 tinned copper, flexible stranding. Cotton wrap. Rubber insulation. Color coded. Conductors cabled. Rayon braid. Tinned copper braid shield. Cotton wrap. Black rubber jacket.

15 Ft. Coiled and Cartoned, Net.....	\$ 1.42
50 Ft. Coiled and Cartoned.....	4.12
100 Ft. Spool.....	8.09
250 Ft. Spool.....	19.85
500 Ft. Spool.....	38.22

rubber-jacketed portable cord



8472

Underwriters Type SJ

TYPE 8472. Underwriters type SJ. 65x34 stranded bare copper. Cotton wrap. 2 conductor #16. 1/32" rubber insulation, cabled with fillers. Cotton wrap. 1/32" rubber jacket overall. .325 nominal diameter.

25 Ft. Coiled and Cartoned, Net.....	\$ 1.71
50 Ft. Spool.....	3.09
100 Ft. Spool.....	5.98
250 Ft. Spool.....	14.11



8452

TYPE 8452. Underwriters type SV. 41x34 stranded bare copper. Cotton wrap. 2 conductor #18. 1/64" rubber insulation, cabled with fillers. Cotton wrap. 1/32" rubber jacket overall. .245 nominal diameter.

15 Ft. Coiled and Cartoned, Net.....	\$.81
25 Ft. Coiled and Cartoned.....	1.32
50 Ft. Coiled and Cartoned.....	2.35
100 Ft. Spool.....	4.26
500 Ft. Spool.....	18.37

Belden

BROADCAST AUDIO CABLE



8440

Designed to eliminate cross-talk in audio equipment. Two #22 solid enameled conductors, cotton wrap, cotton braid waxed, tinned copper spiral wrapped shield, one #22 tinned solid copper wire parallel to twin pair under shield. .025" tubed grey vinyl "easy-to-strip" jacket. .195" nom. diam.

For Foot Net.....	\$.05
100 Ft. Spool.....	4.56
500 Ft. Spool.....	22.05
1000 Ft. Spool.....	42.63

multiple conductor plastic-insulated cable

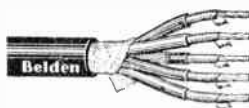


8443 8444 8445 8446 8447 8448 8449

Ideal for speaker installations, intercom uses, etc. Tinned copper, flexible stranding; vinyl plastic insulation, color coded. Overall tubed brown vinyl plastic jacket. Types 8446, 8447, 8448 & 8449 have 2 conductors of 18 stranded (16X30). All others are 22 stranded (7X30).

Type	Cond.	25 Ft. Coil	100 Ft. Coil	500 Ft. Coil
8443	3	\$.73	\$ 2.35	\$ 10.29
8444	4	\$.88	2.79	12.49
8445	5	\$.96	3.38	15.43
Type	Cond.	15 Ft. Co./100 Ft. Coil	500 Ft. Coil	500 Ft. Coil
8446	6	\$.88	\$ 5.15	\$ 24.25
8447	7	\$.96	5.58	26.46
8448	8	1.03	6.03	28.67
8449	9	1.13	6.61	31.61

rubber-jacketed



8454

8455

Black rubber jacketed cable which may be used for some rotary beams or other uses where sturdy cable is required. Stranded bare copper conductors; cotton wrap with rubber insulation. Cabled with fillers.

TYPE 8454. 4 conductors 18 gauge. 15 Ft. Coiled and Cartoned, Net..... \$ 1.13
50 Ft. Coiled and Cartoned..... 3.33
100 Ft. Spool..... 6.27
500 Ft. Spool..... 29.40

TYPE 8455. 5 conductors, 2 of 18 gauge, 3 of 22 gauge. 15 Ft. Coiled and Cartoned, Net..... \$ 1.25
50 Ft. Coiled and Cartoned..... 3.47
100 Ft. Spool..... 6.61
250 Ft. Spool..... 16.17

cathode-ray tube lead cable



8868

TYPE 8868. Designed for high voltage leads to cathode ray tubes in TV receivers and oscilloscopes. #20. 7x28 stranded tinned copper conductor. Polyethylene insulation. Working voltage 20000, puncture voltage 54000 volts.

25 Ft. Coiled and Cartoned, Net.....	\$.88
100 Ft. Spool.....	3.09

166 READY FOR A NEW RECEIVER? - We'll Trade In Your Old One!

BELDEN WIRE AND CABLE WIRE

phonograph pickup cable



8431

TYPE 8431. No. 24 single conductor cable especially designed for use as phonograph pickup arm cable. Extreme flexibility and limpsness with small diameter. Tinned copper 16x36 flexible stranding. Rubber insulation. Tinned copper braid shield. Fine brown cotton braid.

