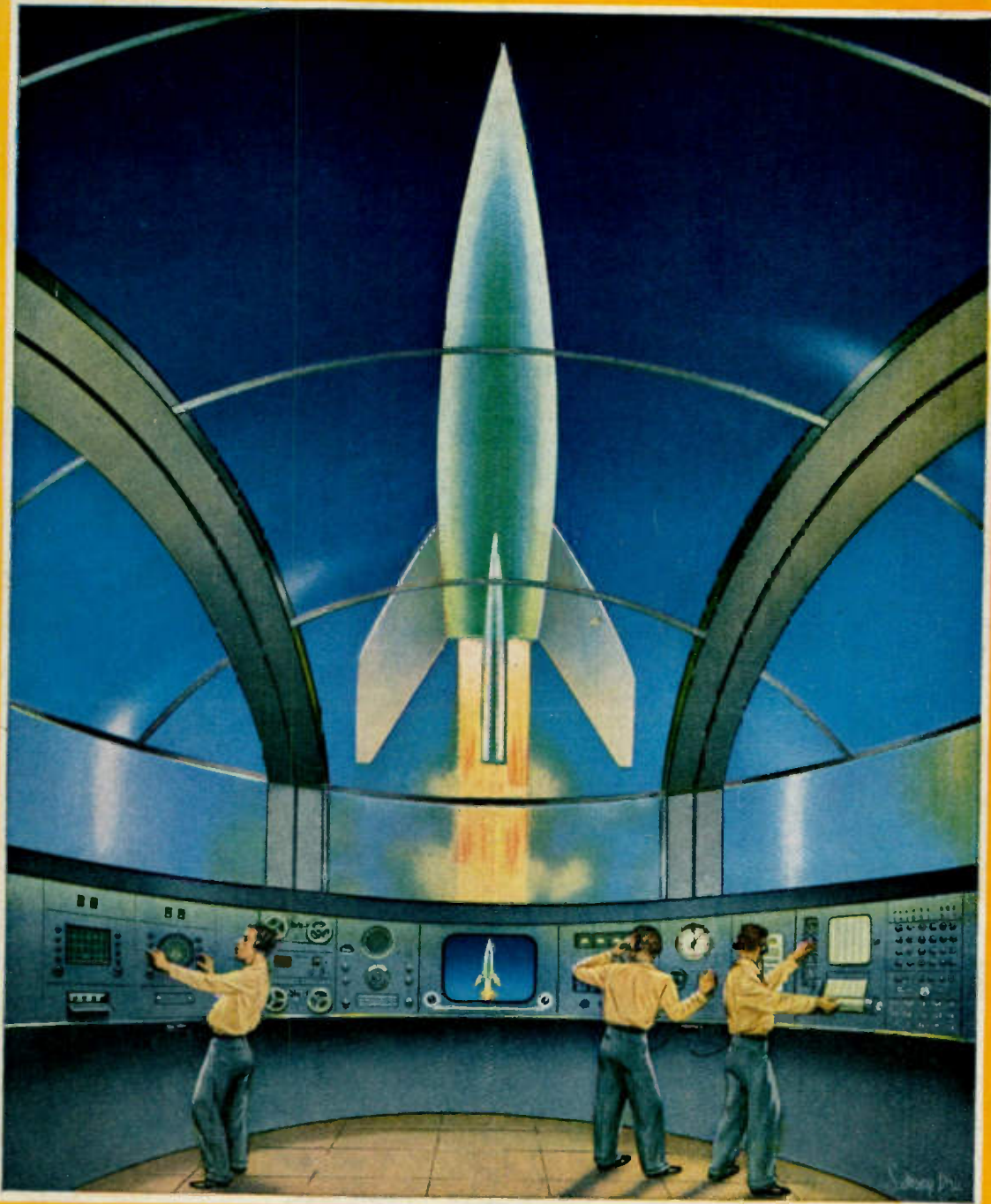


Lafayette

RADIO TELEVISION ELECTRONICS

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PAGE 95



Radio Wire Television Inc.

NEW YORK 13, N.Y., 100 SIXTH AVE. BOSTON 10, MASS., 110 FEDERAL ST.
NEWARK 2, N. J., 24 CENTRAL AVE. BRONX 58, N.Y., 542 E. FORHAM RD.

CATALOG
951A

Magnecorder

FIRST CHOICE OF ENGINEERS



MAGNECORD SPECS PT63-AH & PT6-AH

FREQUENCY RESPONSE
 15" tape speed—flat from 50-15,000 cps \pm 2 db
 7 1/2" tape speed—flat from 50-7000 cps \pm 2 db
 3 1/2" tape speed—flat from 50-4000 cps \pm 2 db
SIGNAL TO NOISE RATIO
 Exceeds 50 db with less than 2% harmonic distortion
MAXIMUM FLUTTER
 Less than 0.3% maximum (measured peak-to-peak)
POWER
 117 volt, 50 cycle, single phase AC.



Magnecorder is used by more engineers and broadcasters than all other professional recorders combined—proof positive of Magnecorder superiority in the field. Meeting NAB standards, Magnecorders assure you of the finest in professional magnetic tape recording. Precision engineered, each provides maximum flexibility and dependability for a minimum investment. Widely used in the automotive, aviation and other manufacturing fields, as well as broadcast industry, schools, universities, and laboratories. Their outstanding reputation has been earned only by strict adherence to fine quality at all times.

PT63-AH THREE HEAD RECORDING MECHANISM

With this three head Magnecorder you can monitor directly from the tape while recording. Separate erase, record and playback heads are triple shielded to prevent cross-talk and hum and each can be individually aligned or replaced. Has high speed forward feature for fast cueing and editing. Records at 15" and 7 1/2" speed; complete with quick-change copstans for both tape speeds. Uses standard 7" reels and rewinds 1200 feet in 40 seconds. For use with Magnecord PT63-J or PT-7 amplifiers, listed below. 7"x17" grey hammerloid enamel panel. In black leatherette covered wood portahlo case. 18" W, 8" H, 15 1/2" D. Shipping weight 46 lbs.
MAGNECORDER PT63-AH Recording Mechanism.....NET 350.00
MAGNECORDER PT63-AHX. Above, less case.....NET 333.00

PT63-J RECORD AND PLAYBACK AMPLIFIER

Complementary amplifier for the PT63-AH recording mechanism above, this unit has separate record and playback amplifiers for the simultaneous playback of tape while recording. Single low-impedance microphone input, also bridging input. Has 600 ohm balanced, zero level output and 10 watts of audio with terminals for external speaker. Has 5" monitor speaker. Switch for 7 1/2" or 15" /sec. tape speed equalization. Switch for reading bias, record or playback on VU meter. 7"x19" grey hammerloid panel for rack mounting when removed from portable case. (Can be used with PT6-1M4 for low-level mixing up to 4 low-impedance mikes.) In black leatherette covered wood case, 20" W, 8" H, 15" D.
MAGNECORDER PT63-J Amplifier. Shpg. wt. 40 lbs.....NET 387.00
MAGNECORDER PT63-JX-As above, less case.....NET 370.00

PT6-AH RECORDING MECHANISM

This basic mechanism has long been recognized as one of the great values in the professional field. Has separate erase and record/reproduce heads and includes 7 1/2" and 15" tape speed copstans. Has high speed forward feature for fast cueing and editing. Uses standard 7" reels and rewinds 1200 feet in 40 seconds. Grey hammerloid panel 7"x17" may be removed for rack mounting. In black leatherette covered wood carrying case, 18" W, 8" H, 15 1/2" D. Shipping weight 46 lbs.
MAGNECORDER PT6-AH Recording Mechanism.....NET 316.00
MAGNECORDER PT6-AHX-As above, less case.....NET 299.00

PT6-J AMPLIFIER

For use with PT6-AH, or as all purpose amplifier, single mike input. Combination record/reproduce amplifier has 10 watts audio with terminal for external speaker. One low impedance mike input, also bridging input. Output: zero level at 600 ohms, balanced, plus 10w audio. Monitor speaker. Complete with tubes and interconnecting cables. Specify for 15" or 7 1/2" equalizer. Grey hammerloid panel 7"x17", may be rack mounted. In black leatherette covered wood case, 18" W, 8" H, 15 1/2" D.
MAGNECORDER PT6-J. Shpg. wt. 31 lbs.....NET 248.00
MAGNECORDER PT6-JX-As above, less case.....NET 232.00
PT6-1M4—Multi-Channel Law Lever Mixer. For up to four 30/50 ohm low impedance mikes. Plugs into input on PT6-J or PT63-J amplifiers. Amplifier gain control masters all mikes. 4 ladder type attenuators (2 db per step). PT6-1M4—With Cannon receptacles and plugs. Wt. 13 lbs.....NET 74.50

NEW! PT7 RECORDING EQUIPMENT

PT7 EQUIPMENT SPECIFICATIONS

FREQUENCY RESPONSE: Flat from 50-15000 cps \pm 2 db at 15"/second. Flat from 50-7500 cps \pm 2 db at 7 1/2"/second. **SIGNAL TO NOISE RATIO:** Over 55 db with less than 2% harmonic distortion. **FLUTTER AND WOW:** Less than 0.1% maximum (peak-to-peak) at 15"/second; less than 0.2% maximum (peak-to-peak) at 7 1/2"/second. **INTERLOCKED PUSH-BUTTON CONTROLS:** Forward, Stop, Rewind, or Hi-Speed. Can be remotely controlled. **POWER:** 117 volts, 60 cycles AC.

PT7-A RECORDER MECHANISM

This great new recorder mechanism features three heads; Erase, Record, Reproduce. Each can be individually replaced or aligned. Triple shielded to eliminate crosstalk or hum. Also has new positive drive speed reducer. This non-slip system provides perfect timing of tape-recorder to recorder—no last program time. Instantaneous start and stop—up to full speed or stop in less than 1/10 second. Hi-Speed forward and rewind—full 10 1/2" reels in 1 minute; 7" reels in 30 seconds. 2-Speed switch on panel changes both 7 1/2" and 15" speeds electrically. Tape lifts automatically from heads in Hi-Speed Forward or Rewind. Two flywheels—a double filter—driven by a flexible neoprene gear-toothed coupling assures accurate timing always. No slippage or wear. No lubrication is required at any time. A perfected, dependable recorder drive, surpassing all others. Grey hammerloid panel 19"x10 1/2". In black leatherette covered wood case, 20" W, 11" H, 18" D. Space for 10 1/2" NAB reels in case. Shpg. wt. 82 lbs.
MAGNECORDER PT7-A. NET 468.00

MAGNECORDER PT7-AX—Above, less port-case.....NET 452.00

PT7-P AMPLIFIER

This 3-channel, high level mixing amplifier has separate record and playback amplifiers. Inputs for 3 low impedance 30/50, or 250 ohms mikes have separate pre-amps for each with high-level mixing. Also bridging input. Output: zero level at 600 ohms, balanced and 10 watts of audio for monitor, or external speaker. Switch for 7 1/2" or 15" equalization. Switch to read bias, record or playback on 4" VU meter. Complete with tubes, interconnecting cables are attached to PT7-A Mechanism. In 20x8x18" deep portable case.
 Wt. 45 lbs.
MAGNECORDER PT-7P. NET 440.00

PT7-C LINE LEVEL AMPLIFIER

Input 600 ohms, balanced, also bridging input. Output: zero level at 600 ohms, balanced, 7 1/2" or 15"/sec equalization. Read bias, record or playback on 4" VU meter. Complete with tubes—no audio amplifier. Size: 7x19x18". Shpg. wt. 82 lbs.
MAGNECORDER PT7-C.....NET 334.00

PT7-CC CONSOLE COMBINATION

Consists of PT7-AX and PT7-C housed in chrome-trim black wood cabinet, with formica top. 38" H, 25" W, 24 1/2" D.
PT7-CC. Wt. 211 lbs.....NET 950.00



PRINTED IN USA

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It pays to depend on us

DEAL WITH
LAFAYETTE
AND BE . . .
SURE

THOUSANDS
HAVE FOR
31 YEARS

FOR over 30 years we have been building our organization on the firmest foundation there can be — the ever-increasing goodwill of thousands upon thousands of satisfied customers. An architect, designing a skyscraper that will tower up into the clouds, knows his structure must be supported by a solid foundation and steel-strong framework if it is to last. Our foundation and framework are the good people who have told us countless times in person, in their letters and in their millions of dealings with us that they sincerely believe **IT PAYS TO DEPEND ON US**. They have learned to their complete satisfaction that what they buy from us is **DEPENDABILITY, RELIABILITY and SECURITY**.

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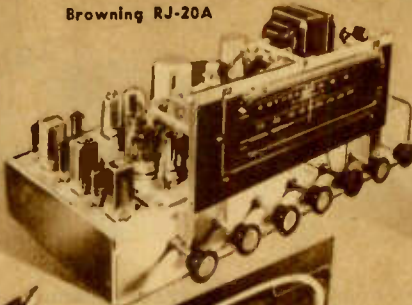
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HIGH FIDELITY FM-AM TUNERS

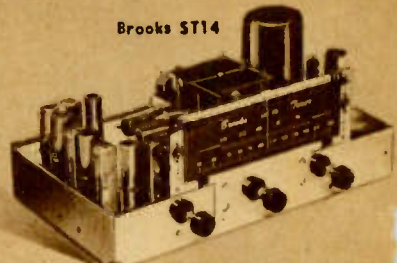
Browning RV-10A



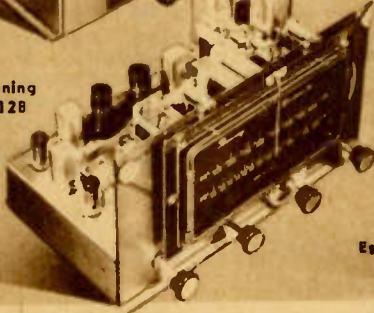
Browning RJ-20A



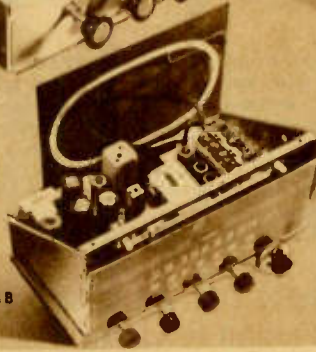
Brooks ST14



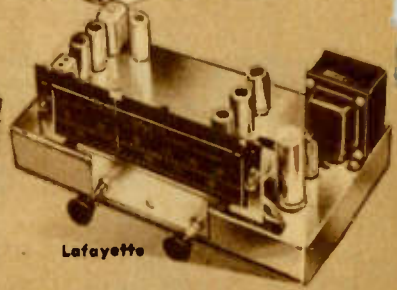
Browning RJ-12B



Espey 511B



Lafayette



BROWNING RV-10A FM TUNER & POWER SUPPLY

An ideal Armstrong FM tuning unit, complete with self-contained power supply and incorporating automatic frequency control which may be switched off when desired. When a fine amplifier and AM unit is already owned this excellent tuner is a worthy addition to make your radio listening pleasure complete. Covers 88 and 108 Mc band with a flat audio response from 15 to 15,000 cps $\pm 1\frac{1}{2}$ db. 2-stage cascade limiter used to ensure freedom from noise; tuned RF stage increases gain and reduces image interference. High impedance output feeds into any high fidelity amplifier. Drift compensated. No drift after 2-minute warm-up. Controls: Phono-FM-TV-Recorder; Volume; Tuning. Tube complement: 3-6AU6, 7F8, 2-6SJ7, 6H6, 6J6, 6AL7, 5Y3 rectifier. Its compact size, $6\frac{1}{2}$ " H., 11" W., $8\frac{3}{4}$ " D. makes for easy mounting in cabinets, shelves, bookcases, drawers, etc. Edge-lighted dial calibrated in megacycles and channel numbers. Rugged construction. Highest quality components. Complete with dial escutcheon, knobs, shielded cable and connectors. For 115 volts 60 cycles AC. Full instructions. Shpg. wt. 14 lbs.

Browning Model RV-10A-
List \$154.15 NET 94.57

BROWNING MODEL RJ-12B FM-AM TUNER

Precision engineered for high fidelity reception on the 88-108 Mc FM band and 530 to 1650 Kc AM standard broadcast band. Has separate RF and IF systems on both bands for maximum performance; no coil switching. No drift on FM after 2-minute warm-up. Uses miniature tubes on RF and IF amplifiers for maximum gain. FM audio response 15 to 15,000 cps $\pm 1\frac{1}{2}$ db; AM response 20 to 6,600 cps ± 3 db. High impedance output for connection to any high quality audio amplifier. 2-stage cascade limiting insures maximum noise rejection on FM. AFC circuit on FM may be cut out at will. Channel selector switch includes Phono-TV-Recorder positions, which provides volume control directly on tuner. Three signal (phono-TV-Recorder) inputs are located at back of tuner. Panel controls include ON-OFF switch, Tuning, Volume, and FM-AM-Phono-TV-Recorder switch. FM antenna input is 300 ohms. FM antenna can also serve AM. Large, edge, lighted slide-rule dial has vernier for smooth, easy tuning. Tubes: 3-6AU6, 1-7F8, 1-6SK7, 1-6SG7, 2-6SJ7, 1-6H6, 1-6SA7, 1-6J6. Has 6AL7GT tuning indicator and IN54 crystal detector. Size: $7\frac{3}{4}$ " H., $13\frac{1}{2}$ " W., 9" D. Supplied with tubes, escutcheon, knobs, interconnecting wire and instructions. Shpg. wt. 18 lbs. List \$210.60.

Browning Model RJ-12B-
NET 129.21

Browning PF-12 Power Supply - For RJ-12B Tuner. Operates on 115V., 60 cycles AC. Power consumption 80 watts. 16.89

BROWNING MODEL RJ-20A FM-AM TUNER

For the discriminating high fidelity enthusiast who intends to combine a fine tuner with the best speakers and amplifiers. Receives standard broadcast (530-1650 kc) and FM band (88-108 mc). Less than 10 microvolts produces 30 db noise reduction in FM band. 5 microvolts sensitivity on AM. Separate RF and IF systems for AM and FM. No coil switching. Automatic frequency control assures correct tuning on FM and may be switched off, if desired. FM uses dual cascade limiting in Armstrong circuit. Two stages of audio amplification with treble and bass controls give 20 db boost in either tone range. FM audio response flat from 15-15,000 cycles $\pm 1\frac{1}{2}$ db. AM-IF system gives 9 kc and 4 kc bandwidths. Signal inputs for Phono-TV-Recorder selected by bandswitch and fed through volume control to these stages. 20,000 ohm output impedance. Either 300 or 72 ohm input for FM antenna provided. Tubes: 5-6AU6, 1-7F8, 2-6AL5, 1-6SN7, 1-6SK7, 1-6SA7, 1-6SG7, 1-6J6, 1-6AL7 (tuning eye), 1-5Y3 (rectifier). Has self-contained power supply. Operates on 115 volts, 60 cycles AC. Size: $7\frac{1}{2}$ " H., 17" W., 9" D. Supplied with tubes escutcheon, plastic window, knobs and complete instructions. Shpg. wt. 26 lbs.

Browning Model RJ-20A-
List \$286.50 NET 175.17

ESPEY MODEL 511B AM-FM HIGH FIDELITY CHASSIS

Here's a custom built chassis designed for high quality performance on standard broadcast and static-free FM bands. The FM circuit includes tuned RF amplifier stage, two stages of high gain IF amplification, and a ratio detector circuit. These features provide low noise level between stations, freedom from AM interference, ease of tuning and plenty of gain. A tuned RF amplifier in the AM circuit assures improved selectivity and sensitivity. Set has built-in preamplifier for variable reluctance pickups and phono input jack with switch. Equipped with separate bass and treble controls and 6-gang tuning condenser. Two antennas are included: a loop for standard broadcast, and a folded dipole for FM. The multi-top output transformer permits use of popular high fidelity speakers and dividing networks, or to match a standard 500-ohm line for remote installations. Provision for external antennas. Tubes: 2-6BA6, 2-6BE6, 1-6SG7, 1-6SH7, 1-6AL5, 1-6CA, 1-SQ7, 1-7F7, 2-6V6GT, 1-6SC7. All Lafayette type tubes. Has 5Y3GT rectifier. Includes knobs and dial escutcheon. For 105-125 V., 50/60 cycles AC. Dimensions: $13\frac{1}{2}$ " W., $8\frac{1}{2}$ " H., 10" D. Shpg. wt. 12 lbs.

1P1508-Espey Model 511B-
With Tubes..... 104.50

BROOKS MODEL ST14 FM-AM TUNER

A highly selective and sensitive FM-AM tuner of precision design and laboratory quality. Sensitivity on FM is less than 5 microvolts. Frequency ranges: 88-108 mc for entire FM band; 540-1620 c on standard broadcast AM band. The FM circuit is temperature compensated for negligible drift and features three IF stages, two cascade limiters and Foster Seeley discriminator. Inductive tuning on both AM and FM for high "Q" selectivity. IF bandwidth on FM: 150 kc at 6 db down; on AM, 8 kc at 3 db down. Has built-in power supply, and phono input jack and switch position. 300-ohm FM antenna also serves AM. 8" slide rule dial calibrated for easy-to-read, linear tuning. Tubes: 4-6CB6, 2-6AU6, 2-6AL5, 2-6BA6, 2-6BE6, 1-6J6. Has 1-6X4 rectifier. For 105-125 volts, 63 cycles AC. Chassis dimensions: 8" D., 15" W., $6\frac{3}{4}$ " H. Shpg. wt. 15 lbs.

Brooks Model ST14 Tuner..... 107.75

LAFAYETTE FM TUNER

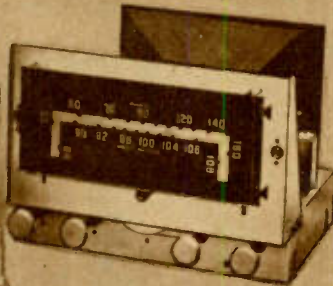
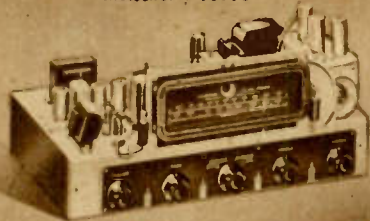
Engineered to Lafayette's own rigid specifications with features never before available at many times its remarkably low price. Just check these important specifications and see for yourself why we think it is one of the biggest FM buys to be found. Automatic Frequency Control to give you needle sharp tuning—so necessary for true frequency response on FM. Two Microvolts Sensitivity means that you get far better than average reception in fringe areas and ideal reception in normal reception areas. Full Armstrong Circuit uses high gain miniature tubes: 4-6AG5, 1-6BE6, 2-6AU6, 1-6AL5 discriminator, 6P6 AFC. Has 6X4 rectifier. Patented calibrated tuning head uses permeability tuning for high "Q" selective RF circuits. No frequency drift after initial warm-up period. Covers entire FM band from 88-108 mc. Controlled selectivity for maximum image rejection. Adjacent channel 60 db down. Full limiting action with only 2 microvolts input. Meets FCC standard de-emphasis response of 20 kc. Rugged, non-critical construction on compact chassis. Size: $13\frac{1}{8}$ " W., $7\frac{1}{8}$ " D., $5\frac{3}{4}$ " H. 8" illuminated slide rule dial; linear tuning. For 115 volts, 60 cycles AC. Complete with tubes. Shpg wt. 13 lbs.

P22449-Lafayette FM Tuner..... 68.69

FOR CUSTOM INSTALLATIONS

Meissner 9-1091C

Meissner 9AJ



Meissner 9-1093

Meissner 8C



**MEISSNER MODEL 9-1093
FM-AM TUNER & AMPLIFIER**

**MEISSNER MODEL 9AJ
FM-AM CHASSIS**

Undoubtedly one of the finest high quality FM-AM tuners and amplifiers on the market today. Frequency range 535-1620 kc on standard broadcast band and 88-108 mc on the FM band. Audio fidelity is flat from 50 to 15,000 cps ± 2 db. Hum level 65 db below full output. Designed for use with crystal or magnetic pickups (requires 6SC7 tube not supplied). Sensitivity is less than 20 microvolts. Tuner has a two-position AM selectivity control for distant or local reception. Phono input jack controlled by panel switch. A combination tone control provides bass boost up to 11 db at 40 cps, and treble attenuation up to 13 db at 10,000 cps. Output designed for 8 to 16-ohm speaker. Two indoor antennas are supplied—one indoor folded dipole (300-ohm) for FM, and one 12x16" noise reducing loop for AM. Provision is made for connecting external AM and FM antennas. Tubes: 3-6SK7, 1-6SA7, 1-6H6, 5-6AG5, 1-6C4, 2-9001, 1-6AL5, 1-6SN7GT, 2-6L6, 2-6J5. Has 5Y3G and 5Y4G rectifiers, and 6U5/6G5 tuning indicator. Chassis mounting space: Tuner—14 $\frac{1}{2}$ " W., 12 $\frac{1}{4}$ " D., 8 $\frac{1}{2}$ " H.; Amplifier—7 $\frac{1}{2}$ " D., 16 $\frac{1}{4}$ " W., 8 $\frac{1}{2}$ " H. For 105-125 volts, 50/60 cycles AC. Supplied complete with tubes, two antennas, escutcheon and knobs. Shpg. wt. 50 lbs. List price \$432.35. Meissner Model 9-1093—**NET 254.21**

Meissner engineered this fine FM-AM chassis with one thought in mind—high fidelity reception and reproduction at unbelievably modest cost. Gives you facilities for complete FM, AM and phono operation. Even a power outlet plug is included to provide power for your phono motor. Designed for custom installations or for converting obsolete radio combinations. The highly sensitive and selective chassis features two separate FM IF coils and two separate AM IF coils, plus a four-section gang condenser. All controls are on the front panel, including a tone control which operates on phono as well as radio. Oversized components, such as heavy duty Thordarson power transformer, assure long life and trouble-free operation. Wide audio fidelity is capable of powering a fine speaker with excellent tone reproduction. New High "O" die-stamped loop for AM and built-in FM antenna are included. Chassis is equipped with terminals for external antennas when needed. Tubes: 3-6BA6, 1-12AT7, 1-6AL5, 1-6BE6, 1-6AT6, 1-6V6 power amplifier and 5Y3 rectifier. Size: 11 $\frac{1}{4}$ " W., 8 $\frac{1}{2}$ " H., 8" D. Shpg. wt. 16 lbs. Supplied with tubes, dial escutcheon and knobs. List Price \$118.30. Meissner Model 9AJ—**NET 69.53**

Meissner 8BT—As above, but requires external amplifier—**NET 64.78**

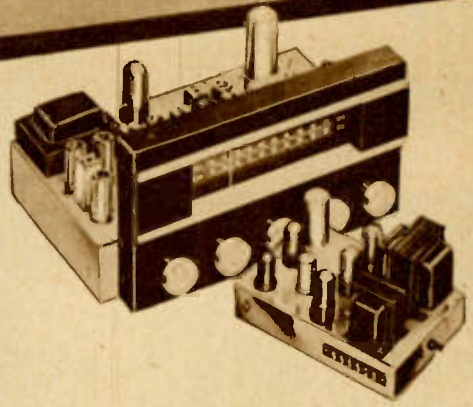
**MEISSNER MODEL 8C
FM TUNER**

**MEISSNER MODEL 9-1091C
FM-AM TUNER**

Covers AM band from 527-1620 kc and entire FM band from 88-108 mc. Sensitivity 10 microvolts. Frequency response 30-15,000 cycles ± 2 db. Hum level 60 db below full output. Separate bass and treble controls. 10 db boost at 40 cycles; 12 db attenuation at 8000 cycles. 11 volts output at high impedance terminals; 2 volts at 500-ohm terminals. Equipped with input for crystal phono. FM section requires 300-ohm dipole. Tubes: 4-6BA6, 1-6C4, 2-6BE6, 3-6AG5, 2-6AU6, 1-6AL5, 2-6J5. Also has 6U5/6G5 tuning indicator and 5Y3GT rectifier. Operates on 105-125 volts, 50/60 cycles AC. Dimensions: 16 $\frac{1}{2}$ " W., 10 $\frac{1}{4}$ " D., 8 $\frac{3}{4}$ " H. Supplied complete with tubes, escutcheon, knobs and hardware, but less antenna. Shpg. wt. 23 lbs. List Price \$341.70. Meissner Model 9-1091C—**NET 200.90**

Adds static-free reception to any AM receiver, instantly converting it for FM use. Provides the ultimate in listening pleasure without outside electrical interference. Can be used with any high quality power amplifier having a high impedance input. Standard 300-ohm antenna input. Sensitivity 40 microvolts. Output flat within 2 db from 50 to 15,000 cps. Large 5 $\frac{1}{2}$ " slide rule dial calibrated in mc and channel numbers for easier tuning. Unit is also equipped with a tuning control and a combination volume control and power switch. Built-in power supply for 105-125 volts, 50/60 cycles AC. Attractive walnut cabinet 12 $\frac{3}{4}$ " W., 6 $\frac{3}{4}$ " H., 8" D. With tubes. Shpg. wt. 13 lbs. List \$91.15. Meissner Model 8C—**NET 53.61**

Meissner Model 8CC chassis only. Same as above, less cabinet. Size: 11 $\frac{1}{4}$ " W., 7 $\frac{1}{2}$ " D., 6" H. Shpg. wt. 10 lbs. List \$81.60. **NET 47.97**



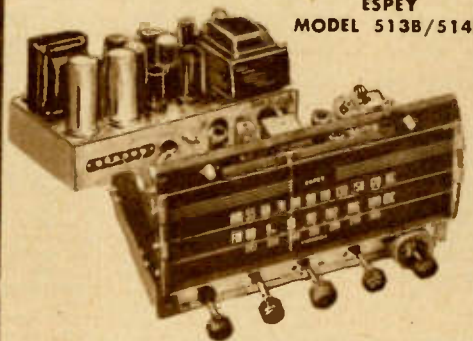
**RADIO CRAFTSMEN MODEL RC-10
FM-AM TUNER & AMPLIFIER**

An acknowledged leader in its field. This high fidelity tuner has a flat frequency range of 20-20,000 cps. Includes such deluxe features as automatic frequency control which eliminates annoying drift; a tuned RF stage on both FM and AM; built-in preamplifier; continuously variable bass and treble controls. Sensitivity is 5 microvolts on both bands. Bass variable to 12 db boost or 10 db cut at 70 cps; treble to 8 db boost or 15 db cut at 10,000 cps. Controls: Bass; ON-OFF/Volume; Tuning; FM-AM-Phono-TV Selector; Treble. Has built-in loop antenna for AM and 72 or 300-ohm input for FM; built-in FM antenna. Edge lighted slide rule dial. Complete with 11 tubes and 6X5GT rectifier, dial escutcheon, knobs and instructions. Chrome plated chassis measures 13 $\frac{1}{2}$ " W., 9 $\frac{1}{2}$ " D., 7" H. Operates on 105-125 volts, 60 cycles AC. Shpg. wt. 16 lbs. List \$219.00. Radio Craftsmen Model RC-10—**NET 131.50**

MODEL RC-2 HI-FI AMPLIFIER

Companion unit to the above tuner. 10 watts of undistorted output obtainable at 4, 6, 8, 15 or 500 ohm impedance taps. Frequency range 20 to 20,000 cycles ± 1 db. Overall gain of 70 db, including inverse feedback. Hum level 70 db below rated output. Input 500,000 ohms. Chrome plated chassis measures 7x10W x6"H. Complete with four tubes plus rectifier. For 105-125 volts, 60 cycles AC. Shpg. wt. 12 lbs. List Price \$71.65. Radio Craftsmen Model RC-2—**NET 42.90**

**ESPEY
MODEL 513B/514B**



FM-AM TUNER & AMPLIFIER

Well-known deluxe tuner and amplifier for the discriminating listener who wants exceptional performance. Fine superheterodyne circuit with improved FM, stabilized against drift. Full range bass and treble controls operate on both radio and phono. Wired and equipped with switch for connection of variable reluctance or crystal pickup. Uses a 6-gang condenser and tuned RF circuits on FM and AM. A preamplifier stage is included for reluctance pickup use. Tuner includes eleven latest type tubes. The 514B amplifier contains the power supply and is designed specifically for use with the 513B tuner. It includes 6 tubes and 2 rectifiers, and features parallel push-pull output, self-balanced phase inverter, inverse feedback and an extended range high fidelity response. Impedance selective for any speaker from 4 to 500 ohms. For use on 105-125 volts, 50/60 cycles AC. Tuner dimensions: 13 $\frac{1}{2}$ " W., 8 $\frac{1}{2}$ " H., 9" D. Amplifier dimensions: 13 $\frac{1}{2}$ " W., 7 $\frac{1}{2}$ " H., 7" D. Supplied complete with tubes. Shpg. wt. 40 lbs. Espey Model 513B/514B—**NET 129.50**

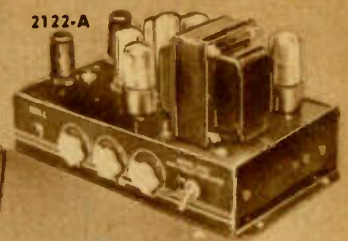


DB10

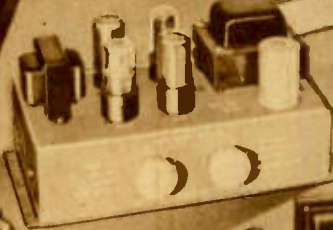
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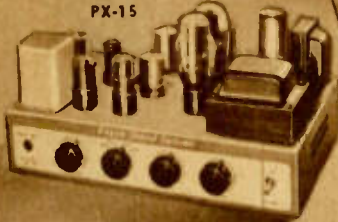
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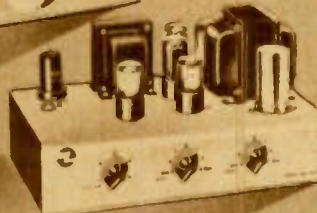
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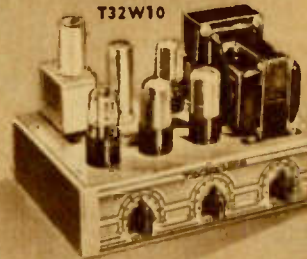
PX-15



MA-10HF



T32W10



T32W00



FINE QUALITY HIGH FIDELITY AMPLIFIERS

BOGEN DB10 10-WATT AMPLIFIER

A new, improved model of this popular and recommended amplifier for high fidelity radio and phono systems. Features a shock mounted preamplifier with compensated inputs for GE, Pickering, crystal and LP cartridges, and truly effective, separate bass and treble controls. Frequency response is flat from 30-18,000 cycles within 1 db. A potting arrangement on rear of chassis permits simple switching of radio tuner and high level crystal cartridges into the amplifier with the preamplifier out of the circuit. Outputs: 4, 8, 16 ohms. Hum level is 23 db, better than RMA standard. Power consumption: 70 watts at 117V., 60 cycles AC. Size (with cage): 11" W., 7" D., 7 1/4" H. Shpg. wt. 15 lbs. Complete with tubes. Bogen Model DB10. List \$90.75.

53.36

Model EXT-4. 4-Ft. Extension shaft kit for above amplifier permits perfect custom installations. Includes flexible control extensions, wooden block assembly, hardware and instructions.

EXT-4—Shpg. wt. 5 lbs. **11.31**

BOGEN PH10 10-WATT AMPLIFIER

Universally praised by independent consumer research organizations. Features 4-position multi-range tone control to provide the best corrected response for different program material. Deep Bass, Mellow Bass with broadened high frequency response. Wide Range, and Extended Range for FM. Power output of 10 watts and peak of 14 watts. Frequency response 40-15,000 cps \pm 1 db. Input circuit accommodates any crystal phono or output of radio-TV tuner. Input impedance 500,000 ohms. Output impedances: 3.2 and 8 ohms. Hum level 80 db below full rated output. Power consumption: 60 watts at 117V., 60 cycles AC. Tubes: 1-6SL7GT, 2-6V6GT, Has 1-5Y3GT rectifier. Size: 11" W., 6" H., 5" D. Shpg. wt. 11 lbs. List \$56.38. Bogen PH10 Amplifier.

33.15

Model EXT-2. Extension shaft kit to permit simple custom installation of above amplifier. Contains two flexible, mechanically driven control shaft extensions (4-ft.) plus finished wooden block assembly, stopes, screws for mounting and instruction sheet. EXT-2—Shpg. wt. 3 lbs. **6.47**

HF-1 HIGH FIDELITY HARNESS

The new Bogen HF-1 is a switch and cable harness card inter-connecting any tuner, record changer and amplifier in high fidelity installations. A single control provides selection of Power Off, Phono and Power On, Tuner and Power On. Two AC receptacles are built in. Cables are 4 ft. for amplifier and 2 ft. for phono and tuner, all with connectors. Bogen HF-1 Harness—Shpg. wt 2 lbs. **6.47**

BELL 2122-A 10-WATT AMPLIFIER

A fine, medium-priced high fidelity amplifier, incorporating important features usually found only in more expensive units. Has four inputs for Radio, Crystal Pickup and two for Magnetic Pickups, with built-in pre-amp for each of the latter. Individual equalization for each input. Frequency range 30-15,000 cps \pm .75 db. 10 watts output at less than 3% distortion. Hum level 65 db below rated output. Output impedance 3-4, 6-8 and 15-18 ohms. Controls: Bass; Treble; Volume; ON-OFF. Tubes: 2-6V6GT, 2-6SL7GT, 12AX7. Uses 5Y3GT rect. All supplied. For 117 volts, 60 cycles AC. Size: 6" x 11 1/2" x 7 1/2" deep. Shpg. wt. 11 lbs. BELL 2122-A. List \$84.10. **NET 49.45**

Model 2122A-R Amplifier. Same as above, but with separate control box for electrical remote control through 4-ft. shielded cable. BELL 2122A-R. List \$105.85. **NET 62.24**

BELL 2145-A ALL TRIODE HIGH FIDELITY AMPLIFIER

A truly fine all-triode, remote controlled high fidelity amplifier for the discriminating listener. The attractive, compact, electronic remote control cabinet can be located at your fingertips for luxury listening, up to 25 feet away from the master amplifier. Frequency range 20-30,000 cps \pm .25 db. Power rating 20 watts at less than 2% distortion, 15 watts at less than 7%. Hum level 80 db below rated output. Six inputs: For pickups, 1 low-level magnetic, 1 high-level, magnetic, 1 crystal; for radio, 1 low-level, 1 high-level, and 1 microphone input. Controls on remote cabinet: Selector Switch, Volume Control, Bass, Treble, On-Off Switch. Output impedance, 4/8/16 ohms. Supplied with 3-12AU7, 3-12AX7, 2-6SN7GTA, 2-6B4G. Has 5V4G rectifier. For 117 volts, 50/60 cycles AC. Size: Remote Unit, 4 1/4" x 10 3/4" deep; Power Amplifier, 7 x 17 x 8 1/2" deep. With complete instructions. BELL 2145-A. List \$298.50. **NET 175.52**

20 Ft. Extension Cable. For use with remote unit, for remote installation. BELL 2148. List \$11.00. **NET 6.47**

BOGEN PX-15 15-WATT AMPLIFIER

This new PX-15 15 watt De Luxe amplifier is an electronic instrument of truly high fidelity. Features dual tone controls for bass and treble; built-in pre-amplifier for GE, Pickering, Astatic and similar magnetic pickups. Frequency range 30-20,000 cps \pm 1/2 db. Hum 75 db below rated output. Has exclusive Range Master Control, operating independently of tone controls, to correct for various conditions of record noise. DC heated filaments on pre-amp and voltage amplifier tubes for minimum hum. Output impedances: 4/8/16/500 ohms at terminal strip and 2 speaker sockets. Complete with 12SJ7, 12AU7, 6SL7, 2-6L6G. Also 5Y3GT rectifier. Size: 15 x 8 x 9 1/4" deep. For 117 V., 50/60 cycles AC. Shpg. wt. 25 lbs. Bogen PX-15. List \$160.33. **NET 94.28**

BOGEN EXT-5—Set of 5 mechanical extension shafts for above. **NET 13.75**

MASCO MA-10HF AMPLIFIER

A 10-watt, 4-input high fidelity amplifier with built-in compensation and sufficient gain for variable reluctance pickups. Two inputs are equalized for current types of variable reluctance pickups; the third is equalized for crystal pickups, and the fourth is unequalized for radio input. Separate treble and bass tone controls permit up to 12.5 db boost or attenuation of 50 cycles and 15 db high frequency boost, attenuation of 40 cycles. Frequency response is \pm 1 db from 20 to 20,000 cycles when the tone controls are set for "flat" response. Two hum-balancing adjustments bring the hum level down 70 db from rated output. Output impedances are 2, 4, 8, 16 and 500 ohms. Power requirements: 75 watts at 117 volts, 60 cycles AC. A power receptacle on the chassis permits plugging in a radio or phonograph. Gray hammetone chassis, 12 x 7 x 6 1/2" high. Tubes: 2-6SL7GT, 1-6SC7, 2-6V6GT, 1-5Y3GT (rectifier). Complete with tubes. Shpg. wt. 20 lbs. MASCO Model MA-10HF. **55.25**

List \$93.96. FS-1 Flexible Extension Shaft—3-ft. long for cabinet or panel mounting. Supplied with two coupling connectors. **2.07**

THORDARSON T-32W10 AMPLIFIER

A 10-watt audio amplifier available with optional plug-in preamp. Pre-wired socket is provided for plugging in preamp as easily as a tube. Amplifier has adequate gain without preamp to obtain full output from ordinary crystal pickup or tuner. Frequency response 20-20,000 cps. Hum level 70 db below rated output. Low harmonic and intermodulation distortion. Also features continuously variable and separate treble and bass controls. Output impedances: 3-4, 6-8 or 15-16 ohms, terminated to a four-screw terminal board. Includes self-contained power supply. Tubes: 1-6SL7GT, 2-6V6GT, 1-5Y3GT (rectifier). Gray hammetone finish chassis, 10 1/4 x 6 1/2 x 7 1/2" deep. Shpg. wt. 13 lbs. List \$65.95.

Thordarson T32W10 Amplifier **38.78**

THORDARSON T-32W00 PREAMPLIFIER

Separate plug-in unit designed for use with T32W10 Amplifier. Frequency compensated with 15 db bass compensation for magnetic phono pickups. Bass compensation can be removed for flat response when microphone operation is desired. Complete with tube. Shpg. wt. 1 lb. List \$11.90.

Thordarson T32W00 Preamplifier **7.00**

THORDARSON T-31W10AX AMPLIFIER

10W, Hi-Fi amplifier for average phono use. Response 40-15,000 cps, flat within 1 db. Features inverse feedback circuit, separate bass and treble controls, 1 mike and 1 phono. Hum level 60 db below rated output. Output: 4, 8, 15, 125, 250, 500 ohms available at 8-prong receptacle. For 110-120V., 50/60 cycles AC. With tubes. Shpg. wt. 22 lbs. List \$152.90.

Thordarson T-31W10AX Amplifier **89.91**



FOR CUSTOM INSTALLATIONS

BROOK 12A3 AMPLIFIER

with Remote Control Preamp

Designed primarily for home use and as part of a sound system that demands the widest audio frequency range at negligible distortion. This 10-watt, hi-fi amplifier uses low- μ triodes throughout. Interstage and output transformers of special design reduce harmonic distortion and intermodulation to the vanishing point. Transient peak circuit permits handling of higher than 10-watt output without increase in distortion. Frequency range 20-20,000 cycles within 0.5 db. Hum level 75 db below full rated output. Three inputs: one for tuner or TV, 80 db gain; two for low-level magnetic pickups, 105 db gain, compensated for pickup and recording characteristics. Output impedances: 2, 4, 8, 16, 20 ohms. 500 ohms ungrounded. Remote control preamp contains all controls and can be placed up to 50 feet from the amplifier (standard 6-ft cable length supplied). This unit is housed in compact, handsomely finished cabinet with solid walnut ends and a polished, oxidized-copper cover. Controls: Volume, Bass, Treble, Input Selector, Pilot Light and Power Switch. Bass and treble controls consist of stepped, two-stage R-C networks. Power consumption: 110 watts at 117 volts, 50/60 cycles AC. Tubes: 2-2A3 (or 300B), 1-6SN7, 2-6J5. Has a 5U4G rectifier. Preamp has 4-6J5J triode-connected. Size: 17" W, 6 3/4" D, 8 1/2" H, basic amplifier; 12 3/4" W, 6 1/2" D, 3 3/4" H, preamp. Shpg. wt. 28 lbs.

Brook 12A3 Amplifier & Preamp **198.00**
Brook 12A Basic Amplifier—Same as above but without preamp and remote control cabinet. Has no controls. Shpg. wt. 22 lbs. **118.50**

BROOK 10C3 AMPLIFIER

with Remote Control Preamp

This brilliant 30 watt all-triode, high fidelity amplifier will add the dimension of "presence" to your radio, record and TV listening. Using only low- μ triodes for exceptionally brilliant and clean reproduction. Has a patented Automatic Bias Control for increased power output and efficiency. Frequency range 20-20,000 cps \pm 2 db. 10C3 consists of a basic amplifier and a remote-control pre-amp, with 6 ft. cable, containing all controls, making it adaptable for custom cabinet installations, or table use. Remote control unit may be used up to 50 ft. from basic amplifier. 5 input channels: 2 for radio tuners, 2 for low-level magnetic pickups and 1 for microphone. Both bass and treble controls are 8-step switch type. Other controls are Volume, Input Selector, Power Switch, Has pilot light. The preamplifier is housed in a compact cabinet handsomely finished with solid walnut ends and a lucite cover. Bass and treble controls use special circuits to give optimum results on any recording, TV or radio program. They are particularly useful in maintaining natural tone when operating a speaker at low volume. Pre-amp uses 4-6J5J; basic amplifier uses 2-2A3 (or 300B), 6SN7, 6-6J5, and has a 5U4G rectifier. Power is available to supply an AM-FM tuner. Output impedances 2/4/8/16/20/500 ohms. Remote cabinet, 12 3/4" W, 3 3/4" H, 6 1/2" D, deep; Basic Amplifier, 8 1/2" H, 17" W, 14" D. For 117 volts, 50/60 cycles. Shpg. wt. 45 lbs. With tubes.

BROOK 10C3 Amplifier (With Remote Control) **NET 315.00**
Basic Amplifier only, no controls.
BROOK 10C **NET 228.00**

RADIO CRAFTSMEN MODEL C500 ULTRA-FIDELITY AUDIO AMPLIFIER

This brand-new all-triode amplifier, product of the famed Radio Craftsmen organization is based on the famous Williamson circuit. The amazing degree of "presence" offered by this amplifier, when used with complementary tuners and record players must be heard to be truly appreciated. Total harmonic distortion less than 0.1% at 10 watts or mid-frequencies. Rated at 15 watts nominal with a frequency response of 20-20,000 cps \pm 0.1 db; 5 to 150,000 cps \pm 2 db. Intermodulation distortion less than 0.5% at 10 watts. Hum and noise level 90 db below rated output. Employs 20 db of inverse feedback and direct-coupled, split-load phase inverter feeding triode drivers and Class A operated triode output tubes.