10 Ft. Package, Net.....\$.44
15 Ft. Package.....\$.56
25 Ft. Coiled and Cartonod.....\$.81
100 Ft. Spool.....\$ 2.79

intercom cables



8743

TYPE 8743. Ideally suited for station-to-station intercom and extension wiring (unshielded). 12-conductor #22 cable. Tinned copper, solid stranding. Vinyl plastic insulated. Color coded. Conductors cabled in pairs. Overall brown cotton braid. Grey vinyl covering.

Per Foot, Net.....\$.07
100 Ft. Spool.....\$ 6.27
500 Ft. Spool.....\$ 30.13



8482

8483

For use with inside intercoms, thermostats, etc. Solid bare copper, vinyl plastic insulation. Available in 2 conductors or 3 conductors, color coded.

Type	Cond.	Net Per Ft.	Net Per 100 Ft.	Net Per 1000 Ft.
8482	2	\$.015	\$ 1.35	\$ 10.88
8483	3	.02	1.80	15.88

aerial wire

STRANDED
BARE COPPER
7X24

8002

50 Ft. Roll, Net.....\$.49
75 Ft. Roll.....\$.67
100 Ft. Roll.....\$.85
1000 Ft. Roll.....\$ 7.72

lead-in wire



8200

TYPE 8200. Tinned copper, flexible stranding; rubber insulation. AWG - 18. Stranding: 7x27. Insulation thickness: .040".

Per Foot, Net.....\$.015
100 Ft. Spool.....\$ 1.25
500 Ft. Spool.....\$ 5.00
1000 Ft. Spool.....\$ 9.55

shielded lead-in wire



8206

TYPE 8206. Tinned copper, flexible stranding; rubber insulation; tinned copper braid shield. AWG - 18. Stranding: 7x27. Insulation thickness: .040". Nom. dia. - .155".

15 Ft. Coiled and Cartonod, Net.....\$.56
50 Ft. Coiled and Cartonod.....\$ 1.65
100 Ft. Spool.....\$ 2.94
250 Ft. Spool.....\$ 7.35



BUS BAR WIRE

Solid tinned two ft. lengths.

Number	Size	Net Each
2010	#10	\$.08
2013	#12	.06
2015	#14	.05

auto and aircraft



8667

TYPE 8667. AWG - 16. Tinned copper, flexible stranding; rubber insulation; cotton braid; lacquer coating. 19x29 stranded. .280 nom. dia. Available in black.

Per Foot Net.....\$.07
100 Ft. Spool.....\$ 6.61



8665

TYPE 8665. Stainless steel alloy, flexible stranding; rubber insulation; glass yarn web braid; neoprene jacket; tinned copper braid shield; neoprene jacket. Available in black. AWG - 19. Stranding: 6x.013"-1x.011" steel alloy.

Per Foot Net.....\$.14
100 Ft. Spool.....\$ 13.23

shielding



Shielding and Bonding Braid

8660 8668 8661 8669 8662

TYPE 8660. 96x34 tinned copper braid in form of tubing. 13/64 ID.

10 Ft. Coiled and Cartonod, Net.....\$.29
50 Ft. Spool.....\$ 1.40
250 Ft. Spool.....\$ 5.10

TYPE 8668. 120x34 tinned copper braid in form of tubing. 1/8" ID.

10 Ft. Coiled and Cartonod, Net.....\$.47
50 Ft. Spool.....\$ 1.76
250 Ft. Spool.....\$ 7.20

TYPE 8661. 192x34 tinned copper braid in form of tubing. 3/8 ID.

10 Ft. Coiled and Cartonod, Net.....\$.53
50 Ft. Spool.....\$ 2.16
250 Ft. Spool.....\$ 8.53

TYPE 8669. 33x34 tinned copper braid in form of tubing. 1/2 ID.

10 Ft. Coiled and Cartonod, Net.....\$.97
50 Ft. Spool.....\$ 4.41
250 Ft. Spool.....\$ 20.58

TYPE 8662. 576x34 tinned copper braid in form of tubing. 25/32 ID.

10 Ft. Coiled and Cartonod, Net.....\$ 1.32
50 Ft. Spool.....\$ 6.27
250 Ft. Spool.....\$ 29.40

test prod wire

8899



8898

COLORS:—Red and Black.

High voltage lead wire for use with portable testing equipment, instruments and other radio units where excellent dielectric properties of the insulation and extreme flexibility and limpsness of the cable are essential. Furnished in either red or black. Specify when ordering.

TYPE 8899. #18 tinned copper, extra flexible 65x36 stranding; cotton yarn; rubber insulation. .043" thick insulation. Rated voltage breakdown 5000 volts.

10 Ft. Coiled and Cartonod, Net.....\$.29
14 Ft. Coiled and Cartonod (7 red, 7 black).....\$.37
25 Ft. Coiled and Cartonod.....\$.67
130 Ft. Spool.....\$ 1.91
500 Ft. Spool.....\$ 7.91
1000 Ft. Spool.....\$ 15.66

TYPE 8898. Same as 8899 except .083" thick insulation. Breakdown voltage rated at 10000 volts. Available in red or black. Specify when ordering.

10 Ft. Coiled and Cartonod, Net.....\$.37
25 Ft. Coiled and Cartonod.....\$ 1.03
100 Ft. Spool.....\$ 2.94
500 Ft. Spool.....\$ 13.38

hook-up and lead wires

SRIR HOOK-UP

Thermoplastic Insulated JAN-C-76

8529 **8523**

SRIR HOOKUP WIRES, JAN specs C-76. 1000 volts. .018" vinyl thermoplastic insulation. Colors: black, brown, red, orange, yellow, green, blue, violet, grey, white.

TYPE 8529. No. 20 solid. .069" nom. diam.
25 Ft. Coiled and Cartonod, Net.....\$.26
1000 Ft. Spool.....\$.81

TYPE 8523. No. 20 stranded. 10x30 tinned copper conductors. .075" nom. diam.
25 Ft. Coiled and Cartonod, Net.....\$.29
100 Ft. Spool.....\$.94
1000 Ft. Spool.....\$ 6.61

cellulose braid lacquered



8945

TYPE 8945. #18 solid. Cellulose braid lacquered hookup and lead wire. Used on RF circuits where low loss properties are required. Furnished in black, blue, green, red, yellow or white. Specify color when ordering. 1000 VAC breakdown voltage.

25 Ft. Coiled and Cartonod, Net.....\$.44
100 Ft. Spool.....\$ 1.52
1000 Ft. Spool.....\$ 12.49



8947

TYPE 8947. #18 hookup wire. Furnished in black, blue, green, red, yellow & white. 16x30 stranding. 1000 VAC breakdown.

25 Ft. Coiled and Cartonod, Net.....\$.46
100 Ft. Spool.....\$ 1.58
1000 Ft. Spool.....\$ 13.23



Heavy-Duty Hook-Up Wire

8650

8651

8652

TYPE 8650. AWG - 12. Nom. dia. .200. Stranding: 19x25. Same as 8652 except red cotton braid with three white tracers.

Per Foot Net.....\$.05
100 Ft. Spool.....\$ 4.70

TYPE 8651. AWG - 14. Stranding: 19x27. Nom. dia. .170. Same as 8652 except green cotton braid with two white tracers.

Per Foot Net.....\$.04
100 Ft. Spool.....\$ 3.53

TYPE 8652. AWG - 16. Tinned copper, flexible stranding; cellophane wrap; rubber insulation; black cotton braid with one white tracer; lacquer coating. Stranding: 19x29. Nom. dia. .140.

Per Foot Net.....\$.03
100 Ft. Spool.....\$ 2.79

shielded hook-up wire



8885

TYPE 8885. #20 single conductor wire for use in circuits where shielded grid return is required and to shield a circuit conductor from stray fields. 4000 volts breakdown. Tinned copper 10x30 flexible stranding. Rubber insulation. Cellulose acetate yarn braid. Fungus-resistant lacquer coating. Tinned copper braid shield.

15 Ft. Coiled and Cartonod, Net.....\$.47
25 Ft. Coiled and Cartonod.....\$.84
100 Ft. Spool.....\$ 2.58
500 Ft. Spool.....\$ 12.13



Shielded Heavy-Duty Hook-Up Wire

TYPE 8656. #16 tinned copper, flexible stranding. 19x29. Cellophane wrap; rubber insulation; cotton braid; blue lacquer coating; tinned copper braid shield overall.

Per Foot Net.....\$.05
100 Ft. Spool.....\$ 4.56

"Your trade-in's worth more at the WALTER ASHE STORE" (167)

WIR ANTENNA WIRE - EXTENSION CORDS

BIRNBACH MAGNET WIRE SPECIAL SPOOLS



Size	Plain Enamel	Approx. Length Double Cotton	Double Silk	Net Per Spool
10	11 ft.			\$.49
12	15	9 ft.		.49
14	26	20	11 ft.	.49
16	34	34	19	.49
18	56	44	23	.49
20	86	56	29	.49
22	112	75	37	.49
24	184	97	56	.49
26	244	116	71	.49
28	401	131	90	.49
30	525	158	112	.49
32	675	180	124	.49
34	900	195	131	.49
36	1275	206	142	.49
38	1725	240	116	.49
40	1950	265	125	.49

BIRNBACH SOLID TINNED WIRE



Type	Gauge	Length	Net
1402	10	100 ft.	\$ 3.62
1406	12	100	2.20
1410	14	100	1.47
1414	16	100	1.18



SOLID ENAMEL

Antenna



WIRE

Type	AWG	Length	Net
497	10	100 ft.	\$ 3.88
492	12	100	2.53
492B	12	200	5.06
490	14	100	1.62
490B	14	200	3.23

20% DEPOSIT REQUIRED ON C.O.D. ORDERS



BIRNBACH COPPERWELD

Steel core. Pure copper welded to core. Enamel covered.