By following closely D.T.N. Williamson's choice of output tubes and original requirements for the output transformer, amazing performance has been achieved. The transformer is fully potted in a steel case and features interleaved windings, low leakage inductance, high primary inductance, and full power output over the entire audio spectrum. Other components are as carefully selected. The entire chassis is of polished chromium plate; 13 1/2" x 7 1/2" x 8" deep. Output impedance, 8 and 16 ohms nominal. Tubes 2-6SN7GTA, 2-KT66 (6L6). Has 5V4 G rectifier. For 117 volts, 60 cps, AC. Shpg. wt. 25 lbs.

RADIO CRAFTSMEN C500. **99.50**
NET.

NEW SCOTT 214-A 20-WATT Remote Control Amplifier

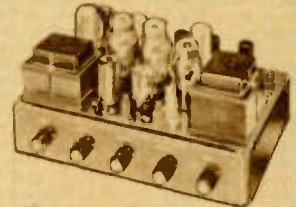
The new H. M. Scott 20-Watt High Fidelity Amplifier combines low price, unsurpassed convenience of installation and operation, and the superb performance and construction for which Scott amplifiers are famed. Consists of the 120-A Equalizer-Preamplifier, and 220-A Laboratory Power Amplifier described below.

Type 120-A Equalizer-Preamplifier. A new front-end remote control unit with input selector and 8-position record-compensator switch. Has automatic loudness control (operates on highs and lows). Individual three-channel treble and bass tone controls provide attenuation or boost of 6 db per octave. Input-level adjustment for matching most pickups. DC operated pre-amplifier. Handsome mahogany cabinet, 10" x 4 1/2" x 6 3/4" deep. Complete with 6-ft. remote cable for connection to most power amplifiers.

SCOTT 120-A. Shpg. wt. 10 lbs. **NET 74.72**

Type 220-A Laboratory Power Amplifier. Class A throughout, this is an outstanding basic amplifier for high fidelity or laboratory use. Flat frequency response from 12 to 22,000 cps. Negligible hum and distortion (0.1% at peak). Harmonic distortion 0.5% at 20 watts, 0.3% at 15, 0.2% at 8. Hum level 86 db below full output. Low output impedance provides optimum speaker damping and less than 2 db regulation. For 117V, 60 cycles AC. Size 14 x 6 1/2 x 7 3/4" deep.

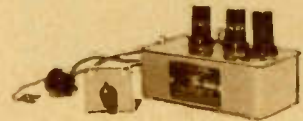
SCOTT 220-A—Shpg. wt. 22 lbs. NET 115.15
SCOTT 214A—Includes 120-A and 220-A. NET 189.87



SCOTT 210-B 20-WATT AMPLIFIER

Undoubtedly one of the finest amplifiers made. True high fidelity design combined with a dynamic noise suppressor provide full-range, noise-free reproduction of all recorded music. Latest circuits virtually eliminate record surface noise and turntable rumble without losing "highs" and "lows." Harmonic distortion of amplifier is less than .5% of full rated 20 watts output; intermodulation less than .1%. Frequency range flat from 12-22,000 cycles with controlled cut-off characteristics beyond. New type loudness control scientifically designed to maintain constant apparent quality at all levels. Individual bass and treble controls. Maximum treble boost 23 db at 15,000 cycles; maximum bass boost 32 db at 30 cycles. Input impedance .5 meg. Matches all speakers from 1 to 24 ohms. Hum level 80 db below full output. Compensated preamplifier operated entirely on DC. Filter control limits range to 6, 12 or 22 Kc. as desired. Tubes: 2-12SL7GT, 1-6SN7GT, 1-6SQ7, 2-6SG7, 1-6J5, 2-6L6C, 1-5V4G. For 117V, 60 cycles AC. Demountable bronze panel. Size: 14 1/2" W, 8 1/2" H, 10 3/4" D.

Scott 210-B Amplifier—Shpg. wt. 23 lbs. NET 219.52



SCOTT 111-B DYNAURAL CONVERTER

Reduces annoying record scratch and motor rumble in any high fidelity system. Uses new mutual conductance gate circuit giving flat response from 30-10,000 cycles, and a useful range from 20-15,000 cycles. Chassis mounts near other equipment. Single control located at end of extension cable. Operating power for unit obtained through plug. High impedance input and output circuits match most systems. Supplied with 1-6SQ7, 2-6SG7, cables and accessories. 7 x 3 1/4 x 4 1/4".

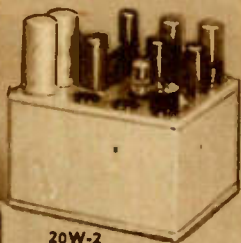
Scott 111-B—Shpg. wt. 4 1/2 lbs. NET 29.99

Scott 112-B Dynaural Preamplifier—Similar to above except has preamplifier equalized for magnetic pickups, 3-position high frequency control and 3-position record turnover frequency control. An AM whistle filter for AM tuner use is also included.

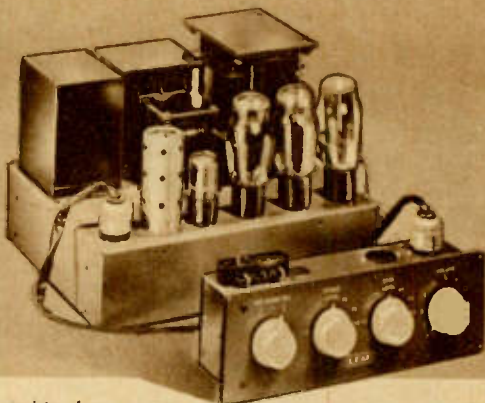
Scott 112-B—Shpg. wt. 6 lbs. NET 49.98



50W-2



20W-2



CUSTOM AMPLIFIERS

McIntosh Laboratory Standard Custom Amplifiers

- Useful Bandwidth 10 to 200,000 cycles
- Exceptionally High Efficiency
- Negligible Impulse Distortion
- Simplified Plug-In Components

These high fidelity amplifiers are the product of years of development of an audio amplifier free of distortion, both single frequency and intermodulation. At continuous full power of 50 watts, and instantaneous power of 100 watts from two 6L6 tubes, Model 50W-2 gives substantially less than 1% distortion over a frequency range of 20 to 20,000 cps without overloading. The 20W-2 gives similar performance for 20 watts. Useful bandwidth of both, from 10 to 200,000 cycles, keeps harmonic and phase distortion at the low value achieved and desired. Impulse distortion has been virtually eliminated. Both amplifiers have a damping factor of 10. Output impedance 600 ohms balanced; 4/8/16/32 ohms balanced or unbalanced. Noise and inverter amplifier input is 90 db below rated output. A unique feature of the McIntosh is the plug-in unit arrangement permitting instant substitution of sections of the circuit as one would change a tube. For superior quality, high efficiency and full dynamic range, these amplifiers have earned a superlative reputation. Ask the man who has heard one.

MODEL 50W-2. This 50 watt model consists of one power amplifier and one power supply unit. Each chassis is 8 3/4" x 6 3/4" x 4 3/4" high; with tubes mounted 9 1/2" H. Both chassis will mount on a standard rack panel 7x19". Tube complement: 2-6L6 or 1614, output; 2-6J5, driver; 12AX7 inverter amplifier; 12AX7 pre-amplifier (as required). There are 2-SU4G rectifiers. Aluminum gray Hammettone finish. Shpg. wt. 60 lbs.

McIntosh 50W-2.....NET **249.50**

MODEL 20W-2. This 20 watt model is on one chassis 8 3/4" x 6 3/4" x 4 3/4" high. Tube complement: 2-6V6G, output; 2-6J5 driver; 12AX7 inverter amplifier; 12AX7 preamplifier (as required). Has 5Z4 rectifier. Aluminum gray Hammettone finish. Shpg. wt. 28 lbs.

McIntosh 20W-2.....NET **149.50**

Model AE-2A Amplifier Equalizer

For use with either amplifier above. Has 5 input circuits: 1) crystal phono; 2) FM-AM tuner; 3) Pickering pickup; 4) G E. pickup; 5) low-level mike—all on selector switch. Bass control, 20 db boost, 12 db droop. Treble control, 20 db boost or droop. Correct equalization for any recording. 300 and 600 cycles turn-overs at 6 db octave rate. Master volume control. Connector for obtaining power from main amplifier, and connecting equalizer output to power amplifier. Mahogany finished case, brown hammettone panel; size, 11" W, 3 1/4" H., 10 1/2" D. May be operated up to 30 ft. away. Shpg. wt. 10 lbs.

McIntosh AE-2A.....NET **74.50**

LEAK "POINT ONE" AMPLIFIER

This is the famous English 12-watt, high fidelity triode amplifier with 0.1% total harmonic distortion. Features a 3-stage, triple loop feedback circuit resulting in a hum and noise level between 80 and 72 db below 10 watts. The main loop gives 26 db feedback over the entire amplifier. Output stage uses two, 25-watt triodes in push-pull. Frequency response 20-20,000 cps at ± 0.1 db. Total harmonic distortion: 0.1% of 1000 cps; 0.19% at 60 cps; 0.21% at 40 cps; all at 10 watts. Input impedance 1 meg. Output impedances: 1.7-2.3, 6.8-9.2, 15-20, 27-36 ohms. Preamplifier is enclosed in a separate remote control unit with a 42" connecting cable for plug-in attachment to the amplifier. Power is obtained from the amplifier. Four separate panel controls for bass, treble, volume and input selection, give effective control and correction for the various speed and type records, different pickups, mikes and tuners. English tubes used, replaceable with standard 6J7, 6SN7, 6L6 and 5U4G. Power consumption 120 watts at 105-125 volts, 50/60 cycles AC. Amplifier size: 12 1/2 x 10 x 8 1/4"; pre-amplifier size: 10 x 3 x 2 3/4" H. Shpg. wt. of both units, 40 lbs.

Leak "Point One" Amplifier & Preamp.....**192.00**

Leak "Point One" TL/12 Amplifier only (No Controls).....**153.70**

CABINART CUSTOM STYLED CABINETS FOR RADIO & TV

MODELS 21 and 22 AMPLIFIER, RADIO-PHONO, SPEAKER CABINETS

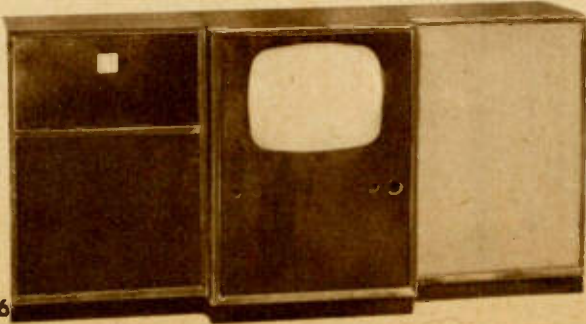


Cabinart's matched units make it easy to select your own cabinet arrangements for radio, television, phonograph and speaker components. They are beautifully designed modern cabinets of selected veneers, expertly constructed to last a lifetime. Great care has been taken to assure the best possible acoustics without sacrificing the fine custom styling.

MODEL 21. Record changer, amplifier and radio cabinet of 3/8" furniture veneer. Measures 35 1/2" H., 23 1/2" W., 18" D. Record changer compartment mounted on ball bearing slides. Doors cover radio and amplifier control panel. Available in Red or Cordovan Mahogany, Lined Oak, or Medium Walnut finishes. (Specify finish.)
Cabinart Model 21—Shpg. wt. 75 lbs.....**138.00**

MODEL 22. Bass reflex speaker cabinet identical in size, style and finishes to Model 21. Baffle volume 6 1/2 cu. ft. Fiberglass insulation; monks cloth grille. Supplied with blank baffle unless cut-out desired is specified (no extra charge). (Specify finish.)
Cabinart Model 22—Shpg. wt. 75 lbs.....**92.00**

NOTE: Write for literature and prices on other fine Cabinart deluxe cabinets for custom installations.



MODELS 10 and 11 SINGLE UNIT RADIO-PHONO SYSTEM CONSOLE CABINETS



MODEL 10. Designed to accommodate most record changers, radio and speaker systems. Speaker enclosure has a baffle volume of 5 cubic feet. Record changer drawer mounted on ball bearing slides. Overall dimensions: 35 1/2" H., 35 1/2" W., 18" D. Available in Red or Cordovan Mahogany, Lined Oak or Medium Walnut finishes.
Cabinart Model 10—Shpg. wt. 100 lbs. (Specify finish.).....**180.00**

MODEL 11. Same as above except with record storage space instead of speaker enclosure. Can be used with Model 22 speaker cabinet as a companion piece.
Cabinart Model 11—(Specify finish.).....**180.00**

MODEL 28. Economy model record changer, amplifier and radio cabinet with open face control panel. Overall dimensions: 35 1/2" H., 23 1/2" W., 18" D. Available in Blond Birch and Cordovan Mahogany on Birch. Shpg. wt. 75 lbs.
Cabinart Model 28—(Specify finish.).....**72.00**

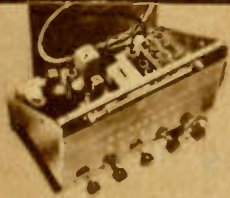
MODEL 27. Matching speaker cabinet. Same style, size and finish as Model 28. Baffle volume 6 1/2 cubic feet. Fiberglass insulation.
Cabinart Model 27—Shpg. wt. 60 lbs. (Specify finish.).....**48.00**

MODEL 29S. Television chassis cabinet measures 35 1/2" H., 25" W., 22" D. Style and finishes same as Models 27 and 28.
Cabinart Model 29S—Shpg. wt. 75 lbs. (Specify finish.).....**81.00**

COMPLETE HIGH FIDELITY ENSEMBLES

Illustrated below are five complete high fidelity ensembles, made up of components listed in this catalog. These are but a few typical examples of high fidelity groupings of the literally thousands which can be assembled from the tuners, amplifiers, speakers and record playing equipment we can supply. They constitute the basic elements, the "heart" of high fidelity reproduction systems.

These systems are "matched", that is, all the units are complementary to each other for optimum performance. Any other high fidelity system of your choice most certainly can be selected from the pages of quality components in this book. Should you need or desire assistance in the selection of units for your ideal system our high fidelity experts will be very happy to help in every possible manner.



ESPEY 511B
(See Pg. 2)



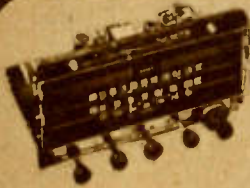
WEBSTER 100-270
(See Pg. 12)



UNIVERSITY 6200
(See Pg. 9)

ENSEMBLE HF-1

This complete radio and phono ensemble consists of:
 ESPEY Model 511B AM-FM Tuner-Amplifier Chassis.....104.50
 WEBSTER Model 100-270 Three Speed Changer..... 38.81
 UNIVERSITY 6200 High Fidelity Ensemble HF-1 Shpg. wt. 45 lbs. **163.89**
 NET TOTAL.....



ESPEY 513B/514B
(See Pg. 3)



WEBSTER 106-27
(See Pg. 12)



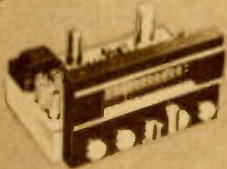
G. E. CARTRIDGES
(See Pg. 13)



UNIVERSITY 6201
(See Pg. 9)

ENSEMBLE HF-2

This complete radio and phono ensemble consists of:
 ESPEY 513B FM-AM Tuner & ESPEY 514B Amplifier.....129.50
 WEBSTER 106-27 Changer... 37.83
 GE Long Play Cartridge.... 5.85
 GE Standard Cartridge..... 5.85
 UNIVERSITY 6201 Speaker 44.10
 High Fidelity Ensemble HF-2 Shpg. wt. 78 lbs. **223.13**
 NET TOTAL.....



RADIO CRAFTSMEN
(See Pg. 3)



WEBSTER-CHICAGO 106-27
(See Pg. 12)



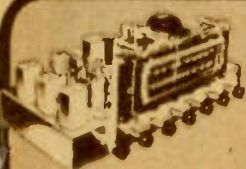
G. E. CARTRIDGES
(See Pg. 13)



STEPHENS P102FR
(See Pg. 10)

ENSEMBLE HF-3

This complete radio and phono ensemble consists of:
 RADIO CRAFTSMEN AM-FM Tuner.....131.50
 RADIO CRAFTSMEN Audio Amplifier..... 42.90
 WEBSTER 106-27 Changer... 37.83
 GE Long Play Cartridge.... 5.85
 GE Standard Cartridge..... 5.85
 STEPHENS Model P102FR 15-Inch Speaker..... 69.09
 Ensemble HF-3 Shpg. wt. 87 lbs. **293.02**
 NET TOTAL.....



BROWNING RJ-20A
(See Pg. 2)



G. E. PREAMP
(See Pg. 13)



BROOK 12A
(See Pg. 8)



G. E. CARTRIDGES
(See Pg. 13)



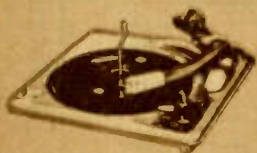
GARRARD RC-80
(See Pg. 12)



JENSEN H510
(See Pg. 8)

ENSEMBLE HF-4

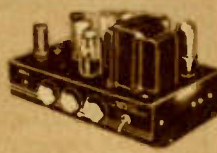
This complete radio and phono ensemble consists of:
 BROWNING Model RJ-20A AM-FM Tuner.....175.17
 BROOK 12A Basic Amplifier..... 118.50
 GARRARD RC-80 Changer... 39.00
 GE Long Play Cartridge.... 5.85
 GE Standard Cartridge..... 5.85
 JENSEN Model H-510 15-Inch Speaker..... 90.85
 Ensemble HF-4 Shpg. wt. 125 lbs. **435.22**
 NET TOTAL.....



WEBSTER-CHICAGO 106-27
(See Pg. 12)



G. E. CARTRIDGES
(See Pg. 13)



BELL 2122-A
(See Pg. 5)



G. E. S1201D
(See Pg. 11)

ENSEMBLE HF-5

This complete phono system (no radio) consists of:
 BELL 2122A Amplifier49.45
 WEBSTER 106-27 Changer... 37.83
 GE Long Play Cartridge.... 5.85
 GE Standard Cartridge..... 5.85
 GENERAL ELECTRIC S1201D 12-Inch Speaker19.95
 (This system requires only the addition of a tuner for use as a complete radio-phono system).
 Ensemble HF-5 Shpg. wt. 45 lbs. **118.93**
 NET TOTAL.....

NOTE ON ADAPTATION

The systems listed above, or any other system of your own choice, is supplied with each unit in its manufacturer's carton, and with manufacturer's Instructions for use and assembly. If you are not familiar with "hooking-up" various components of radio equipment, or should you desire us to arrange the system so that you merely

have to plug together two or three explicitly labeled cables, we can do this for you for the small charge of \$7.00. This charge includes interconnecting cables and plugs, testing for proper operation as a unified system, and a single sheet of instructions, so simple that anyone can follow them successfully.

ADAPTATION CHARGE FOR ANY HIGH FIDELITY SYSTEM.....\$7.00



G-610



H-510



K-210



K-310



P12-N



A-110



T-101

P12-SX

JENSEN HIGH FIDELITY SPEAKERS AND BASS REFLEX CABINETS

MODEL G-610 15" TRIAXIAL

The first integral 3-way loudspeaker system offered. Features three independently driven units. Has two compression driver and horn combinations, plus a heavy duty direct radiator, and 3-channel electrical crossover and control network. Here is a truly ultra high fidelity speaker with a frequency range of 20-20,000 cycles and the finest reproduction ever obtained. Each unit covers part of the total response range and dividing networks supply them signals within their respective range. 35 watts capacity. Wide angle vertical and horizontal radiation. Input impedance 16 ohms at input terminals to system on network chassis. Baffle opening 13 3/4"; O.D. 15 1/2"; overall depth 10 1/2". Crossover and control network has transition frequencies of 600 and 4000 cycles. Controls include overall level control, 4-position high frequency control, room size and brightness control. Size of network chassis: 5" W., 11 3/4" L., 6 1/2" H. Supplied complete with speaker unit and crossover network. Shpg. wt. 50 lbs.
ST900 Jensen Model G-610 Speaker System—List \$382.50.
NET..... **224.91**

MATCHING TRANSFORMERS FOR G610

Especially designed for G-610 speaker system described above when an impedance other than 16 ohms is required. Mounts directly on network chassis. Plug connections to chassis and speaker. For 4 or 8 ohms input.
ST846 Jensen Model T-201—NET **12.11**
List \$20.60
ST847 Jensen Model T-202—NET **12.11**
For 500-600 ohms.

MODEL A-110 CONTROL NETWORK

Provides adjustable level and high frequency range controls for Model H-510 and K-310 speakers. Mounts directly on speaker housing. Plug-in connections; no wiring changes necessary. Can be used with Impedance-adjusting transformers T-101, T-102 and T-103. Supplied with network, speaker connection cord and plug, level control and H-F range control on individual 30" cables for remote installation. Satin brass, flush-type escutcheons, bar knobs and mounting screws. Shpg. wt. 5 lbs. List \$31.50.
ST832 Jensen Model A-110—NET..... **18.52**

MODEL H-510 15" COAXIAL

A two-way speaker system featuring a wide-angle acoustic lens on the high frequency horn for improved distribution of high frequency radiation. Jensen annular Dioplane low frequency radiator gives increased smoothness of response. Speaker "presence" and brilliance of reproduction maintained essentially constant over the room. The high frequency range is reproduced by compression driver unit. 25 watts capacity and 16 ohms input impedance. Uses highly efficient Alnico V permanent magnet. Has Integral frequency-division system. For accessory H-F and Level Control facilities see the A-110 Control Network described on this page. Baffle opening 13 1/2"; O.D. 15 1/2"; depth 9 3/8". Shpg. wt. 25 lbs. List \$154.50.
ST828 Jensen Model H-510—NET..... **90.85**

MODEL K-310 15" COAXIAL

An integral frequency-division speaker system at a low cost, yet capable of excellent reproduction over the entire audio frequency range. Has the Dioplane radiator and piston-type high frequency unit. Superior overall efficiency and power rating of 16 watts. Cleanness and "presence" of sound and spatial distribution of high frequencies are exceptionally good. Input impedance 16 ohms. Designed for use with A-110 control network for adding H-F and Level Control facilities. Baffle opening 13 1/4"; O.D. 15 1/2"; depth 8 1/2". Shpg. wt. 12 lbs.
ST830 Jensen Model K-310—List \$65.50
NET..... **38.51**

MODEL K-210 12" COAXIAL

Provides high fidelity reproduction in a unit of small size and moderate cost. Ideal as a modernizing speaker for radio receivers, phonographs and TV sets equipped with inferior 12" speaker units. Has built-in frequency-division system. Power rating 12 watts. Input impedance 8 ohms. Baffle opening 10 1/2"; O.D. 12 1/2"; depth 6 1/2". Shpg wt. 8 lbs.
List price \$39.50.
ST831 Jensen Model K-210..... **23.23**

MODEL ST836 "L" TYPE VARIABLE CONTROL. For separate high frequency control of Model K-210 speaker. Impedance 16 ohms. Supplied complete with flush-type satin brass escutcheon and bar knob.
Jensen Model ST836—List \$5.25
NET **3.09**

PLUG-IN MATCHING TRANSFORMERS FOR H-510 AND K-310 SPEAKERS

Designed to provide alternative input impedances for H-510 and K-310 coaxial speakers. Excellent efficiency and high fidelity performance. Switch on chassis gives choice of two impedance values. No wiring necessary—merely insert connecting plug into socket on speaker terminal panel. Can be used with Model A-110 Control Network.
ST833 Jensen Model T-101 Transformer Assembly—Impedance 4 and 8 ohms.
ST834 Jensen Model T-102—500-600 and 250 ohms.
ST835 Jensen Model T-103—10,000 and 5000 ohms CT. For plate or high impedance line coupling.
Any of Above, Each, List \$13.25.
Net, Each..... **7.79**

JENSEN DELUXE BASS REFLEX CABINETS

Handsome, beautifully finished speaker cabinets constructed of selected woods and hand rubbed to a lustrous walnut finish. Distinctive styling combined with perfect acoustical design, make these fine enclosures ideal for home or professional installations. Has contrasting bronze wire grille. Accommodates Jensen or other high fidelity speakers. 31x27 1/4x13 1/4".

ST157 Jensen D151—For 15" Speakers. Shpg wt. 50 lbs..... **50.51**
ST156 Jensen D121—For 12" Speakers..... **50.51**



JENSEN TYPE "M" IMPERIAL CUSTOMODE CABINET

A striking new bass reflex speaker cabinet of unusual design that permits use in upright position or as a "low-boy". The front panel accommodates any 5" speaker and can be easily and quickly removed for installation. Merely unscrew the four decorative brass discs from the front. Positive, easy alignment and fastening of speaker to panel is accomplished by machine screws and anchor nuts which are set into back of panel. Concealed cut-outs, covered by removable matching wood discs, are provided in the panel for H-F Range and Level Controls if used. Size: 36x24x18". Supplied with removable gridded cloth-screen assembly with two wedge foot rolls. Shpg. wt. 80 lbs. Blonde or Cordovan Mahogany finish.
Jensen Type "M" ST-838 **107.31**
(Blonde)
Jensen Type "M" ST-858 **107.31**
(Cordovan)

LEG ASSEMBLY - Raises cabinet 8" above floor. Self-supporting. Must be ordered separately. Shpg. wt. 15 lbs.
Jensen ST-843 **10.29**
(Blonde)
Jensen ST-863 (Cordovan)..... **10.29**



JENSEN PM CONCERT SPEAKERS

Heavy-duty, highly efficient speakers for use in all types of radios, TV sets, public address equipment and high quality radio-phonographs. Use where exceptional power handling ability and quality needed. Completely dustproof. All models less output transformer. See page for suitable matching transformers.

Stock #	Model	Size	Watts	Voice	Coll	Wt., lbs.	List	Each
ST169	P8-R	8"	9	6-8	4	16.40	9.64	
ST121	P10-R	10"	10	6-8	5	18.70	11.00	
ST103	P12-R	12"	12	6-8	7	21.20	12.47	
ST673	P12-Q	12"	13	8	9	32.90	19.35	
ST656	P12-N	12"	15	8	16	56.50	33.22	
ST678	P18-Q	15"	14	8	15	44.25	26.22	
ST654	P15-N	15"	20	8	17	70.50	41.43	

JENSEN EXTENDED RANGE SPEAKERS

Single-unit, direct radiator speakers, recommended as replacement to improve performance of existing radio, TV and record-playing equipment. Also excellent for monitoring in broadcast studios. Alnico V permanent magnet types. Provide high fidelity performance up to 10,000 cycles. Supplied less output transformer. See page for suitable matching transformers.

Stock #	Model	Size	Watts	Voice	Coll	Wt., lbs.	List	Each
ST827	P5-TX	5"	4	3-4	3 1/2	9.50	5.59	
ST826	P6-TX	6"	5	3-4	4	10.35	6.09	
ST825	P8-SX	8"	7	6-8	5	15.20	8.94	
ST821	P12-SX	12"	9	6-8	6	21.20	12.47	



UNIVERSITY HIGH FIDELITY SPEAKERS ... TWEETERS AND FILTERS

MODEL 6201 HI-FI COAXIAL

Enjoy balanced response and full range reproduction with this 12", 25-watt, high fidelity coaxial speaker. Low frequencies handled by large, one-piece molded cone; high frequencies by a tweeter driver unit and horn coaxially mounted. Tweeter provides high frequency arc that blends with low frequency output to form a uniform area of sound 80° wide. A built-in, 2000-cycle crossover network assures maximum efficiency of the woofer and tweeter. The high frequency control is wired to the speaker and permits variable adjustment of the balance between highs and lows. Has powerful, 24-oz. Alnico V magnet of special design. Oversized voice coil wound on 2" duralumin support. Input impedance 8 ohms. Depth 8". Supplied with crossover network, high frequency attenuator already wired to speaker and cable for mounting it to panel. Shpg. wt. 9 lbs. University Model 6201.....

44.10

MODEL 6200 12" HI-FI SPEAKER

Answers the need for a top quality, but moderately priced speaker with a range of 45-10,000 cps, and a power handling capacity of 30 watts. 3" diameter duralumin dome at apex of specially curved one-piece molded cone reinforces the high frequency response. Rim treatment on cone minimizes possibility of diaphragm distortion and adds to life of the cone. Heat generated in speaker is dissipated by circulated filtered air created by back pressure of speaker diaphragm. Nominal impedance 6-12 ohms. Has some magnet as 6201. Depth 4-15/64". Shpg. wt. 7 lbs. University Model 6200.....

20.58

12" AND 15" SPEAKER BAFFLES



Finished and unfinished baffles for HI-FI speakers. Careful acoustic design assures excellent performance. Constructed of 1/2" plywood and equipped with speaker mounting board, screws, four insulating pads, tacks and special grille cloth. 12" cabinet 23 1/2 x 33 1/4 x 12 1/4"; shpg. wt. 30 lbs. 15" cabinet, 25 x 33 1/4 x 13 1/4"; shpg. wt. 35 lbs.

P22067-12" Unfinished	19.90
P22068-12" Tan Leatherette	22.38
P22065-15" Unfinished	23.65
P22066-15" Tan Leatherette	26.13

Any of above supplied with additional cutout for tweeter at extra cost of..... **\$3.00 Each**

TUFFLEX INSULATION



Sound absorbing insulating material. May be used for lining interior of radio-phonograph consoles and speaker cabinets. 1/2" thick. Sold in widths of 11". 7-ft minimum length sold. P20941-7 ft..... **1.00**
Longer Lengths Per Ft. **14c**

NEW MODEL DIFFUSICONE-12

This 12" 30-watt speaker new principle of dual horn arrangement giving wide angle, high fidelity response at an amazingly low cost. This design sets up two distinct sound wave paths. One follows path direction of inner horn, the other follows path of outer horn. Dural dome directly over voice coil acts as radial projector. Has a frequency response of 45-13,000 cps with uniform field pattern. Impedance 8 ohms. Important features include exclusive W-shape Alnico V permanent magnet which reduces reluctance and surface leakage losses, an oversized 2" voice coil on dural form, and a unique method of using filtered air circulated by back pressure of diaphragm to dissipate heat. Depth 4 1/2". Shpg. wt. 7 lbs. University Diffusicone-12.....

26.46

MODEL 4410 CROSSOVER NETWORK

Inductance-capacitance type. Prevents low frequencies from entering tweeter and eliminates high frequencies from woofer. Crossover frequency 600 cycles. Input impedance 6-12 ohms. Includes an external, completely wired high frequency attenuator permitting adjustment of balance highs and lows. With 36" cable for panel mounting. 4 1/4" H., 9 1/4" L., 3 3/8" D. Use with 4408 and 4409 tweeters. Shpg. wt. 5 lbs. University 4410 Network.....

20.58

MODEL 4420 CROSSOVER NETWORK. Same as above except with crossover frequency of 2000 cycles. 3 3/8" H., 7 7/8" L., 2 1/8" D. Shpg. wt. 3 lbs. University 4420 Network.....

11.76

MODEL 4405 HIGH PASS FILTER

A simple economical means of preventing low frequencies from entering tweeter circuit. Frequencies below 2000 cycles are shunted to the cone speaker, all others are permitted to activate the tweeter. Housed in sturdy die-cast aluminum case, and includes a high frequency volume control. 3 1/2" W., 2 1/4" D., 2 3/8" H. Shpg. wt. 2 lbs. University 4405.....

5.88

NOTE: We carry the complete lines of University and Jim Lansing "Signature" Speakers. Write for literature and prices on any model not listed on this page.

MODEL 4401 SINGLE TWEETER

Extends upper register of existing speakers to 15,000 cycles. Handles the output of 15-20 watt amplifiers when used with any suitable PM or field excited 10-18" cone speaker, and the correct high pass filter or crossover network. High conversion efficiency. 8-oz. Alnico magnet. Power: 6 watts of high frequency. Impedance 12 ohms. 4 1/2" W., 2 3/4" H., 5 1/2" D. Shpg. wt. 4 lbs. University 4401.....

11.76

MODEL 4402 DUAL TWEETER

Response essentially flat from 2000-15,000 cycles. Power: 12 watts of high frequency. Has wide dispersion area, 100° horizontal, 50° vertical. Unique shape of die-cast horn provides wider and more even distribution of high frequencies. Impedance (units in parallel) 6-8 ohms. Models 4405 high pass filter or 4420 network recommended for use with this tweeter. 9 1/2" W., 2 3/4" H., 5 1/2" D. University 4402-Shpg. wt. 6 lbs.....

23.52

MODEL 4408 6-WATT TWEETER

Response 600-15,000 cycles. Low frequency cut-off 600 cycles. "Cobra" horn consists of one-piece aluminum casting and gives wide vertical and horizontal distribution. Easily handles 15-20 watt amplifiers when used with suitable crossover and efficient cone speaker. Requires 4410 crossover. Impedance 12 ohms. 5 1/8" H., 7 3/8" W., 1 1/2" D. Shpg. wt. 5 lbs. University 4408 Tweeter.....

16.17

MODEL 4409 25-WATT TWEETER. Similar to above except handles 25 watts of high frequency power. Depth 1 1/2". Can take undistorted power of 25-40 W. amplifiers when used with large cone speaker. University 4409-Shpg. wt. 7 lbs.....

23.52

MODEL 4407 TWEETER ADAPTOR

Converts any 12" conventional type speaker to a coaxial type when used with Model 4405 high pass filter listed on this page. Response essentially flat from 2000-15,000 cycles. Impedance 12 ohms. Power: 6 watts of high frequency. Vertical dispersion 40°, horizontal dispersion 60°. Easy to install. Consists of Model 4401 single tweeter, an aluminum housing, a tweeter mounting strap and all necessary hardware. Ring diameter, 1 1/2"; depth 3". Shpg. wt. 6 lbs. University 4407.....

14.70

JIM LANSING SIGNATURE SPEAKERS

MODEL D-130 15"

The famous Jim Lansing precision engineered and constructed speakers are made to supply the finest loudspeaker performance possible without compromise, dependent only on your audio system. The 15-inch D-130, with a power handling capacity of 25 watts, has a virtually flat frequency response from 50 to 12,000 cps. Has a one-piece molded cone with aluminum high frequency center diaphragm. Uses an edge wound ribbon voice coil with a diameter of 4". 3 lb. Alnico V permanent magnet. Nominal impedance 16 ohms. Completely enclosed magnet mounted in heavy, rigid aluminum frame. O.D. 15 1/2"; depth 5 3/4". List \$

Jim Lansing D-130 Signature Speaker-Shpg. wt. 23 lbs..... **70.40**

MODEL D-131. Same design and construction features of D-130, except in 12" size and 20-watt power input. O.D. 12 1/8"; depth 5". Shpg. wt. 20 lbs. List \$

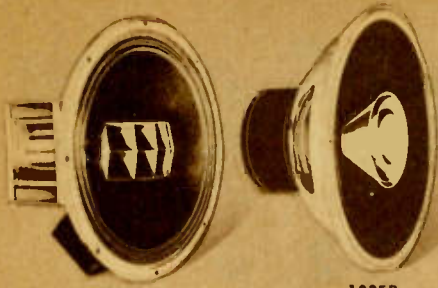
Jim Lansing D-131 Signature Speaker..... **67.20**

MODEL 208. A moderate priced 8" model with a power input of 12 watts. Has 15 oz. Alnico V PM, edge wound ribbon voice coil and aluminum high frequency center diaphragm vented to eliminate non-linear compression effects. Impedance 8 ohms. O.D. 8 1/2"; depth 2 1/4". Voice coil diameter 2". List \$

Jim Lansing Model 208-Shpg. wt. 5 lbs..... **24.32**



MODELS D-130 & D-131 12" & 15" LOW FREQUENCY UNITS

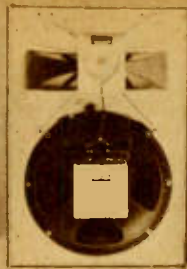


106-AX

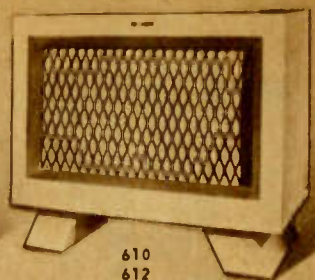
102FR



410
412



409



610
612

STEPHENS TRU-SONIC HIGH FIDELITY SPEAKERS

Model 106-AX—15" Coaxial

Designed for highest quality custom installations, monitoring for broadcast stations and motion picture reproduction. Renowned as one of the outstanding speakers. Combines in a single assembly a new low resonant, low frequency reproducer of the cone type, and a high frequency reproducer of the multicellular type with a complementary crossover network. Frequency range 35-12,000 cps \pm 5 db; usable range, 20-15,000 cps. Power handling capacity, 20 watts. 1200 cycle crossover. Wide angle dispersion 40° x 80° on high frequencies. 16 ohms input impedance. Has 6 1/2 lb. Alnico V magnet. Baffle opening 13 1/2" x 10 1/2" deep. Shpg. wt. 35 lbs.

STEPHENS 106-AX.....NET **122.01**
List \$166.00

Model 102FR—15" CoSpiral

A superb high fidelity speaker with 20 watts power handling capacity. Seamless, molded curvilinear cone for lowest frequencies and Silver Spiral differential diffuser give greater extended range and more efficiency than any single voice coil speaker. Range: 30 to 14,000 cps; flat \pm 5 db from 50 to 9,500 cps. Its superior performance results in part from the use of a powerful 4 lb. Alnico V magnet. Suitable for outputs from 8-16 ohms nominal impedance. 8 1/2" deep. Shpg. wt. 30 lbs. List \$94.00.

STEPHENS 102FR.....NET **69.09**

Model P22FR—12" CoSpiral

Similar to above, but 15 watts capacity. Range 40-14,000 cps. 2 1/2 lb. Alnico V magnet. Shpg. wt. 28 lbs.

STEPHENS P22FR.....NET **49.98**

Model 409—2-Way System

For those who demand a superb high fidelity speaker installation, this Stephens 2-way system is an ideal choice. Mounted on its own heavy baffle board, ready for installation in custom cabinets for phono-radio units, or in separate speaker enclosure. Rich, resonant bass tone, extended response from 35 to 14,000 cps \pm 5 db. The 409 system consists of the 814H, 4-cell horn with the P-15 high frequency driver, the 800X-2, 800 cycle crossover, and the P52LX low frequency driver with a 4.2 lb. Alnico V magnet. Input impedance is 10 to 20 ohms. Power handling capacity 20 watts. 27" H, 18" W, 14 1/2" D. Shpg. wt. 50 lbs. List \$212.00.

STEPHENS 409 2-Way System.....**155.82**

Model 409—2-Way Systems In Modern Cabinets

The Model 409 2-Way Speaker System, described at left, is available in several cabinet stylings expressly designed not only for their acoustic correctness but for their eye appeal. Exceptionally sturdy construction, finest hardwood veneers used throughout. Hand finished by master craftsmen. Available in mahogany or "blonde", bleached mahogany finish. 412-M Mahogany Cabinet System. 34 1/2" H, 23" W, 17" D. cabinet as illustrated, containing 409 system. Shpg. wt. 120 lbs. List \$346.00.

412-M System.....NET **254.31**

412-B System. Same as above, in Blonde. 412-B System.....NET **254.31**

612-M. Mahogany Cabinet only, as above. Shpg. wt. 70 lbs. List \$140.00

612-M Cabinet, only.....NET **102.90**

612-B. Blonde Cabinet only, as above. 612-B Cabinet, only.....NET **102.90**

410-M Mahogany Cabinet System. 30" H, 36" W, 20" D, cabinet as illustrated, containing 409 system. Shpg. wt. 130 lbs. List \$372.00.

410-M System.....NET **273.42**

410-B System. Same as above, in Blonde. 410-B System.....NET **273.42**

610-M Mahogany Cabinet only, as above. 610-M Cabinet, only.....NET **123.48**

610-B Blonde Cabinet only, as above. 610-B Cabinet, only.....NET **123.48**

Model P-52LX—15" Woofer

This powerful 15-inch low frequency driver is designed for custom performance with a separate "tweeter". Cone resonance 55 cycles; power handling capacity 20 watts. Has 4.2 lb Alnico V magnet. Input impedance 16 ohms (8 ohms available on order). 8 3/4" deep. Shpg. wt. 30 lbs. List \$78.00.

STEPHENS P-52LX.....NET **57.33**

Horn—Driver—Crossover

814-H. 4-Cell Horn as used in Model 409. Shpg. wt. 12 lbs. List \$28.00.....NET **20.58**

P-15. HF Driver as used in Model 409. Shpg. wt. 15 lbs. List \$62.00.....NET **45.57**

800X-2. 800 cycles Crossover Network. Shpg. wt. 10 lbs. List \$28.00.....NET **20.58**

ELECTRO-VOICE HI-FI SPEAKERS AND CABINETS

Model SP15—Super-Fifteen

With this incomparable Radax Super-Fifteen you enjoy reproduction so clear, so vibrant that the illusion of "presence" pervades the room. This large 15-inch speaker with a frequency response of 70-13,000 cps \pm 5 db has a power handling capacity of 30 watts and employs a huge 5 1/2 lb. Alnico V magnet. Heavy cast aluminum frame; specially treated and damped 15" cone reduces transients and intermodulation distortion. Mechanical crossover, operating at the 6th octave directs high frequency pulses to the Radax h.f. propagator. This achieves musical reproduction of flowless character. Base cone resonance 38 cps; h.f. cone resonance 250 cps. Input impedance 12 ohms. Voice coil of lightweight, edgewise wound aluminum ribbon. O.D. 15 1/8"; 8 3/4" deep, baffle opening 13 1/2". Shpg. wt. 35 lbs. List \$120.00.

ELECTRO-VOICE SP15.....**70.56**

Model SP12—Super-Twelve

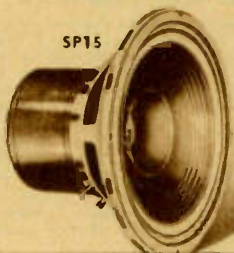
Similar to above, but with 25 watt capacity and 3 lb. Alnico V magnet. Impedance 8 ohms. O.D. 12 1/2"; 7 1/2" deep; baffle opening 11". Shpg. wt. 30 lbs.

ELECTRO-VOICE SP12. List \$90.00 NET **52.92**

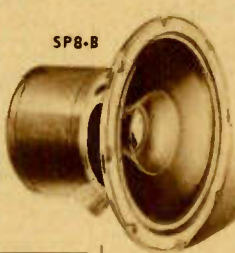
Model SP12-B Radax-Twelve

Utilizes the superlative Radax principle as above, but with 15-20 watt power capacity and 1 1/2 lb. Alnico V magnet. Frequency range 75 to 13,000 cps \pm 6 db. 8 ohms impedance. O.D. 12 1/4"; 6 3/4" deep; baffle opening 11". Shpg. wt. 7 3/4 lbs. List Price \$45.00.

ELECTRO-VOICE SP12-B.....NET **26.46**



SP15



SP8-B



SP12-B

"Aristocrat"—Klipsch Licensed

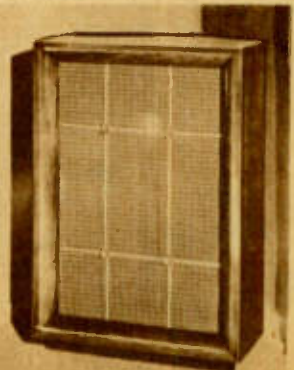
Enjoy purity of extended bass range with this modern 12" speaker enclosure utilizing the famous Klipsch principle which employs the corner of the room as an extension of the exponential acoustic horn air load. For use with any good 12" 2-way speaker system. Hand rubbed mirror finish mahogany veneer; polished and lacquered brass grille. 29 1/2" H, 19" W, 16 1/2" D. Shpg. wt. 55 lbs. List \$99.50.

E-V "Aristocrat" Mahogany.....NET **58.50**
E-V "Aristocrat" Blonde.....NET **62.33**

Model SP8-B Radax-Eight

An ideal two-way co-axial speaker with full range, where space does not permit larger units. 15-20 watt power capacity and 1 1/2 lb. Alnico V magnet. Range 120 to 13,000 cps \pm 6 db. Similar to SP12-B in every way but size. O.D. 8 3/4"; 5 1/8" deep; baffle opening 7". Shpg. wt. 7 1/2 lbs.