#10	100 ft.	Net \$ 4.20
#10	250 ft.	10.35
#12	100 ft.	2.93
#12	250 ft.	7.06
#14	100 ft.	1.79
#14	250 ft.	4.41

JFD OPEN WIRE LINE



Get brighter, sharper pictures, only 1/6th the loss of standard 300 ohm lead. Has sturdy polystyrene insulators spaced 6" apart. Copper wire with steel core has 400 lb. breaking point tensile strength. 100 feet on roll. Shpg. Wt. 3 lbs. Net \$ 4.00

AC RIFFLEX CORD



Rubber covered Rifflex AC Line Cord. Brown. POSJ type.

Per foot Net \$.03
Per 250 ft. roll 6.25

AC LINE CORD



Replace those old frayed and worn cords with this new one. Ready to attach to appliance or radio set. Cord is 6 ft. long with standard male plug on other end.

No. 885 Net \$.38

TAPMASTER CORD SETS



"TAPMASTER" extension cord sets consist of "spring action" plug. "Tapmaster" 3-way cube tap and U/L approved rubber line cord. Cube tap is unbreakable, made of live rubber and cannot be damaged by stepping on it.

No. 810-6	6-ft. Cord	Net \$.57
No. 810-9	9-ft. Cord	.65
No. 810-12	12-ft. Cord	.70
No. 810-15	15-ft. Cord	.75



TV SAFETY CORD

Replacement cord for RCA, Philco, Halli-crafters, Admiral and many others. Fits into socket in rear of chassis. Regular molded rubber plug on other end.

No. 8200 Net Each \$.44

RADEX SLIPBACK HOOKUP WIRES



100 ft. spools, solid & stranded. Push back high dielectric strength. Color: Black, Red, Blue, Yellow, Green & White.

No. 382	19 Ga. Solid	Net \$ 2.06
No. 383	18 Ga. Stranded	2.26

ALLIANCE 4 Conductor Cable

for TENNA-ROTOR



For use with antenna rotators such as Alliance, etc.
Per foot Net \$.03

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1 file or 1 set of files, any type	1 lb.
2 sets	2
5 sets	4
10 sets	8



WALTER ASHE RADIO CO.

PHONE CHESTNUT 1-1125
1125. PINE ST., ST. LOUIS 1, MO.

SPECIAL PURPOSE TUBES

ABBREVIATIONS
OF
MANUFACTURERS

AMP Amperex
EIM Eimac
GE General Electric
HYT Hytron
NU National Union
RCA Radio Corp. America

RAY Raytheon
SYL Sylvania
TAY Taylor
TUN Tun-Sol
UE United Electronics
VIC Vicon

TUBE TYPE	MFR.	NET EACH	TUBE TYPE	MFR.	NET EACH	TUBE TYPE	MFR.	NET EACH	TUBE TYPE	MFR.	NET EACH
C1J	GE	8.69	4-250A/5D22	RCA	41.25	10SP4	RCA	64.50	304TL	EIM	60.50
0A5	SYL	5.05	4-400A	EIM	60.50	10Y	RCA	3.90	SA309	SYL	6.10
0Z4A	RAY	1.00	4-1000A	EIM	132.00	12A6	RCA	1.63	315AW	AMP	38.60
1AD4	RAY	2.05	4B32	AMP	12.00	12AY7	RCA	3.00	343A	AMP	350.00
1AG4	RAY	1.65	4C33	RCA	182.75	12DP7A	RCA	72.50	FP400	GE	41.20
1B24A	SYL	28.75	4C35	SYL	28.75	12K8Y	RCA	1.75	414	GE	120.00
1B35A	SYL	6.90	4D32	RAY	27.50	12L8GT	RCA	2.35	GL415	Same as	5550
1B85	VIC	7.50	4E27/8001	RCA	24.50	12SA7Y	RCA	1.30	441	GE	4.50
1C21	RCA	3.85	4E27A/5-125B			12SG7Y	RCA	1.40	450TH	EIM	77.00
1D21	SYL	5.65		EIM	35.75	12SP7	RCA	47.40	450TL	EIM	77.00
1P21	RCA	50.00	4X150A	EIM	48.00	12SW7	RCA	1.40	498	AMP	500.00
1P22	RCA	14.75	4X500A	EIM	121.00	12SX7GT	RCA	1.75	SS501	SYL	14.40
1P28	RCA	22.00	4X500F	EIM	93.50	12SY7	RCA	1.60	502A	RCA	1.85
1P29	RCA	2.95	5BP1A	RCA	23.80	16ADP7	RCA	55.00	502AX	RAY	2.10
1P37	RCA	2.85	5C22	SYL	43.75	FG17	Same as	5557	503AX	RAY	2.05
1P39	RCA	1.75	5CP1A	RCA	27.00	KY-21A	EIM	13.25	504R	AMP	175.00
1P40	RCA	2.60	5CP7A	RCA	31.40	RX-21A	EIM	9.00	506AX	RAY	1.50
1P41	RCA	2.80	5CP11A	RCA	31.40	PJ22	GE	2.50	510AX	RAY	2.25
1P42	RCA	11.00	5CP12	RCA	31.40	25T	EIM	9.00	CK512AX	RAY	2.15
2A4G	RCA	2.40	5FP4A	RCA	41.75	26A6	RCA	3.10	CK522AX	Use CK6088	
2AP1A	RCA	10.85	5FP7A	RCA	27.50	26A7GT	RCA	6.55	525AX	RAY	3.60
2BP1	RCA	11.00	5FP14	RCA	29.50	26C6	RCA	2.10	526AX	RAY	1.90
2BP11	RCA	12.50	5R4GY	RCA	1.89	26D6	RCA	2.85	528AX	RAY	1.58
2C21/1642	RCA	1.90	5UP1	RCA	19.65	FG27A	GE	26.00	CK539DX	RAY	2.55
2C39A	EIM	25.00	5UP7	RCA	25.40	HY31Z	HYT	5.50	571AX	Use 5886	
2C40	RCA	24.00	5UP11	RCA	25.40	FG33	Same as	5720	573AX	Use 6029	
2C43	RCA	21.50	5WP11	RCA	87.00	35T	EIM	10.50	CK574AX	RAY	2.25
2C52	RAY	11.30	5WP15	RCA	102.00	35TG	EIM	16.00	575A	RCA	21.00
2C53	NU	15.00	5ZP16	RCA	100.00	TZ40	TAY	4.50	579B	RCA	15.00
2D21	RCA	2.00	6AB7Y	RCA	1.95	T55	TAY	9.50	615	HYT	2.25
2D21W	RCA	3.15	6AC7W	RCA	3.75	FG57	Same as	5559	627	RCA	22.00
2E24	RCA	4.65	6AC7Y	RCA	1.85	61	RAY	3.30	629	RCA	13.00
2E25A	HYT	5.85	6AG7Y	RCA	2.00	KT-66		3.50	672A	RCA	35.00
2E26	RCA	3.85	6AJ5	GE	3.50	FG67	Same as	5728	673	RCA	21.00