ELECTRO-VOICE SP8-B.....NET **24.99**





604B



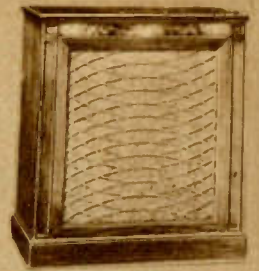
603B



600B



400B



605

N1000B

ALTEC-LANSING HI-FIDELITY SPEAKERS

15" DUPLEX SPEAKER

Model 604B. The standard professional unit, two-way speaker system that is among the finest in the industry. Delivers top quality performance for those who demand the best. Large 15" low frequency speaker with multicellular high frequency unit delivers from 30 to 16,000 cps with essentially flat response. Dispersion angles: 60° horizontal, 40° vertical—means excellent even response in most installations. Speaker includes a matching 1000-cycle crossover network with adjustable HF controls. Rated at 30 watts. Amplifier impedance required, 16 ohms. Speaker depth 11 1/2". Shpg. wt. 48 lbs. List \$212.01. **ALTEC 604B & N1000B CROSS-OVER NET.....159.00**

15" MULTICELL DIA-CONE

Model 603B—An excellent reproducer having a large 15" cone for deep, rich bass reproduction and exclusive Altec-Lansing Dia-Cone for high frequency reproduction. Multicellular dispersion horn in front of dia-cone provides smooth distribution. Meets the tremendous demand for an economical high quality speaker for the high fidelity enthusiast. Dia-Cone principle reproduces frequencies over 2000 cycles from an aluminum diaphragm secured directly to a 3" voice coil. Dia-cone and low frequency cone are coupled together by a mechanical dividing network. 60° horizontal, 40° vertical dispersion. 8 ohms impedance; 25 watts rating. List \$100.00. 7" deep. Wt. 21 lbs. **ALTEC 603B.....75.00**

DIACONE SPEAKERS

Model 600B 12" Diacone. An economically priced, high quality speaker using the metal diaphragm Dia-Cone principle, for excellent high frequency response while large 12" cone covers spectrum below 2000 cycles. Ideal for home and industrial applications. Rated at 20 watts; 8 ohms impedance. 5 1/4" deep. Shpg. wt. 15 lbs. **ALTEC 600B—List \$62.00 NET.....46.50**

Model 400B 8" Diacone. Lower-priced version of above for high fidelity use where space and weight are limitations. Uses exclusive Dia-cone principle for quality reproduction, 12 watts rating; 8 ohms impedance. 3 1/2" deep. Shpg. wt. 7 lbs. **ALTEC 400B—List \$30.00 NET.....22.50**

MODEL 605 CABINET

Exquisite, hand rubbed hardwood speaker enclosures that provide balanced frequency response. Simple, attractive style harmonizes with all fine furniture and enhances any surroundings. Excellent design and construction for housing 12" or 15" speakers. All joints glued and reinforced with screws to eliminate vibrations and reverberations. Interior lined with moisture resistant, sound absorbing material. Rich looking metal grille and matching grille cloth. Size: 38" high, 30" wide, 16" deep. Model 605A for 15" speaker, 605B for 12". **ALTEC—Model 605A in Walnut ALTEC—Model 605A in Mahogany ALTEC—Model 605B in Walnut ALTEC—Model 605B in Mahogany Shpg. wt. 149 lbs. ANY TYPE, EACH.....150.00**



51552



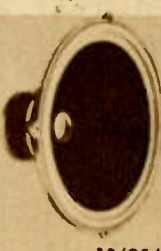
8T-8-1



12T-8-1



51201D



12/CS/AL



15A10CO

FAMOUS MAKE HIGH FIDELITY SPEAKERS

RCA 51552 15" Duo Cone
Utilizing the unique magnetic structure Duo-Cone arrangement, developed by Dr. Olson, famed RCA acoustical authority, this 15" speaker, with its range of 40-12,000 cps is outstanding for custom installations in high fidelity units. Two separate voice coils, each drive one of the duo-cones: at crossover frequencies, around 2000 cps, both cones vibrate as a single unit, to avoid annoying crossover interference. 25 watt power handling capacity. 16 ohms impedance. 2 lb. Alnico V magnet. Baffle opening: for flange mounting, 15 1/2"; for rim mounting, 13 3/4. 6 1/2" deep. Shpg. wt. 18 lbs. List \$2.50. **RCA 51552.....NET 48.51**

MASCO HI-FREQUENCY ADAPTOR



Gives true high frequency response when added to your present speaker. No filter network or additional space required. Becomes part of cone. Response over 15,000 cycles. Impedance (units in series) 6-8 ohms. Power 8 watts. 5 1/4" dia., 2 3/8" D. With mounting screen for 12" speaker. Shpg. wt. 3 lbs. **Masco HFT100-12.....22.23**
HFT100-15—For 15 speaker. 23.81

PERMOFLUX Royal 12T-8-1
speaker This all new PermoFlux 12-inch hi-fidelity speaker features slotted edge cone and an extra large spider for super-soft suspension. Provides excellent low frequency response. Because the cone is curvilinear and deeper than usual speakers, and special stiffening treatment given to the throat, the high frequency response compares with that of far more expensive reproducers. It is ideal for home units, P.A., wired music, monitoring, etc. Provides a range of 50 to 12,000 cps with exceptionally low distortion level. 10 watts power handling; 8 ohms impedance; extra heavy Alnico V magnet. 5 3/4" deep. List \$27.50. Shpg. wt. 5 lbs. **PERMOFLUX 12T-8-1.....16.17**

PERMOFLUX Royal 8T-8-1
Where space is an important consideration but a fine speaker is required for high fidelity installations at home, studios, P.A., etc., this PermoFlux 8 inch will amply satisfy most requirements. Capable of a 50 to 12,000 cycles frequency range with low distortion at 8 watts power handling capacity. Has a 1-inch voice coil with an impedance of 8 ohms. Depth of only 4 inches; powerful Alnico V magnet. List \$22.50. Shpg. wt. 6 lbs. **PERMOFLUX 8T-8-1.....13.33**

WHARFEDALE Super 12/CS/AL

Product of G. A. Briggs, noted British authority. This 12 inch speaker, utilizes the cloth suspension principle for superior transient response as well as reduction of unwanted bass response. Has a frequency range of 30 to 18,000 cps with a power handling capacity of 12 watts. Cone resonance at 35/45 cps. Voice coil impedance 15 ohms. Amazingly clean highs achieved by special cone with bakelized apex and carefully wound aluminum voice coil. 12 3/4" O.D. 7" depth. Shpg. wt. 20 lbs. **WHARFEDALE 12CSAL..57.60**

GE 51201D 12-Inch

This deluxe 12" Alnico V PM speaker is very popular for home hi-fi units, public address, etc. where 25 watts handling power with 50-13,000 cps frequency range at moderate cost make it a universal favorite. Incorporates late speaker design developments for brilliant highs, mellow bass response. Heavy Alnico V magnet, aluminum base voice coil. Impedance 8 ohms. Beautifully plated finish; equipped with universal transformer mountings. 5 1/2" deep. List \$33.95. Shpg. wt. 9 lbs. **GE 51201D 12" Speaker.19.95**

QUAM 15" COAXIAL

This excellent 15" coaxial high fidelity speaker utilizes the famous "Adjusta-Cone" suspension principle which assures precision centering of voice coil for finest reproduction. Moderately priced, yet capable of 55-10,000 cps response at 20 watts power handling capacity. This is an ideal speaker for those who want good quality but must conform to budgetary considerations. 6-8 ohms impedance; large Alnico V magnet. 15" O.D., 8 3/4" deep. List \$47.50. Wt. 15 lbs. **QUAM 15A10CO—27.93**

QUAM 12" COAXIAL

Has all the design and construction features of the Model 15A10C described above except in smaller size. Has a 12" low frequency and 3" high frequency unit having a capacity of 14 watts. 6.8 oz. Alnico V permanent magnet. Voice coil impedance 6-8 ohms. Depth 6 1/2". Shpg. wt. 10 lbs. List \$30.00. **QUAM 12A6CO—17.64**

NOTE: Lafayette's large assortment of high fidelity speakers includes many other models of the manufacturers listed here. Also, our stock is regularly kept up-to-date as various manufacturers announce new and improved models. Descriptive literature and prices available on request.

latest

GARRARD "TRIUMPH" 3-SPEED CHANGER



The newest addition to the Garrard line, the Cadillac of record players. Designed for music lovers who demand the finest in record performance. The new Garrard "Triumph" plays all 33 $\frac{1}{3}$, 45 and 78 RPM records. Features automatic switch-off after playing last record of any stack of 10 or 12 inch records. A separate spindle is supplied for use on 45 RPM records to change them automatically. Heavy duty, silent motor, and heavily weighted turn-table for constant speed. Muting switch silences pick-up arm when changer is changing records. Jewel mounted, true-tangent pick-up arm. The new Garrard "Triumph" is supplied with two plug-in heads and mounting hardware for most crystal and magnetic cartridges. Accommodates the GE reluctance cartridges. Overall size 13 $\frac{1}{4}$ " wide, 15 $\frac{1}{2}$ " deep, 8" high. Extends 2 $\frac{1}{2}$ " below motor board, 5 $\frac{1}{2}$ " above. For operation on 100-130 volts, 60 cycles AC. Cartridges not included.
MODEL RC80. Shpg. Wt. 20 lbs. 39.00

3 speed

GARRARD PLUG-IN CRYSTAL CARTRIDGE

Garrard plug-in shell for "Triumph" changer, complete with dual stylus, turn-over crystal cartridge.
P13523-Shpg. Wt. 1 lb. 5.10

WEBSTER-CHICAGO 3-SPEED CHANGERS



MODEL 106-27. The famous new Webster-Chicago 3-speed model, designed for use with G.E., Pickering or Audak variable reluctance cartridges. Plays all makes, all sizes and all speeds of records. Three speed switch makes the changeover to different speeds, fast and effortless. Improved lightweight arm makes it unnecessary to adjust weight when shifting from standard to LP records, a muting switch silences pickup between cycles. Arm comes to rest after playing last record. 3 plastic spiders are provided for use with 45 RPM records. Motor board measures 14" x 14", 5 $\frac{1}{8}$ " above plate, 3 $\frac{1}{8}$ " below. For 105 to 125 volts, 60 cycles AC. Less cartridges and pre-amp.
MODEL 106-27-Shpg. Wt. 18 lbs. 37.83

MODEL 106-1. Similar to above but supplied with wide range crystal cartridge and tandem needle. No pre-amp required. Supplied with hardware.
MODEL 106-1 41.36

MODEL 100-1. This is a slightly smaller version of Model 106-1. Measures 12" x 12 $\frac{1}{2}$ ". Height above motor plate 5 $\frac{1}{2}$ ", below plate 2 $\frac{3}{8}$ ". Complete with "Tandem Needle," crystal cartridge. No muting switch.
MODEL 100-1. Shpg. Wt. 15 lbs. 37.24

MODEL 100-270. Similar to model 100-1, except that pickup arm is supplied with GE Triple Play variable reluctance cartridge. (Illustrated).
MODEL 100-270. Shpg. Wt. 15 lbs. 38.81

record

V M TRIOMATIC RECORD CHANGERS



- Dual Needle, Reversible Cartridge
- Intermixes 10" & 12" Records
- Automatic Stop After Last Record
- Velvet Action Velocity Trip

With VMs line of new changers, all you have to do is to load the records you want played on the spindle, select the speed you want and then flip the switch to ON position. The All-new VM Triomatic plays 33 $\frac{1}{3}$, 45 and 78 RPM records of all sizes completely automatically. The improved tone arm will unfailingly come down into the lead-in groove of the record. If the tone arm is accidentally held during the playing of a record, or if lifted purposely for placement on another part of the record, there will be no damage to the cycling mechanism of the changer, absolutely jamproof VMs "flat air-cushion drop" assures a gentle dropping motion of the record to the turntable. Unit is available with reversible crystal, or GE variable reluctance cartridge. Dimensions are 14 $\frac{1}{2}$ " x 12 $\frac{1}{2}$ ". 5 $\frac{3}{4}$ " above mounting plate and 2 $\frac{1}{8}$ " below mounting plate.

Model 950 with turnover crystal cartridge 29.62
Model 955. As above but on metal base 32.01
Model 950GE with GE triple play cartridge and dual stylus 32.80
Model 955GE. As above but on metal base 35.19

changers



MARKEL THREE-SPEED CHANGER

The world's only complete 3-speed changer which automatically plays all speeds, 33 $\frac{1}{3}$, 45 and 78 RPM—and all record sizes, 7", 10", 12"—and automatically plays both sides of 10" and 12" records continuously in sequence, without turning them over. Also plays them as single sides for drop mechanism albums. Will provide up to 9 hours of continuous playing without touching the changer. The Markel will handle a stack of 12 of any 10" records; 10 of 12" 78 RPM's, and 12 of 12" 33 $\frac{1}{3}$ s. It will also handle stacks of 7" records—as many as 15 33 $\frac{1}{3}$ RPM, 10 45 RPM or 12 78 RPM.

The Markel changer is equipped with a completely interchangeable head, using a crystal cartridge with twin, semi-permanent styli and rich-fidelity tone arm. The changer automatically stops and shuts off when the last record in any stack of 10" or 12" records is played. You may reject any record and automatically permit the next record to play in the sequence previously selected. The tone arm will automatically reposition itself if thrust out of position, moved at any time, or held while it's in cycle. It cannot jam. All cycling mechanism is at rest during operation. Improved push-off post and the exclusive roll-off mechanism prevents record chip or crack. Records roll off the patented three rubber wheel mechanism—so they can't break. May be used on any 110 volt, 60 cycle AC source. Dimensions are 15 $\frac{1}{4}$ " x 14 $\frac{3}{4}$ " x 10" high, 7 inches above and 3 inches below mounting plate.

Shipping Wt. 23 lbs. List \$99.50
MARKEL MODEL 74. NET 63.39
Model 75. Above player mounted on wood cabinet base. Shpg. Wt. 26 lbs. 69.76

CHANGER BASES

- A) Sturdy metal bases for Webster or Garrard Changers. Brown finish; felt feet.
P22355—For Webster 100 models. 4.09
P22356—For Webster 106 & 356 models. Shpg. Wt. 5 lbs. 4.09
P22358—For Garrard RC-80. 6.18

MOUNTING PANEL FOR WEBSTER CHANGERS

- B) 16" x 16" sturdy, unfinished wood panels completely cut-out, with mounting holes.
P16314—For Model 100 1.96
P16315—For Models 356 & 106
 Either of the above.



RECORD CHANGER CABINET

- C) Glistening wood, mahogany veneer-finished table cabinet, twin hinged top. 12 $\frac{1}{2}$ " H, 16 $\frac{1}{2}$ " W, 15 $\frac{1}{2}$ " D. Shipping Weight, 12 lbs.
P19425—For Webster 356 and 106 series
P19424—For Webster 100 series
P19423—For VM Triomatics
P19426—With blank panel board. 14.95
 Any model above.

SLIDE-RAIL HARDWARE KIT.

- D) For mounting record changers in pull-out drawers in radio cabinets, etc. Provides neat and attractive installation. All hardware included. Handy in construction of new, and conversion of older sets.
P16328—Wt 3 lbs. 1.18



GENERAL ELECTRIC HIGH FIDELITY PHONO EQUIPMENT

Single Stylus Cartridges (A)

Variable reluctance cartridge with replaceable sapphire stylus for long play (33 1/2, 45 RPM) records. Provides smooth, wide range reproduction. Baton type stylus used in all models. Requires preamplifier. For pickup arms with 1/2" mounting centers. Shpg. wt. oz.

P13485. RPX041—List \$9.95. NET **5.85**

Same as above, but for standard, 78 RPM records. With replaceable needle.

P13500. RPX040—List \$9.95. NET **5.85**

Broadcast Type. A professional type cartridge with very wide range response. Chromium case. Less stylus.

P13497. RPX046—List \$11.45. NET **6.73**

Replacement Parts Kit, for Triple Play cartridge. Includes, spring, washers, plastic knob. Wt. 2 oz.

P13552. RKP009—List .25. NET **15**

"Triple-Play" Cartridges (B)

These convenient dual-stylus "Triple-Play" variable reluctance cartridges do the work of two cartridges. A simple twist of the knob brings either long-play or standard stylus into position, and eliminates plug-in heads. With .001" and .003" replaceable stylus.

P13409. RPX050—List \$13.95. NET **8.20**

Broadcast Type. Similar to above, but wider range, professional type. Chrome-plated. Less stylus.

P13507. RPX047—List \$15.45. NET **9.08**

GE Transcription Arm (F)

Used by broadcast stations and those desiring finest quality reproduction of lateral transcriptions and records. Mounts the GE cartridges listed at left. Magnesium alloy used for moving parts reduces mass of arm. Precision cone bearings used for low friction. For records up to 17 1/4". Shpg. wt. 1 lb.

P13514. FA-21-A. NET **40.18**

RWP-001—Counterweight to adapt above arm for LP records.

P13515. NET **3.77**

Single Stylus Pickup Arm (D)

GE pickup arm with either standard or LP cartridges. For use with any single record player; for 10" or 12" records. Simple to install; requires single hole mounting; has 24" lead, mounting rest and template. Factory balanced; adjustable. Shpg. wt. 1 lb. List \$15.95

Standard cartridge. NET **9.38**

P13501. UPX007. NET **9.38**

P13502. UPX004—With LP cartridge. NET **9.38**

Triple-Play Pickup Arm (E)

Fine new tone arm for playing all three speeds. Has GE "Triple-Play" cartridge. Ball bearings for smooth lateral movement. Single 1/2" hole mounting; has 24" lead, rest and template. List \$19.95.

Shpg. wt. 2 lbs. NET **11.73**

P13518. UPX006. NET **11.73**

GE Replacement Styll (G)

For Single Stylus Cartridges

Stock No.	Type	Tip	Radius	List	NET
P108	RPJ005	Sapphire .001"	.001"	\$3.50	\$2.08
P144	RPJ006	Sapphire .0025"	.0025"	3.50	2.08
P107	RPJ001	Sapphire .003"	.003"	3.50	2.08
P128	RPJ004	Diamond .001"	.001"	27.50	16.17
P145	RPJ002	Diamond .0025"	.0025"	27.50	16.17
P109	RPJ003	Diamond .003"	.003"	27.50	16.17

For Triple-Play Cartridges

P142	RPJ007	Sapphire .001"	.001"	5.95	3.50
		.0025"	.0025"		
P129	RPJ010	Sapphire .001"	.001"	5.95	3.50
		.003"	.003"		
P143	RPJ011	Diamond .001"	.001"	49.95	29.37
		.0025"	.0025"		
P138	RPJ012	Diamond .001"	.001"	49.95	29.37
		.003"	.003"		

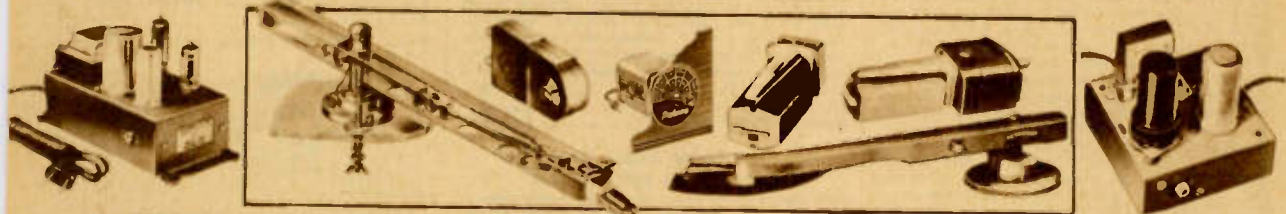
GE Pre-Amplifiers (C)

Self powered preamp for use with GE or similar magnetic cartridges and pickups. Has 6SC7 tube in equalizing circuit, plus rectifier. Includes input jack and 14" output lead with phono plug. For 117 volts, 60 cycles AC. 3 1/2 x 3 1/2 x 3 1/2". Complete with tube. Shpg. wt. 2 lbs.

P13473. UPX003—List \$17.95. NET **10.55**

External powered preamp. Same as above, less rectifier. Filament and plate supply obtained from receiver or amplifier.

P13465. SPX001—List \$11.90. NET **7.00**



PICKERING CARTRIDGE REPRODUCERS

Famous for high quality and true fidelity reproduction of lateral records and transcriptions. Will fit practically any arm taking a crystal cartridge. "Keystone Clip" mounting adapts to large variety of arm shapes and sizes, permits adjustment of stylus position for minimum tracking error. Type 120 for standard 78 RPM records, Type 140 for LP Microgroove, 40-10,000 cps ± 2 db response. Available with sapphire or diamond stylus. Requires preamplifier (see below).

P13493—Model S-120M. 78 RPM, sapphire .0027" tip. NET **9.90**

P13494—Model D-120M. 78 RPM, diamond .0027" tip. NET **24.90**

P13392—Model D-120L. Same as above, 500 ohms impedance. NET **24.90**

P13498—Model S-140S. Microgroove, sapphire .001" tip. NET **14.70**

P13495—Model D-140S. Microgroove, diamond .001" tip. NET **36.00**

P13391—Model D-140L. Same as above, 500 ohm impedance. NET **36.00**

P13390—Model R-150. Pickering Cartridge using special replaceable needle, for 78 RPM use only. NET **9.90**

P186—Replaceable sapphire needle for R-150. NET **2.40**

P187—Replaceable diamond needle for R-150. NET **15.00**

Special mounting clips for using cartridges with Webster type 27 changers are furnished free of charge with Pickering cartridges.

Pickering Model 190 16" Transcription Arm

A high fidelity transcription arm for home or studio use. For standard and long-play records. Least possible ratio of vertical to lateral moment of inertia. Minimum vertical mass; tracks any record. Plug-in cartridge holder. For records up to 17 1/4". Stylus point visible, yet completely protected. Shpg. wt. 2 lbs.

P13394—Model 190 16" Arm. List \$40.00. NET **24.00**

Pickering 230H Preamplifier

Engineered to equalize properly the bass response of records and provide necessary gain for Pickering, Audax, GE magnetic cartridges. Frequency response 40-20,000 cps ± 2 db. Compensates for 6 db/octave loss below 500 cps. High impedance output, average 2 volts. Hum level 56 db below maximum signal. Less than 0.2% intermodulation distortion at normal level. Self-powered. Requires 6AU6, 6C4, 6X4 (not supplied). Size: 7 1/2 x 4 1/2 x 3 1/2" deep. For 117 volts, 60 cycles AC. Shpg. wt. 4 lbs. List \$40.00.

P13398—PICKERING 230H. NET **24.00**

Pickering 132E Record Compensator

Use of this device will permit you to enjoy record reproduction of unmatched brilliance by providing proper preamp equalization for all types of recordings, domestic and foreign. Used between preamp and cartridge, it compensates for the recording characteristics of 1) European Records; 2) Victor 45; 3) Victor 78; 4) Columbia-Capitol; 5) Microgroove LP; 6) Old, noisy records. Mounts in hole on phono or radio control panel. Supplied with 20" connector cable and plug. Shpg. wt. 1 lb.

P13399—List \$20.00. NET **12.00**

AUDAX POLYPHASE REPRODUCERS

Acknowledged by critics and music-lovers alike to be without a peer in reproducing quality, these sensational Audax Polyphase Reproducers are tops for professional and home record players. Cleverly designed, these single twist magnetic units play records of all sizes and speeds. A simple turn of the cartridge positions the long-play or the standard stylus accurately. 20 to over 10,000 cps response. 6-8 grams point pressure for ALL discs assures more faithful reproduction, longer wear, excellent tracking. L-6 series for studio and professional use, R-2 series for home use. All with replaceable sapphire stylus. Require pre-amplifier.

P13532—L-6, head only, for Audax 12" or 16" arm. NET **20.59**

P13534—L-6-G, plugs into Garrard changer arm. NET **22.93**

P13533—L-6-W, plugs into Webster changer arm. NET **22.93**

P13545—R-2 head only, for Audax 12" or 16" arm. NET **14.41**

P13547—R-2-G, plugs into Garrard changer arm. NET **17.05**

P13546—R-2-W, plugs into Webster changer arm. NET **17.05**

P182—Sapphire 78 RPM stylus 2.06 P184—Sapphire LP stylus. NET **2.06**

P183—Diamond 78 RPM stylus. 14.70 P185—Diamond LP stylus. NET **20.58**

Audax Pick-up Arms sensitized to meet the extremely high compliance of the Polyphase reproducers listed above. Studio Arm for records to 16".

P13548—12" Arm. NET **13.52** P13549—16" Arm. NET **19.40**

P13535—Studio Arm. NET **38.22**

Fisher Quality Preamplifier

Product of the famed Fisher organization, this unit meets the need for a self-powered unit of excellent quality and moderate cost. For use with GE, Pickering, Audax and other low-level magnetic cartridges. Correct equalization provided for each type. Also may be used as a microphone preamp. Frequency response 30-20,000 cps ± 2 db. Hum level 60 db below one volt output, phono or mike. Full low frequency equalization; designed for turnover at 500 cycles. Supplied with 6SC7 tube, 3 1/2 x 3 1/2 x 3 1/2" high. For 117 V, 60 cycles AC. With instructions. List \$20.95. Shpg. wt. 2 lbs.

P13556—FISHER PR-4. NET **12.32**



FINE QUALITY TAPE AND DISC RECORDERS

BELL MODEL RT-65-B 3-SPEED TAPE RECORDER

- Records Up to 4 Hrs. on 1200-Ft. Reel
- Frequency Response 70-8000 cps \pm 3 db
- Records From Microphone or Phono-Radio
- Professional Quality — Self-Contained

Here's a tape recorder with features that make it desirable for either semi-professional or home use. Ideal for conferences, interviews, meetings and recording of music, and for home recording by family and friends. Plays or records on 5" or 7" reels. Neon Indicator light shows proper recording level. Has both volume and tone control for compensation where required. Has three forward speeds: 17 $\frac{1}{2}$ ", 33 $\frac{1}{2}$ " and 7 $\frac{1}{2}$ " /sec. 17 $\frac{1}{2}$ " speed gives 4 hours of recording on one 7" reel, 2 hours on 33 $\frac{1}{2}$ " speed. Frequency response is 70 to 8,000 CPS \pm 3 db at 7 $\frac{1}{2}$ " /sec. Uses paper or plastic tape on which you can rewind or erase one-half the tape at a time. 8-watt 6" Alnico V PM speaker is automatically disconnected when using external speaker. Records from microphone, external radio or phono. Output 3.2 ohms and high impedance for headphones. Fast forward and rewind at 45" /sec. Controls: Rewind-OFF-Forward; Tone with AC switch; Erase or Record-Playback; Volume, Equalization Switch. Tubes: 1-12AX7; 1-12AU7; 1-6V6GT. Has 6X5GT rectifier. Power 80 watts at 117 V., 60 cycles AC. Removable hinged cover, portable case, 16" D., 8 $\frac{1}{2}$ " H., 15" W., has storage space for six 5" reels and three 7" reels, mike cables and accessories. Recorder is complete, ready to operate with crystal microphone, and 6 feet of cable, a 600 ft. reel of type A tape, a 5 inch take up reel, instructions and tubes. Shpg. Wt. 40 lbs. List Price, \$186.50.

Bell Model RT-65-B Recorder..... **124.30**

NOTE: See front cover for Magnecord tape recorders. We also carry REVERE, PENTRON, BRUSH, WEBSTER and PRESTO. Our stock is extensive and we can fill any requirement. Send in your order specifying manufacturer's model number, or write for prices and data.

MEISSNER MODEL 4DR HOME DISC RECORDER

Undoubtedly one of the best values ever offered in a home recorder. Although built to professional standards, it is priced for the modest budget. The unit records and plays back records at 33-1/3, 45 and 78 RPM. Bushing supplied readily converts recorder for 45 RPM cutting and playback. You can record direct from mike, another phono, radio or tuner at 160 lines per inch on discs up to 10" in diameter. Frequency response up to 4500 cps (50% higher than other instruments of this type). Plays back records up to 12" in diameter. Crystal playback cartridge includes .001" and .003" replaceable twin styli for standard and microgroove records. Other outstanding features include two built-in 5" PM speakers with provision for an external speaker if desired, a separate volume control for each of the two inputs, and a neon light recording level indicator. Tubes: 6SJ7, 6SL7GT, 6V6GT. Has 6X5GT rectifier. Handsome portable wood case with red, simulated alligator covering, 16 $\frac{1}{4}$ x 12 $\frac{3}{4}$ x 9 $\frac{1}{4}$ ". Removable hinged cover has space for carrying records. Supplied complete with tubes, mike, shielded cable and instructions. For 110-120 V., 60 cycles AC. Shpg. wt. 40 lbs. List 199.35.

Meissner Model 4DR — Net..... **117.21**

PENTRON BASIC TAPE RECORDING MECHANISM

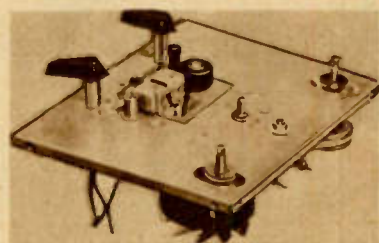
This heavy duty basic recording mechanism is designed for use with a combination radio-phonograph custom installation that already has a high gain amplifier with special equalization. It records radio programs, discs or "live" recordings through a mike. A 1200-ft. reel of tape gives you two hours of recording time at a speed of 3 $\frac{3}{4}$ " /second. Only half the tape width is used at a time. After one hour the reels are reversed and recording is done on the other half. Frequency response 85-5000 cps within 3 db when used with recommended circuit. Unit is equipped with a single-lever control for selecting Record-Play, OFF and Rewind positions. Has extra fast forward speed and rewind. Supplied with oscillator coil for construction of bias-erase oscillator which is also required. Parts list, instructions, diagram and 7" plastic takeup reel included. Size: 13 $\frac{1}{4}$ " W., 7" H., 9" D. For 110-120V., 60 cycles AC. Uses type "B" tape not included.

Model 973M — Pentron Basic Tape Recording Mechanism — Shpg. wt. 14 lbs..... **69.50**

MASCO MODEL RK-SSL 2-SPEED DISC RECORDER

Self-contained portable recorder for cutting standard 78 and 33-1/3 RPM discs. Plays back both speeds including 33-1/3 microgrooves. Has built-in amplifier, 6" Alnico PM speaker and heavy duty recording motor and turntable. Records direct from any high impedance mike, radio or phono. It can also be used as a complete PA system. A three-way switch permits independent selection of recording, playback or PA without interaction. This unit has a volume level indicator, an adjustable cutting head and separate pickup arm with turnover crystal cartridge for standard and microgroove records. Master gain and tone controls allow for any desired volume or tone setting. Tubes: 2-6SL7GT, 1-6V6GT. Has 6X5GT rectifier and 6U5 level indicator. Brown, alligator fibro-koid covered case with removable cover, 16 x 19 $\frac{1}{4}$ x 8 $\frac{1}{2}$ " high. For 117 V., 60 cycles AC. Supplied with tubes and cutting needles, but less mike and playback needles. Shpg. wt. 40 lbs. List \$205.20.

Masco RK-SSL Disc Recorder — NET... **128.74**



MASCO "SOUND-REEL" DUAL-TRACK DUAL-SPEED TAPE RECORDER

These new Masco "Sound-Reel" dual-speed, dual-track magnetic tape recorders offer flexibility and economy with two tape speeds that give wide frequency response with freedom from distortion. Check features: DUAL RECORDING SPEED: 7.50 in./sec. for 1 hr. dual track, 1/2 hr. single track. 3.75 in./sec. for 2 hr. dual track, 1 hr. single track. FREQUENCY RESPONSE: 80-8,500 cps. \pm 3 db. at 7.50 in./sec., 80-5,000 cps. \pm 3 db. at 3.75 in./sec. NEON LEVEL INDICATOR for recording volume level. ERASE & BIAS: AC Type, 60 Kc. Oscillator. 6" ALNICO V PM SPEAKER, heavy duty type. MONITORING JACK: for headphone monitoring. REWIND SPEED: 1200 feet in three minutes. TWO INPUTS: Internal Speaker; External Speaker, 8-16 ohm voice coil; 500 ohm line. HEAVY DUTY MOTOR: 4-pole, heavy duty type. INDICATOR SCALE: Shows elapsed recording time used in minutes. CAPSTAN TURRET DRIVE: Eliminates tape slippage. Constant tape speed. NO ACCIDENTAL ERASE: A record push-button must be depressed before recording is possible. TONE CONTROL: for playback use only. POWER OUTPUT: 5 watts to speaker. PLAYBACK EQUALIZATION: Separate for 7.50 in./sec. and 3.75 in./sec. Self-contained AM Tuner in 37R models. Aluminum Case In "Spruce-Green". 12 $\frac{1}{2}$ x 15 $\frac{1}{8}$ x 10".

Mike and radio/phono. THREE OUTPUTS: Internal Speaker; External Speaker, 8-16 ohm voice coil; 500 ohm line. HEAVY DUTY MOTOR: 4-pole, heavy duty type. INDICATOR SCALE: Shows elapsed recording time used in minutes. CAPSTAN TURRET DRIVE: Eliminates tape slippage. Constant tape speed. NO ACCIDENTAL ERASE: A record push-button must be depressed before recording is possible. TONE CONTROL: for playback use only. POWER OUTPUT: 5 watts to speaker. PLAYBACK EQUALIZATION: Separate for 7.50 in./sec. and 3.75 in./sec. Self-contained AM Tuner in 37R models. Aluminum Case In "Spruce-Green". 12 $\frac{1}{2}$ x 15 $\frac{1}{8}$ x 10".

Model D-37 — Complete portable dual speed tape recorder, with mike, 600 ft. plastic tape, take-up reel and portable case.

P22637 — List \$243.00 NET..... **162.00**

Model D-37R — Same as Model D-37, but with self-contained AM tuner. Shpg. wt. 42 lbs.

List Price \$286.20. P22638 — (FET Inc.)...NET..... **192.96**

INDUCTION TELEPHONE PICK-UP



Induction telephone pick-up. Telephone conversations can now be picked-up with no tapping of wires or special telephone circuits. Simply place the phone base, either cradle or upright type, on the pick-up platform and connect the leads to the high-impedance input of any medium gain audio amplifier, or directly to any tape, disc or wire recorder. When used for public address work, a speaker at home or in another city can address large audiences without special telephone company equipment.

P22523 — Shpg. Wt. 3 lbs..... **5.88**

P22524 — Induction coil only..... **4.70**



RECORDING ACCESSORIES

812

FOR TAPE RECORDERS

Fig. A. SCOTCH RECORDING TAPES. Made sensitive tapes, Scotch Brand offers the advantages of better frequency response at slow by the world's largest manufacturer of pressure-recording speeds; low noise level; greater signal strength; even and constant tracking; less cross-talk; greater freedom from breakage; ease of editing and cleaner erasures with low power. Freq. response 50-8000 cps at 7 1/2" per second. All on plastic reels except as indicated.

Type 101A—Magnetic Coating facing-in Paper Base

Stock No.	Size	List Price	1-1 Each	12 & more Each
P16298	1/4" x 1200 ft.	\$3.50	2.23	2.10
P16299	1/4" x 600 ft.	2.25	1.50	1.35
P16291	1/4" x 150 ft.	.75	.50	.45

Type 101B—Magnetic Coating facing-out Paper Base

Stock No.	Size	List Price	1-1 Each	12 & more Each
P16296	1/4" x 1200 ft.	\$3.50	2.23	2.10
P16297	1/4" x 600 ft.	2.25	1.50	1.35
P16292	1/4" x 150 ft.	.75	.50	.45

Type 111A—Magnetic Coating facing-in Plastic Base

Stock No.	Size	List Price	1-1 Each	12 & more Each
P16409	1/4" x 2400 ft.	13.85	9.23	8.31
P16408	1/4" x 2400 ft.	11.00	7.34	6.60
P16410	1/4" x 1200 ft.	5.50	3.67	3.30
P16412	1/4" x 600 ft.	3.50	2.33	2.10
P16414	1/4" x 150 ft.	1.00	.67	.60

* on NAB 10 1/2" Reel for NAB hub

Type 111B—Magnetic Coating Facing-out Plastic Base

Stock No.	Size	List Price	1-1 Each	12 & more Each
P16411	1/4" x 1200 ft.	5.50	3.67	3.30
P16413	1/4" x 600 ft.	3.50	2.33	2.10
P16415	1/4" x 150 ft.	1.00	.67	.60

Fig. B. SCOTCH EMPTY PLASTIC REELS. Supplied with their own index box. Clear plastic.

Stock No.	Dia.	Holds	List Price	Each	12 or more Each
P16417	7"	1200'	.75	.50	.45
P16418	5"	600'	.65	.43	.39
P16419	3"	150'	.30	.20	.18

Scotch Leader and Timing Tape No. 43 For use in editing breaks. Has 3/4" spaced markings for accurate timing. 1/4" x 150 ft. P16420—Lots 1-11 Ea. 34¢
12 & more Ea. 30¢

Scotch Splicing Tape
Type 41. Splicing Tape, 1/2" x 100 inches. On metal utility dispenser.
P16416—(Lots of 12, 27¢ Ea.)—Ea. 29¢

Fig. C. MAGNETIC TAPE SPLICER. An excellent accessory that splices tapes accurately and eliminates joint noise. Both ends of tape are cut simultaneously. Nicked brass finish. Wt. 1 lb. **1.47**

SHURE 815 TAPE RECORDING HEAD
Use of head (not illustrated), doubles recording time of any size roll of tape. Records 1/2 side of standard 8MM, 1/4" tape. Unit permits full hour of recording on 1200' of 8MM tape, at 7 1/2" per second. Good erase efficiency. Mounted in hum-shielded case. Uniform output; good frequency response. **8.82**

SHURE 812 Magnetic WIRE RECORDING HEAD
Used for recording, reproducing and erasing. Wire groove is polished and correctly contoured for best results. Frequency response and output level are essentially flat. Enclosed in compact hum shielding case; head furnished with standard 4-prong adapter base. Exact replacement for Shure Model WR-12 Head. Shpg. wt. 11 oz. **8.82**

FOR WIRE RECORDERS

Fig. D. Webster-Chicago Recording Wire. Truest Recording Wire

Our Stock No.	Webster No.	Spool Size	Each	10 or more, Ea.
P16300	W-173	15 Min.	1.81	1.45
P16301	W-174	30 Min.	2.69	2.16
P16302	W-175	60 Min.	4.41	3.53

TRUEST RECORDING WIRE

For use with all wire recorders. Tested uniform quality assures good tonal reproduction and long life.

Stock No.	Spool Size	Price
P16311	15 Min.	1.19
P16312	30 Min.	1.80
P16313	60 Min.	2.94

Empty Metal Spools, suitable for replacement on most wire recorders.
P16305—Lots 1-9, Ea. 73¢ 10 & over, Ea. **59¢**

Webster-Chicago Nylon Thread Leaders. Type N200. For use in editing recorded wire or replacement of original wire leader. Simplifies threading. 100 feet, for all standard wire recorders. **1.37**

Plastic Leader for recording wire.
P16318 Pair **14¢**

Fig. F. Webster Recording Wire Spool Album. Contains 10 spool-size boxes in sturdy burgandy finished cordboard. Titles can be written on boxes.
P16307—Shpg. wt. 1 lb. **98¢**

MAILING BOX

Provides handy and easy method of mailing recording wire and sending messages between the office and field, etc.
P16326—(Pkg. of 10) **39¢**

Fig. G. Webster-Chicago Model 2904 Head may be used for replacement of any heads now in use on Webster-Electronic Memory" Wire Recorders. This improved head gives better, flatter, more uniform frequency response than units on original models. Useful for recording and erasing, as well as for reproduction. Package includes the recording head, cartridge cap, and mounting screw. All instructions for proper installation are included. **5.88**

Takeup Drum for all Webster Wire Recorders. Webster No. TD424. Illus. in Fig. E.
P16322 **1.96**

RECORDING NEEDLES

Lopped edge sapphire cutting needle for acetate discs. Precision cut jewel. Over 5 hours cutting life. **3.23**

P191 Like above, but with Long Shank to fit Presto Professional and Brush cutting heads. **3.45**

P190 Sapphire cutter ground to W.E. specs. For acetate discs. About 10 hours life. **4.25**

P196 Steel cutting needle for acetate; Individually ground and lapped. Flattened Shank. **59¢**

P439—Pkg. of 4. **59¢**
Stellite cutter for acetate discs. Extremely quiet. Cuts hundreds of sides. **1.18**

P337 Individually polished steel cutter for acetate discs. Will cut 15 to 25 10" discs. **59¢**

P348—Package of 4. **59¢**
Alloy cutter for acetate; harder than steel. Polish while they cut. Hand lapped. **95¢**

FOR DISC RECORDERS

PRESTO RECORDING DISCS

Fig. H. Professional discs for commercial and home use. Green Label discs are standard size, both sides guaranteed perfect. They are especially recommended for microgroove work, but have only one side guaranteed perfect. Orange Label discs have same lacquer coating, with lighter aluminum base. Masters are identical to green label but have larger diameters for processing. Base Thicknesses: .064; .056; .052; .040.

Stock No.	Size	Label	Net Each	Sid. Pkg.	Wt. Lbs.	Notper Pkg.
P11940	17 1/2"	Master	4.20	20	33	67.20
P11933	16"	Green	2.81	25	30	56.25
P11941	16"	Brown	2.25	25	30	45.00
P11942	13 1/2"	Master	1.95	30	25	46.80
P11967	13 1/2"	Green	1.95	30	30	46.80
P11992	12"	Green	1.54	25	15	30.75
P11943	12"	Brown	1.20	25	15	24.00
P11963	12"	Orange	1.15	50	22	34.50
P11944	10"	Green	.98	25	10	19.50
P11962	10"	Orange	.85	50	18	23.50
P11961	8"	Orange	.55	50	15	16.50
P11960	6 1/2"	Orange	.40	50	16	12.00

RECORDIS RECORDING BLANKS

For Semi-Professional and Home Use. Orange Label: Processed paper base with a cellulose Nitrate coating. Double faced.

Stock	Dia.	Each	6 for
P11969	6 1/2"	.20	.90
P11970	8"	.27	1.26
P11971	10"	.40	1.80

Red Label: Professional grade with cellulose nitrate coating. .021" aluminum base.

Stock	Dia.	Each	5 for
P11972	6 1/2"	.27	1.20
P11973	8"	.33	1.50
P11974	10"	.53	2.40
P11975	12"	.67	3.00

Purple Label: Aluminum based, low cost disc.

Stock	Dia.	Each	5 for
P11945	6 1/2"	.20	.90
P11946	8"	.27	1.20
P11947	10"	.40	1.80

AUDIODISC PROFESSIONAL BLANKS

Red Label: Aluminum based blanks with coatings on both sides. For highest quality work in broadcast stations, recording studios, etc.

Stock	Dia.	Each	25 for
P11989	8"	.59	13.23
P11994	10"	.81	18.37
P11995	12"	1.34	30.13
P11996	16"	2.45	55.12

Yellow Label: Both sides coated on aluminum base. Suitable for school and studio use.

Stock	Dia.	Each	25 for
P11990	8"	.49	11.02
P11997	10"	.66	14.70
P11998	12"	1.08	24.25
P11999	16"	1.93	43.36

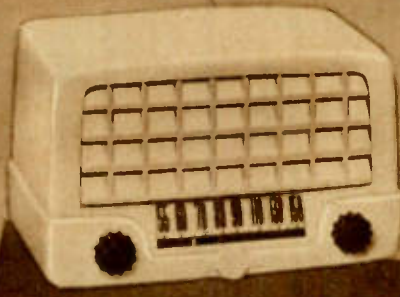
MAGNETIC RECORDING TEXT

Complete text by the outstanding recording engineer, S. J. Begun. Covers theory of the magnetic recorder, acoustic factors in magnetic recording, magnetism, equipment, applications, instrumentation and use. A detailed and authoritative discussion of fundamentals. Dimensions: 6" x 9"; 254 pages; 146 illustrations. Postpaid in U.S.A. **5.00**
P20182

Safayette

"SHOW SETS"

**EXCITING STYLES...
EXCITING VALUES!**



"WAKEMASTER"

With Exclusive Lullaby Switch

This utterly delightful "Wakemaster" radio and clock plays for as much as an hour before shutting off automatically after you have been lulled to sleep. In the morning it awakens you to your favorite music or news. For heavy sleepers, it sounds a buzzer 10 minutes after turning on in the morning. A high gain superhet, combined with the famous Telechron sweep second alarm mechanism, this exquisite little set uses four high efficiency tubes. Has 35Z5 rectifier. Has sensitive built-in loop. Alnico V PM speaker, Automatic Volume Control. Excellent tone. Approved for operation on 110-120 volts 60 cycles AC. 6 1/4 x 10 3/4 x 5 1/4". Shpg. wt. 10 lbs.

P554—Walnut Finish **26.25**
P555—Ivory Finish **27.25**

AC-DC "RANGER"

This beautifully fashioned "Ranger" is very aptly named, since its extended tuning range covers not only all of the standard broadcast band but the extended police band too. At brilliant in performance as it is striking in appearance, this powerful superhet combines sensitivity and excellent tone quality in a sturdy plastic cabinet of gleaming beauty, enhanced by a modern lattice-work grille. Has built-in, powerful Loopantenna, high ratio vernier tuning, easy to see illuminated slide rule dial and an excellent Alnico V speaker for tone and volume that will actually amaze you with its big set quality. For operation on 110 volts DC or AC 50/60 cycles. 9 1/2 x 5 1/2 x 5 1/2". Shpg. wt. 7 lbs.

P564—"Ranger" **17.95**

3-WAY PORTABLE

This small, lightweight plastic, easy to carry personal portable will capture your heart the moment you turn it on. Operates on AC, DC or self-contained batteries. Sturdy, shatter-proof maroon polystyrene cabinet has a smart bronze grille. Highly sensitive superhet circuit uses the latest miniature tubes: 1R5, 1T4, 1V5, 3V4 power pentode. Has instant acting selenium rectifier. Built-in Loop-antenna and a highly efficient Alnico V PM speaker for excellent wide range tone quality and surprising volume. Modern slide-rule dial with big numerals. Covers all the broadcast band from 540 to 1600 Kc. Extra sturdy carrying handle.

P427—Shpg. wt. 8 lbs. **22.95**
Less Batteries.....
Batteries for above: 1 ea. required.
Shpg. wt. 2 lbs.
Type G3-4 1/2 **69c**
Type XX45-67 1/2 **1.93**



AC-DC "GEM"

The beautiful performance and matchless styling of this perfect little "gem" of an AC-DC Superhet are certainly unequalled at this sensationally low price. Features a sensitive three tube, plus rectifier, superhet circuit for operation on 110 volts DC or AC (50/60 cycles.) Covers the 540 to 1650 Kc AM broadcast range. The exquisitely proportioned cabinet, only 5 1/2" high, 8 3/4" wide and 4 1/4" deep is available in a lustrous ebony or gleaming ivory finish. Tiny, weighing just over 3 lbs., it is ideal for the kitchen, children's room, den, rumpus room, etc. Fine Alnico V PM speaker for wonderful tone. Comes complete with built-in antenna hank for operation anywhere. Shpg. wt. 6 lbs.

P440—Ebony Finish..... **13.45**
P441—Ivory Finish **14.45**

AC-DC SUPERHET

This excellent little AC-DC Superhet with its handy carrying handle on its real bakelite cabinet is definitely one of the best buys we've offered in a long time. Extremely sensitive and selective, it covers the entire AM band from 550 to 1700 Kc (which includes the extended police band). Features a sensitive built-in loop, A.V.C., two I.F. transformers, powerful 5-inch Alnico V PM speaker and a large illuminated airplane type dial. The efficient, advanced design superhet circuit uses: 12SA7, 12SK7, 12SQ7, 50L6GT. Rectifier is 35Z5. For operation on 105-125 volts DC or AC 50/60 cycles. Overall size: 8 3/4" x 5 1/4" x 5 1/2".

With tubes. Shpg. wt. 8 lbs.
P565—Walnut Finish **16.95**
P566—Ivory Finish **17.95**

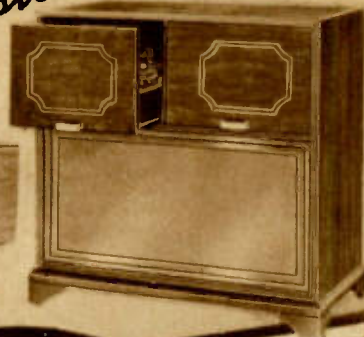
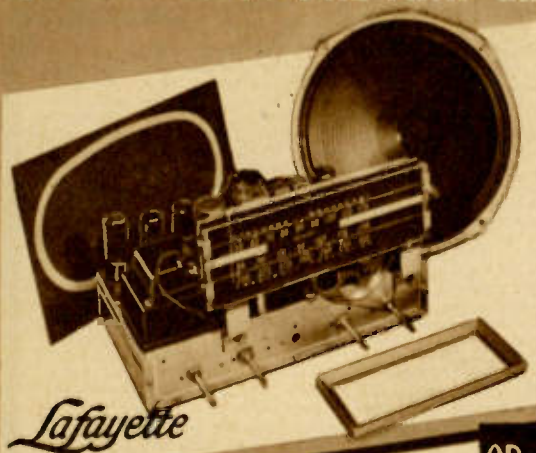
FM-AM RADIO

Enjoy all the noise-free, fidelity reception of FM and all the variety and distant reception of AM with this beautiful table model radio. It is designed to take advantage of all the inherent improvements in today's stations. Receive static-free FM on the 88-108 Mc band, and the fine AM programs not yet duplicated or out of range of FM, on the 540-1700 Kc AM band. Circuits have been carefully designed for sensitive, efficient operation. Separate IF coils for each band. Features continuous tone control, beam-power output, large Alnico V PM speaker, and built-in AM and FM antennas, with provisions for external antenna where desired. Uses: 2-6B3, 12AT7, 68H6, 12AL5, 12AT6, 35L6. Has 35Z5 rectifier. For 105-125 volts DC or AC (50/60 cyc.) 12 x 8 x 7"

Complete with tubes. Shpg. wt. 13 lbs.
P819—FM-AM Radio **39.95**

TRUE FIDELITY FM-AM CHASSIS WITH PHONO PRE-AMP and 12" SPEAKER

Ideal for Custom Installation



OR IN THESE SPECIALLY

DESIGNED CABINETS ★

TRUE-FIDELITY FM-AM CHASSIS IN SPECIALLY DESIGNED CABINETS WEBSTER 3-SPEED CHANGER—GE PICKUP

We have mounted the P1215 True-Fidelity FM-AM Chassis, described at left, in two specially designed decorator-styled cabinets. Each unit contains the fine, new Webster Model 100-270 three-speed record changer with General Electric "Triple-Ploy" variable reluctance cartridge, as well as the excellent 12" Concert speaker with heavy Alnico V magnet. Each unit is mounted and tested by our trained sound-craftsmen so that superb performance is assured.