2E30	HYT	2.60	6AK5W	RCA	3.38	HY69	HYT	5.50	676	RCA	55.00
2E31	RAY	2.12	6AK5W	RAY	3.05	V70D	UE	9.50	677	RCA	55.00
2E32	RAY	2.12	6AL5W	RCA	2.80	75TH	EIM	13.25	703	Use 716	
2E35	RAY	2.17	6AN5	RAY	3.65	75TL	EIM	13.25	716	RAY	18.00
2E36	RAY	2.17	6AR6	RAY	5.75	FG81A	GE	18.00	Z729	---	2.99
2F21	RCA	144.00	6AS6	RCA	3.43	89Y	RAY	1.35	750TL	EIM	137.50
2G21	RAY	2.20	6AS6W	RAY	4.75	FG95	Same as	5560	800	RCA	11.50
2G22	RAY	2.20	6D4	SYL	2.85	FG97	GE	25.00	801A	RCA	5.60
2H21	GE	100.00	6F4	RCA	6.40	100TH	EIM	18.25	802	RCA	5.15
2J50	RCA	192.00	6J4	RCA	8.05	100TL	EIM	18.25	803	RCA	24.30
2K26	RCA	78.50	6L4	RCA	6.60	HF100	AMP	17.50	804	RCA	17.50
2V3G	RCA	5.25	6L6Y	RCA	2.40	105	RCA	48.00	805	RCA	13.50
2X2A	RCA	4.35	6SA7Y	RCA	1.30	FG105	GE	49.50	806	RCA	34.25
3A4	RCA	1.20	6SJ7Y	RCA	1.25	114B	HYT	2.25	807	RCA	2.50
3A5	RCA	1.30	6SK7W	RCA	3.44	RX120	RAY	29.00	807W	SYL	12.85
3AP1A	RCA	19.50	6SK7Y	RCA	1.25	152TH	EIM	28.75	808	RCA	12.85
RK3-B24W	RAY	11.25	6SN7GT	RCA	1.40	152TL	EIM	28.75	809	RCA	4.20
3B25	RCA	5.90	6SN7WGT	RAY	2.45	172	RCA	65.00	810	RCA	16.25
3B28	RCA	9.45	6V6GT	RCA	1.25	FG172	GE	74.00	811A	RCA	5.00
3BP1A	RCA	16.50	6V6Y	RCA	1.90	203A	RCA	13.75	812A	RCA	5.00
3C23	RCA	12.50	7BP7A	RCA	40.00	207	RCA	240.00	813	RCA	18.00
3C33	RCA	21.25	7C29	GE	130.00	211	RCA	13.75	814	RCA	14.25
3D22	RCA	16.40	7CP1	RCA	30.75	212	RAY	35.75	815	RCA	8.65
3E22	RCA	8.30	7CP4	RCA	33.00	212E	AMP	104.00	816	RCA	1.65
3E29	RCA	20.25	7D21	GE	320.00	217C	RCA	21.17	826	RCA	12.50
3FP7A	RCA	23.00	7JP1	RCA	23.50	220C	AMP	365.00	827R	RCA	195.00
3JP1	RCA	20.50	7MP7	RCA	38.00	222A	AMP	300.00	828	RCA	15.00
3JP7	RCA	23.50	7MP14	RCA	40.00	228A	AMP	325.00	829B	RCA	16.25
3KP1	RCA	16.70	7NP4	RCA	600.00	FG235A	Same as	5552	830B	RCA	11.50
3KP11	RCA	18.60	7OP4	RCA	39.50	242C	GE	15.50	832A	RCA	12.90
3MP1	RCA	22.50	7TP4	RCA	54.00	250TH	EIM	33.00	833A	RCA	49.50
3RP1	RCA	16.45	7WP4	RCA	630.00	250TL	EIM	33.00	834	RCA	14.50
3X2500A3	EIM	198.00	8D21	RCA	1300.00	251A	AMP	300.00	836	RCA	9.00
4-65A	RCA	20.00	9C21	RCA	922.00	255B	AMP	145.00	837	RCA	5.80
4-65A	EIM	20.00	9C22	RCA	1300.00	FG258A	Same as	5553	838	RCA	13.75
4-125A	EIM	30.25	9C24	GE	570.00	266B	AMP	210.00	841	RCA	4.35
4-125A/4D21	RCA	30.25	9C25	RCA	1080.00	FG271	Same as	5551	842	RCA	4.05
4-250A	EIM	41.25	10KP7	RCA	55.00	304TH	EIM	60.50	843	RCA	2.60