Replace your present obsolete chassis—or build a new custom installation with this truly terrific value in an FM-AM radio with built-in preamplifier for variable reluctance pickups. Features a 10-watt true fidelity audio system, plus a wide-range 12" PM speaker. Will provide better quality reproduction than many of the much higher priced radios of only a few years ago. We're so sure that you'll be enthusiastic about this great buy that we will permit you to return it within 30 days of purchase date for full refund, less transportation charges, if you are not entirely pleased with it. Advanced modern circuits in this fine set include compensated pre-amplifier for GE and other variable reluctance pickups; high and low impedance phono inputs, full range tone control; 2 cabinet antennas—loop and folded dipole, 10-watt push-pull beam power audio output; illuminated slide rule dial. Frequency range covers 88-108 Mc on FM and 550-1700 Kc on AM. Tube complement: 6NA6, 7F8, 7Q7, 7AH7, 7A6, 7F7, 6SH7, 6AT6, 6SC7, 2-7C5. Has 5Y3GT rectifier. For operation on 105-125 volts, 60 cycles AC. 9"x13"x9 1/2" deep.

P1215—Shpg. wt. 25 lbs. **69.50**

THE MODERNE. Consists of the P1215 FM-AM Chassis, Webster 100-270 changer with GE "Triple-Ploy" cartridge, and 12" speaker mounted in the cabinet illustrated above at left. Changer is mounted in a slideout drawer. Chassis is mounted in adjacent space having a hinged over-hang slideaway door. Attractive matching speaker grille. Cabinet is sturdily constructed of choice hardwoods, Blonde finish, with beveled moldings and offset legs. 35" high, 36 1/2" wide, 17 3/4" deep. Shpg. wt. 135 lbs.

P1223—Blonde **199.50**

P1222—As above, Mahogany **195.50**

3P115—Blonde cabinet only **82.50**

3P116—Mahogany cabinet only **79.50**

Shpg. wt. of cabinets only, 100 lbs.

THE RONLEIGH. Same set as the Moderne but in the quiet elegance of traditional styling, with authentic period moulding and bronze hardware. 37 1/4" H., 35 3/4" W., 17 3/4" deep. Mahogany only.

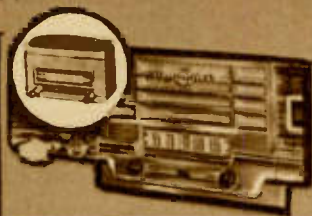
P1224—Shpg. wt. 135 lbs. **199.50**

3P124—Cabinet alone, Wt. 100 lbs. **82.50**

★ Easy to Install

★ Tremendous Savings

★ Fine Auto Radios



CUSTOM DESIGNED FOR 1948-1951 FORD, DODGE, PLYMOUTH, CHEVROLET, HUDSON, STUDEBAKER, HENRY J

These fine, custom-designed auto radios are made especially for recent and late model popular cars. Full, simple installation instructions enable anyone to install—and save plenty. No cables, no brackets, no holes to drill. Superhet circuit has five tubes, plus rectifier, for super-performance. Three gang tuning condenser, tuned R.F. stage assure fine sensitivity. Fine toned Alnico V speaker, A.V.C.; easy vision slide rule dial. Exceptionally low drain from your car's 6-volt battery. Simple one or two unit construction, depending on car. Requires no experience to install. Simple, clear directions included.

- P1674—For Ford 1951
 - P1675—For Chevrolet 1951
 - P1676—For Henry J 1951
 - P1678—For Plymouth 1951
 - P1677—For Dodge 1951
 - P1671—For Studebaker 1950 & 1951
 - P1665—For Hudson 1948-49-50-51
 - P1660—For Ford 1949-1950
 - P1664—For Chevrolet 1949-1950
 - P1662—For Dodge & Plymouth 1949-50
- Any Above, List Price, \$59.95.
Shipping Weight 14 lbs.
DEALER'S NET, EACH **46.95**

Universal Type Auto Radios

These single unit construction, universal mounting auto radios mount under the dashboard of most cars and trucks and bring you hours of listening joy as you travel.

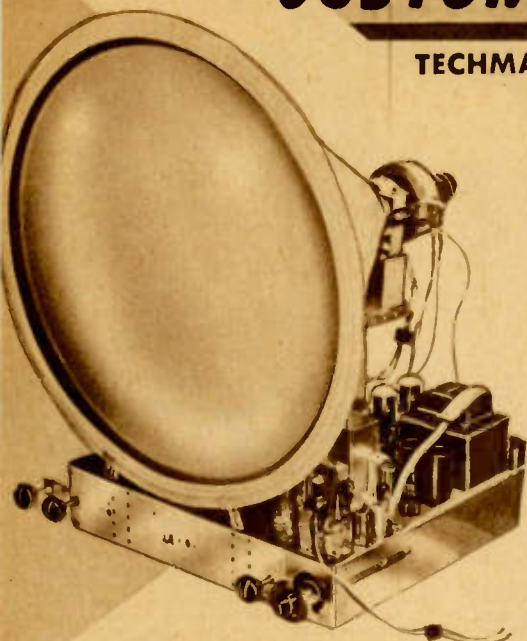
Standard Model. A low-cost 4-tube and rectifier auto Superhet with big set performance. Fits all cars; simple universal mounting. Fine sensitivity, and excellent tone from Alnico V PM speaker. AVC. Illuminated slide rule dial. Very low 6-volt battery drain. 10 1/2 x 6 1/4 x 4 1/2" metal case. 11 lbs. P1567—

Standard Model **32.25**

De Luxe Model. Powerful 5-tube and rectifier radio with RF stage and IF trap to eliminate interference. Has antenna compensator, matches any auto aerial. Tunes 540 to 1650 Kc. Noise suppressor equipment supplied for average car. Illuminated slide rule dial; Alnico V speaker; Brown Hammered finish metal case, 5 1/4 x 4 1/4 x 1 1/2". Complete with tubes; for 6 volt operation. Shpg. wt. 13 lbs. P1623—
De Luxe Model **39.95**

CUSTOM QUALITY TV CHASSIS

TECHMASTER DELUXE 24" CHASSIS & 12" SPEAKER



Now Techmaster, — the choice of engineers and technicians everywhere — makes super-powered, large screen television a reality. There is power enough to operate faithfully in low signal strength and in fringe areas; power enough to hold weak signals "rock-steady" on the giant screen; power enough to impart a motion picture clarity, brilliance and life-like quality to TV programs. This chassis is among the finest receivers on the market. Long life parts running at or below rated values guarantee you years of trouble-free operation. The circuit is based on the original RCA 630 design and is praised by service technicians and satisfied users around the world. No corners have been cut — no expense has been spared, to produce the very finest television receiver. A horizontal sync discriminator circuit with AFC insures steady pictures during normal noise bursts. A full 4-stage video IF strip operating on normal AGC bias produces a sensitivity of better than 15 microvolts for 1 volt DC at the detector. There is "Keyed AGC" to provide a highly stable contrast level. Techmaster's "Hi-Sweep" system develops 70 degrees of horizontal deflection — with plenty of that extra sweep. Uses a new type ferrite core "flyback" transformer, improves retroce characteristics. Better horizontal linearity and greater high voltage are obtained. In addition to all these up-to-the-minute features, Techmaster has provided special color converter connections for adapting to ANY color system. Ultra High Frequency channels may be received merely by interchanging tuner strips. All chassis' are supplied completely wired, aligned, tested and with all tubes in place (less picture tube).

MODEL 2430. Designed specifically for all picture tubes requiring from 65 to 70 degree deflection (such as 24AP4, 20CP4, 19AP4 etc.). Supplied with 12" PM speaker and with universal mounting brackets for picture tube. **189.50**

1P187 — Model 2430. Less Kinescope.....
MODEL 2431P. Same as above but with Push-Pull Audio and phono input jack. With 12" PM speaker. Less Kinescope. **199.95**

1P188 — Model 2431P.....
MODEL 2431C. Basically the same as model 2430, but contains a continuous tuner, Push-Pull Audio, and a phono jack. This allows complete coverage of both television and FM bands. Supplied with a 12" PM speaker and universal mounting brackets for picture tube. **199.95**

1P189 — Model 2431C. Less Kinescope.....
21 3/4" W. x 15 3/4" D. Shpg. Wt. 70 Lbs.

RADIO CRAFTSMEN GIANT 24" CHASSIS

It's no longer a dream! This very minute, home theater television is a reality — a tremendous reality. Tremendous not only in size, but in clarity and picture definition . . . in fidelity of sound and sensitivity in fringe areas. Designed for the finest custom installation this TV tuner is a miracle of precision engineering. A special built-in booster that raises the video signal 10 DB is included. Even without the booster in the circuit, the RC TV tuner has a sensitivity of 25 microvolts. Perfect images are assured by use of Automatic Frequency Control of both the horizontal and vertical sweeps. AGC eliminates airplane flutter and auto ignition interference. Cathode-follower audio output permits connection of the tuner to an audio amplifier at practically any distance, while preserving the full benefit of rich FM sound, 20 to 20,000 CPS. No FM band.

Model RC 201. Less kinescope..... **252.50**

RC 200 MODEL. Similar to above but with 5-watt push-pull, Hi-Fi audio system and continuous tuner for TV and FM bands. Also has dual-shadow tuning eye and one knob control of TV, FM or phono. Picture circuits automatically switched-off for FM or phono. **252.50**

Model RC 200. Less kinescope.....

RC 101 MODEL. Similar to the RC 201 but without output stage. **242.10**

RC 101. Video tuner only. Less kinescope.....

ACCESSORY MOUNTING KITS

	Col. 1	Each	Col. 2*	Each	use.
RC219M	30.35				19" round
RC220R	21.40	RC220RS	5.00		20" rect
RC224M	42.50	RC224MS	18.90		24" round

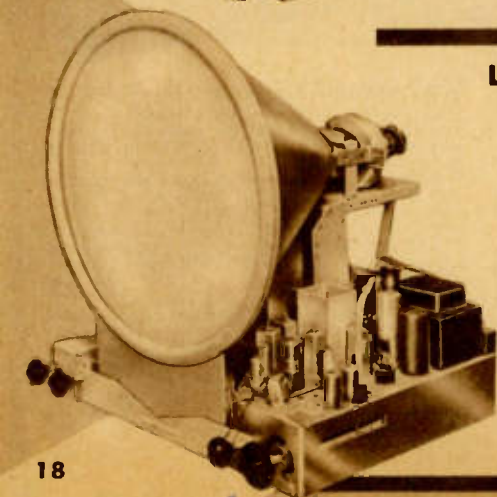
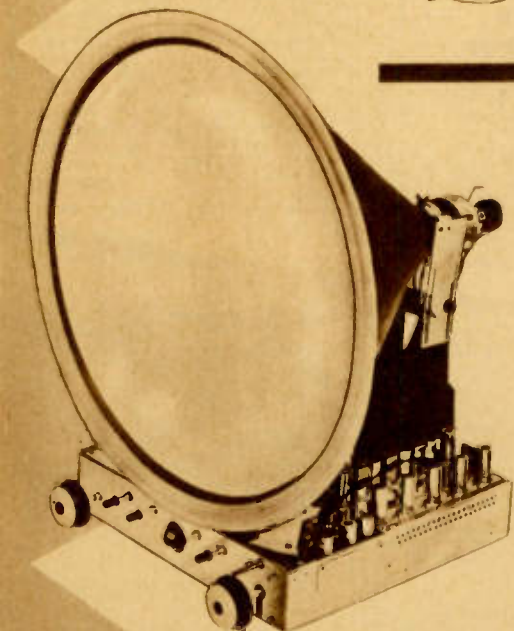
Column 1 type numbers are complete mounting kits containing escutcheon, safety glass and mask, hardware, rings and sleeve. Column 2. The kits listed in this column are supplied less bezel, mask and glass. All other accessories are included.

LAFAYETTE 630-PLUS CHASSIS & 12" SPEAKER

Everything you've ever wanted in a TV receiver is here now in Lafayette's new precision engineered circuit, especially designed for big picture use. Features you would expect to find only in sets selling at much higher prices have been incorporated into this truly superb chassis. Ruggedly built and high-powered, this set will give you years of pleasant televiewing. You will see all the sport, musical, dramatic and special event shows in clear, brilliant, life-like quality. Discriminating listeners will be thrilled by its genuine FM "room-presence" full-range sound. "Lock-in" circuits hold the picture steady and sharp at all times. Unsurpassed for fringe area use and local reception due to the better than 20 microvolt sensitivity developed in a 4-stage video IF system. Keyed automatic gain control gives better contrast level, freedom from airplane flutter and auto ignition interference. Horizontal centering, vertical centering and focus adjustments are all manual and are located on the new PM focalizer yoke. Once set, further adjustment is rarely required. Tuner readily adapted for the proposed UHF channels. Based on the original RCA 630-TS design, the receiver will operate picture tubes up to and including the 21" rectangular size. First quality, heavy duty components assure years of trouble-free service. A top quality 12" Alnico V PM speaker is supplied. Set comes completely wired and ready to install. For 117 V, 60 cycles AC.

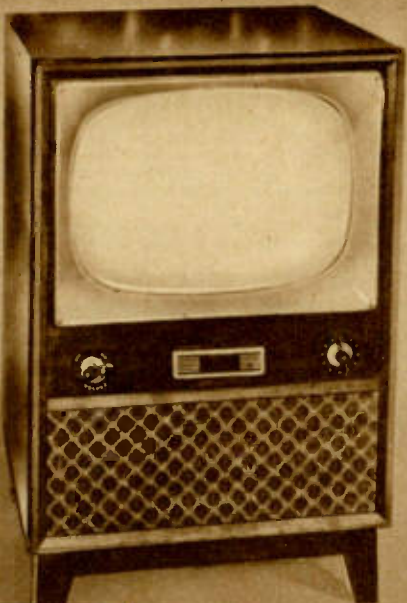
1P190 — Shpg Wt. 80 lbs. Supplied less kinescope..... **129.50**

1P191 — Set of kinescope mounting brackets..... **4.95**

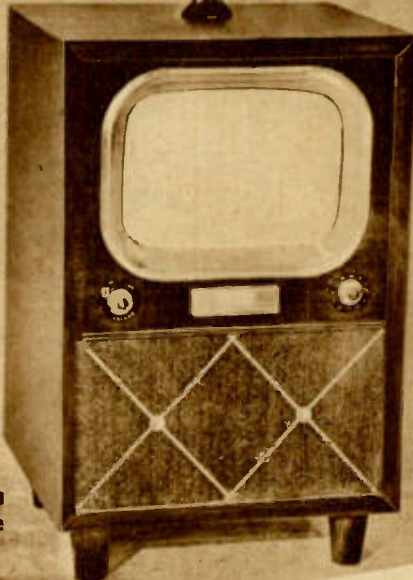


Lafayette "YEARS AHEAD" TV VALUES

- WITH COLOR ADAPTOR OUTLET •
- ADAPTABLE FOR FUTURE UHF •



159⁵⁰
 INCLUDES
 GUARANTEE
 &
 FEDERAL
 TAX



17-Inch
 Console

199⁵⁰
 INCLUDES
 GUARANTEE
 &
 FEDERAL
 TAX

20-Inch Console

Lafayette again scoops the TV world with this grand, new 20-inch advanced television console at far below the market price for a comparable value. Here's a 20" rectangular screen with the new black anti-glare picture tube that will give you pictures as sharp, bright and clear as any you've seen—and then some. Where else but at Lafayette would you ever find a value like this handsomely styled, sturdily built, beautifully finished TV console—and with a full 1 year guarantee on parts and six months guarantee on tubes? The super-power chassis features Automatic Gain Control; Contrast Control; High Efficiency Horizontal Sweep Output, Horizontal A.F.C. It also features a phono input for use with a record player, and being ahead of the times, it even includes a highly sensitive 12-Channel Tuner for adaptable for U. H. F. It utilizes a large Alnico V PM speaker. Simplified superb reproduction through a large Alnico V PM speaker. Just like one-knob tuning control for fast easy tuning of both picture and sound—flip the horizontal, vertical and brightness controls are located behind a snap door on the front panel. Tubes used: 6AG5 or 6BC5, 6J6, 6C86 or 6BC5, 3-6AU6, 2-6AL5, 6AC7, 6T8, 6V6, 12AU7, 2-6SN7, 6J5. Also included are 6BG6 Hor. Output, 6W4 Damper, 1B3 H.V. Rect. and 5U4 Rectifier. Picture tube supplied is 20CP4. Lustrous, satin finish cabinet is 36 1/2" high, 22" wide, 21" deep. For operation on 117 volts 60 cycles AC. Shpg. wt. 120 lbs.
 1P184-Lafayette 20" TV Console.....NET **199.50**
 (Above price includes Federal Excise Tax and one year warranty on parts and 6 months warranty on tubes including kinescope.)

This outstanding 17-inch television console is not only one of the finest consoles of its type available at any price, but our rock-bottom price even includes a one year guarantee on parts and 6 months guarantee on tubes! There's value for you that you'll find only at Lafayette. This advanced design set includes an outlet for color adaptation and is also adaptable to U. H. F. when that comes on the scene. Just turn the simplified one-control tuning knob and the black-face anti-glare 17" picture tube gives you a clear, bright, steady picture and, at the same time your fine FM sound record player. No set could be simpler to operate. The ACC and Contrast Control maintain picture stability and quality at all present channels and is adaptable to UHF. A wonderful 8" Alnico V PM speaker floods your home with its fine tone. Want to adjust horizontal, vertical or brightness? The controls are cleverly concealed behind a snap door on the front panel. Tubes used: 6V6, 12AU7, 2-6SN7, 6J5. Also supplied are 6BG6 Hor. Output, 6W4 Damper, 1B3 HV Rect. 5U4 rectifier. Picture tube is 17BP4. Size: 34 1/2" high, 21" wide, 20" deep. For 117 volts 60 cycles AC. Shpg. wt. 105 lbs.
 1P186-Lafayette 17" TV Console.....NET **159.50**
 (Above price includes Federal Excise Tax and one year warranty on parts and 6 months warranty on tubes including kinescope.)

17" TABLE MODEL TV SET

Where space is at a premium in the smaller home or apartment you'll find this superb Lafayette 17-inch table model television set a genuinely amazing value. You'll not sacrifice big picture size and yet you can locate this set almost anywhere and improve your decor. The super-power chassis in this table model set is identical with the fine 17" TV console shown above, except for the speaker which is a five-inch Alnico V PM unit. And like its console counterpart there is a full year guarantee on all parts, 6 months guaranty on all tubes. Tuning operation is simplicity itself. Just turn the selector knob and there's your picture and sound perfectly tuned in—and because of the inherent stability of the chassis, that's where they stay, for complete TV enjoyment. A phono-input jack is provided for use with any record player or record changer. TV-phono switch on rear of cabinet. A sensitive 12-channel tuner is adaptable for later UHF reception. Color-adaptation outlet is provided on rear of chassis. Tube complement is identical with 17" console model above. Size: 18" high, 19" wide, 21" deep. For 117 volts 60 cycles AC. Shpg. wt. 87 lbs.
 1P185-17" Table Model TV.....NET **139.50**
 (Above price includes Federal Excise Tax and one year warranty on parts and 6 months warranty on tubes. Table not included.)



139⁵⁰
 INCLUDES
 GUARANTEE
 &
 FEDERAL
 TAX

17-Inch
 Table
 Model

hallicrafters

AMATEUR • SHORT-WAVE • HIGH

MODEL S-38-B AC-DC ALL-WAVE RECEIVER

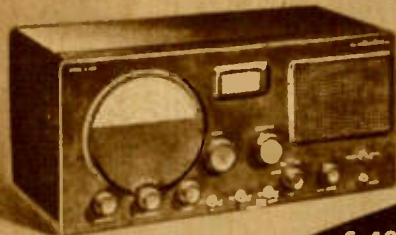
The radio that amazes even the experts! Pulls in broadcast stations in weak signal areas where ordinary sets fail. In short a great new four-band low-cost communications receiver that is tops in value. Provides continuous reception from 540 KC to 32 MC with full electrical bandspread for operation on AC or DC. Has self-contained 5" PM speaker. Offers world-wide reception for the short wave listener and the new radio amateur. Has regular communications-type controls for greater flexibility of operation: Main tuning control in megacycles with separate bandspread dial having an arbitrary scale; speaker-phone switch; AM-CW switch; Band switch; Standby switch and on-off-volume. Headphone tip jacks on the rear of the cabinet. An unusual AC-DC superheterodyne circuit using a 12SA7 converter, a 12SK7 IF amplifier, and BFO, a 12SQ7 Detector, 1st Audio and AVC, and a 50L6GT beam power output. Uses a 35Z5GT rectifier. The S-38-B was designed specifically to provide maximum sensitivity and selectivity — in no way comparable to ordinary radios having the same number of tubes. The cabinet is tops in styling along communications — rig lines; a rich satin black finish with light gray panel lettering. Airodized speaker grille in top, green dial, red slide switches. Size: 12 $\frac{7}{8}$ " W., 7 $\frac{3}{8}$ " H., 7 $\frac{1}{4}$ " D. For operation on 105-125 volts DC and AC 40-60 cycles. Complete with tubes and speaker. Hallicrafters Model S-38-B — Shpg. wt. 14 pounds..... **49.50**



S-38B

S-40-B COMMUNICATIONS RECEIVERS

A well-known standard communications receiver in the medium-priced bracket is the Hallicrafters S-40-B. Contains the same sensitive powerful circuit as of former years, yet combines the newest in circuit and style refinements to keep it up there where it belongs — a top performer that will stand up and stand out in any class of communications equipment. Combines top sensitivity with real selectivity. High signal-to-noise ratio. Covers 540 KC to 43 MC including the standard broadcast and amateur bands. The tuning dial is precisely calibrated for 6 amateur bands. Pointer remains stationary — dial face rotates. Equipped with electrical bandspread. The improved circuit features automatic volume control, automatic noise limiter, variable-pitch BFO, 5" PM speaker, phone jack and volume control on-off switch. Temperature compensator in oscillator circuit insures top stability. Employs 6SG7 RF; 6SA7 Converter; 2-6SK7 IF's (455 KC); 6SC7 1st Audio-BFO; 6K6G output; 6H6 2nd Detector, Automatic volume control and Automatic Noise Limiter. Uses a 5Y3GT rectifier. Cabinet is of satin-black finished steel, measures 9" x 18 $\frac{1}{2}$ " x 11". Speaker grille on front panel. For 105-125V., 50-60 cycles AC. AC. Complete with tubes and instructions. Model S-40-B Shipping Weight 33 lbs..... **99.95**



S-40B

Model S-40 BU. Exactly the same as the S-40-B in reception performance but operates from 110, 130, 150, 220, or 250 volts, and from 25- to 60 cycles AC. This is the perfect overseas receiver — for missionaries, explorers, world-travelers and amateurs in other countries. The type of rig Stanley would have given Dr. Livingstone, we presume. This set will provide strong, clear reception where most other sets fail. Hallicrafters Model S-40-BU — Shpg. wt. 35 lbs..... **109.95**
Model S-77 — Same as S-40-B but for 115 volts AC or DC..... **99.95**



SX-62

MODEL SX-62 "SWL" RECEIVER

The world's finest receiver for the all-wave listener. Outperforms any ordinary broadcast receiver on any frequency — standard broadcast, short-wave or FM. It represents an outstanding achievement in all-wave receiver engineering. Simplicity of operation combined with superb reception never before found in this type of equipment. A single tuning control covers the wide-vision dial. Only one band lights up at a time. In addition, a 500 KC crystal calibration oscillator is built in enabling you to adjust the dial pointer for pin-point accuracy. Gives continuous coverage from 540 KC to 109 MC on 6 bands. Push-pull output delivers a full ten watts of audio power, flat from 50-15,000 cycles. A bass-boost circuit and 4-position tone control permit enough variation of tone to please the most critical listener. Two IF and two tuned RF stages assure maximum sensitivity and improved signal to noise ratio on VHF. A 6-position selectivity switch with crystal filter operates on frequencies between 540 KC and 30 MC. Other features include separate RF and AF gain controls, temperature compensated and voltage regulated oscillator, 500 and 5000-ohm outputs, 300-ohm antenna input and a special socket for external power. Piano-hinged, gray steel cabinet with satin chrome trim measures 20" x 10 $\frac{1}{4}$ " x 16". Contains: 2-6AG5's, RF, 7FB Converter, 6SK7 1st IF, 6SG7 2nd IF, 6H6 ANL, 2-7H7 FM Limiter and AM Detector, 6H6 Discriminator, 2-6V6 Output, 7A4 BFO-FM Tuning Meter Amplifier, 6C4 crystal calibrator, plus a VR150 voltage regulator, 6SL7 Inverter, and 5U4G Rectifier. For 105-125 volts, 50-60 cycles. Hallicrafters Model SX-62 — Shpg. wt. 70 lbs..... **289.50**



S-76

Hallicrafters Model SX62U — For 115, 130, 150, 220, 250, V, 25-60 cycles AC..... **302.00**

MODEL S-76 DOUBLE CONVERSION RECEIVER

This is the only double superhet with 50 KC second IF and giant-sized "S" meter. Provides all the advantages of image-free reception. Adjustable IF provides 5-position bandwidth variable from 500 cycles to 5 KC at 6 db down, and from 5 to 20 KC at 60 db down. Covers four bands continuously: 538-1580 KC; 1720-4900 KC; 4.6-13 MC; 12-34 MC. Provides electrical bandspread tuning. Output for 3.2 or 500-ohm external speaker, or headphones. Employs: 1-6CB6, 2-6BA6, 1-6C4, 1-6BE6, 1-6AL5, 1-6SC7, 1-6K6GT, 1-6AU6. Also uses a VR-150 voltage regulator and 5Y3GT rectifier. Gray steel cabinet with piano hinge top measures 18 $\frac{1}{2}$ " x 9" x 9 $\frac{1}{2}$ ". External power, remote control connections. Complete with tubes and instructions. 115 volts, 50-60 cycles AC. Hallicrafters Model S-76 — Shpg. wt. 40 lbs..... **169.50**



SX-71

MODEL SX-71 DOUBLE CONVERSION RECEIVER

A double conversion receiver value packed with features specifically asked for by Hams. Extra sensitivity, selectivity and stability; definitely superior image rejection plus built-in narrow band — 1 microval sensitivity with 50 milliwatts output. Temperature compensation. Voltage regulation. 538 KC to 35 MC, 46-56 MC, Three watt output terminals. Employs: 6BA6 RF, 6C4 Oscillator-6AU6 Mixer, 6BE6 2nd Converter, 3-6SK7 IF, 6H6 ANL, and delayed AVC, 6SC7 BFO/1st Audio, 6AL5 detector and 6K6GT Audio Output. VR-150 voltage regulator, 5Y3GT rectifier. Satin black cabinet, chrome trim, hinged top. Size: 18 $\frac{1}{2}$ " x 7 $\frac{3}{8}$ " x 12". For 105-125 volts, 50-60 cycles. Hallicrafters Model SX-71 — Less speaker. Shpg. wt. 33 lbs..... **199.50**
Hallicrafters Model SX-71U — 115 250 V, 25-60 cycles..... **209.50**



R-46

R-46 MATCHING SPEAKER

Matching 10" PM speaker in metal cabinet for use with SX-71, S-76 and SX-62. 80 to 5000 cycle range. 500-ohm matching transformer. Hallicrafters Model R46 Speaker — 15 W. x 10 $\frac{7}{8}$ " H. x 10 $\frac{7}{8}$ " D. Shpg. wt. 17 lbs..... **19.95**

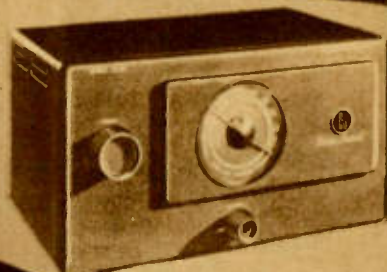
FIDELITY FM-AM RECEIVERS

hallicrafters

MODELS S-81, S-82 CIVIC PATROL RECEIVERS

Compact, easy-to-operate new FM receivers covering police, fire, taxicab, truck, private telephone, railroad and other industrial frequencies. Especially suited for civilian defense groups in metropolitan areas where a reliable, low-cost receiver is required for industrial and emergency service communications. Headphone tip jacks on rear. Built-in PM speaker. The newly-designed FM chassis provides the low-frequency drift and high-signal-to noise ratio. Regular model S-81 covers VHF FM frequencies 152 to 174 MC; low-band model S-82 covers H/F FM frequencies 30 to 50 MC. Two IF stages for extra sensitivity to pull in weak stations. Steel cabinet in black wrinkle finish. Size 12 $\frac{7}{8}$ " x 7" x 7 $\frac{1}{4}$ ". Use single or twin lead antenna wire. Employs 12A7 Oscillator Converter, 2-128A6 IF Amplifiers, 12AL5 Ratio Detector, 12SQ7 AF Amplifier, and a 50L6 Output. Also has a selenium rectifier.

Hallicrafters Model S-81 — HF Receiver — Shpg. Wt. 14 lbs.....**49.50**
Hallicrafters Model S-82 — VHF Receiver — Shpg. Wt. 14 lbs.....**49.50**



S-81

MODEL S-80 DEFENDER RECEIVER

A new super-sensitive long-life battery radio for remote areas and emergency civil defense operations. Short-wave band 6-18 MC (Covering aircraft, amateur, foreign broadcast and international news frequencies) assures you of 24-hour reception under almost any conditions, even in weak signal areas where standard broadcast band "blocks out" in daytime. Ideal for use either as a primary radio in areas without electric power or as an emergency radio wherever dependable reception is required regardless of possible power failure. (Can easily be used with low cost AC to DC Power Converter if desired). Space inside cabinet for long-life 1,000-hour battery. Built-in PM speaker. Covers the standard broadcast band: 5401700 KC and one short-wave band 6-18 MC. Satin black plastic cabinet 17 $\frac{3}{4}$ " wide, 9 $\frac{7}{8}$ " high, 9 $\frac{5}{8}$ " deep. Battery space measures 16" x 8" x 4 $\frac{1}{2}$ ". Employs four low-drain miniature tubes: 1R5 Oscillator-Mixer, 1U4 IF Amplifier, 1U5 Detector, AVC and AF Amplifier, and a 3V4 Output. Battery pack is not included with receiver. Uses a single wire or double antenna. Has a conventional 4-prong power plug for 1 $\frac{1}{2}$ -volt "A" and 90-volt "B" to fit into Burgess 17GD60, General 60DL-11L, RCA VSO99, Sears 06308, Wards 51, and similar AB battery packs. Battery life 750-1000 hours.

Hallicrafters Model S-80 Defender Receiver — Shpg. wt. 12 lbs.....**44.50**



S-80

MODEL S-53A COMMUNICATIONS RECEIVER

Unquestionably the finest small communications receiver built. Ideal where maximum performance is required in small space. Cover the broadcast band 540-1630 KC and four short-wave bands 2.5-31 MC, and 48-51 MC. Circuit contains two IF stages for far-reaching sensitivity. Electrical bandspread tuning to separate stations on crowded bands, with calibration for all bands. Switches for automatic noise limiter code reception and high-low tone. Has a phono jack for playing records. Headphone tip jacks on rear. Contains a built-in PM speaker. Temperature compensated to reduce fading due to frequency shift. The S-53A incorporates the most modern circuit features and employs 1 6C4 Oscillator, 1 6BA6 Mixer, 2 6BA6 IF's, 1 6H6 detector, AVC, noise limiter, 1 6SC7 BFO-1st AF, 1 6K6GT AF Output (2.5 watts). Also employs a 5Y3GT as a rectifier. The S-53A communications receiver is also equipped with a voltage-stabilized oscillator. Black satin steel cabinet with brushed chrome trim. 12 $\frac{7}{8}$ " x 7 x 7 $\frac{3}{4}$ ". Top swings up on full-length piano hinge at back.

Hallicrafters Model S-53A — Shpg. wt. 19 lbs.....**79.95**

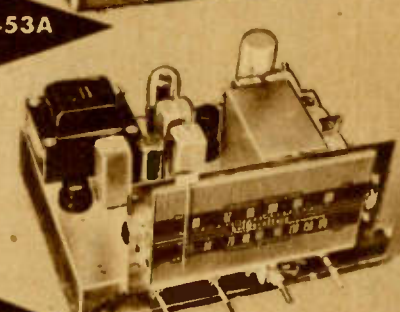


S-53A

MODEL S-78A FM/AM CHASSIS

A new radiation-proof FM/AM chassis to meet the popular demand for a medium priced unit with top-performance characteristics. Offers automatic Frequency Control assuring clearest possible reception of FM stations by eliminating the human error in tuning; as the station is approached this circuit "takes over" electronically and holds the station in perfect tune. Now radiation-proof is especially important in that normal oscillation from many ordinary FM receivers has been severely criticized by the FCC for interfering with VHF aircraft navigational aids. The new S-78A avoids this radiation by extensive shielding and filtering so that even the stringent standards proposed by the FCC are easily met. The receiver covers the standard broadcast band 540-1700 KC and FM 88 to 108 MC. One tuned RF, two IF stages. Audio response 50-14,000 cycles. Seven-watt push-pull output. Full range tone control, band switch, volume and tuning. Tuning knobs and escutcheon are furnished. The receiver is equipped with a phono input jack. Ten tubes plus a rectifier. All in all, it is a chassis that will be prized by experts and vastly preferred by amateurs all over the world who desire a radio that is all radio, one that will provide many hours of enjoyment on the FM and broadcast bands. Size overall 12 $\frac{1}{2}$ " wide by 7 $\frac{3}{8}$ " high and 11" deep.

Hallicrafters Model S78A Chassis — Shpg. wt. 25 lbs.....**89.50**



S-78A

S-72 PORTABLE COMMUNICATIONS RECEIVER

You'll always be in touch with the outer world wherever you go with this extra-sensitive all-wave portable radio. Designed both for better than average reception, even in weak signal areas, and for the radio amateur. One RF stage, two IF stages for far-reaching sensitivity. Built-in loop antenna for broadcast, plus 61-inch collapsible whip for short wave. Band spread tuning knob for separation of short-wave stations. Sensitivity control. Jack for headphones. Switch for reception of code signals. Covers 540 KC to 31 MC in four bands for reception of AM and Short-Wave signals. 540 to 1600 KC, 1500 to 4400 KC, 4.3-13 MC, 12-31 MC. Includes aircraft and police bands plus 160, 80, 40, 20, 15, and 11-10 meter amateur bands. Slide rule dial calibrated for each band, with full electrical bandspread for sharp pin-point tuning. Has tuned RF stage, provides high sensitivity and selectivity. Employs 1T4 RF Amplifier, 1R5 Oscillator, 1U4 Mixer, 2-1U4 Amplifier, 1U5 Detector Amplifier, 1U5 BFO, 3V4 Audio Output. Also employs a selenium rectifier. In addition, the S-72 has RF gain control which automatically turns on BFO and cuts out AVC for code reception. It has a built-in 4 $\frac{1}{2}$ " speaker. The long wave model gets airport towers and ranges. Ideal for airplane owners. Plenty of sensitivity for far-distant stations, even where ordinary receiving sets fail. The long wave model also gets marine beacons, gives rough "DF" bearings if ever lost in a fog. Precise construction and skillful engineering will bring you superb performance on the short wave bands plus fine-quality reception of your favorite broadcast programs. Brings land, sea, and air communications from all parts of the world plus hours of enjoyment on the amateur band. Brown leatherette cabinet, 14" wide, 12 $\frac{1}{4}$ " high, 7 $\frac{1}{4}$ " deep. Space inside for power cord and headphones.

Hallicrafters Model S-72 — Shpg. wt. 18 lbs.....**109.95**

Model S-72-L Long wave version of the S-72. Covers 175 KC to 420 KC band in place of the 12-31 MC band. For marine, aviation, etc.

Hallicrafters Model S-72-L — Shpg. wt. 18 lbs.....**119.95**



S-72



78" RPM PHONO PLAYER

Here's a fine, low cost, 78 RPM phono-player that is fine for home, school, vacations, etc. Plug into your 110 volt 60 cycle AC outlet and listen to your favorite 10" and 12" records. Really excellent tone, modern amplifier, Alnico V speaker, fine crystal cartridge. Has separate tone and volume controls. Durable leatherette covered, sturdy case with bright metal fittings. A really excellent buy.

16.12

P22672—Shpg. wt. 10 lbs.

3-SPEED ATTACHMENT

Plugs right into phono input of your radio or amplifier. Crystal pickup, with .002" needle, for 33 $\frac{1}{3}$, 45 and 78 RPM records, up to 12". Built in volume control, on/off switch. Positive speed control. Leatherette case, 5 $\frac{1}{4}$ x 12 $\frac{1}{2}$ x 10 $\frac{1}{4}$ " deep. For 110 volts 60 cycles AC. With 4-ft. cable and plug.

P22690—Wt. 10 lbs. **13.50**



3-SPEED PORTABLE PLAYER

- Dual-Turnover Cartridge
- Alnico V PM Speaker

Play any size record up to 12" with this new, extremely compact portable 3-speed phono-player. A simple slide switch instantly regulates the motor for 33 $\frac{1}{3}$, 45 and 78 RPM. Precision built motor for "wowless" reproduction, at all speeds. All wood, leatherette covered case in attractive two-tone finish, houses a full sized Alnico V PM speaker and a carefully designed, powerful two-tube and rectifier amplifier. Lightweight pickup arm with dual turnover crystal cartridge. Excellent tonal reproduction with exceptional volume. Equipped with volume control, tone control, and on/off switch. Case is 13" x 10 $\frac{1}{2}$ " x 5 $\frac{1}{8}$ " with sturdy carrying handle and ornamental hardware to add a note of smartness. With tubes. For 110-120 volts 60 cycles AC.

P22701—Shpg. wt. 12 lbs. **23.95**

THREE-SPEED AUTOMATIC PORTABLE PHONO

This deluxe three-speed portable phono player will reproduce a stack of 33 $\frac{1}{3}$, 45 or 78 RPM records automatically. Powerful amplifier uses 2 tubes and has a separate rectifier. Fine Alnico V 5" PM speaker for excellent tone and volume. Featherweight pickup features a dual reversibel cartridge—each with its own long-life needle. Separate volume and tone controls. Provides instant changeover to play 78 RPM and both speeds of long-play records. Oversize case, of durable leatherette over sturdy wood, permits playing of 12" records with lid closed. Quiet, smooth operating changer for years of trouble-free performance. For operation on 110-120 volts 60 cycles AC.

Shpg. wt. 23 lbs.

P22702 **50.95**



3-SPEED PHONO-RADIO PORTABLE COMBINATION

What a dream combination this handsome unit is! A wonderful sounding radio for the broadcast band, combined with a three speed phono player, all housed in a beautiful simulated natural rawhide covered case with genuine split cowhide stitched edges. Truly handsome, it is a joy to both the eye and ear. A sensitive Superhet radio, using 4 tubes and rectifier covers the broadcast band from 550 to 1650 Kc. The record player has a lightweight dual-needle crystal cartridge permitting you to select the right pressure for 78, 45 or 33 $\frac{1}{3}$ records of all sizes. 5" heavy duty dynamic speaker provides excellent tone and volume (2.2 watts). Extra large loop antenna assures dependable reception from near and far. Automatic motor control switch. Instant phono-radio changeover. For 110-120 volts, 60 cycles AC. 11 $\frac{1}{2}$ x 14 $\frac{3}{4}$ x 6 $\frac{1}{8}$ "

IP568—Shpg. wt. 18 lbs. **39.50**



3-SPEED DE LUXE PHONO With GE Triple-Play Cartridge

This deluxe 3-speed portable phono combines the finest features we've ever offered in a unit of this type. Lightweight 8-gram arm with GE "Triple-Play" variable reluctance cartridge for standard and long-play microgroove records. Advance-engineered 4-tube plus rectifier amplifier provides 6 watts of audio. Has separate tone control; volume control, on/off switch. 6x9 $\frac{1}{4}$ " oval Alnico V speaker for fine tone and volume. Sturdy motor with positive, -speed control. Plays 11 records with lid closed. Two-tone jumbo brown simulated alligator leather cover on 13 $\frac{3}{4}$ x 7 $\frac{3}{4}$ x 7 $\frac{1}{4}$ " carrying case. For 110-120 volts, 60 cycles.

P22649—Shpg. wt. 15 lbs. **39.50**



THREE-SPEED PROFESSIONAL TRANSCRIPTION PLAYER

A highly desirable instrument for schools, advertising agencies, sales - meetings, demonstrations, home, etc. Equipped with a microphone plug for use with a crystal mike. Plays up to 16" records of 78, 45 33 $\frac{1}{3}$ RPM, standard and microgroove. In simulated leather covered, two-part carrying case. One part contains fine 8" Alnico V PM speaker, and is detachable for remote placement. Amplifier has push-pull output, uses 3 tubes and rectifier; output 5 watts. Full range tone control. Heavy duty, wow-free motor with balanced turntable. 16" transcription arm, lightweight crystal pickup with twist styl. Complete with tubes, speaker cable and plug. For 110-120 volts, 60 cycles AC. P22703—

Shpg. wt. 17 lbs. **48.50**



Lafayette 8 WATT SINGLE & DUAL SPEAKER SOUND SYSTEMS

DUAL SPEAKER PORTABLE

Never before has so much value been brought together in one complete 8 watt sound system! Expertly engineered to the highest standards, and especially designed for store demonstrations, carnival and circus barkers, lecturers, masters of ceremony and others requiring small audience coverage up to 800 persons. Small, compact construction makes carrying easy from one place to another.

Here are matched units—complete with everything you need to operate a quality public address system. The simple plug arrangement makes installation and operation, fast and easy. Lafayette's 8 watt amplifier is guaranteed for one full year and covers replacement or repair of any materials and workmanship. Separate microphone and phonograph inputs and controls permit use of recorded music as a background for announcements. This feature adds a professional smoothness to your presentations. All components are mounted in a single portable carrying case measuring 13x10³/₈x17", and covered in handsome simulated rawhide in tan finish. Each of the two 8" PM speakers is mounted in a section of the two-piece case. Included also is a Shure Model 710A crystal microphone on a 6-inch desk stand with 7 feet of cable and plug. The Amplifier fits into the case for carrying. 70 feet of cable (35 feet for each unit) is attached to the speakers and is ready to plug into the amplifier.

Complete 8 Watt Dual Portable System. Nothing else to buy! Consists of Lafayette 8 watt amplifier with tubes two 8" heavy duty PM speakers with 70 feet of cable (35 feet attached to each speaker); handsome two-section carrying case; Shure Model 710A crystal microphone with 7 ft. of cable and mike stand adapter; all plugs and connectors. Ready to install and to operate. With instructions.

2P500—Shpg. Wt. 30 lbs. **49.50**

Add 5.88 to price if adjustable mike floor stand is desired.

SINGLE SPEAKER PORTABLE SYSTEM

Similar to above but with single speaker and 35-ft. cable and plug. Mounted in carrying case.

2P502—Shpg. Wt. 27 lbs. **45.50**

DUAL SPEAKER INDOOR

Here is the same high quality, low price combination as found in our dual speaker portable unit, but especially engineered for permanent installations. You get the famous Lafayette 8 Watt Amplifier (12 Watts Peak Output), two 8 inch PM Speakers designed for high response audio work, two handsome Fabricoid covered wall baffles (useful for permanent and semi-permanent use), one Shure Microphone Model 710A (the "REX" model in Burgundy Red metallic finish), one Floor stand, 35 feet of speaker cable for each speaker (70 feet total), seven feet of microphone cable, and all needed speaker and microphone plugs and adapters. Unit comes completely assembled and ready to use on 105-125 volts, 50/60 cycles AC. And as usual, you get Lafayette's full year guarantee covering defective parts or workmanship on the amplifier.

2P503—Shpg. Wt. 30 lbs. **52.50**

SINGLE SPEAKER INDOOR

A complete system, nothing else to buy. Consists of Lafayette 8 Watt amplifier (12 watt peak output) with tubes; one 8" PM, heavy-duty, speaker; one 8" wall baffle; one Shure 710A microphone with 7 ft. feet of cable and mike stand adapter and 35 ft. of speaker cable and plug. With instructions.

2P504 **39.50**

If desired with floor stand add 5.88 to above price.

8-WATT AMPLIFIER SPECIFICATIONS

POWER OUTPUT.....8 Watts—12 Watts peak
GAIN & INPUTS.. Microphone 105 DB, 2 Meg.
Phono 75 DB, 1/2 Meg.

FREQUENCY RESPONSE 50 to 10,000 CPS ± 2 DB

CONTROLS.....(3) Microphone, phono, tone

TUBES.....6L6G, 6SC7, 5Y3GT

OUTPUT IMPEDANCE.....4 & 8 ohms

POWER CONSUMPTION......70 watts

DIMENSIONS......7" x 10 1/2" x 5 3/4"

P157—8 Watt Amplifier with tubes...**24.75**



MASCO MIDGETALK 2-WAY INTERCOM SYSTEM

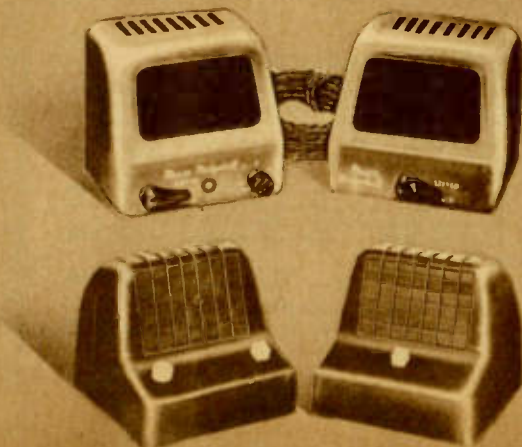
Unbreakable Cast Zinc Housing, mahogany finish, 5 x 4 1/2 x 5 1/2" high. Master station has pilot light, on-off volume control switch. Remote station has press to talk switch to originate call and allow for privacy, or can be used for two way conversation without manual operation. 3" Alnico V speakers. Matching cases. Unit consists of one Master, one Remote and 50 feet of interconnecting cable. Unit is shipped complete and ready to use. Included is set of instructions. U/L Approved—AC/DC.

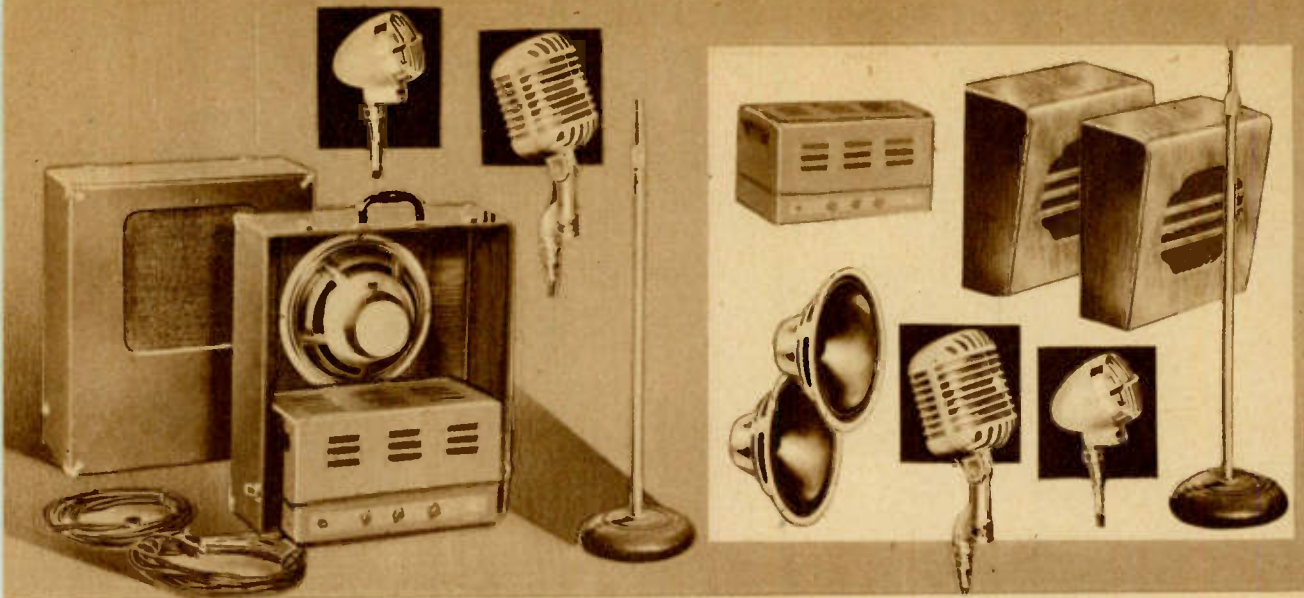
2P387—Shpg. Wt. 17 1/2 lbs. **25.37**

BOGEN CHALLENGER 200 2-WAY INTERCOM SYSTEM

Revolutionary 2-station system consists of one master, one remote and 50 ft. of cable. Equipped with new "Dual-Duty" volume control. Permits you to keep the remote station "alive" to hear all activity in its vicinity and the remote operates no control when replying. By turning down volume control at the master you silence remote station but remote can call master by operating his "talk" bar. You reply without resetting "Dual-Duty" volume control. For 117 volts, AC/DC. Three tubes, housed in brown polystyrene cabinet 6"H, 6 1/2"W, 7 1/2"D. With 50-ft. cable.

2P386—Shpg. wt. 8 lbs. **25.84**





Lafayette 18-WATT PORTABLE & INDOOR SYSTEMS

DUAL SPEAKER PORTABLE SOUND SYSTEM

Here is a complete portable P.A. or music system packed with the most modern features and priced to please the modest budget. Sets up in a very few minutes—ready to operate. No technical knowledge is necessary to operate this unit. This system is ideal for lectures, sales meetings, auctions, for traveling dance bands, square and folk dance leaders, folk song singers, audition and rehearsal halls and many other similar applications. Among the many features of the amplifier you will find electronic mixing of microphone and phanograph inputs, allowing the use of background music while using the microphone. This imparts a smooth professional quality to your presentations. Through the use of Inverse Feedback, hum and distortion are reduced. The use of a continuous tone control permits variation of tone to your individual taste, and also reduces undesirable feedback due to adverse "an location" conditions. Amplifier is fused for complete protection against breakdowns. The output circuit consists of two beam power 6L6G tubes in Push-Pull arrangement feeding an output transformer with secondary tapped at 2-4-8-15 and 500 ohms. All components are carefully matched to assure excellent performance and trouble-free operation.

Complete system includes two GE 25 watt 12-inch PM speakers; the popular Astatic JT-30 crystal microphone and floor stand; a strong fabricaid covered, two section, portable case; 100 feet of speaker cable (35 feet for each speaker), and shielded cable for the microphone. Speaker and microphone plugs are included also. The dimensions of the case when closed are 16 $\frac{1}{4}$ inches wide by 24 $\frac{3}{4}$ inches high by 14 $\frac{1}{2}$ inches deep. Amplifier is supplied complete with tubes. System is ready to install and operate. For 105 to 125 volts, 60 cycles AC. U/L approved.

2P505—Shpg. Wt. 80 lbs. **88.25**

Complete system as above (2P505) but with Shure Model 55 microphone.

2P527 **124.20**

Complete system as 2P505 but including a three speed phano-top.
2P519 **105.20**

DUAL SPEAKER INDOOR SOUND SYSTEM

It's easy to set up this P.A. system in small dance halls, school auditoriums, churches, gymnasiums, etc. This economy indoor system gives excellent coverage in an area of about 25,000 square feet. Everything is included for immediate installation and operation—even cables and plugs are attached to speakers and microphone for fast, simple assembly.

Complete system includes a high quality 18-watt amplifier (see specifications below); two GE 25 watt, 12 inch PM speakers; two handsome wall baffles; 70 feet of speaker cable (35 feet attached to each speaker); and adjustable telescoping mike floor stand; —everything you need, nothing else to buy. For 105-125 volts, 60 cycles AC. Complete system, including tubes, U/L approved. **94.50**
2P506—Shpg. Wt. 75 lbs.

Complete system as above but with Shure "55" dynamic microphone. **130.45**
2P528.....

Complete system as 2P506 but with 3-speed phano top.

2P529 **111.45**

MASCO MODEL ME-18 AMPLIFIER SPECIFICATIONS

POWER OUTPUT	18 Watts
PEAK POWER	24 Watts
GAIN	Microphone 118DB, Phono 74 DB
CONTROLS	Three—Microphone, phano, tone with on/off switch
INPUTS	Microphone and phanograph
TUBES	1—6S17, 1—6SC7, 2—6L6G, 1—5Y3GT rectifier
OUTPUT	Tapped at 2-4-8-15-500 ohms
POWER CONSUMPTION	93 watts, 117 volts, 60 CPS, AC
HUM LEVEL	56 DB below 18 watts
FREQUENCY RESPONSE	50 to 10,000 cycles \pm 2 DB
DIMENSIONS	12" W x 6 $\frac{3}{8}$ " D x 7 $\frac{3}{4}$ " H

2P470—Masco 18 Watt Amplifier with tubes. **48.90**

Same as above except with 3-speed phanograph top.

2P530 **68.85**

MASCO JMR 2 WAY INTER-COM

A complete two-station intercom system with one master and one remote. Ideal as baby "nurse" or far communication between any two points. Includes 50 feet of 3 conductor cable and complete instructions for easy installation. Plug into light socket, connect the two stations with the cable and it's ready to operate. The master has its own volume control, on-off switch, and press-to-talk switch. Remote station also has a press-to-talk switch for originating its own call and to provide privacy if desired. Units are suitable for use as a two-way paging system. Unbreakable cast aluminum housings finished in walnut hammertone. Size: 6 $\frac{3}{8}$ " D. x 7 $\frac{1}{8}$ " W. x 3 $\frac{1}{4}$ " H. For 110 volts, AC or DC, U/L/ approved. Complete system with tubes and cable. Shpg. Wt. 10 lbs.

2P389 NET. **33.34**

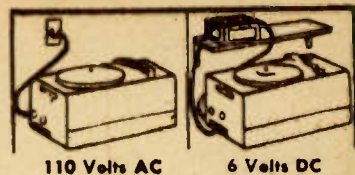
Type JMRW—Same as above, but finished in white.

2P390 NET. **\$35.84**

Additional cable for above systems,

P16134—100 Ft. \$1.91 NET, per ft. **2 $\frac{1}{2}$**





Lafayette 27 WATT MOBILE SOUND SYSTEM

Really two sound systems for the price of one! Plenty of power for any job — either mobile or indoor. Operates from any 6-volt storage battery or regular 110-volt, 60 cycle line at full 27 watts from either supply. Switching from one voltage to the other is automatic — merely change the plugs at the rear of the amplifier; nothing to get out of order and cause a burn out. Equipped with rugged all-weather hermetically sealed projectors and driver units. Universal mountings permit placing projectors on top of sound truck, field tripods, speaker platforms, roofs or towers to carry sound clear and strong to point desired. Speaker lines and microphone cable disconnect readily by means of plugs so that entire system can be carried indoors in a few minutes. Another feature of the heavy duty amplifier is the battery cover switch which allows you to cut off the plate voltage on 6-volt DC operation, thereby saving current during idle periods. The amplifier is equipped with a built-in phonograph motor and turntable for playing standard 78 RPM records.

Complete 27 Watt Mobile System includes amplifier with tubes, for 6-volt DC and 110-volt AC; two 20 inch University PH type projectors with two MA-25 driver units and 35 feet of cable attached to each horn; one Shure Model 505C hand microphone with push-to-talk switch and cable; all needed plugs and connectors, standard phono tap on amplifier. Ready to install and operate.

- 2P507 — Shpg. Wt. 98 lbs..... **166.50**
- Same as above but with 3-speed phono-top.
- 2P508 — Shpg. Wt. 100 lbs..... **168.50**



Some system as above but supplied with the Shure "Mercurus" Model 510C controlled reluctance microphone. Mike suited for tropical countries or coastal areas. Balanced armature transducer achieves high sensitivity and good fidelity. Frequency response 100 to 7000 CPS. Output level down 52.5 db. Metal green finish. With desk stand.

- 2P509..... **158.50**

CAN ALSO BE USED AS INDOOR SYSTEM

Lafayette's 27-watt High Fidelity Mobile Sound system is also ideally suited for indoor use. For outdoor use its useful area of operation is about 45,000 square feet. In fixed installations indoors, its average useful area of operation is 750,000 cubic feet. The list of possible uses would include Hotel Lobbies, Garages, Stores, Restaurants, Auditoriums, Offices, Assembly Plants, Class Rooms, Factories, Ballrooms and Skating Rinks. In addition to regular PA work, civil defense users will find this unit perfect for their needs. When all other sources of power fail, it can be connected to a car battery. The Inverse Feed-Back design in the amplifier circuit greatly reduces distortion and objectionable hum, encountered at very high audio levels. Electronic mixing of all input circuits provides a professional quality to your work by allowing continuous background music when one or both microphones are in use. Volume of microphones and phonograph can be increased or faded independently or together. Brilliant speech reproduction, true musical fidelity, and the economical price combine to make this sound system a hard-to-beat value.

AMPLIFIER SPECIFICATIONS

- POWER OUTPUT: 27 Watts
- PEAK POWER: 38 Watts
- GAIN: Microphone 125 DB, Phonograph 78 DB
- CONTROLS: 2 mikes, phono, tone with on-off switch
- INPUTS: Two mikes and one phono
- TUBES: 1-6SJ7, 2-6SC7, 2-6L6G, 1-5V4G (rectifier)
- OUTPUT: Tapped 2-4-8-15-500 ohms
- POWER CONSUMPTION: 100 Watts, 117 V., 60 cycles AC
- HUM LEVEL: 55 DB below 27 Watts
- FREQUENCY RESPONSE: 50 to 10,000 cycles \pm 2 DB
- DIMENSIONS: 15" x 8" x 8"
- Recessed handles in two color Hammertone finish cabinet.
- 2P473 — Amplifier with single speed phono-top..... **115.89**
- 2P474 — Amplifier with 3-speed phono-top..... **117.89**



MASCO MASTER TO REMOTE 5 STATION SYSTEM

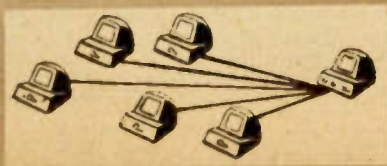
A popular type intercom system for offices, schools, labs, factories, etc., wherever there is need for private inter-office talk between a supervisor and up to 5 subordinates. Master station has press-to-talk switch, station selector, volume control and on/off switch. Remotes have press-to-talk feature to originate calls and insure privacy. Size: 6 7/8" x 7 1/8" x 5 1/4". Shpg. wt. 6 lbs. for master, 4 1/2 lbs. remote. For 110 volts AC/DC. With tubes.

- 2P391 — Type JMS Master Station..... **26.99**
- 2P392 — Type JR — Remote Station, Each..... **NET 9.53**
- 3-Conductor Cable for above Intercom System.....
- P16148 — 100 Ft..... **1.47** Per Ft., **NET.....2c**

MASCO ALL-MASTER INTERCOM SYSTEM

Similar to above system, but with each station a master. For instant communication between any or all masters at any time. Up to six masters possible in one system. All stations have press-to-talk switch, station selector, volume control, on-off switch, Alnico V PM speakers. Size: 6 7/8 x 7 7/8 x 5 1/4" H. For 110 volts, 60 cycles AC U/L Approved. Shpg. wt. 6 lbs. each. Complete with tubes.

- 2P393 — Type IMS Master Station..... **NET, Each 26.99**
- P16093 — 7 Conductor Cable, for up to 6 stations..... **per ft. 10c**
- P16091 — 5 Conductor Cable, for up to 4 stations..... **per ft. 7c**





Lafayette CHALLENGER 30 WATT SOUND SYSTEM

DUAL SPEAKER 30 WATT PORTABLE SYSTEM

This 30-watt system is one of our most popular models — big enough for practically any purpose. Large halls, school gyms, night clubs, auditoriums, churches, civil defense users, etc. will find this system perfectly suited for their needs. The Lafayette Challenger 30-watt amplifier features controls for two microphones, and one phono with facilities for mixing the inputs. Tone control permits adjustment for any degree of acoustic variation. Inverse feed-back for better, smoother response.

Complete Portable System includes the 30 watt amplifier with all tubes; one Shure 710A microphone with shielded cable; one adjustable mike floor stand; two GE 25 watt 12" PM speakers each with 35 feet of cable and plug attached, carrying case as shown. For 110-130 volts, 50/60 cycle AC.

- 2P510 — Shpg. Wt. 80 lbs. **99.95**
- 2P515 114.90
- Same as 2P510 but with Shure "55" dynamic microphone. 135.70
- 2P516 150.65
- Same as 2P516 with single speed phono-tap. 150.65
- 2P531 150.65

30 WATT OUTDOOR SYSTEM

Includes Lafayette's 30-watt Challenger amplifier; two University PH 20" weatherproof reflex trumpets with 2 University MA25 drivers; one Shure 710A microphone with shielded cable; one desk stand; all speaker and microphone plugs and full set of Instructions. With 70 feet of speaker cable (35 feet each speaker).

- 2P512 — Shpg. Wt. 56 lbs **129.75**

Complete system as above with a Shure "55" dynamic mike.

- 2P513 165.50

Complete system as 2P512 but with single speed phono-tap.

- 2P514 146.70

Complete system as 2P513 but with single speed phono-tap.

- 2P532 180.45

DUAL SPEAKER 30-WATT INDOOR SYSTEM

The permanent sound system especially designed for large halls, churches, school gymnasiums, night clubs, auditoriums, plus a variety of installations requiring medium power. The heavy duty amplifier, featuring "push-pull" output, and the Shure 710A semi-directional crystal microphone combine to give performance exceptionally free from hum and distortion. There are two handsome wall baffles designed to yield optimum acoustical response. Two heavy PM 25 watt 12" GE speakers are supplied with 35 feet of cable attached to each speaker. A terminal strip and socket make speaker connection fast and easy. A microphone floor stand, adjustable from 35 to 62 inches, is also included. If desired, the amplifier can be supplied with a phono-tap.

Complete 30-Watt Indoor System includes the amplifier with all tubes; two GE 12" PM 25 watt speakers; Shure Model 710A crystal microphone with length of shielded cable; two handsome wall type baffles; 70 feet of speaker cable attached (35 ft. to each speaker); all plugs, hardware. Ready to install and operate.

- 2P511 — Shpg. Wt. 78 lbs. **98.50**
- Same as above but with Shure "55" dynamic microphone. 134.25
- 2P517 134.25
- Same as 2P511 plus a single speed phono-tap. 113.45
- 2P518 113.45

AMPLIFIER SPECIFICATIONS

OUTPUT.....	30 Watts
RESPONSE.....	30-12,000 CPS ± 2 DB
GAIN.....	2; 118 DB; phono; 85 DB
OUTPUT IMPEDANCES.....	4, 8, 15 ohms, 70 volts
THREE INPUTS.....	2 microphones, 1 phono
TUBES.....	2-65C7, 6SL7GT, 2-6L6G, 5U4G
DIMENSIONS.....	15" W., 10" D., 8" H. (Less phono)
	15" W., 10" D., 10" H. (with phono)
Features extractor type fuse, malded sockets and recessed handles.	
2P443 — Complete 30 watt amplifier with tubes.....	56.92
Complete amplifier with tubes and single-speed phono-tap.	
2P468	71.31



SYSTEM 1 — One master and up to 5 remote stations. Master can call all remotes simultaneously. (Requires 3-conductor cable.)

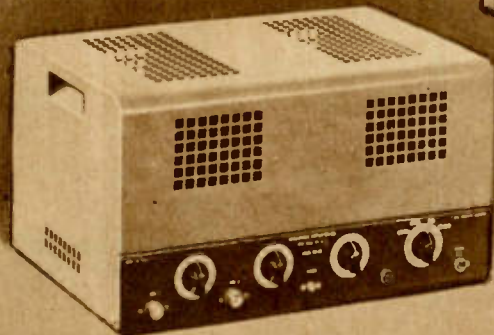


SYSTEM 2 — All Master System. Maximum of 6 masters, if each must talk with every other master. Otherwise, more than 6 may be used.

CHALLENGER INTERCOM SYSTEM

The Challenger "600" master station will operate in a system using a single master and up to five remote stations, or in an all master system of six stations. When used in a single master — multiple remote installations, the "Mute" position silences the background noise at the remote stations, yet the remote can still initiate a call to the master. The "ALL" position permits a master station in either type system to call all other stations simultaneously. The "600" Master station is housed in a sturdy polystyrene cabinet, 6 x 6 1/2 x 7" D. Has press-to-talk switch, 7 position selector switch and volume control, on/off. The "60R" remote station has a matching cabinet and is equipped with an Initiating call bar. During conversation with the master, the remote does not operate any control. Master station complete with tubes, operates on 117 volts AC/DC Underwriter's Laboratories approved. Shpg. wt. 600, 6 lbs.; 60R 3 lbs.

- 2P383 — 600 Master Station, Each..... **NET 22.96**
- 2P384 — 60R Remote Station, Each..... **NET 7.60**
- P16055 — System 1, 3 Cond. Cable. 100 Ft. 4.06; Per Ft. 4 1/2
- P16056 — System 2, 7 Cond. Cable. 100 Ft. 7.35; Per Ft. 8c



Lafayette CHALLENGER DELUXE 60 WATT

OUTDOOR SOUND SYSTEM

Here is a high powered sound system with outstanding fine quality features to take care of every type of outdoor application; in ball parks, skating rinks, large auditoriums, carnivals and in armories. Delivers tremendous power without distortion or loss of tonal clarity. In addition, four 20-inch University type PH re-entrant reflex projectors, and 25 watt driver units step up the efficiency of this system to such an extent as to make it equivalent to fully 90 watts in other systems. With these non-resonant, storm-proof loudspeakers, sound can be directed over long distances in the open. All vital parts are hermetically sealed for absolute protection against weather and to minimize ageing. The horns are supplied with universal brackets to permit mounting on roofs, light towers, etc. The high gain amplifier has three inputs: two microphone channels and one phanograph channel. All these channels may be electronically mixed. Outstanding performance at maximum efficiency. Neutral green steel case with silver control panel. Far 110-117 volts, 60 cycles AC.

Complete 60-watt system includes amplifier with tubes, four 25 watt driver units, four weather-proof University PH projectors, with four MA-25 drivers, one Shure Model 710A crystal microphone with seven feet of shielded cable, adjustable microphone floor stand and all plugs and hardware. With 140 feet of speaker cable (35 feet for each speaker). Entire system is shipped ready to install and to operate. Amplifier is supplied with all tubes. Shipping weight 150 lbs.

2P520 **234.75**

Same system as above, but with Shure Model "55" uni-directional moving coil microphone.

2P522 **279.50**



The baffles illustrated at left are included with the 60-watt indoor system described on this page.

INDOOR SOUND SYSTEM

The same high power system as described at left is available in a specially designed indoor unit. Substituted for the projector horns are four General Electric Alnico V, heavy duty, 12 inch PM 25 watt speakers and four handsomely finished wall baffles. The use of four 25-watt speakers in this arrangement prevents voice coil burn-out and subsequent costly repairs. The wall baffles are proportioned to yield fine acoustical quality over a "long-shot" distance. Solidly constructed, they are built to give years of trouble free use. The amplifier features constant voltage output for ease of speaker matching, extractor type fuse, two oil-filled high voltage filter capacitors, recessed carrying handles, and inverse-feedback design for better response.

Complete system includes the 60-watt amplifier with tubes; one Shure Model 710A crystal microphone with seven feet of cable and plug; adjustable microphone floor stand; 140 feet of speaker cable (35 feet attached to each speaker) and four wall baffles. Unit is complete with all connectors ready to install and operate.

2P251 - Shpg. Wt. 150 lbs. **157.25**

Same system as described above (2P251), but with Shure Model 55, uni-directional, moving coil, dynamic microphone. **192.85**

2P522 **192.85**

SPECIFICATIONS—60 WATT AMPLIFIER

OUTPUT.....	60 watts normal output
GAIN & INPUTS.....	Mikes 120 db, Phana 85 db
FREQUENCY RANGE.....	± 2 db, 30-12,000 cps
OUTPUT IMPEDANCE.....	4, 8, 15 ohms-70 and 140 v.
tone control.....	"Selectane" Frequency Range Selector
TUBES USED.....	2-6SF5, 1-6SL7GT, 2-807, 1-6V6GT plus 1-5Y3GT and 1-5R4GY rectifiers
HUM AND NOISE LEVEL.....	.62 db below 60 watts
LINE DRAIN.....	220 watts at 117 v., 60 cycle AC
DIMENSIONS.....	17" wide, 11½" deep, 9¼" high
Lafayette 60 Watt Amplifier complete and with tubes. 91.69	
2P162 - Shpg. Wt. 60 lbs.	

MASCO 5-WATT MUSICAL AMPLIFIER

This modern, complete musical instrument amplifier, in lightweight portable case, is ideally suited for musicians, lecturers, singers, barkers, auctioneers, etc. High quality amplifier and large, heavy duty 8 inch speaker insures excellent tone and reproduction. Three channel input permits mixing of voice with music. Conveniently located control panels atop attractive two-tone brown and tan fabricaid-covered hardwood carrying case. Extremely low hum level assures quiet operation. Will accommodate any standard musical instrument, pick-up or microphone. U/I approved. Complete with tubes. Far 117 volt, 60 cycle AC operation.

2P467 - Shpg. Wt. 15 lbs. **NET 39.69**

5-WATT AMPLIFIER SPECIFICATIONS

POWER OUTPUT.....	5 watts at less than 5% harmonic distortion
INPUTS.....	Two—for mike or instrument pickup
FREQUENCY RESPONSE.....	± 2 db 100 to 8000 CPS
POWER GAIN.....	105 db
TUBES.....	6SL7GT, 6V6GT, 6X5GT (Rectifier)
HUM LEVEL.....	.60 db below output level of 5 watts
POWER CONSUMPTION.....	30 watts at 117 volts, 60 CPS
DIMENSIONS.....	11¾" x 8½" x 13" high



UNIVERSITY PROJECTORS, DRIVERS, SPEAKERS

UNIVERSITY REFLEX PROJECTORS



High efficiency exponential air column type projectors. Heavy-gauge all spun metal horns with corrosion resistant finish. Conversion efficiencies to 50%. Will handle 30 watts output. Supplied with universal "U" type mounting bracket. Battleship grey finish, waterproofed. Less drivers.

Model	Dia.	Length	Cutoff	Disp. Angle	Lbs.	Each
PH	20 1/2"	15 3/4"	150 cps	85°	10	17.05
LH	20 1/2"	19"	120 cps	75°	15	26.17
SMH	16 1/2"	12"	200 cps	95°	6	14.41
GH	30 1/4"	27 1/4"	85 cps	65°	22	35.28

UNIVERSITY PAGING SPEAKERS



Intercommunicator "booster" speaker has high projecting power. Clear sound output overcomes factory noises. Use as "Talk Back" speakers in intercom systems. High sensitivity permits initiating or answering calls at a distance. Though capable of producing adequate volume with low power, these speakers can handle more power than any other speaker of comparable size and weight. Supplied with adjustable mounting bracket.

Model	Watts	Ohms	Freq. cps	Lbs.	Each
MIL-8	3	8	400-9,000	5	14.70
MIL-45	3	45	400-9,000	5	15.43
189	12	8	300-10,000	7	19.11
CR	18	16	250-6,000	11	24.70

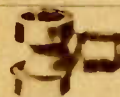
CAR-TOP HORN CARRIER



For all horn type speakers and baffles used in mobile PA work. Waterproof plywood and angle iron construction. Four suction cups and gutter hooks with adjustable straps included. Size: 8" wide x 46 1/2" long. Easily and quickly attached or removed. Will not mar car finish.

P20028-Shpg. wt. 8 lbs. **5.67**

UNIVERSITY MODEL 2YC CONNECTOR



Used with two driver units to provide up to 60 watts for any trumpet or projector. University Model 2YC-Shpg. wt. 3 lbs. **5.88**

JENSEN SPEAKERS

STANDARD PM TYPES

Moderately priced, exceptionally good in performance, and highly recommended for replacement use in radio and television receivers, recorders, public address equipment, intercommunication systems and similar applications. Highly efficient Alnico V magnets insure maximum gap energy and speaker life. Cones selected for uniformity of response. All models completely dust-proof. Supplied less output transformers (see listing of output transformers below).

Model	Jensen No.	Size	Watts	V.C. Ohms	Each
P4-X	ST-113	4"	2	3-4	2.94
P5-X	ST-740	5"	2 1/2	45-50	3.26
P5-X	ST-105	5"	2 1/2	3-4	3.12
P6-W	ST-109	6"	3 1/2	3-4	3.76
P8-U	ST-116	8"	6	3-4	6.00
P8-V	ST-115	8"	5	3-4	5.12
P8-ST	ST-104	8"	8	6-8	8.06
P69-T	ST-811	6x9"	7 1/2	3-4	6.97
P10-T	ST-119	10"	8	6-8	7.50
P12-T	ST-101	12"	9	6-8	8.53

† Extra heavy magnet.

JENSEN UNIVERSAL OUTPUT TRANSFORMERS



Designed for coupling speakers to different impedance requirements of various amplifier output tubes. Universal tube transformers match V.C. to 4500, 7000, 10,000 and 14,000 ohms. Universal line transformers match V.C. to 500, 1000, 1500 and 2000 ohm lines. Moisture protected by heavy wax impregnation. May be mounted directly on speaker.

Jensen No.	Application	Watts	Terminals	Sec. Ohms	Each
ZX-1007*	Univ. Tube	25	Pin Tip	6-8	6.88
ZY-2005	Univ. Line	25	Pin Tip	6-8	6.88
ZX-1005*	Univ. Tube	16	Pin Tip	6-8	5.08
ZY-2003	Univ. Line	16	Pin Tip	6-8	5.08
ZX-1002*	Univ. Tube	10	Pin Tip	6-8	3.53
ZY-2002	Univ. Line	10	Pin Tip	6-8	3.53
ZP-1024*	Univ. Tube	6 1/2	Solder Lug	3-4	1.76
ZL-2021	Univ. Line	6 1/2	Solder Lug	3-4	1.52
ZY-4002	Univ. Line	3 1/2	Pin Tip	3-4	2.37
ZP-1023	Univ. Tube	3 1/2	Solder Lug	3-4	1.52

*All primary windings center-tapped.

JENSEN VOLUME LEVEL CONTROLS



Model ST-276-6.8 ohms, 5 watt **1.47**
 Model ST-760-3.4 ohms, 5 watt **1.62**
 Model ST-411-8 ohms, 15 watt **1.94**

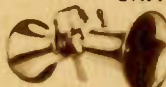
UNIVERSITY DRIVER UNITS

Phenolic diaphragm; Alnico magnet. Hermetically sealed. MA-25 recommended for single speaker systems. 4 1/2" D. x 3 3/4" H. SA-HF effective in locations where noise level is high. 4 1/2" D. x 4 3/4" H. PA-30 has built-in line matching transformer. 165, 250, 500, 1000, 2000-ohm terminals. Constant voltage taps 30, 20, 10, 5, 2 1/2 W permit 3 db changes with each step. PA-30 maintains high varying intensity levels over long periods for broadcasting chime music from church steeples. 6 3/4" D. x 6 3/4" H. SA-30 is heavy duty general utility driver unit with built-in transformer. Same impedances as PA-30 plus 45 ohms.



Model	Range cps	Watts	Ohms	Lbs.	Each
MA-25	90-6,000	25	16	4	14.70
SA-HF	90-10,000	25	16	6	21.76
PA-30	80-10,000	30	16	6	29.40
SA-30	90-10,000	30	16	10	26.46

UNIVERSITY WIDE ANGLE SPEAKERS



COBRA-12 concentrates power in horizontal plane. 2W-25 covers two areas effectively with a single driver unit. Sizes: COBRA-12, 14 1/4" long, 20"x9" mouth; 2W-25, 20 1/4" long, 8" dia. mouth. Weight, 9 lbs. each type.



Model	Watts	Ohms	Dispersion	Freq. cps	Each
COBRA-12	12	8	120°x60°	250-10,000	26.46
2W-25	25	16	120° ea. horn	350-6,000	28.22

UNIVERSITY LINE MATCHING TRANSFORMER MODEL CTR-20

Designed for use with University speakers in indoor or outdoor installations. Assures perfect performance throughout the range of the speakers with which they are used. Housed in water-tight enclosure with die cast mounting bracket which acts as combined support for both the transformer and speaker. Easily mounted on any trumpet or screwed to any surface. Primary impedances: 45-500-1000-1500-2000 ohms. Secondary impedances: 4-8-16 ohms. 25 Watts. Shpg. wt. 4 lbs. University Model CTR-20 **8.82**



UNIVERSITY MODEL PMA ADAPTOR

For mounting any University "U" bracket speaker on standard 1/2" pipe. Shpg. wt. 3 lbs. University Model PMA **88¢**



GENERAL ELECTRIC SPEAKERS

GE MODEL S1203D

Popular 25-watt 12 inch P.M. speaker used in Lafayette public address systems. Highest efficiency insured by powerful 9 oz. Alnico V magnet which incorporates the latest engineering developments in scientific tone reproduction. Recommended for use with public address systems and for replacement in home radios. Aluminum foil base voice coils, molded cones. Metal base construction provides for greater heat dissipation, which results in higher wattage handling capacity. Has universal transformer mounting brackets. All parts treated against corrosion. Plated finish. Lusteron treated. 8 ohm V.C. GE Model S1203D-Shpg. wt. 8 lbs. **13.94**



GE PUBLIC ADDRESS SPEAKERS

Aluminum base voice coils provide high wattage output and will not warp. Molded cones assure high fidelity and brilliant frequency response. Plated finish protected by new Lusteron treatment. Assembled with universal transformer mounting brackets. All have 8-ohm Voice Coil, Alnico V magnets.

Model	Dia.	Alnico V	Watts	Wt., lbs.	Each
S1218D	12"	6.8 oz.	12	7	11.50
S1203D	12"	9 oz.	25	8	13.88
S1210D	12"	14.5 oz.	25	9	19.95

GE REPLACEMENT SPEAKERS

Alnico V magnets, aluminum foil base voice coils, molded cones, universal transformer mounting brackets. 3.2 ohm voice coils.

Model	Dia.	Watts	Magnet Oz.	Each
S400D	4"	4	1.3	2.88
S525D	5 1/2"	4	1.3	3.20
S625D	6 1/2"	4	1.3	3.73
S650D	6 1/2"	4	2.98	4.55
S703D	8"	8	1.47	5.09
S800D	8"	8	2.98	6.06
S1000D	10"	12	6.8	10.42
S1200D	12"	12	6.8	11.17

AUTONE AUXILIARY SPEAKER



Large 6" PM Speaker mounts in shelf behind rear automobile seat, enabling passengers to enjoy clear reception without distracting driver. 3-way control switch mounts on dash, permitting operation of front and rear speakers separately or together. May also be used with home receivers. Wire, escutcheon plate and grille included. P19106-Shpg. wt. 3 lbs. **5.88**



SPEAKERS — Baffles — Accessories



LAFAYETTE PM SPEAKERS

High quality permanent magnet speakers. High permeability Alnico V magnets used for utmost efficiency. One-piece cones, plated metal frames. Voice coils for all sizes, 3-4 ohms. All supplied less output transformer.

Stock No.	Dia.	Nor. Watts	Peak Watts	Wt. Lbs.	Each
P18000	2 1/2"	2	4	1	1.48
P18001	3"	2	4	2	1.59
P18002	4"	2	4	2	1.79
P18003	4x6"	2	4	2	2.25
P18004	5"	3	5	3	1.79
P18005	6"	5	7	3	2.21
P18006	6x9"	5	7	3	3.44
P18007	8"	7	9	4	3.18
P18008	10"	9	11	6	4.50
P18009	12"	10	12	7	5.67

LAFAYETTE FIELD COIL SPEAKERS

Ideal for general replacement in AC-DC radios, amplifiers and inter-communication systems. Frequency response from 100 to 4500 cps, when properly baffled. Molded one-piece cones, 3.2 ohms V.C. 16V Auto

Stock No.	Dia.	Ohms	Max. Watts	Wt. Lbs.	Each
P18015	3"	450	2.5	3	2.16
P18016	4"	450	3	3	2.39
P18017	5"	6 Volt	3	3	2.49
P18018	5"	450	3.5	3	2.49
P18019	5"	3000	3.5	3	2.49
P18020	5"	1800	3.5	3	2.49
P18021	6"	6 Volt	5	4	2.92
P18022	6"	1000	5	4	2.92
P18023	6"	1800	5	4	2.92
P18024	8"	1000	7	6	3.63
P18025	8"	1800	7	6	3.63
P18026	8"	2500	7	6	3.63
P18027	10"	1000	10	7	5.67
P18028	12"	1000	12	9	6.84

QUAM ALNICO PM SPEAKERS

Alnico V magnet provides maximum performance with minimum weight. High conversion factor. 3.2 ohm V.C. Less Trans. 3 1/2", 4", 5 1/4" in square frame.

Quam No.	Dia.	Max. Watts	Magnet Oz.	Depth	Shpg. Wt.	Each
3A07	3 1/2"	2.5	.68	1 1/8"	1/2 lbs.	2.35
4A1	4"	3.0	1.0	2 3/8"	3/4 lbs.	2.50
4A07	4"	3.75	.68	2 1/2"	3/4 lbs.	2.35
46A07	4x6"	3.5	.68	1 1/2"	1 lbs.	2.62
5A1	5"	4.5	1.0	2 3/8"	1 lbs.	2.62
5A07	5"	4.0	.68	2 3/8"	1 lbs.	2.47
52A1	5 1/4"	6.0	1.0	2 3/8"	1 1/4 lbs.	2.73
6A1	6"	6.0	1.0	2 3/8"	1 1/4 lbs.	2.82
69A2	6x9"	8.0	1.4	2 1/2"	1 1/2 lbs.	4.41
6A15	6 1/4"	5.0	1.47	2 1/2"	1 lbs.	3.09
7A21	7 1/2"	6.0	2.15	2 3/8"	1 lbs.	4.26
8A21	8"	8.0	2.15	3 1/8"	2 lbs.	4.23
12A31	12"	10.0	3.2	4 1/8"	3 3/4 lbs.	6.67

QUAM TELEVISION SPEAKERS

Field coil speakers for TV replacement. 3-4 ohm voice coil.

Quam No.	Dia.	Max. Watts	Field Ohms	Shpg. Wt.	Each
5E62	5"	3.5	62	1 1/2 lbs.	2.70
5E95	5"	3.5	95	1 1/2 lbs.	2.70
46E62	4x6"	3.5	62	1 1/2 lbs.	3.12
46E95	4x6"	3.5	95	1 1/2 lbs.	3.12
6E62	6 1/2"	5	62	1 3/4 lbs.	3.18
6E95	6 1/2"	5	95	1 3/4 lbs.	3.18

FABRICATED Baffles

Sturdily built of selected wood. Brown leatherette covered. Shpg. wt. 6 lbs.

Stock No.	Speaker	H. W. D.	Each
P20060	6"	8 1/2 x 7 1/2 x 4 3/4"	1.89
P20042	8"	10 1/2 x 9 x 6 1/4"	2.45
P20055	10"	14 x 12 x 8 1/2"	3.15
P20056	12"	15 x 14 x 10"	3.65

CARRYING CASES

Amplifier, 12" Speakers—Holds two 12" speakers plus amplifier. Amplifier bolts to panel—slides in or out of case quickly. Holds any amplifier to 14x14x11". Firm corner construction with metal shields. 4 snap locks. Made of 3/8" thick plywood covered with Tan simulated rawhide. Size: 16 1/2" W. x 24 1/2" H. x 14 1/4" D. P22056—Shpg. wt. 24 lbs. **11.95**

Amplifier, 8" Speaker—Holds both amplifier and an 8" speaker at the same time. Heavy plywood construction with handsome tan simulated rawhide covering and carrying handle. Firm double-protection corner construction. 4 sturdy snap locks. Size: 13x10 1/2 x 17". P22053—Shpg. wt. 10 lbs. **6.50**

Amplifier, 8" Speakers—Same as above except for amplifier and two 8" speakers. 13x10 1/2 x 17". P22054—Shpg. wt. 10 lbs. **7.50**

BEST 25 WATT 12" SPEAKER CAPACITY-50 TO 10,000 CPS BUY-YET!!!



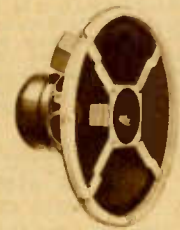
PM.

9 OZ. ALNICO V MAGNET

Here's an excellent fidelity, powerful 12" PM speaker that is by far the best buy available for any comparable speaker with the same performance capabilities. Highly recommended for replacement use or original installation in top quality radio-phonograph installations. Ideal for PA use. Handles 25 watts of power without distortion or significant loss of bass or treble frequencies. Uniform response assured over the range from 50 to 10,000 cps. Alnico V magnet alone weighs 9 ounces. Precision formed aluminum base voice coil. Voice coil impedance, 8 ohms. Perfectly aligned coil and molded cone construction. Precision engineering of parts built into this speaker for years of trouble-free service. This is one of the outstanding values we have ever offered. Shpg. wt. 8 lbs. P19299—

25 Watt, 12" PM Speaker..... **6.95**

SUPER-SPECIAL 12-INCH HI-FI COAXIAL SPEAKER



We've never had a hi-fi speaker buy to compare with this one! A genuinely high-quality 12-inch coaxial PM speaker with frequency range from 50 to 15,000 cps, full 10 watts output, plus built-in high pass filter—for less than \$15.00! 12" woofer has 32 oz. Alnico V magnet, 3.2 ohm VC impedance. Combination of woofer and tweeter operates from 8 ohm source. Requires no special controls. Durable, sturdy frame. Order yours while we can still supply! P19298—

Shpg. wt. 8 lbs. Quantities Limited..... **14.95**

10-WATT P.A. SPEAKER

Here's a real buy in a 12-inch heavy duty PM speaker for P.A. or other work where you need a speaker that can take it! Heavy 6.8 ohm Alnico magnet with 8 ohm voice coil. Sturdy cadmium plated frame and heavy duty cone. Frequency response to above 10,000 cps. Shpg. wt. 6 lbs. P19296—SPECIAL, NET..... **5.95**

12-INCH REPLACEMENT SPEAKER



Quantities limited on this fine 12-inch replacement speaker. Order yours now while we can still supply at this dollar saving deep cut price. 4.7 ohm Alnico V magnet, 3-4 ohm voice coil. Ideal for perking up old and new sets with "tired" drivers and dried out cones. Shpg. wt. 6 lbs. P19297—SPECIAL, NET..... **5.45**

SPEAKER ACCESSORY ITEMS

WALSCO ORNAMENTAL GRILLE



Heavy perforated grille, beautifully "brushed brass" plated and lacquered with gold finish effect. For use over cloth or screening in custom built radios, P.A. Speakers and juke boxes. P19493—Size 12" x 18"..... **1.76**
P19494—Size 18" x 24"..... **3.23**

SPEAKER SHIMS

Non-magnetic Monel shims, 4 each .004", .006", .008", .010" shims. In plastic case with pencil clip. P19649— **39¢**



FLOCKED GRILLE SCREENING

Protective grille for radio, intercom, etc. Won't tear, fray. P19487—8x11", Brown..... **56¢**
P19489—16x24", Brown..... **1.88**

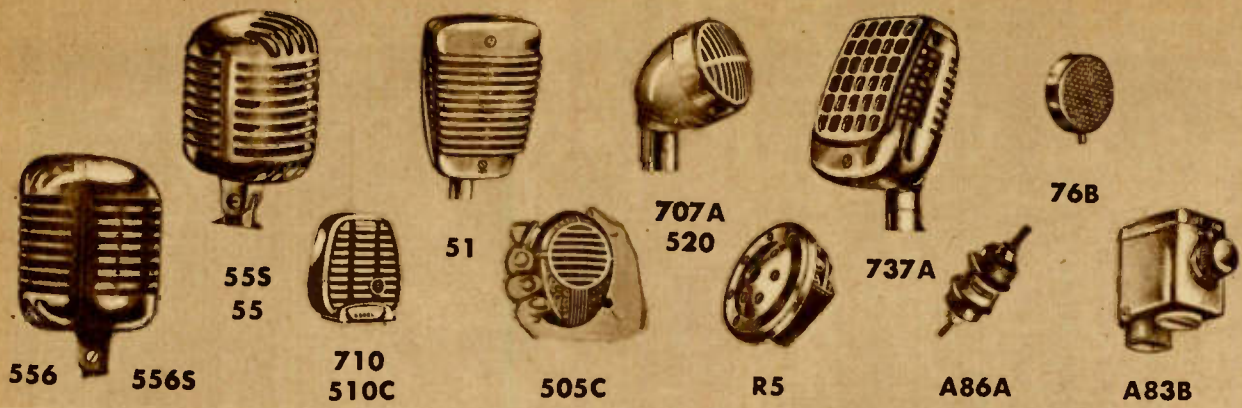
RADIO SERVICE CEMENT

For cementing replacement cones and repairing torn cones. Vibration-proof, waterproof, fast-drying. P15314—2 oz. bottle, brush attached to cap. **39¢**
Each
P15315—4 oz. bottle..... **65¢**
P15316—8 oz. bottle..... **1.15**
P15317—1 pt. bottle..... **2.15**

WALNUT WALL Baffles



Beautifully polished walnut baffle for De Luxe sound systems. Frize grille cloth. P21325—6-inch..... **2.35**
P21326—8-inch..... **2.79**
P21327—10-inch..... **3.30**
P20051—12-inch..... **4.85**



SHURE MICROPHONES & ACCESSORIES

NEW "SMALL UNIDYNES"

MODEL 555—Completely new, small sized unidirectional moving coil dynamic mikes. Designed for high overall efficiency and extended peak-free frequency response. Rugged coil construction protects system against atmospheric conditions and mechanical shock. Recommended for fixed station use in Police, Fire and Transportation services. These units reduce reflection and reverberation and permit the performer to stand at a considerable distance from the mike. Smooth 40-15,000 cps response at front, dead at rear. Impedances: 35-50 ohms; 150-250 ohms; and high ohms. Multi-impedance selector switch included. Output level — 40.5 db at high impedance. Supplied with 20-ft. cable and plug assembly. Standard $\frac{3}{8}$ "-27 thread. Size: $\frac{3}{16}$ " H., $2\frac{3}{16}$ " W., $\frac{3}{16}$ " D. Shpg. wt. $\frac{3}{4}$ lbs.
Shure Model 555.....NET **42.63**

MODEL 556S—Same appearance and general characteristics as 555 except designed for studio broadcasting and TV use, and similar applications requiring top quality performance. This model also features a Cannon connector and a specially designed shock insulation unit. 20-ft. cable and plug assembly included. Shpg. wt. $\frac{4}{2}$ lbs.
Shure Model 556S.....NET **58.80**

STANDARD UNIDYNES

MODEL 55—Standard size, super-cardioid dynamic mike for general purpose use. Technical data similar to Model 55S. Output level at high impedance — 57.5 db. Has built-in connector and 20-ft. cable and plug. Size: $\frac{4}{4}$ " H., $\frac{3}{4}$ " W., $\frac{3}{2}$ " D. Shpg. wt. $\frac{5}{2}$ lbs.
Shure Model 55.....NET **42.63**

MODEL 556—For broadcasting use. Features internally isolated cartridge and external vibration absorbing unit. Otherwise similar to Model 55. Shpg. wt. 5 lbs.
Shure Model 556—List \$100.00.....NET **58.80**

MODEL 51 "SONODYNE" DYNAMIC
Rugged, pressure-type unit with wide-range frequency response and semi-directional pickup. Features multi-impedance switch for low (35-50 ohms), medium (150-250 ohms) or high impedance. Moving coil element in magnetic field principle. Has built-in receptacle and a two-conductor shielded cable with microphone plug attached. Response 60-10,000 cps. Output level — 52 db at high impedance. Supplied with 15-ft. cable and plug. Satin chrome case. Shpg. wt. $\frac{3}{2}$ lbs.
Shure Model 51—List \$45.00.....NET **26.46**

MODEL 710A "REX" CRYSTAL MIKES
Ideal for hams, low-cost P.A. systems, and as a replacement for home recording microphones. Designed for high speech intelligibility. Hand-held, needs no desk stand. Has a broad base that fits firmly on table without tipping. Frequency response 60-9000 cps. High impedance. Output level — 50 db. Supplied with 5-ft. shielded cable. Die-cast case in burgundy-red metallic finish. With stand adapter. Size: $2\frac{3}{4}$ " W., $\frac{3}{4}$ " H., $\frac{1}{8}$ " thick. Shpg. wt. $\frac{1}{2}$ lbs.
List \$10.95.
Shure Model 710A.....NET **6.34**
Model 710S—Same as above with switch.....7.61

MODEL 510C "HERCULES" CONTROLLED RELUCTANCE MIKES
Appearance same as 710A, but magnetic type. For rugged, general purpose use especially where humidity is a problem. Response 100-7000 cps. Output level — 52.5 db. High impedance obtained without a transformer. With 5-ft. shielded cable. Green metallic finish.
Shure Model 510C—List \$15.00.....NET **8.82**
Model 510S—
Same as above with switch.....NET **10.00**

MODEL 707A CRYSTAL MICROPHONE
Ideal for low-cost P.A. systems, call systems, amateur phone transmitters and similar applications. Good response characteristics, free from peaks. Semi-directional pickup. Moisture-proof Bimorph crystal. High impedance. Output — 51 db. Heavy die-cast, pearl gray case with satin chrome finish on front grille. $\frac{3}{8}$ "-27 thread. $2\frac{3}{4}$ " diameter. Supplied with 7-ft. cable. Shpg. wt. $2\frac{1}{2}$ lbs.
Shure Model 707A—List \$15.50.....NET **9.11**

MODEL 520 "GREEN BULLET" CONTROLLED RELUCTANCE MIKE
Same appearance as 707A, but magnetic type. Practically immune to high temperatures and humidity. High output (-52 db), 100-7000 cps response and high impedance without need of transformer. Green finish, plated grille. With 7-ft. cable. List \$17.50.
Shure Model 520.....NET **10.29**

MODEL 505C "RANGER" CONTROLLED RELUCTANCE MIKE
Especially recommended where long lines are used and a rugged hand-held mike is needed. Designed for high speech intelligibility. High impedance; output level — 50.5 db. Has heavy duty SPDT leaf type switch for push-to-talk operation. Frequency response 100 to 9000 cps. Supplied with 5-ft. three-conductor shielded cable. Ideal for outdoor P.A., mobile communications, hams, and audience participation shows. Shpg. wt. $\frac{1}{2}$ lbs.
Shure Model 505C—List \$27.50.....NET **16.17**

MODEL 737A "MONOPLEX" CRYSTAL MIKE
High output, unidirectional, super-cardioid crystal mike with 14 to 1 front-to-rear pickup ratio. Reduce pickup random sound by 73%. Uses same type of phase-shifting network as Shure broadcast mikes. Operates under adverse conditions of background noise and reverberation where a conventional mike would be practically useless. High impedance; — 54 db output. Case pivots at rear and can be pointed toward desired sound. Has built-in cable connector and 15-ft. shielded cable. $\frac{5}{8}$ "-27 thread. Satin chrome finish. Size: 4" H., $3\frac{3}{4}$ " W., $1\frac{1}{4}$ " thick. Shpg. wt. $2\frac{1}{2}$ lbs.
Shure Model 737A—List \$39.75.....NET **23.37**

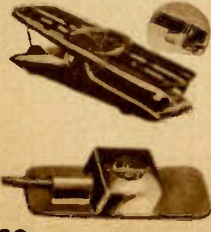
MODEL 76B LAPEL MICROPHONE
Designed for P.A. lecturing, portable transmitters and other general uses requiring intelligible reproduction of speech. Pressure-actuated diaphragm type crystal mike with moisture-sealed Bimorph crystal. Response 40-6000 cps. Accentuated high frequency response. Output level — 57 db. Only $1\frac{1}{4}$ " diameter and $\frac{1}{2}$ ounces net weight. Equipped with lapel clip and 20-ft. shielded single conductor cable.
Shure Model 76B—List \$27.00.....NET **15.88**
Gray finish. Shpg. wt. 1 lb.