SPECIAL PURPOSE TUBES

ABBREVIATIONS
OF
MANUFACTURERS

AMP Amperox
EM Eimac
GE General Electric
HYT Hytron
NU National Union
RCA Radio Corp. America

RAY Raytheon
SYL Sylvania
TAY Taylor
TUN Tung-Sol
UE United Electronics
VIC Vicotheon

TUBE TYPE	MFR.	NET EACH	TUBE TYPE	MFR.	NET EACH	TUBE TYPE	MFR.	NET EACH	TUBE TYPE	MFR.	NET EACH
845	RCA	13.75	R1111	SYL	6.30	5638	SYL	12.85	6073	RCA	3.40
846	RCA	250.00	R1111M	SYL	15.15	5641	SYL	8.35	6074	RCA	3.85
849	RCA	138.00	R1130B	SYL	16.55	5644	SYL	12.00	6080	RCA	6.00
849A	AMP	135.00	R1131C	SYL	16.55	5651	RCA	2.24	6082	RCA	5.30
851	RCA	340.00	1229	SYL	6.40	5652	RCA	6.55	CK6088	RAY	2.60
857B	RCA	218.50	1231Z	HYT	-5.50	CK5654	RAY	3.15	X6090	SYL	2.30
860	RCA	34.50	1247	SYL	6.00	5662	GE	3.20	6110	SYL	12.85
861	RCA	178.25	1269	HYT	5.50	5663	GE	1.90	CK6111	RAY	9.00
862A	RCA	1322.00	1608	RCA	7.90	5671	RCA	1250.00	CK6112	RAY	9.40
864	RCA	5.00	1609	RCA	14.50	5672	RAY	1.60	6146	RCA	4.90
865	RCA	11.50	1610	RCA	2.50	5674	GE	100.00	CK6151	RAY	8.75
866A	RCA	2.45	1612	RCA	3.00	5675	RCA	13.55	6159	RCA	4.90
866A	TAY	1.95	1613	RCA	2.45	5676	RAY	1.90	6161	RCA	115.00
866JR	TAY	1.65	1614	RCA	2.55	5677	RAY	3.70	6166	RCA	905.00
868	RCA	2.85	1616	RCA	8.65	5678	RAY	1.60	6173	RCA	12.10
869B	RCA	138.00	1619	RCA	2.50	5679	SYL	1.35	6174	RAY	3.40
872A	RCA	8.20	1620	RCA	6.25	5690	RCA	9.35	6181	RCA	835.00
874	RCA	3.10	1621	RCA	1.95	5691	RCA	8.45	6197	RCA	2.55
878	RCA	12.75	1622	RCA	2.50	5692	RCA	8.15	6198	RCA	345.00
880	RCA	510.00	1623	RCA	4.05	5693	RCA	6.40	6199	RCA	55.00
884	RCA	1.85	1624	RCA	4.00	5694	RAY	3.75	6211	RCA	2.55
885	RCA	2.00	1625	RCA	2.65	5696	RCA	1.90	6217	RCA	70.00
889A	RCA	210.00	1626	RCA	1.85	5702	RAY	5.85	6417	RCA	1.93
889RA	RCA	295.00	1629	RCA	1.40	CK5702WA	RAY	9.30	8000	RCA	14.50
891	RCA	237.00	1631	RCA	3.10	5703	RAY	2.20	8002	GE	160.00
891R	RCA	385.00	1632	RCA	3.25	5704	RAY	2.85	8003	RCA	14.00
892	RCA	237.00	1633	RCA	1.95	5713	RCA	176.00	8005	RCA	8.55
892R	RCA	385.00	1634	RCA	1.40	5718	RCA	5.95	8008	RCA	8.20
893A	RCA	664.00	1635	RCA	2.00	5719	RCA	5.85	8008	GE	8.20
893AR	RCA	1212.00	1644	RCA	3.10	5720/FG33	GE	23.00	8012A	RCA	15.50
895R	GE	1300.00	1654	RCA	5.95	5722	SYL	6.40	8013A	RCA	10.30
898A	RCA	1322.00	1816P4	RCA	47.00	5728/FG67	RCA	23.00	8020	RCA	24.00
902A	RCA	12.50	1850A	RCA	565.00	5734	RCA	18.00	8025A	RCA	12.35
905A	RCA	65.25	1904	Same as 5728/FG67		5742/PJ7	GE	14.50	9001	RCA	3.95
908A	RCA	24.40	1945	RCA	135.00	5744	RAY	2.50	9002	RCA	2.80
912	RCA	155.00	1946	RCA	10.90	CK5744WA	RAY	8.75	9003	RCA	3.75
913	RCA	15.50	1947	RCA	13.15	5762/7C24	RCA	195.00	9004	RCA	2.80
914A	RCA	145.00	1949	RCA	11.30	5763	RCA	1.93	9005	RCA	4.05
917	RCA	4.65	1950	RCA	7.80	5770	RCA	995.00	9006	RCA	1.90
918	RCA	3.10	2000T	EIM	275.00	5771	RCA	543.00			
919	RCA	4.65	2050	RCA	1.85	5783	RAY	5.60			
920	RCA	4.15	2051	RAY	1.90	CK5783WA	RAY	7.90			
921	RCA	2.95	R4330	SYL	14.40	5784	RAY	7.50			
922	RCA	2.60	5513	GE	275.00	CK5784WA	RAY	11.85			
923	RCA	2.35	5514	HYT	4.95	5786	RCA	87.50			
924	RCA	3.30	5516	HYT	7.95	5787	RAY	7.50			
925	RCA	2.85	5517	RAY	3.40	5794	RCA	10.95			
926	RCA	2.95	5518	GE	525.00	5819	RCA	55.00			
927	RCA	3.00	5527	RCA	150.00	5820	RCA	1200.00			
928	RCA	3.35	5550	RCA	45.00	5822	RCA	130.00			
929	RCA	1.50	5551	RCA	72.00	5823	RCA	1.32			
930	RCA	2.45	5552	RCA	110.00	5824	GE	3.35			
931A	RCA	8.60	5553	RCA	239.00	5825	RCA	13.00			
934	RCA	3.40	5554	RCA	171.50	5826	RCA	1300.00			
935	RCA	7.80	5555	RCA	333.50	CK5829	RAY	4.80			
954	RCA	6.95	5556	RCA	13.50	5840	RCA	8.85			
955	RCA	3.95	5557	RCA	8.80	5876	RCA	13.55			
956	RCA	7.00	5558	RCA	14.00	5879	RCA	1.75			
957	RCA	4.90	5559	RCA	19.50	5881	TUN	3.50			
958A	RCA	7.50	5560	RCA	28.00	5886	RAY	4.50			
959	RCA	8.00	5561	RCA	37.90	5889	RAY	11.30			
991	RCA	.87	5563	RCA	47.00	5890	RCA	44.00			
1000T	EIM	137.50	5581	RCA	2.25	5893	RCA	19.40			
1005	RAY	1.00	5582	RCA	4.30	5915	RCA	1.20			
1006	RAY	5.85	5583	RCA	3.70	5946	RCA	115.00			
1007	RAY	1.10	5584	RCA	4.15	5963	RCA	1.40			
1012	RAY	3.10	5588	RCA	120.00	5964	RCA	1.50			
1013	Same as 5517		5592	RCA	1229.00	5965	RCA	2.55			
1017	RAY	11.30	5593	GE	87.50	6012	RCA	5.55			
1024	RAY	3.60	5610	GE	2.25	CK6021	RAY	9.10			
1027	Use 6174		5618	RCA	4.12	6026	RCA	2.95			
1089	RAY	5.30	5634	SYL	12.85	6029	RAY	4.50			

SHIPPING OF
SPECIAL PURPOSE TUBES

Transmitting and special purpose tubes will be shipped by parcel post only when express service is not available.