MODEL R5 CONTROLLED RELUCTANCE REPLACEMENT CARTRIDGE
Available for service installation and replacement of crystal mike cartridges in Shure cases of Model 707A. Also replaces cartridges in cases of other manufacturers' models of similar design where space permits. Acoustically controlled, balanced armature transducer unaffected by heat and humidity. Supplied with rubber mounting ring, $2\frac{1}{4}$ " overall diameter; $\frac{3}{16}$ " thick. Depth of cartridge $\frac{7}{8}$ ". Shpg. wt. 4 oz.
Shure Model R5—List \$10.00.....NET **5.88**

MODEL A83B ON-OFF MIKE SWITCH
Rotary type ON-OFF switch. Quickly attached to any cable-connector type Shure microphone. Durable, dependable; no soldering necessary. Internal plug establishes connections. Bakelite arrow knob. Shpg. wt. 1 lb.
Shure Model A83B—List \$6.50.....NET **3.82**

MODEL A86A CABLE TYPE TRANSFORMER
Solves the problem of installations requiring long lengths of microphone cables without loss of high frequency response. Offers additional versatility when used in conjunction with Models 55, 55S, 556, 556S and 51 dynamic mikes which use an impedance matching switch. Matches 35-50, 150-250 ohm mikes to high impedance amplifier input. $1\frac{1}{2}$ " diameter; $2\frac{1}{4}$ " L. With 2-ft. cable. Shpg. wt. $\frac{1}{2}$ lbs.
Shure Model A86A—List \$16.00.....NET **9.41**

AMPERITE KONTAK MICROPHONES



Faithfully reproduce the vibrations of any musical instrument. Moisture-proof rubber case. Frequency response 40-9000 cps. Easily attached without tools. Operate with high or low gain amplifiers. Output — 40 db. Size: $\frac{1}{4}$ "x $\frac{3}{4}$ "x $\frac{1}{2}$ ". Supplied with 15-ft. cable. Shpg. wt. 2 lbs. List \$12.00.
P13675—Amperite Model SKH. High Impedance.....NET **7.06**
P13690—Amperite Model KKH. Same as above, but with built-in volume control. List \$18.00.....NET **10.58**
MODEL KF. Foot control for above mikes. With 15-ft. cable. Shpg. wt. 4 lbs. List \$18.00.
P13663—Amperite Model KF.....NET **10.58**
P13687—Strap for flat top guitars.....59¢

LAFAYETTE CONTACT MIKES

High impedance pickup for use with any musical instrument. Easily installed without special strings or changes. Enclosed in soft, non-marring material. With 8-ft. cable. Shpg. wt. 4 lbs. List \$13.23.
P13746—Less volume control.....NET **5.95**
P13745—With volume control. List \$16.74.....NET **7.35**



ASTATIC MICROPHONES

NEW ASTATIC MODEL DK-1 CRYSTAL MICROPHONE

Non-directional, high impedance unit for studio and P.A. Features reduced size and design which allows unobstructed, least distracting view of performer. Excellent frequency range, with rising characteristics between 2000 and 5000 cps. Output level - 55 db. Crystal element has moisture-proof coating. Brushed chrome finish. Overall height 5 1/4". Supplied with 10-ft. rubber covered, shielded single conductor cable. Shpg. wt. 2 lbs.
Astatic Model DK-1—List \$22.00. **NET 12.94**
Model DK-1-S—As above with OFF-ON switch **NET 14.52**

ASTATIC MODEL T-3 CRYSTAL MICROPHONE

For studio setups, amateur rigs, intercom systems, P.A. Installations and high quality recording. Mike head may be tilted with ease and pickup pattern made semi- or non-directional. Output level - 52 db. Frequency response uniform from 30-10,000 cps. Equipped with interchangeable plug and socket connector and 15-ft. cable. All chrome finish. Grille diameter 2 1/4"; depth 3". Overall height 6 1/4".
Astatic Model T-3—List \$27.35. **NET 16.08**
Model GT-3. Same as above except with Grip-To-Talk desk stand. Height 11 1/4". Shpg. wt. 5 lbs.
Astatic Model GT-3—List \$40.40 **NET 23.76**

ASTATIC MODEL DN DYNAMIC MIKES

All-purpose, semi-directional. Tilting-head, swivel mount permits semi- or non-directional positions. Carefully proportioned acoustic circuit highly damps the natural resonance of the moving system to provide a response characteristic substantially flat from 50 to 70,000 cps. Output level approximately - 55 db. Model DN-MZ is high impedance type. Overall height, 6 1/4"; depth 4 1/2". Opalescent grey and bright chrome finish. With 10 ft. shielded cable. Shpg. wt. 3 lbs.
Astatic Model DN-MZ **NET 17.35**
List \$29.50

Model DN-MZ - has multi-impedance transformer and impedance selector switch to provide choice of 50, 200 and 500 ohms or high impedance.
Astatic Model DN-MZ **NET 23.47**
List \$39.75

TURNER MICROPHONES

TURNER PROFESSIONAL DYNAMIC

MODEL U9S. Saddle tilts 90° for semi- or non-directional use. Frequency response 40-9000 cps. Output - 52 db. Switch on mike gives choice of 50, 200, 500 or high impedance. Gun metal finish. Supplied with 20-ft. cable and connector. Shpg. wt. 5 lbs. List \$42.50.
Turner Model U9S **NET 24.99**

TURNER MODEL 22D DYNAMIC

High impedance. For amateurs, call and paging systems. 90° tilting head permits semi- or non-directional operation. High quality Alnico magnet. Frequency response 70-9000 cps. Output - 54 db. Supplied with 7-ft. cable and connector. Chrome finish. Shpg. wt. 2 1/2 lbs. List \$27.25.
Turner Model 22D **NET 16.02**

TURNER MODEL 22X SHOCKPROOF CRYSTAL MIKE

High quality, humidity protected crystal. Shockproof mounting. Has automatic barometric compensator. Same design and characteristics as Model 22D described above, except has output of - 52 db. Shpg. wt. 2 1/2 lbs.
Turner Model 22X—List \$22.50. **NET 13.23**

NOTE: We can supply any microphone to fill your requirements. Send us your order specifying manufacturer's name and type number. Or if you wish, write for prices and literature.

ASTATIC MODEL 200 "VELVET VOICE" CRYSTAL MICROPHONE

Convertible type crystal mike with a wide range response. May be used as desk, hand or floor stand style to meet every need. Output level - 52 db. Frequency response 30-10,000 cps. Gold finish housing and handle; bright chrome grille; brown baked enamel, detachable base. Overall height 7 3/4"; grille diameter 2 1/2"; depth 2 1/4". Supplied with 10-ft. shielded cable. Shpg. wt. 2 lbs.
Astatic Model 200—List \$13.95. **NET 8.20**
Model 200-S—As above with ON-OFF switch **NET 8.82**

ASTATIC JT-30 CRYSTAL MIKE

Used extensively for amateur, public address and home recording. Output level - 42 db, sufficient for use with high gain amplifiers. Supplied complete with concentric cable connector, wood handle, interlocking metal base, and 10-ft. cable. Wood handle can be removed and microphone used on floor stand. Opalescent gray with bright chrome grille. Overall height 8"; grille diameter 2 1/4"; depth 3 1/4". Shpg. wt. 3 lbs.
Astatic JT-30—List \$16.95. **NET 9.97**

ASTATIC MODEL JT-30C CERAMIC MIKE

Similar to Model JT-30 except has ceramic element. Output level - 62 db. Supplied with 5-ft. cable. Shpg. wt. 3 lbs.
Astatic JT-30C—List \$16.15. **NET 9.50**

ASTATIC WR-40 MULTI-UNIT MIKE

Substantially flat frequency response up to 10,000 cycles. Cannot be acoustically overloaded. Output level - 56 db. Can be used with cable up to 200 feet long with negligible loss of output. Bright chrome finish, satin chrome grille. Overall height 8 1/4". Diameter of grille 2 1/4"; depth 2 3/4". Supplied with 15-ft. cable. Shpg. wt. 4 lbs.
Astatic WR-40—List \$43.25. **NET 25.43**

ASTATIC "SYNABAR" MODEL DR-10 UNIDIRECTIONAL CARDIOD CRYSTAL MICROPHONE

Meets the highest requirements of clear-toned performance quality—for the world of professional speakers and entertainers. Special sintered metal acoustic filter attenuates rear sounds by 15 db - a drop which just about makes the "Synabar" dead from the rear. Superb response, 50 to 10,000 cps, enhanced by Response Selector switch which provides ideal pickup for either crisp voice or general music and voice. METALSEAL crystal protects forever against moisture or dryness. - 54 db output. High impedance. Satin chrome finish. With 18 ft. single conductor shielded cable and detachable cable connector. Overall height, 8". Grille diameter 3 3/4".
Astatic Model DR-10 **NET 21.90**
List \$37.25

Model DR-10-S—Above with OFF-ON switch **NET 23.49**

AMERICAN MICROPHONE MODEL D22 FULL VISION DYNAMIC MIKE

Permit full vision of the artist while performing. Omni-directional pickup by the small 1" diameter head. Output level - 52 db. No preamp required. Has 30-50 ohms and 40,000 ohms impedances. Finished in gold and black. Quickly and easily detached from stand by slide lock. Can be used on stand, suspended, or as a hand mike. Equipped with "latch lock." Cannon plug and 25-ft. cable. Shpg. wt. 4 lbs. List \$75.00

American Microphone **NET 44.10**
D22 **NET 44.10**



ELECTRO-VOICE MICROPHONES

ELECTRO-VOICE MODEL 950 CARDAX CRYSTAL MIKE

Provides wide-angle front pickup, dead at rear. Simplifies microphone and speaker placement. Has dual frequency response - flat for high fidelity sound pickup (output - 57 db), or rising characteristic for extra crispness of speech (output - 50 db). Tiltable head. Fully enclosed, moisture-sealed crystal element. Has built-in cable connector and ON-OFF switch. Satin chrome finish. 3/4"-27 thread. Size: 2 1/2 x 2 1/2 x 6 1/4". Supplied with 18-ft. cable. Shpg. wt. 3 lbs. List \$42.50.
Electro-Voice Model 950 **NET 24.99**

ELECTRO-VOICE MODEL 911-20 "MERCURY" CRYSTAL MIKE

Substantially flat response from 50-8000 cps., with an output level of - 50 db. Can be used with any standard amplifier using high impedance input. High capacity crystal fully enclosed for greater moisture protection. Tiltable head. Has built-in ON-OFF switch. Supplied with 18-ft. cable and built-in 3/4"-27 thread connector. Satin chrome finish. Size: 2 3/8 x 3 1/8 x 6 1/4". Shpg. wt. 3 lbs. List \$29.50.
Electro-Voice Model 911-20 **NET 17.34**

ELECTRO-VOICE MODEL 611-20 "MERCURY" DYNAMIC MIKE

Features long-life Acoustalloy diaphragm. Smooth response from 50-8000 cps. Output level - 55 db. Non-directional. Matches any input: Hi-Z, 50, 150, 250 or 500 ohms impedance. Tiltable head. Has ON-OFF switch and built-in 3/4"-27 thread cable connector. Supplied with 18-ft. cable. Satin chrome finish. Size: 2 3/8 x 3 1/8 x 6 1/4". Shpg. wt. 4 lbs. List \$39.50.
Electro-Voice 611-20 **NET 23.22**

ELECTRO-VOICE MODEL 636 "SLIMAIR" DYNAMIC MICROPHONE

Exceptionally fine for P.A., recording and general purpose use. Rugged and versatile siltm design. Specially treated head stops wind and breath blasts. Frequency response 60-13,000 cps. Output level - 55 db. Has high and low impedance selection. Omni-directional. Uses Alnico V magnet. Swivel head permits 90° vertical tilt. Type MC-4 connector. 3/4"-27 thread. Brass case in satin chrome finish. Size: 10 1/4" long, 1 1/4" diameter. Supplied with 18-ft. cable. Shpg. wt. 2 lbs. List \$65.00.
Electro-Voice Model 636 **NET 38.22**

ELECTRO-VOICE MODEL 655 "SLIM-TRIM" HI-FI TV-BROADCAST DYNAMIC

Proved in studio and remote use. Long-life Acoustalloy diaphragm and high efficient magnetic structure assure ultra wide range high fidelity response. High output level gives excellent signal-to-noise ratio. Omnidirectional, becoming slightly directive at extremely high frequencies. Completely self-contained, slender dynamic microphone with a response of 40-15,000 cps. within 2.5 db. Special "pop-proof" head stops wind and breath blasts. Needs no auxiliary equipment. Impedance 250 ohms, easily changed to 50 ohms. Has Cannon XL-3 connector with 1/2" pipe thread. 3/4"-27 adapter supplied. Made of high tensile aluminum. Size 11" long, 1 1/4" diameter. With 18-ft. broadcast type cable. Shpg. wt. 1 1/2 lbs. List \$200.00
Electro-Voice Model 655 **NET 117.60**

MICROPHONE STANDS AND ACCESSORIES

ATLAS "FULL GRIP" MICROPHONE STANDS

The "full-grip" clutch mechanism and smooth-acting telescoping tube, permit fast, quiet adjustments at all times without wear or slipping. Height adjustment from 35" to 64". Gray shrivel base gives maximum stability and includes self-leveling, shock-absorbing base pads plus three additional "anti-tip" points located between the base pads. Full chrome plated tube assemblies for lifetime wear. Base diameter 10". All models terminate in a 3/8"-27 thread. Shpg. wt. 9 lbs.

Atlas Model MS-10C..... **5.88**

Same as above except heavier and with tube extension to 65". Shpg. wt. 12 lbs.

Atlas Model MS-12C..... **6.32**

Same as above except full chrome finish on base and tube.

Atlas Model MS-11C..... **7.64**

ATLAS "VELVET ACTION" DESK STANDS MODEL TS-6 ADJUSTABLE

A decorative and fine appearing stand suitable for use on a banquet table. Uses "full-grip, velvet action" control adjustable from 18" to 32". Full chrome finish base and tube assembly. Base diameter 8". Supplied with base pads.

Atlas Model TS-6—Shpg. wt. 5 lbs..... **5.29**

MODEL DS-5 FIXED. Same finish and workmanship as floor models. 6' fixed height. Base diameter 6". Felt base pads included.

Atlas Model DS-5—Shpg. wt. 2 lbs..... **1.76**

MODEL DS-7 ADJUSTABLE. From 8" to 13". Uses heavy duty 3/8" and 7/8" tubing.

Atlas Model DS-7—Shpg. wt. 3 lbs..... **2.94**

SPECO "MAX-MIXER"

For adding and mixing two additional microphones not provided for by regular amplifier input. No complicated connections; just plug into mike jack of amplifier. Has 3 individually controlled high impedance inputs. With 6-ft. cable connector and phone plug adaptor.

P13642—Shpg. wt. 2 1/2 lbs..... **11.14**

ATLAS BABY BOOM ARM

Quickly and easily attached to any floor stand. Has universal swivel for adjusting and locking into position. Adjustable for weight of any mike. Length of arm 32".

Atlas BB-1—Shpg. wt. 4 lbs..... **4.41**

ATLAS BRACKET CLAMP

Can be used directly as microphone support, or with baby boom arm. Clamps to overhanging edge of table or piano. Chrome finish.

Atlas BC-1—Shpg. wt. 2 lbs..... **2.06**

Mike Flanges, Extension Rods

For neat, inconspicuous permanent mounting on desk top, pulpit and amateur rigs. Fits all standard 3/8"-27 mikes. Base diameter 1 1/4". 3 mounting holes with 1/8" mounting centers. Extension rods male on both ends.

P13350—Male Flange..... 50¢ P13351—Female Flange..... 50¢

P13352—6" Ext. Rod..... 50¢ P13353—12" Ext. Rod..... 65¢

MIKE ADAPTERS

Adapts special fittings to standard mike stands.

P13367—1/2"-27 female to 1/2" male thread (RCA)..... **44¢**

P13368—1/2" female pipe to 3/8"-27 male..... 35¢

P13369—3/4" long, 3/8"-27 male running thread..... 18¢

P13370—3/8"-27 female to 3/8"-27 female coupling..... 35¢

MICROPHONE SWITCH

Attaches between male and female of 75 series connectors. Push-to-talk or slide switch for permanent connection.

Amphenol 75-MC1S..... **82¢**

SNAP-ON MIKE ATTACHMENT

Attaches any mike to any floor stand. 2-section ball bearing spring sleeve permits quick removal or attachment. No threading necessary. One section permanently fastened to stand, other to mike. Chrome plated brass. Atlas SO-1..... **1.62**

ICA SHIELDED 3-WAY MICROPHONE PLUG

Nickel plated brass barrel; fully insulated bushing.

P13519..... **1.08**

As above but with bakelite barrel.

P13521..... **81¢**

ICA SHIELDED 3-WAY JACK

Phosphor bronze spring jack. Nickel brass shell.

P13520..... **98¢**

P13522—Less shell..... **54¢**

FLEXIBLE GOOSENECK

Attaches to any mike stand. Can be used where moderate adjustment is required. 3/8"-27 thread; male and female ends. Chrome finish.

P13372—13" long..... **1.62**

AMPHENOL MICROPHONE CONNECTORS



SERIES 75. PRESSURE TYPE—SINGLE CONTACT

Polished chrome plated brass fittings with 3/8"-27 threads

Type	Fig.	Description	Each
75-MC1F	A	Female with coupling ring	.26
75-MC1M	B	Male. Fits above connector	.21
75-PC1M	C	Male. Non-shorting, chassis mount. Fits MC1F	.18
75-CL-PC1M	D	As above, except closed circuit	.26
75-MC1F-A	E	Angle type, female connector coupling ring. Use with PC1M, etc.	.59
75-MC1P	F	Adaptor. Connects MC1F to standard phone plug	.29

SERIES 80. SINGLE & DOUBLE PIN TYPES

Designed for shielded cables, concentric lines, patch cards, photo cell leads, etc. Elements are high dielectric black bakelite. Receptacles mount in 3/8" holes.

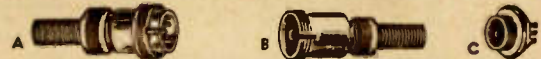


Type	Fig.	Description	Each
80M*	B	Male connector	.42
80F*	A	Female receptacle	.42
80C*	C	Female chassis receptacle	.26
80MC2F†	A	Female receptacle	.52
80MC2M†	B	Male connector	.52
80PC2F†	C	Female chassis receptacle	.29

* Single contact type. † Double contact type.

SERIES 91. THREE & FOUR CONTACT CONNECTORS

Polarized shells. Positive screw-type connection. Clamp grips cable securely after assembly, eliminating pulling, and twisting strain on soldered contacts.



Type*	Fig.	Description	Each
91MC3M*	A	Male connector	.65
91MC3F*	B	Female receptacle	.65
91PC3F*	C	Female chassis receptacle	.32
91MC4M†	A	Male connector	.71
91MC4F†	B	Female receptacle	.71
91PC4F†	C	Female chassis receptacle	.35

* 3 Contact. † 4 Contact.

CANNON TYPE XL CONNECTORS

For mikes, PA systems, radio equipment and electrical installations requiring up to 3 wires and 15 amps. capacity. Latchlock device permits easy and positive insertions and removal. *Zinc shells. †Steel shells.



STRAIGHT PLUGS

Type	Fig.	Description	Each
XL-3-12*	1	Male (pin insert)	.88
XL-3-11*	1	Female (socket insert)	.91

CLAMP TYPE PLUGS

Type	Fig.	Description	Each
XL-3-12SC†	4	Male (pin insert)	1.97
XL-3-11SC†	4	Female (socket insert)	2.00

WALL RECEPTACLE

Type	Fig.	Description	Each
XL-3-14*	2	Male (pin insert)	.71
XL-3-13*	2	Female (socket insert)	.91

PANEL RECEPTACLE

Type	Fig.	Description	Each
XL-3-14N*	3	Male (pin insert)	.85
XL-3-13N*	3	Female (socket insert)	.91

ADAPTER RECEPTACLES

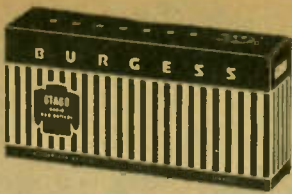
Type	Fig.	Description	Each
XL-3-50*	O	For Universal D20A mike, etc.	1.03
XL-3-50†*	B	For Turner 211 mike, etc.	1.12
XL-3-50N*	A	For Shure, Astatic, E-V, etc.	1.26

MICROPHONE DUST COVER

Keeps dust, grit and moisture from working parts. Permits use of sensitive mikes in windy areas. Reproduction is 95% true with the cover in place.

P13450..... **69¢**

WE GUARANTEE SATISFACTION AT ALL TIMES



BATTERIES

BURGESS



STANDARD DRY BATTERIES

For radio, laboratory or industrial use. Suffix letters of battery numbers denote type of terminals. P—Plug-in; SC—Spring Clip. All others have screw terminals except * with strap terminals. † Tapped at 22½ volts; ‡ Tapped at 3, 4½, 16 and 22½ volts. ORDER BY MAKE AND TYPE NUMBER.

Burgess Type	RCA Type	Volts	Size Inches	Shpg. Wt. Lbs.	Std. Pkg.	Net Each	
						Sgls. Lots	Std. Pkg.
"B" BATTERIES							
5156PI#	VS131	22½	4 1/2 x 2 3/4 x 2 1/4	2	10	1.58	1.44
5156SC†	VS102	22½	4 1/2 x 2 3/4 x 2 1/4	2	5	1.58	1.44
4156	VS102	22½	3 1/2 x 2 1/2 x 2 1/4	1	5	1.83	1.39
21308PI†	VS157	45	8 1/2 x 4 1/2 x 7 1/2	15	6	3.61	3.28
21308SC†	VS207	45	8 1/2 x 4 1/2 x 7 1/2	13	6	3.48	3.16
10308PI†	VS127	45	8 1/2 x 4 1/2 x 7 1/2	13	6	3.48	3.16
10308SC†	VS206	45	8 1/2 x 4 1/2 x 7 1/2	8	6	2.85	2.32
2308PI†	VS126	45	8 1/2 x 2 1/2 x 7 1/2	8	6	2.85	2.32
2308SC†	VS112	45	4 1/2 x 2 1/2 x 5 1/2	3 1/2	5	1.97	1.79
5308		45	3 x 1 1/2 x 3 3/4	3/4	6	2.01	1.83
W30BPX		45	3 1/2 x 2 1/2 x 4 3/4	1 1/2	6	3.43	3.12
Z30BP		45	3 1/2 x 2 1/2 x 4 3/4	1 1/2	5	2.22	2.02
Z20NX		45	3 1/2 x 2 1/2 x 5 1/2	2 1/2	6	6.49	5.90
Z60BP		90	3 1/2 x 2 1/2 x 5 1/2	2 1/2	6	6.49	5.90

"C" BATTERIES

5360	VS028	4 1/2	2 1/2 x 2 1/2 x 2 1/2	1 1/2	5	.44	.40
2370PL		4 1/2	3 1/2 x 1 1/2 x 2 1/2	1	5	.67	.61
2370BP	VS130	4 1/2	3 1/2 x 1 1/2 x 2 1/2	1	5	.67	.61
5540	VS029	7 1/2	4 x 1 1/2 x 2 1/2	1	5	.77	.70

"A" BATTERIES

4FBP		1 1/2	2 1/2 x 1 1/2 x 4 1/2	1	5	.62	.56
2FBP		1 1/2	1 1/2 x 1 1/2 x 4 1/2	1	10	1.05	.85
F2BP		3	2 1/2 x 1 1/2 x 4 1/2	1	3	.62	.56
2F2BP		3	5 1/2 x 1 1/2 x 4 1/2	1 1/2	10	1.90	1.36
B2BP		3	1 1/2 x 1 1/2 x 2 1/2	1/2	6	.70	.64
422		3	2 1/2 x 1 1/2 x 2 1/2	1/2	10	.28	.26
F4BP		6	2 1/2 x 2 1/2 x 4 1/2	2	10	.59	.54

GEIGER COUNTER BATTERY

U200		300	2 1/2 x 2 1/2 x 3 1/2	1	1		7.85
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FLASHLIGHT CELLS

1	VS035	1 1/2	1 1/2 x 1 diam.		12	.09	.08
2	VS001	1 1/2	2 3/4 x 1 1/2 diam.		48	.09	.08
Z	VS034	1 1/2	2 3/4 x 1 1/2 diam.		48	.07	.065
7		1 1/2	1 1/2 x 1 1/2 diam.		24	.07	.065

PORTABLE "A" AND "B" COMBINATION PACKS

Burgess Type	RCA Type	Volts	Size Inches	Shpg. Wt. Lbs.	Net Each
2TXX40		1 1/2/60	2 1/2 x 1 1/2 x 7 1/2	2	2.31
4GA42	VS053	1 1/2/63	9 x 2 x 4 3/4	5	3.14
5DA60	VS043	1 1/2/90	5 1/2 x 2 1/2 x 6 1/2	5	3.90
17GD60	VS022	1 1/2/90	15 1/2 x 4 1/2 x 7 1/2	22	5.21
6TA60	VS054	6 7/8/90	10 x 2 1/2 x 4 1/2	5 1/2	4.05
F4A50		6/90	9 1/2 x 2 1/2 x 3 1/2	5	3.86
F4A60		6/90	9 1/2 x 2 1/2 x 4 1/2	5	4.20
T5Z50	VS050	6.7 1/2/75	8 1/2 x 3 1/2 x 2 1/2	4	3.15
G5A42	VS038	7 1/2/63	9 1/2 x 2 1/2 x 4 1/2	4	3.68
T5Z60		7 1/2/90	9 1/2 x 2 1/2 x 3 1/2	4	4.03
F6A60	VS019	7 1/2/90	9 1/2 x 2 1/2 x 4 1/2	6	3.96
G6M60	VS018	7 1/2/90	10 1/2 x 3 1/2 x 4 1/2	7	4.17
T6Z60	VS057	7 1/2/90	2 1/2 x 9 1/2 x 3 1/2	4	4.03
G6E60	VS047	9/90	13 1/2 x 2 1/2 x 4 1/2	8 1/2	4.38
F6A60P	VS058	9/90	9 1/2 x 2 1/2 x 4 1/2	6	4.14

FEDERAL & SYLVANIA MINIATURE SELENIUM RECTIFIERS

Feature small size, no filament, larger RMS current capacity and convenient installation anywhere under chassis. Only 5 and 7 volts approximate rectifier voltage drop. Maximum RMS input 130 volts; maximum inverse peak 380 volts. Specify mtr. and type number when ordering.

Mils	Federal No.	Sylvania No.	Approx. Size*	List Price	Lots of 1-5, Ea.	Lots of 6, Ea.
65	1002A	NA-5	1x1 1/2	1.33	.78	.71
75	1003A	NB-5	1x1 1/2	1.55	.91	.80
100	1004A	NC-5	1 1/2 x 1 1/2	1.90	1.12	1.00
150	1005A	ND-5	1 1/2 x 1 1/2 x 1 1/2	2.25	1.32	1.19
200	1006A	NE-5	1 1/2 x 1 1/2 x 1 1/2	2.70	1.59	1.42
250	1010	NF-5	1 1/2 x 1 1/2 x 1 1/2	3.00	1.76	1.59
300	1090A	—	1 1/2 x 1 1/2 x 1 1/2	3.05	1.79	1.61
350	1023	—	1 1/2 x 1 1/2 x 1 1/2	3.45	2.01	1.82
400	1130	NH-5	2x2 1/2	4.25	2.50	2.24
450	1021	NJ-5	2x2 1/2	4.80	2.53	2.27

*Sizes are exact for Federal. Sylvania sizes are approximately the same.
P20332—Miniature Selenium Rectifier Handbook. 46 pgs. 8 1/2 x 4 1/2. 25¢

PORTABLE "A" BATTERIES

Burgess Type	RCA Type	Volts	Size Inches	Shpg. Wt. Lbs.	Std. Pkg.	Net Each	
						Sgls. Lots	Std. Pkg.
2D		1 1/2	2 1/2 x 1 1/2 x 3	1/2	12	.43	.39
2F		1 1/2	2 1/2 x 1 1/2 x 4 1/2	1	1	.81	.74
4F	VS004	1 1/2	2 1/2 x 2 1/2 x 4 1/2	2	6	.89	.81
2R	VS036	1 1/2	2 1/2 x 1 1/2 x 4 1/2 Dia.	4 oz.	8	.09	.08
6F		1 1/2	4 1/2 x 2 1/2 x 4 1/2	3	3	1.16	1.05
4FL	VS005	1 1/2	3 1/2 x 1 1/2 x 5 1/2	3	1		.71
8F		1 1/2	3 1/2 x 2 1/2 x 5 1/2	1 1/2	2	1.51	1.37
D9	VS072	4 1/2	3 1/2 x 1 1/2 x 2 1/2	1/2	8	.54	.49
F3	VS067	4 1/2	3 1/2 x 1 1/2 x 4 1/2	1 1/2	6	.63	.57
G3		4 1/2	4 x 1 1/2 x 4 1/2	2	6	.89	.83
F4PI	VS009	6	2 1/2 x 2 1/2 x 4	2	6	.80	.73
2F4L	VS011	6	3 1/2 x 1 1/2 x 10 1/2	4	2	1.54	1.40
Z4	VS068	6	1 1/2 x 1 1/2 x 2 1/2	1/2	12	.46	.42
B5	VS129	7 1/2	3 1/2 x 2 1/2 x 2 1/2	1 1/2	6	.77	.70
C5	VS065	7 1/2	2 1/2 x 1 1/2 x 3 1/2	1 1/2	6	.77	.70
T5		7 1/2	2 1/2 x 2 1/2 x 3 1/2	1 1/2	3	1.08	.96

PORTABLE "B" BATTERIES

A30	VS014	45	3 1/2 x 2 1/2 x 4 3/4	3	2	1.88	1.71
B30		45	4 1/2 x 2 1/2 x 5 1/2	3	2	1.88	1.71
M30	VS013	45	3 1/2 x 1 1/2 x 5 1/2	4	2	1.74	1.58
W30PI		45	2 1/2 x 1 1/2 x 3 1/2	1/2	6	2.11	1.92
XX30	VS015	45	3 1/2 x 2 1/2 x 4 1/2	2	2	2.20	2.00
K45	VS055	45	2 1/2 x 1 1/2 x 3 1/2	3/4	6	1.62	1.48
XX45	VS016	67 1/2	2 1/2 x 1 1/2 x 2 1/2	1 1/2	6	1.93	1.75
N60	VS090	90	3 1/2 x 1 1/2 x 3 1/2	1 1/2	6	1.93	1.75
XX69		103 1/2	1 1/2 x 1 1/2 x 1 1/2	1 1/2	6	3.74	3.40

IGNITION—LANTERN—TELEPHONE BATTERIES

Burgess Type	RCA Type	Volts	Size Inches	Shpg. Wt. Lbs.	Std. Pkg.	Net Each	
						Sgls. Lots	Std. Pkg.
6		1 1/2	6 1/2 x 2 1/2 diam.	1 1/2	12	.53	.....
4FH	VS106	1 1/2	2 1/2 x 2 1/2 x 4 1/2	1 1/2	12	.58	.53
4F2H	VS138	3	2 1/2 x 3 1/2 x 5 1/2	3	8	1.13	1.03
4FH		6	2 1/2 x 8 x 6	7	6	2.02	2.28
F4H		6	2 1/2 x 2 1/2 x 3	1 1/2	12	.59	.54
4FH	VS139	7 1/2	7 1/2 x 3 1/2 x 5 1/2	8	4	3.19	2.90
4F6H	VS140	9	8 1/2 x 3 1/2 x 5 1/2	9 1/2	4	3.74	3.40

BATTERIES FOR HEARING AIDS

Burgess Type	RCA Type	Volts	Size Inches	Shpg. Wt. Lbs.	Std. Pkg.	Net Each	
						Sgls. Lots	Std. Pkg.
"A" BATTERIES							
1ES		1 1/2	1 1/2 x 1 1/2 diam.	2	12	.115	.095
2ES		1 1/2	2 1/2 x 1 1/2 diam.	5	12	.125	.105
TE		1 1/2	3 1/2 x 1 1/2 diam.	5	12	.23	.21
ZZE		1 1/2	1 1/2 x 1 1/2 diam.	1 1/2	12	.23	.21
"B" BATTERIES							
U10E		15	1 1/2 x 1 1/2	2	24	.72	.65
U15E		22 1/2	1 1/2 x 1 1/2	2 1/2	24	.67	.79
U20E		30	1 1/2 x 2 1/2	3	24	1.06	.96
XX22E		33	2 1/2 x 1 1/2 x 3 1/2	7	24	1.35	1.23
XX30E		45	2 1/2 x 2 1/2 x 3 1/2	7	24	1.84	1.40

MALLORY GRID BIAS CELLS AND CLIPS

Used to bias Class A audio tubes (or initial source of bias RF, IF and AVC). Use in series for higher voltage.

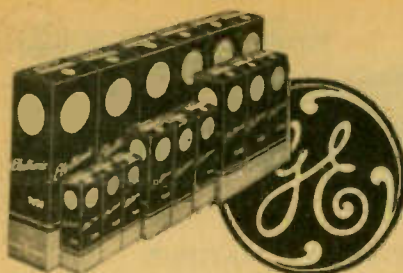
Mallory No.	Description	Fig.	Each
BC-3	1 1/2 V. Bias Cell	A	.27
GB15	Clip for 2 cells	B	.09
GB16	Clip for 4 cells	B	.09
GB17	Clip for 1 cell	B	.09

USE OUR ORDER BLANK FOR FASTEST POSSIBLE SERVICE

RECEIVING TUBES

6 MONTHS GUARANTEE: Tubes are all brand new, individually boxed, and fully guaranteed for 6 months from date of purchase (except broken or burned out tubes).

ADDITIONAL 5% DISCOUNT
In Lots of 100 Assorted
Deduct an Additional 5%



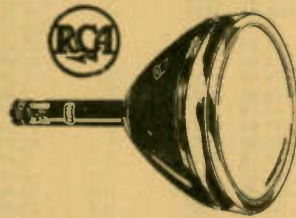
TYPE	LIST	NET	TYPE	LIST	NET	TYPE	LIST	NET	TYPE	LIST	NET
0A2	3.20	1.65	2A5	2.20	1.16	6BL7GT	2.90	1.53	6T7G/6Q6G	3.20	1.69
0A3/VR75	2.65	1.32	2A6	2.65	1.40	6BN6	3.20	1.69	6T8	2.90	1.53
0A4G	2.90	1.45	2A7	2.65	1.40	6BQ6GT	3.20	1.69	6U5/6G5	2.00	1.06
0B2	3.55	1.80	2B7	3.20	1.69	6B Y5G	2.65	1.40	6U6GT	2.20	1.16
0B3/VR90	3.20	1.65	2E5	2.65	1.40	6C4	1.65	.87	6U7G	2.20	1.16
0C3/VR105	2.65	1.32	2V3G	5.25	2.93	6C5	1.65	.87	6V6	3.20	1.69
0D3/VR150	2.65	1.32	2X2A	4.35	2.05	6C5GT	1.65	.87	6V6GT	2.00	1.06
0Y4	4.80	2.54	3A8GT	4.80	2.54	6C6	2.20	1.16	6W4GT	1.80	.95
0Z4	1.65	.87	3B7/1291	2.65	1.40	6C8G	3.20	1.69	6W6GT	2.20	1.16
0Z4A	—	—	3C6/XXB	3.20	1.69	6C8B	2.00	1.06	6W7G	2.65	1.40
0Z4G	1.65	.87	3D6/1299	2.65	1.40	6CD6G	6.00	3.18	6X4	1.50	.79
1A3	2.20	1.16	3E5	2.20	1.16	6D6	2.20	1.16	6X5	2.65	1.40
1A4P	3.90	2.06	3E6	2.65	1.40	6D8G	3.20	1.69	6X5GT	1.50	.79
1A5GT	1.80	.95	3LF4	2.65	1.40	6E5	2.20	1.16	6Y6G	2.40	1.27
1A6	3.20	1.69	3Q4	2.20	1.16	6F5	1.65	.87	6Z7G	3.90	2.06
1A7GT	2.20	1.16	3Q5GT	2.40	1.27	6F5GT	1.65	.87	6ZY5G	2.20	1.16
1A85	3.20	1.69	3S4	2.00	1.06	6F6	2.00	1.06	7A4/XXL	2.00	1.06
1AC5	2.20	1.16	3V4	2.00	1.06	6F6G	1.65	.87	7A5	2.20	1.16
1AD5	2.20	1.16	5A24	1.35	.71	6F6GT	1.65	.87	7A6	1.80	.95
1AF4	2.20	1.16	5T4	4.80	2.54	6F7	3.20	1.69	7A7	1.80	.95
1AF5	2.20	1.16	5U4G	1.50	.79	6F8G	3.20	1.69	7A8	1.80	.95
1B3GT/8016	2.65	1.40	5V4G	2.40	1.27	6G6G	2.65	1.40	7AD7	3.20	1.69
1B4P	3.90	2.06	5W4	1.65	.87	6H6	1.65	.87	7AF7	1.80	.95
1B5/25S	3.20	1.69	5W4GT	1.65	.87	6H6GT	1.80	.95	7AG7	2.20	1.16
1B7GT	3.20	1.69	5X4G	1.80	.95	6J5	1.50	.79	7AH7	2.20	1.16
1C3	2.65	1.40	5Y3G	1.35	.71	6J5GT	1.50	.79	7AJ7	2.20	1.16
1C5GT	2.20	1.16	5Y3GT	1.05	.56	6J6	2.65	1.40	7B4	1.80	.95
1C6	3.20	1.69	5Y4G	1.50	.79	6J7	2.00	1.06	7B5	1.80	.95
1C7G	3.20	1.69	5Z3	1.65	.87	6J7G	2.20	1.16	7B6	1.80	.95
1C8	2.65	1.40	5Z4	2.65	1.40	6J7GT	2.20	1.16	7B7	1.80	.95
1D5GP	3.90	2.06	6A3	3.20	1.69	6J8G	3.20	1.69	7B8	1.80	.95
1D7G	3.20	1.69	6A4/LA	3.20	1.69	6K5GT	2.40	1.27	7C4	3.20	1.69
1D8GT	3.90	2.06	6A5G	3.90	2.06	6K6GT	1.50	.79	7C5	1.80	.95
1E5GP	3.90	2.06	6A6	2.65	1.40	6K7	1.80	.95	7C6	1.80	.95
1E7GT	3.90	2.06	6A7	2.20	1.16	6K7G	2.20	1.16	7C7	1.80	.95
1E8	2.20	1.16	6A8	2.20	1.16	6K7GT	2.20	1.16	7E5/1201	2.65	1.40
1F4	2.65	1.40	6A8G	2.20	1.16	6K8	2.65	1.40	7E6	2.20	1.16
1F5G	2.65	1.40	6A8GT	2.20	1.16	6K8G	3.20	1.69	7E7	2.65	1.40
1F6	3.90	2.06	6AB4	2.00	1.06	6K8GT	2.40	1.27	7F7	2.20	1.16
1F7G	3.90	2.06	6AB5/6N5	2.65	1.40	6L5G	2.65	1.40	7F8	3.20	1.69
1G4GT	2.40	1.27	6AB7/1853	3.20	1.69	6L6	3.55	1.88	7G7/1232	2.65	1.40
1G5G	2.90	1.53	6AC5GT	2.90	1.53	6L6G	3.20	1.69	7H7	2.00	1.06
1G6GT	2.65	1.40	6AC7/1852	2.90	1.53	6L6GA	3.20	1.69	7J7	2.65	1.40
1H4G	2.20	1.16	6AD7/G	3.20	1.69	6L7	2.40	1.27	7K7	2.65	1.40
1H5GT	1.65	.87	6AF6G	2.65	1.40	6L7G	3.20	1.69	7L7	2.65	1.40
1H6G	3.20	1.69	6AG5	2.40	1.27	6N6G	3.90	2.06	7N7	2.20	1.16
1H6GT	3.20	1.69	6AG7	3.20	1.69	6N7	2.40	1.27	7Q7	2.00	1.06
1J6G	2.90	1.53	6AH6	3.90	2.06	6N7G	2.40	1.27	7R7	2.20	1.16
1J6GT	3.20	1.69	6AJ5	—	3.50	6N7GT	2.40	1.27	7S7	2.65	1.40
1L4	2.00	1.06	6AK5	3.90	2.06	6P5GT	2.40	1.27	7V7	2.65	1.40
1L6	2.65	1.40	6AK6	2.20	1.16	6Q7	2.00	1.06	7W7	2.65	1.40
1LA4	2.65	1.40	6AL5	1.80	.95	6Q7G	1.80	.95	7X6	2.20	1.16
1LA6	2.65	1.40	6AL7GT	2.65	1.40	6Q7GT	1.80	.95	7X7/XXFM	2.65	1.40
1LB4	2.65	1.40	6AQ5	2.00	1.06	6R7	2.65	1.40	7Y4	1.80	.95
1LC5	2.65	1.40	6AQ6	1.80	.95	6R7GT	2.65	1.40	7Z4	1.80	.95
1LC6	2.65	1.40	6AQ7GT	2.40	1.27	6S4	1.80	.95	10	3.90	2.06
1LD5	2.65	1.40	6AR5	1.65	.87	6S7	2.65	1.40	10Y	3.90	2.06
1LE3	2.65	1.40	6AS5	2.00	1.06	6S7G	3.20	1.69	12A6	2.90	1.53
1LG5	2.65	1.40	6AS6	—	3.65	6S8GT	2.65	1.40	12A6GT	2.90	1.53
1LH4	2.65	1.40	6AS7G	—	4.53	6SA7	1.65	.87	12A7	3.20	1.69
1LN5	2.65	1.40	6AT6	1.50	.79	6SA7GT	1.80	.95	12A8GT	2.20	1.16
1N5GT	2.00	1.06	6AU5GT	2.65	1.40	6SB7Y	2.40	1.27	12AH7GT	2.65	1.40
1P5GT	2.65	1.40	6AU6	2.00	1.06	6SC7	2.00	1.06	12AL5	1.80	.95
1Q5GT	2.65	1.40	6AV5GT	2.65	1.40	6SD7GT	2.90	1.53	12AT6	1.50	.79
1Q6	2.65	1.40	6AV6	1.50	.79	6SF5	1.65	.87	12AT7	2.90	1.53
1R4/1294	2.65	1.40	6AX5GT	1.65	.87	6SF5GT	1.80	.95	12AU6	2.00	1.06
1R5	2.00	1.06	6B4G	3.20	1.69	6SF7	2.00	1.06	12AU7	2.40	1.27
1S4	2.20	1.16	6B5	3.20	1.69	6SG7	2.00	1.06	12AV6	1.50	.79
1S5	1.80	.95	6B6G	2.00	1.06	6SH7	2.20	1.16	12AV7	2.90	1.53
1T4	2.00	1.06	6B7	3.20	1.69	6SH7GT	2.20	1.16	12AW6	2.40	1.27
1T5GT	2.40	1.27	6B8	3.20	1.69	6SJ7	1.65	.87	12AX7	2.40	1.27
1T6	2.20	1.16	6B8G	3.20	1.69	6SJ7GT	1.65	.87	12AY7	6.00	3.18
1U4	2.00	1.06	6BA6	1.80	.95	6SK7	1.65	.87	12BA6	1.80	.95
1J5	1.80	.95	6BA7	2.40	1.27	6SK7GT	1.80	.95	12BA7	2.40	1.27
1U6	2.20	1.16	6BC5	2.00	1.06	6SL7GT	2.40	1.27	12BD6	2.00	1.06
1V	2.20	1.16	6BC7	2.20	1.16	6SN7GT	2.20	1.16	12BE6	1.80	.95
1V2	1.50	.79	6BD5GT	3.20	1.69	6SQ7	1.50	.79	12BF6	1.65	.87
1V5	2.65	1.40	6BD6	2.00	1.06	6SQ7GT	1.50	.79	12BH7	2.40	1.27
1W4	2.65	1.40	6BE6	1.80	.95	6SR7	1.80	.95	12BN6	2.90	1.53
1W5	2.65	1.40	6BF5	2.20	1.16	6SR7GT	1.80	.95	12BT6	1.50	.79
1X2	2.65	1.40	6BF6	1.65	.87	6SS7	2.65	1.40	12C8	3.20	1.69
1X2A	2.65	1.40	6BG6G	4.80	2.54	6ST7	2.00	1.06	12F5GT	1.80	.95
2A3	3.20	1.69	6BH6	2.00	1.06	6SV7	2.90	1.53	12H6	1.80	.95
2A4G	4.80	2.54	6BJ6	2.00	1.06	6SZ7	2.20	1.16	12J5	1.50	.79



RECEIVING TUBES (Continued)



TYPE	LIST	NET	TYPE	LIST	NET	TYPE	LIST	NET	TYPE	LIST	NET
12J5GT	1.50	.79	14E6	2.20	1.16	28D7	—	1.80	50L6GT	1.65	.87
12J7GT	2.20	1.16	14E7	2.65	1.40	30	2.20	1.16	50X6	2.20	1.16
12K7G	2.20	1.16	14F7	2.20	1.16	31	2.65	1.40	50Y6G	1.80	.95
12K7GT	2.20	1.16	14F8	3.20	1.69	32	3.55	1.88	50Y6GT	1.80	.95
12K8	2.65	1.40	14H7	2.40	1.27	32L7GT	3.20	1.69	50Y7GT	2.00	1.06
12K8GT	2.65	1.40	14J7	2.65	1.40	33	3.20	1.69	53	2.65	1.40
12L8GT	—	2.25	14N7	2.65	1.40	34	3.55	1.88	55	2.20	1.16
12Q7GT	1.80	.95	14Q7	2.20	1.16	35/51	2.20	1.16	56	1.80	.95
12S8GT	2.65	1.40	14R7	2.65	1.40	35A5	1.80	.95	57	2.00	1.06
12SA7	1.65	.87	14S7	2.65	1.40	35B5	2.00	1.06	58	2.00	1.06
12SA7GT	1.80	.95	14W7	2.65	1.40	35C5	2.00	1.06	59	3.55	1.88
12SC7	2.20	1.16	14X7	2.65	1.40	35L6GT	1.65	.87	70L7GT	3.90	2.06
12SF5	1.80	.95	14Y4	2.40	1.27	35W4	1.25	.66	71A	2.40	1.27
12SF5GT	2.00	1.06	19	3.20	1.69	35Y4	1.80	.95	75	1.65	.87
12SF7	2.00	1.06	19B6GG	6.00	3.18	35Z3	1.80	.95	76	1.65	.87
12SG7	2.00	1.06	19C8	3.20	1.69	35Z4GT	1.50	.79	77	2.00	1.06
12SH7	2.20	1.16	19J6	3.20	1.69	35Z5GT	1.25	.65	78	2.00	1.06
12SJ7	1.65	.87	19T8	2.90	1.53	35Z6G	2.20	1.16	79	2.65	1.40
12SJ7GT	1.65	.87	22	3.20	1.69	36	2.65	1.40	80	1.35	.71
12SK7	1.65	.87	24A	2.20	1.16	37	1.80	.95	81	4.80	2.54
12SK7GT	1.80	.95	25A6	3.20	1.69	38	2.20	1.16	82	2.65	1.40
12SL7GT	2.40	1.27	25A6G	2.65	1.40	39/44	2.65	1.40	83	2.65	1.40
12SN7GT	2.20	1.16	25A7GT	—	4.00	41	2.00	1.06	83V	3.20	1.69
12SQ7	1.50	.79	25AC5GT	2.90	1.53	42	2.00	1.06	84/6Z4	1.80	.95
12SQ7GT	1.50	.79	25AV5GT	2.65	1.40	43	2.00	1.06	85	2.20	1.16
12SR7	2.00	1.06	25BQ6GT	3.20	1.69	45	2.00	1.06	89	2.20	1.16
12SR7GT	2.20	1.16	25C6G	2.90	1.53	45Z3	1.80	.95	V99	3.55	1.88
12Z3	2.40	1.27	25L6	3.20	1.69	45Z5GT	1.80	.95	X99	3.55	1.88
14A4	2.65	1.40	25L6GT	1.85	.87	46	2.90	1.53	117L/M7GT	3.90	2.06
14A5	3.90	2.06	25W4GT	2.00	1.06	47	2.90	1.53	117N7GT	3.90	2.06
14A7/12B7	2.20	1.16	25Y5	2.90	1.53	49	2.65	1.40	117P7GT	3.90	2.06
14AF7/XXD	2.40	1.27	25Z5	1.65	.87	50	6.00	3.18	117Z3	1.50	.79
14B6	2.20	1.16	25Z6	2.20	1.16	50A5	2.20	1.16	117Z4GT	2.90	1.53
14B8	2.20	1.16	25Z6GT	1.50	.79	50B5	2.00	1.06	117Z6GT	2.40	1.27
14C5	2.65	1.40	26	2.00	1.06	50C5	2.00	1.06	FM1000	3.20	1.69
14C7	2.40	1.27	27	1.80	.95	50C6G	2.90	1.53			



TELEVISION PICTURE TUBES



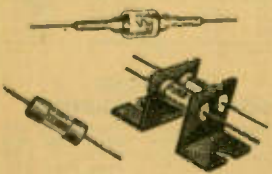
DUMONT



*Indicates dark face; all others white face. †Metal cone. ‡Electrostatic focus. All 14", 17", 20", 21" and 16KP4, 16KP4A, 16RP4 and 16TP4 are rectangular. Others are round.