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GET ON THE AIR
FOR ONLY
\$44⁹⁵

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WALTER ASHE
NOVICE STATION KITS

SEE INSIDE FRONT COVER
FOR FULL DETAILS.

TV AND RESISTOR TUBES

TELEVISION

PICTURE TUBES



Type	Net	Type	Net	Type	Net
3KP4	\$ 18.00	16WP4A (Sylvania)	\$ 25.50	21AP4	\$ 45.50
5TP4	55.00	16ZP4	25.50	21EP4 (RCA)	32.30
7DP4	28.00	17AVP4	22.50	21EP4 (Sylvania)	36.00
7JP4	19.50	17BP4A (RCA)	21.50	21EP4A (RCA)	32.30
8AP4A (GE)	18.15	17BP4A (Sylvania)	23.75	21EP4A (Sylvania)	36.00
10BP4A	14.50	17BP4B	27.75	21EP4B	40.25
10FP4A	26.00	17CP4	31.00	21FP4	37.50
10HP4	22.75	17GP4	38.00	21FP4A (RCA)	33.70
10MP4A	14.50	17HP4 (RCA)	22.50	21FP4A (Sylvania)	37.50
12KP4A (RCA)	29.50	17HP4 17RP4 (Syl)	25.00	21FP4C	41.50
12KP4A (Sylvania)	22.25	17HP4B	29.25	21MP4	48.00
12LP4A	18.25	17JP4 (RCA)	22.50	21WP4	31.50
12UP4A	30.25	17JP4 (Sylvania)	23.75	21WP4A	35.75
12UP4B	30.25	17LP4 (RCA)	22.50	21XP4	33.00
12YP4A	18.25	17LP4 17VP4 (Syl)	25.00	21XP4A	37.25
14BP4	20.00	17LP4A	29.25	21YP4 (RCA)	33.00
14CP4	20.00	17QP4 (RCA)	21.50	21YP4 (Sylvania)	34.50
14EP4/14CP4	20.00	17QP4 (Sylvania)	23.75	21YP4A (RCA)	35.75
14HP4	20.00	17TP4	31.00	21YP4A (Sylvania)	38.50
16AP4A (RCA)	34.50	17YP4	23.75	21ZP4	33.00
16AP4A (Sylvania)	31.00	19AP4A	39.60	21ZP4A (RCA)	31.75
16DP4A	29.25	19AP4B (RCA)	44.00	21ZP4A (Sylvania)	33.00
16EP4A	38.20	19AP4B (Sylvania)	39.60	21ZP4B (RCA)	34.50
16EP4B	38.20	20CP4 (RCA)	27.00	21ZP4B (Sylvania)	37.25
16GP4 (RCA)	34.50	20CP4 (Sylvania)	30.25	24AP4 (GE)	90.00
16GP4 (Sylvania)	31.00	20CP4A	30.25	24BP4 (Rauland)	90.00
16GP4B (RCA)	34.50	20CP4B	34.50	24CP4 (Sylvania)	51.50
16GP4B (Sylvania)	31.00	20CP4D	34.50	24CP4A (RCA)	63.25
16JP4A	25.50	20DP4	30.25	24CP4A (Sylvania)	55.50
16KP4 (RCA)	21.75	20DP4A	30.25	24DP4A	57.00
16KP4 (Sylvania)	23.50	20DP4B	34.50	24VP4	51.50
16KP4A	27.50	20DP4C	34.50	24VP4A	55.50
16LP4A (RCA)	30.00	20HP4	31.50	27EP4	95.00
16LP4A (Sylvania)	25.50	20HP4A 20LP4	31.50	27GP4	85.00
16RP4 (RCA)	21.75	20HP4C	35.50	27MP4	107.00
16RP4 (Sylvania)	23.50	20HP4D	35.50	27NP4	85.00
16TP4 (RCA)	21.75	20MP4 (RCA)	40.50	27RP4	95.00
16TP4 (Sylvania)	23.50	20MP4 (Sylvania)	31.50	15GP22 (RCA) Color	235.00
16WP4A (RCA)	30.00	21ALP4A	35.75		

GENERAL  ELECTRIC

FIVE-STAR TUBES

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BM-49-B	K-55-H	L-49-D	100-77
BM-55-B	K-67-A	L-49-H	100-79
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K-36-D	K-67-BJ	L-55-CJ	5459
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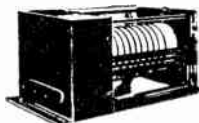
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