TYPE	LIST	NET	TYPE	LIST	NET	TYPE	LIST	NET	TYPE	LIST	NET	TYPE	LIST	NET
RCA			RCA			GE			SYLVANIA			SYLVANIA		
3KP4	20.00	15.00	19AP4A*	60.00	45.00	16WP4A	51.00	38.20	12KP4	41.70	31.30	19AP4B*†	60.00	45.00
5TP4	60.00	45.00	19AP4B*†	60.00	45.00	17BP4A*	36.50	27.25	12KP4A*	41.70	31.30	20CP4*	54.75	41.00
7DP4	31.50	26.20	19AP4D†	60.00	45.00	17CP4*†	35.35	26.50	12LP4	35.00	26.25	20CP4A*	54.75	41.00
7JP4	25.00	18.75	20CP4*	54.75	41.00	17BP4B*	42.60	31.75	12LPA4*	35.00	26.25	20DP4A*	54.75	41.00
10BP4A*	30.00	23.00	21AP4†	58.75	42.50	17FP4A*	37.25	28.00	12VPA	35.00	26.25	21EP4A*	57.75	43.25
10FP4A*	39.30	29.50	GE			17RP4/17HP4†‡	36.50	27.25	12VPA4*	35.00	26.25	DUMONT		
12KP4A*	41.70	31.30	5TP4	60.00	45.00	17VP4*	36.50	27.25	14CP4*	35.00	26.25	12LPA4*	35.00	26.25
12LP4A*	35.00	26.25	7JP4	25.00	18.75	19AP4A†	60.00	45.00	16AP4†	50.00	38.00	14CP4*	35.00	26.25
14CP4*	35.00	26.25	9AP4A*	24.20	18.15	19AP4B*	60.00	45.00	16AP4A*†	50.00	38.00	16CP4*	35.00	26.25
14EP4*	35.00	26.25	10BP4A*	30.00	23.00	20CP4*	54.50	41.00	16GP4*†	40.00	30.00	16CP4*	37.00	28.00
16AP4A*†	50.00	38.00	10FP4*	36.50	27.25	20CP4A*	54.50	41.00	16JP4	51.00	38.20	16TP4*	37.00	28.00
16GP4A*†	40.00	30.00	10FP4A*	36.50	27.25	20HP4A/20LP4*†	54.50	41.00	16JP4A*	51.00	38.20	17AP4*	47.00	33.00
16CP4B*†	40.00	30.00	12KP4A*	41.70	31.30	21FP4A*†	57.50	43.25	16KP4	37.50	28.00	17BP4A*	37.00	28.00
16KP4*	37.35	28.00	12LP4A*	34.85	26.15	21LP4A*†	57.50	43.25	16LP4	51.00	38.20	17KPA†	37.00	28.00
16LPA4*	51.00	38.20	12UP4B†	37.35	28.00	24AP4*†	101.00	76.00	16LPA4*	51.00	38.20	19AP4A*†	55.50	41.55
16RP4	37.35	28.00	14CP4*	35.30	26.50	SYLVANIA			16RP4*	37.50	28.00	20CP4*	54.75	41.00
16TP4*	37.35	28.00	16AP4A*†	50.75	38.00	7JP4	25.00	18.75	16TP4*	37.50	28.00	20CP4A*	54.75	41.00
16WP4A*	51.00	38.20	16DP4A*	51.00	38.20	8BP4	30.50	23.00	16WP4A*	51.00	38.20	20JP4*	54.75	41.00
17BP4A*	36.00	27.00	16GP4*†	40.50	30.00	10BP4*	30.00	23.00	16ZP4*	51.00	38.20	21EP4*	57.60	43.20
17CP4*†	35.00	26.25	16GP4B*	40.50	30.00	10BP4A*	30.00	23.00	17BP4A*	36.25	27.25	21GP4*†	56.75	42.50
17GP4*††	35.00	26.25	16KP4/16RP4	37.25	28.00	10FP4*	39.30	29.50	17CP4*	35.35	26.50	21KP4A*†	57.60	43.20
17HP4*††	36.00	27.00	16KP4A*	43.25	32.50	10HP4	71.25	53.50	19AP4†	60.00	45.00	30BP4*†	247.50	236.50
17TP4*††	35.00	26.25	16LPA4	51.00	38.20	10MP4	34.00	25.50	19AP4A*†	60.00	45.00			

SYLVANIA CRYSTAL DIODES



Precision engineered diodes that are small, lightweight and heatless. Germanium types are designed for low power rectification from DC to over 200 mc and as detectors in FM receivers. The silicon crystal diodes are used in certain microwave instruments such as power indicators and test probes. They also have numerous radar and industrial uses. Copper terminal is indicated on body of diode.

GERMANIUM

General purpose single diode with 40 ma maximum anode current rating. 1 mfm shunt capacitance. Low forward resistance. $\frac{1}{2}$ " leads. **\$.85**
 IN34— $\frac{1}{2}$ " dia. 1.05
 IN34A—As above except in sealed glass cartridge. 1.05
 IN35—Dual Diode. Two matched and mounted IN34 for full-wave. 2.05

Type	Description	Net
IN38	100 back volt diode	1.70
IN38A*	100 back volt diode	2.25
IN39	200 back volt diode	6.25
IN40	Varistor—plug-in	10.60
IN41	Varistor—lug type	11.25
IN54	High resistance diode	.95
IN54A*	High resistance diode	1.25
IN55	150 volt diode	3.15
IN55A*	150 volt diode	4.05
IN56	High conduction diode	.95
IN56A*	High conduction diode	1.25
IN57	80 volt diode	.95
IN58	100 volt diode	1.25
IN58A*	100 volt diode	1.55
IN59	Video detector diode	.65
IN71	Low imped. varistor	6.25

*Sealed glass cartridge.

SILICON CRYSTAL

Type	Description	Net
IN21	3000 mc converter	3.75
IN21A	3000 mc converter	4.40
IN21B	3000 mc converter	5.00
IN21C	3000 mc converter	28.10
IN22	3000-10,000 mc instrument rectifier	3.10
IN23	10,000 mc converter	5.00
IN23A	10,000 mc converter	5.65
IN23B	10,000 mc converter	6.25
IN25	High burnout mixer	8.15
IN26	24,000 mc converter	9.40
IN31	10,000 mc video det.	8.10
IN32	3000 mc video det.	25.00

GERMANIUM DIODE BOOK

Circuits, data, applications of diodes. Chapters: receivers and receiver applications, transmitter and amplifier applications, instruments and gadgets. Includes 39 schematics with theory and operation of each. 6x9". P20333—46 pages. **25¢**

GE "TELE-CLUES"

with Bi-Monthly Supplement



Picture Clues of TV Troubles and their Solutions Bound Copy

New "Tele-Clues" added every month to provide an up-to-date collection at all times. P20334—GE "Tele-Clues" When purchased separately **1.00** With GE Picture Tube—NO CHARGE

GE TV PICTURE TUBE REPLACEMENT GUIDE

Gives useful screen area, voltages, correct ion trap and other helpful service data. Supplied FREE with purchase of any GE picture tube.

IMPORTANT—BOOKS ARE NOT RETURNABLE FOR CREDIT



SPECIAL PURPOSE TUBES



Below is an up-to-date listing of special purpose tubes, fully guaranteed by the leading companies in the industry. Included are CR, miniature, photo-electric, gas-filled and hearing aid types. You are always sure of the lowest prevailing prices and prompt

service when you order from Lafayette's extensive tube stocks.

Abbreviations R = RCA. GE = General Electric
R-G = RCA & General Electric



Type	Mfr.	EACH	Type	Mfr.	EACH	Type	Mfr.	EACH	Type	Mfr.	EACH	Type	Mfr.	EACH
1C21	R.	2.25	6AG7Y	R.	1.75	828	R-G	13.75	931A	R-G	9.75	5583	R.	3.05
1P21	R-G	50.00	6AS6	R-G	3.65	829B	R-G	16.25	934	R-G	3.40	5588	R-G	110.00
1P22	R.	14.75	6F4	R.	6.40	830B	R-G	11.50	935	R-G	7.80	5593	GE.	77.00
1P28	R.	15.50	6J4	R.	8.05	832A	R-G	12.90	954	R-G	5.65	5610	GE.	1.90
1P29	R-G	2.95	6SJ7Y	R.	.85	833A	R-G	49.50	955	R-G	3.60	5618	R.	3.63
1P37	R-G	2.85	6SN7GTY	R.	1.40	836	R-G	9.00	956	R-G	3.30	5651	R.	3.30
1P39	R-G	1.75	7C24	R.	159.50	837	R-G	5.80	957	R-G	3.75	5662	GE.	3.20
1P40	R-G	1.85	7C29	GE.	115.00	838	R-G	13.75	958A	R.	6.25	5663	GE.	1.90
1P41	R.	2.80	7D21	GE.	285.00	843	R-G	2.60	959	R-G	6.25	5670	GE.	7.50
1P42	R.	5.70	7QP4	R.	39.50	845	R-G	13.75	991	R.	7.50	5674	GE.	77.00
2AP1A	R-G	10.55	8D21	R-G	1300.00	849	R-G	138.00	1603	R-G	7.00	5675	R.	18.50
2BP1	R-G	9.60	9C22	R-G	1225.00	857B	R-G	209.00	1609	R.	8.60	5691	R-G	7.75
2BP11	R.	11.00	9C24	GE.	550.00	860	R.	34.50	1612	R-G	2.70	5692	R-G	7.75
2C22	R.	1.60	PJ22	GE.	2.50	862A	R-G	1322.00	1614	R-G	2.00	5693	R-G	6.40
2C43	R.	29.00	FG27A	GE.	23.00	865	R.	11.50	1616	R-G	8.65	5696	R.	1.90
2D21	R-G	2.00	FG81A	GE.	16.00	866A	R-G	1.95	1619	R-G	2.50	5720	GE.	21.00
2E24	R.	4.65	FC172	R-G	65.00	868	R-G	2.50	1620	R-G	6.25	5726	GE.	4.50
2E26	R-G	3.85	203A	R-G	13.75	872A	R-G	8.20	1621	R-G	1.95	5728	GE.	23.00
2F21	R.	105.00	211	R-G	13.75	874	R-G	3.10	1622	R-G	2.10	5734	R.	18.00
2H21	GE	90.00	242C	GE.	13.75	884	R-G	1.85	1624	R-G	4.00	5742	GE.	13.00
2K26	R.	107.15	FP400	GE.	24.00	885	R-G	2.00	1625	R-G	2.65	5749	GE.	4.50
3A4	R.	1.20	414	GE.	120.00	886	R.	4.60	1626	R.	1.85	5751	GE.	5.65
3A5	R-G	1.95	441	GE.	4.50	889A	R-G	210.50	1629	R-G	1.40	5763	R-G	1.75
3AP1A	R-G	14.25	502A	R-G	1.85	889RA	R-G	285.00	1633	R-G	1.95	5814	GE.	6.00
3B24W	GE	11.75	575A	R-G	21.00	891R	R-G	362.00	1635	R.	2.15	5819	R.	55.00
3B25	R.	5.80	579B	R.	15.00	892	R-G	223.00	1654	R.	4.55	5820	R-G	1200.00
3BP1A	R-G	16.50	629	R.	13.00	892R	R-G	362.00	1816P4	R.	47.00	5823	R.	1.32
3C23	R-G	12.50	672A	R-G	35.00	893A	R-G	630.00	1850A	R-G	540.00	5824	GE.	3.35
3D22	R.	15.00	673	R-G	21.00	893AR	R-G	1150.00	1851	R.	3.10	5826	R-G	1300.00
3JP1	R.	16.50	676	R.	55.00	895R	GE.	1300.00	1949	R.	11.30	5879	R.	20.00
3KP1	R-G	14.50	677	R.	55.00	898A	R-G	1322.00	2050	R-G	1.85	5890	R.	20.00
3KP11	R.	16.50	715C	R.	63.00	902A	R.	12.50	5513	GE	275.00	5915	R.	1.20
3RP1	R.	14.50	800	R-G	11.50	913	R.	15.50	5518	GE	495.00	5963	R.	1.40
4-65A	R.	20.00	801A	R-G	4.30	917	R-G	3.50	5527	R.	47.50	5964	R.	1.50
4-125A	R.	30.25	802	R-G	4.75	918	R-G	3.10	5545	GE	35.00	8000	R-G	14.50
4-250A	R-G	41.25	803	R-G	24.25	919	R-G	3.50	5550	R-G	50.00	8003	R.	14.60
4E27	R.	24.50	804	R.	17.50	920	R-G	4.15	5551	R-G	80.50	8005	R-G	7.40
4X150A	R-G	48.00	805	R-G	13.50	921	R-G	2.05	5552	R-G	121.00	8008	R-G	8.20
4X500A	R.	121.00	807	R-G	2.50	922	R-G	1.95	5553	R-G	265.00	8013A	R-G	10.30
5BP1A	R-G	22.50	809	R-G	4.00	923	R-G	2.05	5556	R-G	12.00	8020	R-G	32.00
5CP1A	R-G	23.25	810	R-G	14.50	924	R.	3.30	5557	R-G	7.75	8025A	R-G	10.00
5FP4A	R.	27.50	811A	R-G	4.05	925	R.	2.40	5558	R-G	14.00	9001	R-G	3.10
5SCP11A	R.	41.75	812A	R-G	4.05	926	R.	2.90	5559	R-G	19.50	9002	R-G	2.50
5R4GY	R.	1.50	813	R-G	16.00	927	R-G	2.50	5560	R-G	25.00	9003	R-G	3.10
5UP1	R-G	17.75	814	R-G	14.25	928	R.	2.85	5563	R.	40.00	9004	R-G	2.50
5UP7	R.	20.25	815	R-G	6.90	929	R-G	1.50	5581	R-G	2.25	9005	R-G	3.45
5WP11	R.	70.00	816	R-G	1.65	930	R-G	1.65	5582	R.	2.65	9006	R.	1.60

SYLVANIA — RAYTHEON — AMPEREX — EIMAC SPECIAL PURPOSE TUBES

SYLVANIA		SYLVANIA		RAYTHEON		RAYTHEON	
Type	PRICE	Type	PRICE	Type	PRICE	Type	PRICE
0A5	4.40	1247	6.00	1A04	3.15	CK574AX	1.88
1B24	50.00	1265	3.10	2C50	7.50	CK703	18.00
1B35	12.50	1266	3.50	2E31	1.56	CK1006	3.85
1D21 SN4	5.30	2051	1.90	2E32	1.56	CK1017	11.25
2C4	2.85	R4330	15.00	2E35	2.53	CK1024	3.65
2E22	6.00	R4340	45.00	2E36	2.53	CK1027	3.40
2E30	2.45	R4350	12.50	2E41	1.56	1641 RK60	3.00
3D24	7.50	5633	10.25	2E42	1.56	CK5517	3.40
4C35	28.75	5634	10.25	2G21	1.56	CK5654	6.00
5C22	53.45	5635	9.50	2G22	1.56	CK5670	7.50
5R4GY	1.50	5637	4.00	RK4032	19.95	CK5672	1.88
6AD4	2.20	5638	6.00	6AK5W	3.20	CK5676	CK556AX 3.65
6BA5	3.30	5640	7.75	6AL5W	2.40	CK5677	CK568AX 3.65
6BF7	2.60	5641	5.25	6AN5	6.00	CK5678	CK569AX 2.50
6BG7	2.60	5643	8.00	6AS6W	4.50	CK5694	3.85
6D4	2.85	5644	6.50	6N4	3.85	CK5697	CK570AX 6.75
6K4	4.75	5645	6.40	RK61	3.50	CK5702	CK705CX 7.50
6K4A	6.40	5646	6.40	RX120	17.75	CK5703	CK608CX 2.40
6SL7WGT	3.00	5647	6.40	RX212	27.15	CK5704	CK606BX 6.00
6SN7WGT	2.85	5679	1.35	CK502AX	2.53	CK5726	4.50
6X5WGT	2.75	5718	7.75	CK503AX	2.05	CK5744	CK619CX 6.80
28D7W	9.75	5719	7.75	CK506AX	1.88	CK5783	7.50
5A309	2.80	5722	6.40	CK510AX	3.15	CK5787	7.50
5S501	14.40	5840	10.50	CK512AX	1.88	CK5829	4.60
808	10.75	5899	7.75	CK522AX	1.88	CK5886	7.50
841	4.35	5902	18.85	CK525AX	1.88	CK5889	11.30
R1111	5.65	5931 SU4WG	6.50	CK526AX	2.38	CK6029	4.50
R1111M	13.15	5933 807W	12.85	CK528AX	1.88		
R1130B	14.35	X6030	3.50				
R1131C	14.35	X6090	2.00				

AMPEREX		AMPEREX		AMPEREX	
Type	PRICE	Type	PRICE	Type	PRICE
3B28	9.00	250TH	33.00	343A	370.00
4B32	12.00	250TL	33.00	450TH	77.00
FC105	48.00	255B	145.00	450TL	77.00
212E	102.00	258B	11.00	504R	125.00
249B	9.00	266B	210.00	673	24.50
249C	9.00	315A	38.60	AX9902	60.00
		321A	38.60	AX9903	19.00

GEIGER MUELLER RADIATION COUNTER TUBES



AMPEREX COUNTER TUBES

Feature long life with guaranteed minimum of 5x10¹⁰ counts. 75N and 151N are cylinder types; 200N has mica window.

Type	Volts*	Size	Each
75N	700	1 1/2 x 2 1/2"	10.00
151N	700	1 1/2 x 4"	17.50
200N	700	3 1/2 x 1 1/2"	45.00

*DC Operating Volts.

RAYTHEON BETA-GAMMA COUNTERS

All-glass, thin wall, self-quenching construction. Counting rate 12,000 cpm maximum. Temperature range: +40° to 55° C. Relative plateau slope 3%/100V. Plateau length 150V. DC Life, 10⁶ counts. CK1026 terminals are bulb coating and single pin. Others have base pin terminals.

Type	Volts*	Size	Each
CK1018	925	1 1/2 x 8 1/2"	15.00
CK1020	925	1 1/2 x 6"	11.50
CK1021	925	3 1/2 x 5 1/2"	11.00
CK1023	925	1 1/2 x 5"	11.00
CK1026	960	1 1/2 x 3"	3.00
CK1029	925	1 1/2 x 5 1/2"	15.00

*DC Operating Volts.

PILOT LIGHTS - BALLASTS - LINE CORDS

FULL-VIEW NEON PILOT LIGHT



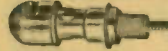
Plastic head, built-in resistor for 110V. Use NE51 bulb. Head unscrews to replace bulb from front panel. $1\frac{1}{2}$ " L; extends $\frac{1}{8}$ " in front of panel. With mtg. nut and washer, threaded $\frac{1}{8}$ "-27. P14181—Red. P14182—Amber. P14183—Opal. Any color. Each **97c**

1" ENCLOSED PILOT LIGHT



Porcelain and brass, single unit socket assembly. For standard 86 lamp, removable from front panel. Single 1" mtg.; faceted jewels. UL listed. P14140—Red. P14141—Green. Either Type **1.03**

MINIATURE PANEL LIGHT



For panel mtg. Single contact, miniature bayonet base. Mounts in $\frac{1}{8}$ " hole. With 12" lead, nut and washer. P6436 **45c**

POLISHED CHROME BULL'S EYES



Take Candelabra base 115V bulbs type S-8. For panels up to $\frac{1}{2}$ " thick, 1" dia. glass jewel with set of 4 color discs — red, green, amber and white. Jewel bezel. P14174 **83c**
P14175—As above, with red or green 1" faceted jewel (specify color) **83c**
P14176—As above, but with miniature base. **83c**

1/2" & 3/4" JEWEL PILOT BRACKETS



For amplifiers, transmitters, etc. All have faceted jewels and highly polished nickel plated steel brackets. Standard brackets have $\frac{1}{2}$ " jewel requiring a $\frac{1}{8}$ " mounting hole. Jumbo brackets have $\frac{3}{4}$ " jewel for an $\frac{1}{2}$ " hole. Available with candelabra 110V, miniature bayonet and screw base sockets. P6433 P6434 P6435 **45c**

Base Type	Green	Red	Amber	Ea.
Assembly w/ Min. Screw	P6433	P6434	P6435	.21
$\frac{1}{2}$ " Jewel Min. Bay.	P6456	P6454	P6458	.27
Brackets Candelabra	P6427	P6426	P6428	.21
Assembly w/ Min. Screw	P6330	P6331	P6332	.46
$\frac{3}{4}$ " Jewel Candelabra	P6333	P6334	P6335	.50

FRONT REMOVABLE JEWEL BRACKET



Mounts in $\frac{1}{4}$ " hole. $\frac{1}{2}$ " jewel removable. Bulb can be replaced from the front.

Miniature Screw Base	Miniature Bayonet Base	Color	Each
P6416	P6408	Red	32c
P6418	P6410	Amber	
P6417	P6409	Green	
P6425	P6411	Opal	

GIANT 1" JEWEL BRACKETS



Large, 1" diameter faceted jewels. Uses standard bulbs. Candelabra type takes 3 or 6-watt, 110-volt bulb. Shpg. wt. 3 oz.

Candel. Base	Min. Base	Screw Base	Min. Bay. Base	Color	Each
P6403	P6404	P6405		Red	83c
P6321	P6324	P6327		Opal	
P6322	P6325	P6328		Green	
P6323	P6326	P6329		Amber	

PILOT LIGHT SOCKETS, MINIATURE, CANDELABRA, BAYONET BASE

Miniature screw, bayonet and candelabra sockets with cadmium plated brackets and tin-plated brass terminal lugs. Average shpg. wt. approx. 2 oz.

Type	Min. Screw Base	Min. Bay. Base	Cand. Base
A	P6510	P6488	P6539
B	P6511	P6489	P6557
C	P6512	P6490	P6540
D	P6513	P6514	P6564

NET PRICE	Each 7c	Each 8c	Each 11c
	100.63c	100.72c	100.89c
	100.567	100.648	100.891

GE NEON GLOW LAMPS



For use in test instruments. On DC, only negative electrode glows. All operate on 105-125 volts AC or DC and require minimum starting voltages of approximately 65 on AC and 90 on DC. Screw types have series resistor in base; others require external resistor. NE2 and NE51, 200,000 ohms; NE48, 30,000 ohms; NE42, 4800 ohms; NE36, 3500 ohms. Clear glass envelopes. Federal tax included. Bases: (A) Standard Edison. (B) Candelabra. (C) Single Contact Min. Bayonet. (D) Wire Terminals. (E) 2-Contact Bayonet. (F) Skirted Double Contact Bayonet Candelabra. Average shpg. wt. 3 oz.

Type	Watts	Base	V. AC	V. DC	Each	10 For
NE51	$\frac{1}{16}$	C	65	90	.11	.99
NE2	$\frac{1}{16}$	D	65	90	.08	.72
NE45	$\frac{1}{4}$	B	65	90	.64	5.80
NE48	$\frac{1}{4}$	D	65	90	.52	4.70
NE7	$\frac{1}{4}$	E	60	70	.49	4.41
NE30	1	A	60	85	.59	5.30
NE32	1	D	60	85	.64	5.80
NE34	2	A	60	85	.64	5.80
NE36	2	F	60	85	.69	6.21
NE40	3	A	60	85	.88	7.90

GE-MAZDA PILOT LIGHT BULBS



Head Colors: Types 48, 49 pink; types 40, 47 brown; types 44, 46 blue; type 313 none; all others white. "Miniature bayonet base" all others miniature screw base. Prices include tax.

Type	Volts	Amps	Each	10 For	100 For
48	2.0	.06	.16	1.06	9.60
49*	2.0	.06	.16	1.06	9.60
44	2.5	.50	.11	.73	6.57
43*	2.5	.50	.11	.73	6.57
1490*	3.2	.16	.11	.73	6.57
40	15	.16	.11	.73	6.57
47*	0-8	.15	.11	.73	6.57
46	0-8	.25	.11	.73	6.57
44*	0-8	.25	.11	.73	6.57
50	0-8	.20	.11	.73	6.57
51*	0-8	.20	.09	.56	5.04
55*	0-8	.40	.09	.56	5.04
313*	28	.17	.30	2.16	19.50

120V. PILOT LAMPS



110-120V. pilot lights for replacements.

Stock No.	Type	Description	Watts	Each
P12257	8-0	Candelabra base	6	.16
P12210	8-6	D.C. Bayonet base	6	.26
P12211	8-6	Candelabra base	3	.25
P12242	8-6	D.C. Bayonet base	3	.35
P12280	C-7	Cone-shape frost Candelabra base	7	.14
P12275	C-7	Cone-shape clear Candelabra base	7	.12
P12272		Tubular Cand. base	4	.39

FLASHLIGHT BULBS

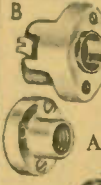
Type	Volts	Amps	Each	10 For	100 For
13	3.8	.30	.11	.73	6.57
14	2.5	.30	.11	.73	6.57
605	6.0	.50	.13	.87	7.83
225	2.2	.25	.11	.73	6.57
112	1.1	.25	.11	.73	6.57
233	2.3	.25	.11	.73	6.57
PR2	2.4	.50	.15	.99	8.91
PR3	3.6	.50	.15	.99	8.91
1446	12	.20	.15	.99	8.91

RUBBER DIAL LIGHT INSTALLER



For miniature and candelabra bulbs. P14137 **26c**

RECEPTACLES FOR NEON GLOW LAMPS



Mounting hole spacing is $1\frac{1}{4}$ " for all types except P13327 which is 2". P13387 requires $\frac{1}{8}$ " socket hole in addition to mtg. hole. P13331—Candelabra (B) **9c**
P13330—Miniature (B) **8c**
P13327—Edison (B) **14c**
P13387—Candelabra (A) **40c**

2-CONTACT CAND. BAY. METAL SHELL SOCKETS



(A) Base Mounting Type: Bakelite base with screw terminals. Size: $1\frac{1}{8}$ " x $1\frac{1}{8}$ ". P13332 **48c**
(B) Flush Mounting: Requires $\frac{1}{4}$ " hole. Mounting holes set $1\frac{1}{4}$ " apart. P13389 **29c**

JFD DUPLICATE TV REPLACEMENT BALLASTS

For replacement in television receivers listed below. Air cooled, perforated metal tubes with plug-in base. Supplied with instructions and schematic showing resistance values and use. Shpg. wt. $1\frac{1}{2}$ lbs.

Stock No.	Replacement for Make	Part No.	Each	
P6840	Belmont	B9M16534	1.32	
P6841	Belmont	B9M15822		
P6842	Belmont	B9M16067		
P6828	Belmont	B9M17571		
P6829	Belmont	B9M18941		
P6843	Emerson	397021		
P6844	Emerson	397022	1.32	
P6846	Emerson	397023		
P6830	Emerson	397036		.73
P6831	Electromatic	408100		1.32
P6849	Motorola	17A470303		
P6850	Motorola	17A485459		
P6825	Pilot	35-37		
P6852	Stew. Warn.	8W507300		
P6853	Teleone	TBR102D		
P6854	Teleone	TBR103D	1.32	
P6855	Teleone	TBR104D		

CLAROSTAT UNIVERSAL RADIO BALLASTS

Replaces all AC-DC ballasts beginning with the following letters: BK, BL, K, L, M. Plug-in type. For example: to replace a BK47G, order 23-55F. Specify Clarostat. Shpg. wt. 6 oz.

Clar. No.	Nos. From	Ending Letter	Each
23-55A	23 to 55	A, B, C, D	88c
23-55F	23 to 55	F, G, H	
60-92A	60 to 92	A, B, C, D	
82-105A	82 to 105	A, B, C, D	

JFD TV VOLTAGE REGULATORS

Maintain steadier TV pictures by keeping 110V AC or DC line voltage constant.

Automatic voltage regulating action protects your TV set. Simply plug regulator into wall outlet and TV line cord into regulator. Shpg. wt. 1 lb.

Stock No.	JFD Type No.	Watts	Each
P6834	04-4	200	1.68
P6835	04-5	250	
P6836	03-7	300	
P6838	03-8	375	

UNIVERSAL RESISTOR CORD



Replacement for all receivers. Any normally used resistance from 22 to 330 ohms on one cord. Complete instructions supplied. P6321—Shpg. wt. 8 oz. **1.21**

LINE CORD RESISTORS



Flexible, sturdy cords for AC-DC radios, field supplies, phono oscillators, etc. Ratings are at 3 amp. Av. shpg. wt. 8 oz.

No.	Ohms	No.	Ohms	No.	Ohms
P5322	135	P5324	220	P6242	310
P5331	160	P5325	250	P6326	330
P5323	180	P5329	200	P6241	350
P5330	200				

ANY OF ABOVE TYPES, EACH **82c**

3-WAY PORTABLE SET LINE CORDS
P5320—560 ohms P5319—960 ohms
EITHER ABOVE, EACH **1.21**

220V. TO 110V. LINE CORD RESISTOR



American cord with standard male plug and female receptacle. European type with foreign plug and standard receptacle. Standard 300-ohm for sets using 3 amp tubes and 50 ma. plate supply. Shpg. wt. 8 oz.

P5243	Total capacity 350 ma.	1.70
P5244	As above, but foreign	1.70
Standard	560 ohms for sets using .15 amp tubes and 50 ma. plate supply.	
P5245	Total capacity 200 ma.	1.70
P5233	As above, but foreign	1.70

PHONO MOTORS — ACCESSORIES — RECORDING ASSEMBLIES

3-SPEED PHONOGRAPH MOTORS



GI 33-1/3-45-78 RPM PHONO MOTOR

Compact, 3-speed motor with powerful 2-pole, rim drive. Lightweight construction; smooth, quiet operation. Fan cooling permits use in partially closed cabinets. Uses two identical Neoprene belts for 45 and 33-1/3 RPM speeds. 78 RPM speed obtained direct from rotor shaft. Speed is changed by simple, external lever movement. A 45 RPM record adaptor, mounting plate, 9" turntable and speed indicator dial are supplied. Size: 3 1/4" L., 2 1/4" W., 2 1/4" D. below mounting plate. For 115V., 60 cycles AC.

P22457—GI Model TS. Shpg. wt. 4 lbs. **6.90**



GI 3-SPEED PHONO MOTOR

A deluxe, 33-1/3, 45 and 78 RPM rim drive, 2-pole motor. Turntable speeds are secured through three separate pulleys running on oil-impregnated bearings and mounted on a turret plate. By means of a simple lever, the desired pulley is brought into contact with the idler wheel, while other pulleys remain stationary. Special locking device holds turret plate firmly in driving position at any speed. Supplied with 9" turntable, 45 RPM record adaptor, mounting plate and speed indicator dial. Size: 3 1/4" L., 2 1/4" W., 2 1/4" D. below mounting plate. For 115 V., 60 cycles AC.

P22645—GI Model TR. Shpg. wt. 4 lbs. **7.26**



ALLIANCE 3-SPEED MOTOR

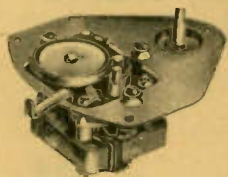
Plays 33-1/3, 45 and 78 RPM records. Turntable shaft equipped with 1 1/2" removable center disk to accommodate 45 RPM records. Speed change control permits instantaneous meshing of proper idler for desired speed. Quiet, dependable operation assured by rubber shock-mounted friction type motor. Mounting centers 4 1/2 x 3 3/4". Depth below base 4 1/2". For 110 V., 60 cycles AC. Shpg. wt. 3 1/4 lbs.

mounting plate, 2 1/4". For 110 V., 60 cycles AC. Shpg. wt. 3 1/4 lbs. List Price \$10.95.

P22458—GI Model JPTS. With 9" turntable **6.44**

DUAL & SINGLE SPEED MOTORS

GI 78 & 33-1/3 RPM PHONO MOTORS



Compact, low-cost, rim drive motor using a Neoprene belt for slow speeds. 78 RPM speed obtained direct from rotor shaft. Speed is changed by a simple external lever movement. Designed to hold wow and rumble to a minimum. Size: 3 1/4" L., 2 1/4" W., 2 1/4" D. below mounting plate. Supplied with 9" turntable and mounting plate ready for installation. For 115V., 60 cycles AC. Shpg. wt. 4 lbs.

P22571—GI Model DM. 2-Pole **6.69**

GI Model DR—Direct drive on both speeds.

4-pole motor. With 10" turntable. Size: 4 1/2" L., 5 1/2" W., 2 1/4" D. below mounting plate. **11.88**

P22572—Shpg. wt. 6 1/2 lbs.

GI SINGLE SPEED PHONO MOTORS



78 RPM rim-drive, 2-pole motor with insulation between motor and mounting plate, and motor and turntable for quiet operation. Supplied with 9" turntable and mounting plate ready for installation. Size: 3 1/4" L., 2" W., 2" D. below mounting plate. For 115V., 60 cycles AC. Shpg. wt. 4 lbs.

P22531—GI Model LX **4.44**

GI Model LX3—Similar to above except for operation at 33-1/3 RPM. P22573 **5.22**

GI 78 RPM PHONO MOTOR

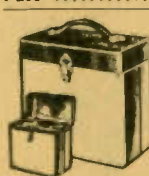


A low-priced, single speed, rim drive motor suitable for installations where size and cost are most important. Supplied with 8" turntable and mounting plate ready for installation. Size: 3 1/4" L., 2" W., 1 1/4" D. below mounting plate. For 115V., 60 cycles. Shpg. wt. 4 lbs.

P22646—GI Model LC **3.81**

3-SPEED STROBOSCOPE CARD

Easily and accurately checks turntable speed of 33-1/3, 45 and 78 RPM phono motors. For 50 and 60 cycles. **15c**



LYRIC RECORD CARRYING CASE

Stores 50 ten-inch records safely and conveniently. Extra strong steel and aluminum combined in construction to form a very light and durable case. Smooth, rounded corners and welded seams give streamlined effect and extra strength. Handy indexing system uses numbered tabs and dividers. Equipped with sturdy snap-lock fastener, rubber cushions and leather carrying handle. Finished in two-tone brown ripple enamel.

P21885—Shpg. wt. 7 lbs. **4.55**



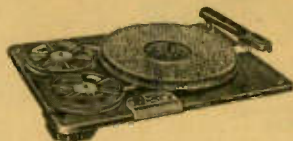
LYRIC RECORD HOLDER

Safely files fifty 10" or 12" records in only 12" of table or shelf space. Soft, red felt covers the unbreakable steel base and separators, keeping your records in perfect condition. Handy index system helps you locate any record in a few seconds. Copper plated side frames are lyre-shaped and serve as convenient handles. Supplied with stickers and index card. Shpg. wt. 4 lbs.

P21894 **2.54**

GI TAPE-DISC RECORDING ASSEMBLY

A combination tape recorder, disc recorder and playback basic unit. When connected to the proper amplifier or combined with custom installations, this unit can (1) record tape from records; (2) record discs from tape; (3) record mike on tape; (4) record radio on disc; (5) record mike on disc; (6) record radio on tape; (7) play back both tape and discs; (8) play any 78 RPM record. Tape recording features include dual track, one-hour recording time, fast forward and reverse, permanent magnet erase head. Turntable acts as flywheel, giving constant tape speed of 3 3/4" per second. Automatically shuts off at end of tape playback. No tape threading necessary. Mechanical interlock prevents accidental tape erasure. Simple to interchange cutting stylus and playback needle. Size: 12 1/4" W., 17 1/4" L., 4" D. below mounting plate. Cuts records up to 10" in diameter at 78 RPM. For 115V., 60 cycles AC.



P22633—GI Model 250. Shpg. wt. 14 lbs. **47.70**

GI 3-SPEED PHONO-RECORDER ASSEMBLY

Cuts disc recordings at 78, 45 and 33-1/3 RPM, at 160 lines/inch. Special conversion spring changes 33-1/3 RPM speed to 45 RPM. Speed changes dial quickly and easily shifts motor speed. Cuts records up to 10" diameter; plays back records up to 12" diameter. Has depth-of-cut adjustment, and dynamically balanced, rim drive, 4-pole motor. Compensating switch operated by speed change dial. Assembly includes dual speed motor with conversion spring, 10" weighted turntable, crystal cutter, crystal pickup, compensation switch and base plate. Base plate: 15" W., 11 1/4" front to back. 2 1/4" H. above base plate; 3 3/4" D. below base plate. Shpg. wt. 17 lbs.



P22459—GI Model GI-R85L-LP Basic Assembly **32.10**

REK-O-KUT 3-SPEED TRANSCRIPTION TURNTABLE

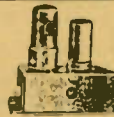
Designed for easy replacement of obsolete motors in average consoles. Professional quality turntable at an economical price. Balanced, cast aluminum 12" turntable driven by induction type motor that gives quiet, smooth, vibration-free operation. Noise level is 30 db below average recording level. Speed change from 78, 45 or 33-1/3 RPM is instantaneous, without stopping turntable or removing disc. Size: 12" L., 15" W., 1 1/2" above motor panel and 5" below motor panel. Grey hammertone finish.



P22502—Rek-O-Kut Model LP 743. Shpg. wt. 14 lbs. **54.95**

PHONO OSCILLATOR

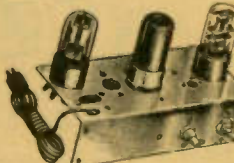
For use with all types of phonos. Compact, well-built unit tunes within broadcast band. Completely wired and ready for use. Supplied with phono jack, 117L7 tube, antenna hank, cord, plug and operating instructions. For 110V. AC-DC.



P12678—Shpg. wt. 2 lbs. **6.25**

AC-DC PHONO AMPLIFIER

Build your own record playing unit with this economical amplifier chassis. Equipped with a variable tone control and a separate volume control. Delivers two watts output. Phonograph motor connects to the amplifier. Uses 50L6, 12SQ7, and 35Z5 rectifier. For 110-120V., 60 cycles AC or 110-120 V. DC. Supplied with line cord and plug, but less tubes. Shpg. wt. 2 lbs.



P12695 **3.39**

RECORD PLAYER SWITCHES

Quickly connects record players, FM and TV attachments into the audio amplifier of radio sets. Provides changeover from radio to record players without introducing hum. Cuts out radio on phono position. Shpg. wt. 1 lb.



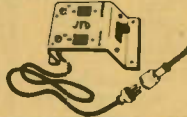
P12699 **1.09**

Same as above, but with wired tube socket adaptor for single ended 1st audio tubes such as 6SQ7 and 12SQ7.

P12692 **1.94**

RECORD PLAYER SELECTOR SWITCH

New design permits use of single audio system, or amplifier, for two separate record players, such as adding a 45 or 33-1/3 RPM player to an existing unit. Mounts on rear of cabinet — no soldering or wiring necessary. Has cable adaptor to fit either 3-pin receptacle or coax phone jack. Shpg. wt. 1 lb.



P12691 **1.79**

STANDARD RECORD ALBUMS

Attractive maroon fabrikoid covers and twelve sturdy kraft paper pockets make up this strong record album. Opens flat for easy accessibility of records. Index for record title and artist imprinted on inside cover. Shpg. wt. 2 lbs.



P21890—For 10" Records **68c**

P21891—For 12" Records **85c**

DELUXE RECORD ALBUMS

Padded covers bound with rich, brown swirl leatherette. Attractive gold embossed Gothic design on back makes this durable album especially appealing. Holds 12 records and opens flat. A set of these handsome albums will add to the appearance of your record library. Shpg. wt. 3 lbs.



P21888—For 10" Records **1.28**

P21889—For 12" Records **1.33**

PHONOGRAPH PICKUPS — CARTRIDGES

SHURE CRYSTAL PICKUPS



MODEL 93A
Standard For 78 RPM Records

Tone arm scientifically curved and balanced for faithful tracking. Lightweight, replacement pickup. Takes up to 12" records. Output level 1.6 volts. Frequency response to 6000 cps. Changeable needle with pressure of 1 1/4 oz. With Shure cartridge, Model W57A. Shpg. wt. 13 oz. **4.41**
Shure Model 93A Crystal Pickup—Less Needle. **4.41**
Shure Model 93A—Same as Model 93A except with output level of 4.3 volts. With Shure cartridge Model W56A. **5.00**



MODEL 92H
Standard For 78 RPM Records

Latest model crystal pickup with an output level of 3.5 volts. Extremely lightweight. Has a needle pressure of only 1 oz. Frequency response to 5000 cps. With Shure cartridge Model W42H. **3.23**
Shure Model 92H Crystal Pickup—Shpg. wt. 9 oz. Less Needle. **3.23**



MODEL 901D TURNOVER FOR ALL SPEEDS

Has knob for turning cartridge to either LP or standard position. Excellent reproduction of wide-range high fidelity pressings. Frequency response to 10,000 cps. Output level 1.2 volts for LP records and 1.4 volts for standard. Needle pressure only 7 grams. With Shure cartridge Model W22AB. Equipped with sapphire and osmium needles, which are replaceable. **9.55**
Shure Model 901D Crystal Pickup—Shpg. wt. 12 oz. **9.55**

MODEL 92U SINGLE NEEDLE FOR ALL SPEEDS

Appearance same as model 92H. Plays both standard and LP records with a single osmium tip needle. Output level 2 volts for LP records and 2.3 volts for standard records. Frequency response to 4500 cps. Needle pressure 8 grams. With Shure cartridge Model W66B. **5.73**
Shure Model 92U Crystal Pickup—Shpg. wt. 9 oz. **5.73**

ASTATIC CRYSTAL PICKUPS



MODEL 7D
TURNOVER PICKUP
For All Speed Records

Cast aluminum curved arm with new, tiny turnover type ACD cartridge. Arm design assures reduced tracking distortion and longer record and needle life. Output level 1 volt. Frequency range 50-6000 cps. Cartridge rotates in snap-action turnover mechanism. Needle pressure 6 grams on both sides. Exceptionally smooth response. Supplied with replaceable needles. Light brown hammerlin finish. 8 1/4" long. **9.35**
Astatic Model 7D Crystal Pickup—Shpg. wt. 12 oz. **9.35**

MODEL 6D CRYSTAL TURNOVER PICKUP



For standard and LP records. Switches from 33 1/3 or 45 RPM records to 78 RPM with turnover knob at front. 8 grams needle pressure. Range 50-7000 cps. Output level 1 volt. Curved arm finished in dark brown hammerlin. 7 3/4" long. Supplied with replaceable needles. Shpg. wt. 2 lbs. **9.35**
Astatic Model 6D Crystal Pickup. **9.35**



MODEL 507-L-82
For Standard 78 RPM Records

A carefully engineered pickup combining low cost with high performance. Ideal for compact sets. Output voltage 3.5. Frequency range 50-5000 cps. Needle pressure 2 1/2 oz. Smooth light finish arm, 7 1/4" long. Shpg. wt. 1 1/2 lbs. With needle. **3.82**
Astatic Model 507-L-82 Crystal Pickup. **3.82**



MODEL 510-CAC
For 33 1/3 & 45 RPM Records

Features new anti-resonance swivel base, 7" mounting center and permanent adjusted low needle pressure of 6 grams. Output level 1 volt. Frequency range 30-11,000 cps. Die-cast arm finished in opalescent grey. With tiny new CAC-J cartridge for slow speed records. Overall length 7 1/2". Shpg. wt. 1 1/2 lbs. With needle. **6.32**
Astatic Model 510-CAC Crystal Pickup. **6.32**



SPECIAL VALUE
CRYSTAL PICKUP

Standard crystal phono pickup for playing 78 RPM records. Curved arm provides good tracking with minimum distortion. Shpg. wt. 1 lb. **2.45**
P13530. **2.45**



CLARKSTAN PHONO NEEDLE PRESSURE GAUGE

Checks weight and balance of pickup arm from one gram to four ounces. Has two scales. Plus calibrated dial with 4:1 scale multiplier. Indispensable to the serviceman. Shpg. wt. 1 lb. **1.47**
P447. **1.47**



WEBSTER ELECTRIC CRYSTAL CARTRIDGE

2 1/2 oz. pressure; output 2.0V. Model C2—Flange mount. **2.65**

NOTE: See Rotogravure Section for GE, Audak and Pickering Cartridges.

ASTATIC CRYSTAL CARTRIDGES



FOR STANDARD 78 RPM RECORDS

Replacement units with accompanying needles for all standard makes of crystal pickups as recommended by manufacturers.

Model No.	List Price	Net Each	Needle Pressure	Output Volts	Freq. Range
CAC-78-J*	7.50	4.41	20 gr.	1.35	30-11,000
CAC-78-W-J*	7.50	4.41	20 gr.	1.35	30-11,000
AC-78*	8.90	5.23	6 gr.	1.0	50-10,000
L-26A	4.45	2.62	1 1/4 oz.	1.4	50-4,500
L-40A	4.45	2.62	1 1/4 oz.	0.6	50-4,500
M-22	5.55	3.26	2 1/4 oz.	2.9	50-6,500
B-2	5.55	3.26	2 1/4 oz.	2.5	50-4,000
B-4	5.55	3.26	2 1/4 oz.	2.5	50-4,000
401-A	4.45	2.62	2 1/4 oz.	1.4	50-4,500
L-70A	5.55	3.26	1 1/4 oz.	1.0	50-4,000
L-71A	6.65	3.91	1 1/4 oz.	1.0	50-4,000
L-72A	6.65	3.91	1 1/4 oz.	3.5	50-4,000
L-82A	5.55	3.26	2 1/4 oz.	3.4	50-5,000
L-92A	6.00	3.53	1 oz.	2.25	50-7,000
LT-1-M	7.00	4.12	3/4 oz.	1.0	50-10,000
LT-2-M	7.00	4.12	3/4 oz.	1.0	50-10,000
LT-3-M	7.00	4.12	3/4 oz.	1.0	50-10,000
QTS-3*	8.90	5.23	1 oz.	0.85	50-10,000
QT-3-M†	8.40	4.94	1 oz.	0.85	50-10,000
U-78-J*	8.90	5.23	5 gr.	0.5	30-10,000
402-M†	6.00	4.06	12 gr.	0.7	50-10,000

(Ceramic—For Admial Arms)

CARTRIDGES FOR SLOW-SPEED RECORDS

U-J*	8.90	5.23	5 gr.	0.5	30-10,000
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*With sapphire needle. †With precious metal needle.

ASTATIC TYPES "AC" CRYSTAL CARTRIDGES

Weigh approximately 5 grams. 1/2" thick, 1/2" high, 1 1/4" long, excluding pins. Exceptionally smooth response. Excellent tracking. In single stylus cartridge below. Model AC-AG-J and L-29 are for all record speeds; the others are for 33 1/3 and 45 RPM microgroove records. CAC-W-J same as CAC-J except fitted for plug-in heads.

FOR SLOW-SPEED AND 78 RPM RECORDS

Model No.	List Price	Net Each	Needle Pressure	Output Volts	Freq. Range
CAC-J*	7.50	4.41	6 gr.	1.0	50-10,000
CAC-W-J*	7.50	4.41	6 gr.	1.0	50-10,000
AC-J*	8.90	5.23	5 gr.	1.0	50-10,000
AC-AG-J*	8.90	5.23	6 gr.	1.0	50-10,000
L-29	6.00	3.53	10 gr.	3.0	50-5,000

(Needle not furnished—Screw type needle chuck)

DOUBLE NEEDLE TURN-OVER MODELS**

ACD-J*	0.50	5.59	6 gr.	1.0	50-6,000
ACD-11*(1)	0.50	5.59	6 gr.	1.0	50-6,000
ACD-22*(2)	10.00	5.88	6 gr.	1.0	50-6,000

** (0) = tip for 33 1/3 and 45 RPM; (003) = tip for 78 RPM. * Sapphire needle. (1) Same as ACD-J, with spindle for turnover knob. (2) Same as ACD-J, with turnover bracket and knob.

SHURE CRYSTAL CARTRIDGES

For 33 1/3 & 45 RPM Records

Model	Press.	Output	Resp. To	NET
W31AR†	7 gr.	2.1V	7500 cps	3.82
W53MG†	6 gr.	1.3V	8500 cps	5.00

Turndown For 33 1/3, 45 & 78 RPM Records

Model	Press.	Output	Resp. To	NET
W22A**	8 gr.	1.2V 1.4V	10,000 cps	6.17
W22AB†	8 gr.	1.2V 1.4V	10,000 cps	5.59

Single Needles For 33 1/3, 45 & 78 RPM

Model	Press.	Output	Resp. To	NET
W26A*	8 gr.	.87V 1.0V	8000 cps	5.00
W26B†	8 gr.	.87V 1.0V	8000 cps	4.41
W66B†	8 gr.	2.0V 2.3V	4500 cps	4.12

Standard Cartridge For 78 RPM Records

Model	Press.	Output	Resp. To	NET
W23B†	6 gr.	1.1V	8000 cps	4.56
W42B	1 oz.	1.3V	5000 cps	2.62
W56A	1 1/4 oz.	4.3V	6000 cps	3.91
W56R†	1 oz.	4.3V	10,000 cps	5.14
W57A	3/4 oz.	1.6V	6000 cps	3.26
W58A	1 oz.	1.6V	6000 cps	3.26
W59A	1 oz.	2.5V	6000 cps	3.26
W60A*	1 oz.	1.6V	4500 cps	5.00
W60B†	1 oz.	1.6V	4500 cps	4.41
W61B†	1 oz.	1.6V	4500 cps	4.41

*Sapphire needle. †Cutter-playback. ‡Osmium. **2 Sapphires, †1 Sapph., 1 Osmium.

REPLACEMENT CARTRIDGES

FOR WEBSTER-CHICAGO CHANGERS

Type V47—For Webster 356-1 changer. Type V42-2—For Webster 256-1 and 246 changers. **4.12**
Either Type, Each. **4.12**

RCA CARTRIDGES

Model	Pressure	Output	Each	Model	Pressure	Output	Each
31050	2.7 oz.	1.5 V.	2.47	33122	2.7 oz.	1.5 V.	2.47
37155	3	1.5 V.	2.79	33156	3	1.5 V.	2.79
33217	2.7 oz.	1.5 V.	2.47	38610	2	1.5 V.	3.26

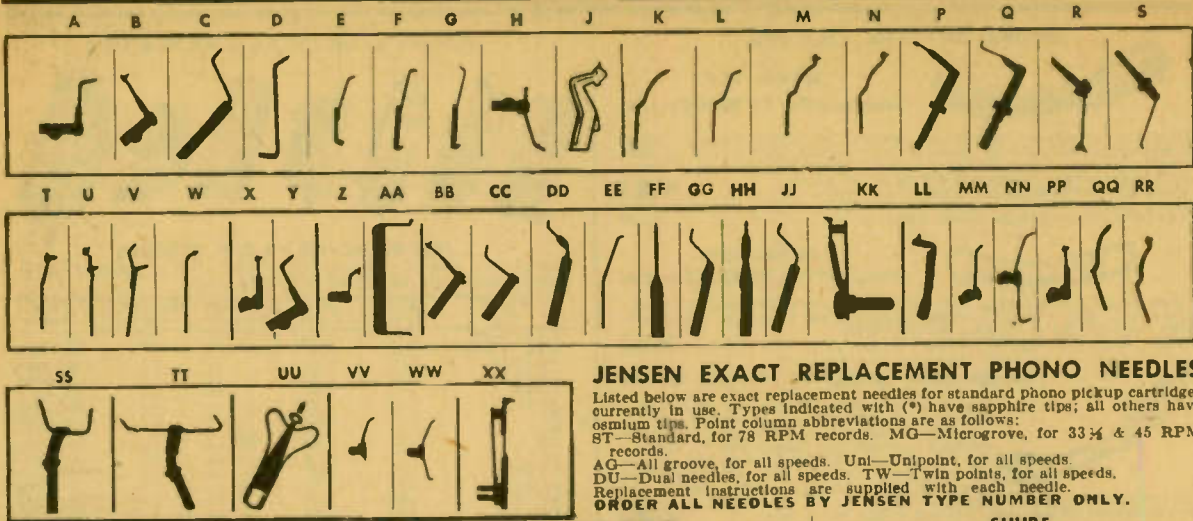
RCA MAGIC TONE CELL KIT



With "Silent Sapphire" semi-permanent jewel tip needle for high-fidelity reproduction. Output 1 1/2 volts. Includes Magic Tone Cell, sapphire jewel point and hardware. **4.12**
RCA No. 9890. **4.12**

USE OUR ORDER BLANK FOR FASTEST POSSIBLE SERVICE

PHONOGRAPH NEEDLES



JENSEN EXACT REPLACEMENT PHONO NEEDLES

Listed below are exact replacement needles for standard phono pickup cartridges currently in use. Types indicated with (*) have sapphire tips; all others have osmium tips. Point column abbreviations are as follows:
 ST—Standard, for 78 RPM records. MG—Microgrove, for 33 1/4 & 45 RPM records.

AG—All groove, for all speeds. Uni—Unipoint, for all speeds.
 DU—Dual needles, for all speeds. TW—Twin points, for all speeds.
 Replacement instructions are supplied with each needle.
ORDER ALL NEEDLES BY JENSEN TYPE NUMBER ONLY.

ASTATIC				
Type	Cartridge Number	Fig.	Point	EA.
A-80	QT3-M; QT2-M; QT3-M; LQD; LQD-1	A	ST	.59
A-80-LP	QT-33-M; CQ-M; LQD; LQD-1	A	MG	.59
A-802	CQ-AG-M; CQ-AG-J	A	AG	.59
A-81*	QT-3; Q*2-J; QT3-J; LQD; LQD-1	B	ST	.88
A-81-LP*	QT-33; CQ; J; LQD; LQD-1	B	MG	.83
A-83	LT-3D; LT-4D; LT-4D; MD	C	ST	.59
A-83-LP	LT-3D; LT-4; LT-4D; LT-4D1	C	MG	.59
A-832	LT-4-AG	C	AG	.59
A-84	GC-78-M; MG-78-M	D	ST	.59
A-84-LP	GC-M; GC-1M; MG-1M	D	MG	.59
A-842	GC-AG-M; MG-AG-M	D	AG	.59
A-86	LT-1M; LT-2M; LT-3M	C	ST	.59
A-86-LP	LT-33	C	MG	.59
A-87	MD-3	E	ST	.59
A-87-LP	MD-1	E	MG	.59
A-88	U-78-M	F	ST	.59
A-88-LP	UM	F	MG	.59
A-89*	MD-3	G	ST	.88
A-89-LP*	MD-1	G	MG	.88
A-95	AC-78; ACD Series	H	ST	.59
A-95-LP	AC; ACD Series	H	MG	.59
A-852	AC-AG-M; AC-AG-J	H	AG	.59
A-82	Nylon 1J; Nylon 1M	J	ST	.59

AUDAX				
Type	Cartridge Number	Fig.	Point	EA.
AU-50*	All L-6 & R-2 types	XX	ST	2.06
AU-50-LP*	All L-6 & R-2 types	XX	MG	2.06

COLUMBIA				
Type	Cartridge Number	Fig.	Point	EA.
M-60-LP*	45-1609	X	MG	.88
A-81-LP*	CQ	Y	MG	.88

CROSLLEY				
Type	Cartridge Number	Fig.	Point	EA.
C-99*	145749	UU	ST	1.47

JENSEN 78 RPM & LP NEEDLES

JENSEN NEEDLE PACK
 Kit contains 3 Royal Jewel and P116 needles (2 each 78 RPM, 1 each LP).
 3 Classic needles (2 each 78 RPM, 1 each LP).
 Kit of 6 needles. **6.00**

ROYAL JEWEL NEEDLE
 By Jensen
 Genuine sapphire point plays up to 10,000 sides. Offset shank reduces noise and distortion. For 78 RPM. **1.47**
 LP needle for 33 1/4 & 45 RPM records. **1.47**
 P175 Lots of 13. **15.00**

JENSEN CLASSIC NEEDLE
 Osmium alloy tip designed for brilliant reproduction of instrumental and vocal recordings. Special spring construction minimizes hiss and scratch. For 78 RPM. **83c**
 Lots of 13. **9.00**
 LP needle for 33 1/4 & 45 RPM records. **83c**
 P177 Lots of 13. **9.00**

ELECTRO-VOICE				
Type	Cartridge Number	Fig.	Point	EA.
E-90*	M12-S; H12-S; L12-S	T	ST	1.47
E-90-LP*	14-S; 22-S; 34S	U	MG	1.47
E-91*	16TT; 22TT	U	TW	2.06
E-93	16TT; 22TT	V	TW	1.47
E-95	M12; H12; L12	W	ST	.88
E-95-LP	14; 34		MG	.88
E-962	33; 33S		AG	.88

GENERAL ELECTRIC				
Type	Cartridge Number	Fig.	Point	EA.
GE-10*	RPX-040; RPX-041; RPX-046	KK		2.06
GE-10-LP*	RPX-040; RPX-041; RPX-046		MG	2.06
GE-11*	RPX-050		DU	3.50

MAGNAVOX				
Type	Cartridge Number	Fig.	Point	EA.
M-02	560101	VV	ST	.88
M-46	560133	WW	TW	1.47

PHILCO				
Type	Cartridge Number	Fig.	Point	EA.
PH-10*	Dynamic Reproducer 76-1822	LL	ST	1.11
PH-11	45-1609	MM	MG	.73
PH-12	76-4649	NN	DU	1.22
M-60-LP*	45-1609	PP	MG	.88
PH-14	35-2671	QQ	ST	.88
PH-15*	35-2671	RR	ST	1.18

RCA				
Type	Cartridge Number	Fig.	Point	EA.
M-70*	70338; 70339	P	ST	2.32
M-70-LP*	74067		MG	.94
M-71	70338; 70339	Q	ST	1.18
M-71-LP	74067		MG	.88
M-72*	72551; 9890; 39919; 39550; 38598; 70332; 39851	P	ST	2.32
M-73	72551; 9890; 39919; 39550; 38598; 70332; 39851	Q	ST	1.18
M-74*	75475	R	ST	.94
M-74-LP*	75475		MG	.94
M-75	75475	S	ST	.88
M-75-LP	75475		MG	.88

NEEDLES FOR 78 RPM RECORDS

DUOTONE SHOCKPROOF NYLON NEEDLE
 Osmium tip on steel spring set in nylon bumper. Eliminates damage to needle or record if pickup drops. For 78 RPM. 5000 plays.
P125..... 1.47

PERMANENT TYPE PHONO NEEDLES
 78 RPM sapphire Tip Needle. Guaranteed for 8000 plays. Tapered dural shaft eliminates tone distortion. Precision ground and polished point. For tone arms under 2 1/2 oz. pressure.
P117..... 59c
 Lots of 10, Each..... 50c

Ruby Jewel Tip Needle. 12,000 plays. Double bend tapered shaft absorbs shock. Diamond polished tip. For 78 RPM.
P118..... 88c
 Lots of 10, Each..... 75c

STANDARD JEWEL-TIP NEEDLES
 Duotone Durpoint. Offset type plays up to 4000 records. For 78 RPM. **59c**
 P443
 Walco Tru-Trac Sapphire point. Plays 5000 records. For 78 RPM. **88c**
 P170

SHURE				
Type	Cartridge Number	Fig.	Point	EA.
JP-30	P-30; P-57; P-70; P-72; P-74AD; P-76; P-77; P-79; P-85; P-88; P-89; P-94; PN-30; W-22AB; W-23B; W-60B; W-60HS; W-60PN; W-61B; W-65B; Admiral 409A11			
JP-30-LP	Admiral 409A11; P-73; P-74AD; P-72V; P-76V	K	ST	.88
JP-312	Admiral 409A13-1; P-71; P-81; P-37	K	MG	.88
JPS-30*	P-30; P-57; P-70; P-72; P-74AD; P-76; P-77; P-79; P-85; P-88; P-89; P-94; PN-30; W-22A; W-23A; W-30A	L	Uni	.87
JPS-30-LP*	P-73; P-74AD; P-72V; P-72V; P-76V; W-21A; W-21AR; W-22A; W-22AB	M	ST	1.47
JPS-312*	P-71; P-81; P-37	N	MG	1.47
		N	Uni	1.47

WEBSTER-CHICAGO				
Type	Cartridge Number	Fig.	Point	EA.
NE-215	21P247; 21P402; 21P403	SS	DU	1.96
NE-368	21P404	TT	DU	1.96

WEBSTER ELECTRIC				
Type	Cartridge Number	Fig.	Point	EA.
W-02	M-1	Z	ST	.88
W-05	F14; F14-1; F14-2; F14-3; F14-4	AA	DU	1.47
W-14*	A1; A8	BB	ST	1.47
W-15*	A1; A2; A3; A4; A5; A6; A8		MG	1.47
W-16	A1M; A1M-1; A5M; A6M		ST	.88
W-17	A1M; A1M-1; A2M; A5M; A6M	CC	ST	.88
W-30	Q1	DD	ST	.88
W-36	G3M	EE	ST	.88
W-36-LP	G1M		MG	.88
W-362	G2M		AG	.88
W-37	WS	FF	ST	.88
W-37-LP	AJ4		MG	.88
W-38	A9M	CC	AG	.88
W-412	Q3; A9; F-13	GG	AG	.88
W-422	Q9	HH	AG	.88
W-49	Q2	JJ	ST	.88
W-72	F16; F16-1; F16-2	CC	ST	.88
W-73	F16; F16-1; F16-2		MG	.88
W-81	F15; F15-1	CC	ST	.88
W-82	F15; F15-1		MG	.88
15-LP	F7; F7-1; F7-2; Q2; F13	GG	MG	.88
JP-30	F10; F11; F11-1	K	ST	.88
JP-30-LP	F11; F11-1		MG	.88

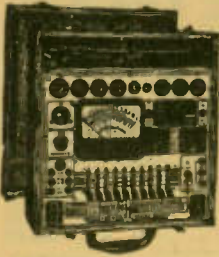
LP MICROGROVE NEEDLES
OSMIUM ALLOY TIP
 Designed for long-playing and microgrove records. 1/4" offset shank. 1/2" offset shank. **120-1 mill radius. 69c**

OFFSET SAPPHIRE & RUBY TIPS
 Good for 5000 plays. For LP and microgrove records. 3/4" offset shank. 1 mil.
P121—Sapphire point..... 89c
P122—Ruby point..... 98c
P123—Sapphire Tip Straight Needle..... 89c

PRECISION TEST EQUIPMENT

STANDARD OF ACCURACY

MODEL 654-P TUBE AND SET TESTER



A combination cathode conductance tube tester, battery and set tester with a sensitivity of 20,000 ohms/volt DC and 1000 ohms/volt AC. Tests all modern tube types including 7-pin acorns, novel 9-pin, dual cased HF tubes, FM and TV amplifiers. Absolute free point, 10 element lever selection for merit and short tests. Has dual short-check sensitivity and individual tests of multi-section tubes including tuning indicators. AC and DC Voltages: 0-12/60/300/1200/6000. DC Current: 0-120 microamps; 0-1.2/12/120 ma; 0-1.2/12 amp. 5 db ranges from -12 to +70. Ohms (all on self-contained batteries): 0-6000/600,000; 0-60 megs. Also features noise and condenser test pin jacks, pilot light test socket, dynamic "under-load" test for popular radio A, B and C dry batteries and built-in geared roller chart. Has 50 microamp, 4% rectangular meter. Instru-

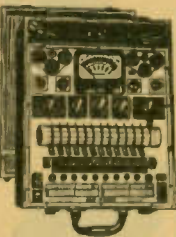
ment individually calibrated and sealed. Portable hardwood case and removable cover measures 12 x 13 x 6" and includes test leads, instructions and batteries. For 105-125 volts, 50/60 cycles AC.

Precision Model 654P—Shpg. wt. 20 lbs. **107.55**

Precision Model 612-P Tube & Battery Tester—Similar to Model 654-P described above but without set testing features. **71.05**

Precision Model 612-P—Shpg. wt. 19 lbs.

MODEL 10-54P TUBE AND SET TESTER



A complete, portable service laboratory including tube, battery and 35 range AC-DC set tester. Automatic push-button operated circuit tester with sensitivity of 20,000 ohms/volt DC and 1000 ohms/volt AC. Tests all modern tubes: novel 9-pin, 7-pin acorn, miniature, sub-miniature, hearing-aid types, etc. with direct facilities up to 12 element prongs. Roll chart included. Also features direct testing of capacitors, pilot bulbs, tuning indicators and radio batteries. AC and DC volt ranges: 0-12/60/300/1200/6000. Current ranges: 0-50/120 microamps; 0-1.2/12/1200 ma; 0-12 amps. Resistance ranges: 0-6000/600,000 ohms; 0-6/60 megs. Six db ranges from -20 to +70. 1% wirewound and metalized resistors. 4%, 50 microamp meter $\pm 2\%$. Test circuits isolated from power line. Hardwood portable case with tool compartment and hinged removable cover, 13% x 17% x 6". With ohm/volt meter batteries and high voltage test leads. Operates on 105-125V, 50/60

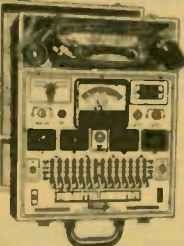
cycles AC. Shpg. wt. 25 lbs.

Precision Model 10-54P Tube & Set Tester **136.71**

Precision Model 10-12P Tube & Battery Tester. Same as Model 10-54P but less set testing features.

Precision Model 10-12P—Shpg. wt. 23 lbs. **99.71**

MODEL CR-30 CATHODE RAY TUBE TESTER



Tests all TV picture tubes, scope tubes and industrial CR types for true beam current with electron gun in operation. Checks overall electron gun performance for proportionate picture brightness as well as additional direct testing facilities for accelerating anodes and deflection plate elements. Free-point 14 lever element selection system for short check, leakage testing and quality tests. Voltage regulated bridge type VTVM. Has built-in roller tube chart and 4% meter with scale especially designed for CR tube testing requirements. Test circuits transformer isolated from power line. Complete in hardwood portable case with hinged removable cover. Size: 17% x 13% x 6". Supplied with standard picture tube cable, universal CR tube test cable and instruction manual. Has

extra-wire tool and test cable compartment. Shpg. wt. 22 lbs. **97.75**

Precision CR-30 Cathode Ray Tube Tester

MODEL E-200-C SIGNAL GENERATOR



Direct reading, 0-1000 point vernier scale with a frequency coverage of 88 kc to 120 mc on 8 bands. Individually hand calibrated and accurate to 1%. Fundamentals to 30 mc. Highly stable ECO circuit. 400-cycle sine-wave audio oscillator provides modulation and external test signal from 0-50 volts. Four types of signals: unmodulated RF, 400-cycle modulated RF, externally modulated RF and 400-cycle audio output. Supplies its own AVC voltage. Complete with shielded coaxial output cable, LOW-HIGH cable connectors, tubes and free copy of "Servicing by Signal Substitution." Black ripple finished portable steel case, 10% x 12 x 6". Operates on 110V., 50/60 cycles AC. Shpg. wt. 17 lbs.

Precision Model E-200-C Signal Generator **69.82**

MODEL E-400 SWEEP SIGNAL GENERATOR



Direct reading from 2-480 mc in 7 bands without skip. Harmonically calibrated from 240-480 mc. Narrow and wide band sweep 0 to 1 mc and 0 to 15 mc continuously adjustable. Basic circuit has high frequency beat oscillator plus reactance-modulated high frequency oscillator. Built-in multiple crystal marker-calibrator simultaneously accommodates 4 crystals individually rotary selected. 6% etched aluminum tuning dial and 1000 point vernier scale permit close calibration and simple resetting. 6-position rotary band switch covers complete spectrum. Last position provides pure crystal oscillator only; no coil switching necessary. Dual RF attenuators provide continuously variable output level control of signals. Portable copper-plated case, 10% x 12 x 6". Complete with test cable, 2 crystals (10.7 mc and 2 mc) and technical manual. Shpg. wt. 24 lbs.

Precision Model E-400 Sweep Signal Generator **131.81**

MODEL ES-500A 5" OSCILLOSCOPE



High sensitivity, wide range, voltage regulated push-pull vertical and horizontal amplifiers. Vertical deflection sensitivity .02 rms volts/in. 2 megs input resistance. Input capacity 22 mmfd. Horizontal deflection sensitivity .15 rms volts/in. 1/2 meg input resistance. Input capacity 20 mmfd. 10 cycles to 1 mc response of either amplifier. Scope has 4-way, amplitude controlled synch. selection, and internal, phaseable 60-cycle beam blanking for elimination of alignment retrace. Vertical phase-reversing switch permits inversion of all patterns; non-frequency discriminating. Also features linear sweep circuit 10 cycles to 30 kc plus line or external sweep. "Z" axis modulation for blanking, timing, etc., sweep phasing control and audio monitoring phone jacks at rear. Uses 3CP1/A CR tube. Light shield and mask removable and rotatable. Black ripple heavy gauge steel portable case 8% x 14% x 18". Complete with CRT tube, light shield, calibrating mask and instruction manual. Shpg. wt. 44 lbs.

Precision Model ES-500A Oscilloscope **166.11**

MODEL 85 HIGH SENSITIVITY TEST SET

Compact, 34 range VOM with sensitivity of 20,000 ohms/volt DC and 1000 ohms/volt AC. DC and AC volt ranges: 0-3/12/60/300/1200/6000. DC current ranges: 0-120 microamps; 0-1.2/12/120 ma; 0-1.2/12 amps. Resistance ranges: 0-6000/600,000 ohms; 0-6/60 megs. 6 db ranges from -28 to +70. 4% rectangular, 50 microamp meter has an accuracy of 2%. Uses 1% wire and film-type precision resistors. All standard functions are at the two tip jacks. Molded bakelite carrying case with plastic handle measures 5% x 7% x 3". The heavy gauge, etched aluminum panel is anodized for protection against moisture and wear. Complete with ohmmeter batteries and test leads. Shpg. wt. 5 lbs.

Precision Model 85 Test Set **39.15**

MODEL 80 WIDE RANGE TEST SET

Similar to Model 85 except has a sensitivity of 1000 ohms/volt on both DC and AC. Volt ranges: 0-6/12/60/300/1200/6000. Current ranges: 0-6/60/300 ma and 0-1.2/12 amps. Resistance: 0-1000/100,000 ohms; 0-1/10 megs. 6 db ranges from -20 to +70.

Precision Model 80 Test Set—Shpg. wt. 5 lbs. **33.81**

LC-1 Leather Instrument Case—Designed for Model 85 and 80 Test Sets. Genuine top-grain heavy cowhide with waterproof lined suede interior. Adjustable hand or shoulder strap. Positive snap-lock. Includes a tool and test lead compartment. Dark brown.

Precision LC-1 Case—Shpg. wt. 3 lbs. **9.31**

MODEL EV-20 VTVM AND TEST SET

High sensitivity, laboratory type circuit testing instrument with true zero center on all VTVM ranges, direct reading high frequency scales and complete standard 1000 ohms/volt functions. Constant input resistance 13% meg. All-zero center VTVM ranges: ± 3 , ± 12 , ± 30 , ± 120 , ± 300 , ± 1200 volts. Resistance ranges: 0-2000/200,000 ohms; 0-2/20/200/2000 megs. Direct reading HF VTVM ranges: 0-3/12/30/120 volts (requires RF-10A Probe described below), AC-DC and output voltage ranges at 1000 ohms/volt: 0-3/12/30/120/300/1200. DC current ranges: 0-300 microamps; 0-1.2/3/12/30/120/1200 ma; 0-12 amp. 6 db ranges from -20 to +68. Voltage regulated bridge circuit. Uses two 1.5 volt cells, easily replaced at rear of cabinet. Black ripple finished steel cabinet, 10% x 6% x 5", has plastic handle and etched, anodized aluminum panel. Complete with test leads, batteries and instructions. Shpg. wt. 11 lbs.

Precision Model EV-20 VTVM and Test Set **66.88**

MODEL RF-10A VACUUM TUBE RF PROBE

For EV-20 Test Set

Connects directly to VTVM panel and provides direct high frequency voltage measurements. Includes 9002 miniature tube. Shpg. wt. 2 lbs.

Precision RF-10A RF Probe **14.11**

OTHER PRECISION TEST EQUIPMENT

MODEL 40 WIDE RANGE CIRCUIT TESTER—31 range AC-DC test set, self-contained to 6000 volts, 600 ma, +70 db, 5 megs, 1000 ohms/V. 3" rectangular meter in bakelite case with handle. 3% x 6% x 2 1/2". With batteries and test leads.

Precision Model 40—Shpg. wt. 3 lbs. **25.72**

MODEL LC-2 INSTRUMENT CASE—Genuine top-grain heavy cowhide case especially designed for Model 40 test set. Compartment for tools and test leads. Finished in dark brown.

Precision Model LC-2—Shpg. wt. 2 lbs. **5.63**

MODEL 858-P DUAL SENSITIVITY MULTIMETER—20,000 and 1000 ohms/volt DC and 1000 ohms/volt AC. 54 ranges to 6000 volts, 60 microamps, 12 amps, 600 megs, -70 db. Hardwood portable case 9 x 10 x 4 1/2". With ohmmeter batteries and high voltage test leads.

Precision Model 858-P—Shpg. wt. 8 lbs. **58.55**

MODEL EV-10AP VTVM-MEGOHMMETER—True zero center VTVM with 7" full-view meter. Four direct reading high frequency scales (requires RF-10A probe described above). Has standard 1000 ohms/volt functions. Ranges to 6000 volts, 2000 megs, 12 amps, +77 db. In hardwood portable case, 12 x 13 x 6". With tubes, battery and test probes.

Precision Model EV-10AP—Shpg. wt. 18 lbs. **95.30**

WORLD HEADQUARTERS FOR ALL RADIO NEEDS

HICKOK TEST EQUIPMENT

HICKOK 195B 5" OSCILLOGRAPH



Has big 5" screen, extra high gain vertical amplifier, sinusoidal sweep circuit and recurrent linear sweep, 10-25,000 cycles. Also has blanking circuit and phasing control. Vertical deflection sensitivity .015 volts RMS/inch; horizontal .15 volts RMS/inch. Vertical amplifier 2 cycles to 1 mc; horizontal amplifier 10 cycles to 50 kc. Input impedance, vertical: 1 meg, 25 m μ ; horizontal: 4 meg, 35 m μ . All input terminals at front of panel for convenience. Scope tube cradled in rubber; calibrated screen. Blue hammertex steel cabinet with metal handle, 8-5/16x18 1/2x13". For 105-125V., 50/70 cycles AC. Complete with tubes. Hickok Model 195B—Shpg. wt. 30 lbs. **169.50**

HICKOK 610A TV ALIGNMENT GENERATOR



Universal model TV generator replaces separate sweep generator, marker generator and crystal calibrator used in ordinary TV testing. Supplies signal to visually align a TV set to any of 12 channels from 44-216 mc. directly calibrated on dial and readable to .5% accuracy. Variable sweep width 0-15 mc. Sweep frequency ranges: 0-40 mc, 37-75 mc, 75-115 mc, 150-230 mc. Sweep deviation 0-1.5 and 0-15 mc. Self-calibrated directly on dial to .08 mc. Separate crystal oscillator (4.5 mc crystal supplied). Standby switch shuts off all B+ so tube filaments can be kept on.

Output voltage: 75 maximum. Blue hammertex finish case with satin finish panel 14x16 1/2x8". For 105-125 V., 50/60 cps. Hickok Model 610A Generator—Shpg. wt. 31 lbs. **219.00**

HICKOK 292X MICROVOLT SIGNAL GENERATOR



Covers all TV channels and mobile band frequencies—on fundamentals, with an accuracy of 1%. Fundamental frequency coverage: Bands A through G, 125 kc to 120 mc; Band H, 150-220 mc. Modulated and unmodulated output calibrated from .2 to 100,000 microvolts. Self-contained crystal oscillator circuit has front panel jack permitting crystal outputs from 250 kc to 20 mc on fundamentals; and to 250 mc on harmonics. 1 mc crystal supplied. Modulation fixed at 400 cycles. AF output 0-2 volts at 400 cycles. Wired for optional plug-in type crystal (152-162 mc) for mobile band coverage. May be externally modulated from 15-10,000 cps. Self-contained modulator. For 115V., 50/60 cycles. DB meter (-10 to +38 db in 3 ranges). Blue lacquered steel case, 14x16 1/2x8"; satin chrome panel. Shpg. wt. 30 lbs.

Hickok Model 292X Signal Generator. **266.00**

HICKOK 209A LABORATORY VTVM



Measures any resistance, capacitance, AC, IF and RF voltages from 30 cycles to 300 mc; DC voltages, RMS and peak-to-peak voltage found in radio receivers. DC ranges have both zero left and zero center scale for discriminator alignment. AC and DC volt ranges: 0-3/12/30/120/300/1200. Capacity: 0-10,000 m μ fd in 2 ranges, 0-1000 m μ fd in 5 ranges. Input impedance 15 megs DC, 12 megs/6 m μ f AC-DC current: 0-3/12/30/120/300/1200 ma. Inductance 50 mh to 100 by use of conversion chart. Resistance 1 ohm to 10,000 ohms. Metal cabinet of blue hammertex. 14x16 1/2x8". Satin finish panel. For 105-125 volts, 50/70 cycles AC. Complete with high frequency probe, leads, tubes and batteries. Hickok Model 209A VTVM—Shipping weight 25 lbs. **132.50**

Hickok Model PR30A PROBE—Voltage multiplier probe extends range of Model 209A VTVM to 30,000 volts DC. **11.90**

HICKOK 533B TUBE & SET TESTER



Complete all-purpose tube and set tester. Provides dynamic mutual conductance circuits for testing the latest tubes—including TV and sub-miniature—under operating conditions. Scale reads directly in micromhos—important for accurate check of TV receiver tubes. 5" meter has REPLACEMENT GOOD indicated on scale. Roll chart lists all tubes. AC and DC volt ranges: 0-20/200/500/1000/5000. AC sensitivity 1000 ohms/volt; DC sensitivity 20,000 ohms/volt. Resistance .1 ohm to 100 megs in 3 ranges. DC current: 0-5/20/200 ma; 0-50 microamps. Capacitance .0001 to 150 m μ f. Leakage tests for electrolytic and paper capacitors. Checks inductance to 100 by db; db from -10 to +50. Portable case covered in durable black leatherette. Hinged cover can be removed. Size: 10 3/4"W., 18 1/2"L., 7 1/4"D. For 110-130 volts, 50/60 cycles AC. Shpg. wt. 34 lbs. **195.50**

Hickok Model 533B Tube & Set Tester. **195.50**
Model 533AP—As above, but with 4" meter and less set testing features. **168.00**

NEW HICKOK 215 VTVM



Latest design vacuum tube voltmeter provides sensitivity and ranges for quick, accurate measurements of sine or complex waves of TV or industrial devices. New dual-purpose, single unit AC-DC probe with built-in switching arrangement provides an input impedance of 10 megs on DC, and 30 megs shunted by 150 m μ f on AC. AC and DC volt ranges: 0-1.5/3/12/30/120/300/1200. 7 ranges AC RMS; 7 ranges peak-to-peak (3200 volts maximum). Ohms: 0-1/10/100/1000/10,000/100,000/1 meg. Frequency characteristics flat from 40 cps to 3.5 mc. Zero center for discriminator alignment and other galvanometer applications. Accuracy \pm 3% DC; \pm 5% AC. 5" meter. Insulated, unbreakable case, 5 3/4"W., 8 1/2"H., 4 1/4"D. For 105-125 V., 50/60 cycles AC. With dual probe, ohms lead and probe, and ground lead. Shpg. wt. 10 lbs. Hickok Model 215. **67.50**

HICKOK 450 HIGH SENSITIVITY VOM



Thinnest instrument of its kind! A rugged and dependable volt-ohm-milliammeter with a sensitivity of 20,000 ohms/volt DC and 5000 ohms/volt AC. Large 5" lucite meter case provides increased readability and safety from cracked glass. AC and DC volt ranges: 0-2.5/10/50/250/1000/5000. DC current ranges: 0-2.5/10/50/250/1000 ma; 0-50 microamps; 0-10 amps. 5 db ranges from -30 to +55. Ohms: 0-1000/10,000/1 meg/100 meg in four ranges with center scales of 5-50-500-5000 ohms respectively. Insulated, unbreakable case 5 3/4"W., 8 1/2"H., 2 1/4"D. With test leads and batteries. Hickok Model 450—Shpg. wt. 4 lbs. **46.50**

OTHER HICKOK TEST EQUIPMENT

HICKOK MODEL 288X Crystal Controlled Signal Generator	188.00
HICKOK MODEL 505-A 5" Oscillograph	199.50
HICKOK MODEL 640 5" Oscillograph	355.00
HICKOK MODEL 538 Mutual Conductance Tube Tester	226.00
HICKOK MODEL 539A Mutual Conductance Tube Tester	274.50
HICKOK MODEL 600A Mutual Conductance Tube Tester	155.00
HICKOK MODEL 630 TV Voltage Calibrator	87.50
HICKOK MODEL 650 TV "Videometer" Signal Tracer	310.90
HICKOK 34 Crystal Demodulator Probe	9.80

RADIO CITY PRODUCTS TEST EQUIPMENT

RCP MODEL 807 TUBE AND SET TESTER



Extreme free point flexibility permits any socket terminal to be used for any tube element and allows detailed open short-leakage tests of each element as well as filament-heater continuity tests. 10 lever switches take care of every receiving tube now made. Two spare lever switches are also provided for future additions. Built-in roll chart covers 1000 tube listings. Has new 8-prong sub-miniature socket, and neon lamp indicator. DC and AC volt ranges: 0-10/50/500/1000/2500. DC current: 0-10/100/1000 ma; 0-10 amps. 4 db ranges from -8 to +55. Resistance: 0-500/5000 ohms: 0-0.1/1/10/100 megs. Also tests paper, mica and electrolytic capacitors for leakage. Hand-rubbed wood hinged cover, 12 1/2x12 1/2x4 1/4". Supplied carrying case with removable test leads and batteries. Shipping weight 16 lbs. Radio City Products Model 807 Tube & Set Tester. **75.41**

RCP Model 323PC—Portable tube tester only, less set testing features. **57.77**

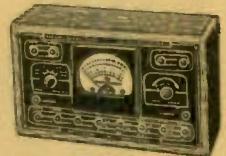
RCP Model 323C—Counter model tube tester in open metal case. **53.85**

RCP MODEL 8773 SERVISHP



Equivalent to a complete service shop. Includes Model 807 combination tube and set tester, AM, AF and FM generators and condenser radio service shop that needs an economical, yet complete set of test equipment. Tests miniature, novel base and sub-miniature tubes, measures AC and DC volts, DC milliamperes and amps, ohms, db, output volts and capacitors. Housed in attractive natural finish oak case, 16 1/2x12 1/2x5 1/4". Supplied complete with tubes, batteries and test leads. Shipping weight 22 lbs. Radio City Products Model 8773 Servishop. **97.95**

MODEL 447B MULTITESTER



Here is an exceptional value for a low-priced AC-DC multitester. DC volt ranges: 0-5/50/250/500/2500. AC volts: 0-10/100/500/1000; output volts the same as AC. DC current: 0-1/10/100/1000 ma; 0-1/10 amps. Resistance: 0-10,000 ohms; 0-1 meg. DB meter from -8 to +55. Has 3" square meter with accuracy of 2%. Open face hardwood case, 5x8 1/2x3". RCP Model 447B—Shipping weight 2 lbs. With batteries **17.59**

RCP Model 447BP—Same in portable case, 6 1/2x8 1/2x4 1/2". **21.51**

OTHER RADIO CITY PRODUCTS TESTERS

RCP Model TV-90 Oscilloscope & Sweep Generator	144.55
RCP Model 706A "Wide Range" Signal Generator	66.15
RCP Model 654 Vacuum Tube Voltmeter	56.35

ELECTRONIC DESIGN VTVM



Extreme care in matching and selection of component parts has resulted in a test instrument of unusually high quality. DC volt ranges: 0-3/10/30/100/300/1000 at constant input resistance of 11 megs. AC volt ranges: 0-10/30/100/300/1000. Sensitivity 1000 ohms/volt with accuracy of \pm 5%. Electronic ohmmeter ranges: 0-1000/10,000/100,000/1,000,000 ohms; 0-1/10/1000 megs. Portable style metal case with strap carrying handle. Size: 9 1/2x6 1/4x4 1/4". Operates on 110-120 volts, 50/60 cycles AC. Supplied complete with signal tracer probe, test leads and batteries. Shipping weight 11 lbs. Electronic Design Model 100 VTVM. **47.50**

Electronic Design PR9 Ediprobe—Use with any VTVM. Permits use of high resistance DC scale to measure RF voltages with response of 60 cycles through 100 mc without loading circuit. Shipping weight 2 lbs. **7.00**

RCA and SIMPSON TEST EQUIPMENT

RCA MODEL WV-97A SENIOR VOLTOHMYST



This latest model features a full-wave, high impedance, high frequency rectifier to measure directly the peak-to-peak voltage of waveforms up to 2000 volts with frequency response flat to 3 mc. It measures DC voltages from .02 to 1500, and rms values of sine-wave voltages from .1 to 1500. Has 7 non-skip ranges for resistance and voltage measurements. Basic circuit is a push-pull DC amplifier bridge with inverse feedback giving excellent linearity, stability and 11 meg. input impedance. Meter designed to read the AC component of a signal when DC is present and vice versa. DC volts: 0-1.5/3/15/50/150/500/1500. AC rms volts to 1500; AC peak-to-peak to 4200 volts. Ohmmeter: 7 ranges 0-1000 meg. Overall accuracy on DC $\pm 3\%$; on AC $\pm 5\%$. Blue-gray hameroid case with handle and satin-aluminum panel. 7 3/4" H., 5 1/2" W., 4 1/4" D. Supplied with tubes, WG-218 direct probe and cable, WG-217 DC probe, ohms lead and probe.

RCA Model WV-97A—Shipping weight 10 lbs. **67.50**

RCA WG-264 DEMODULATOR PROBE



Popular crystal probe for use with WV-97A. Extends range to 250 mc and also from 20 mv to 20 volts rms in the presence of DC voltages up to 250.

RCA WG-264—Shpg. wt. 1 lb. **7.75**

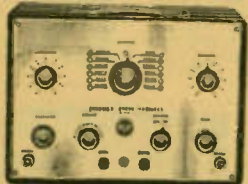
NEW RCA MODEL WV-77A JUNIOR VOLTOHMYST



A popular test instrument back again at an amazing low price. Has all the features of its famous predecessor plus greater voltage ranges, wider frequency response, high overall accuracy and complete electronic operation. AC and DC volt ranges: 0-3/12/60/300/1200. Zero centering facilities for discriminator alignment. Can be used even with AC present. Uses 1 meg resistor in isolating probe with less than 2 mmf input capacitance. Excellent for making measurements in AVC, bias, oscillator and other high impedance circuits. DC polarity reversing switch eliminates need for reversing test leads. High impedance vacuum tube diode used as signal rectifier. Flat frequency response 30 cps to 3 mc (50 kc to 250 mc when used with WG-264 accessory probe described above), more than adequate for power line, audio and ultra-sonic frequencies. Measures AC in presence of DC. High input resistance on all ranges—11 meg for DC; 2-2 meg for AC. Ohmmeter readings from .2 ohms to 1000 meg in five ranges. Center scale values 10, 1000, 10,000 ohms; 1 meg and 10 meg. Uses only one 1 1/2-volt battery. Safely measures continuity of low-power devices such as filament accuracy receiving tubes. Carbon-film 1/2 multiplier resistors give instant accuracy and dependability. Also features negative-feedback bridge circuit. Durable 4 1/2" plastic meter case set in completely shielded metal case. 200-microamp meter movement. Supplied complete with tubes, battery, probes, cables and instruction booklet. Size: 8" H., 5 1/2" W., 4 1/4" D. Shpg. wt. 6 lbs.

RCA Model WV-77A Junior VoltOhmyst **47.50**

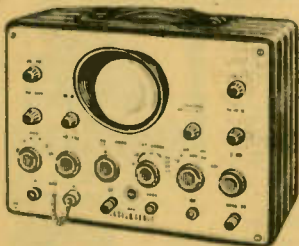
RCA WR-59B TV SWEEP GENERATOR



Designed for the TV serviceman who does aligning and general servicing of TV and FM receivers. Gives continuous IF coverage from 300 kc to 50 mc, plus continuously variable sweep right up to 10 mc. Provides means for inspecting and adjusting video amplifiers, discriminators and all picture and sound IF amplifiers. Preset switch positions for TV channels 2-13. Flat output within ± 1.5 db even at maximum sweep width. Fundamental oscillator output on all TV channels; filtered beat-frequency fundamental output on IF/VF range. Output voltage range (rms) 1 volt to 5 microvolts. Maximum attenuator ratio: 20,000 to 1 on RF ranges; 4000 to 1 on IF ranges. Zero-voltage reference line provided by return trace blanking. Blue-gray hameroid finish steel case, 10" H., 13 1/2" W., 7 1/4" D. Complete with tubes, IF/VF output cable, RF output cable, power cord and instruction book. For 105-125 volts, 60 cycles AC.

RCA WR-59B—Shipping weight 35 lbs. **274.50**

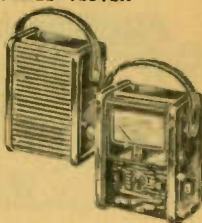
NEW RCA WO-57B 3" OSCILLOSCOPE



Built to handle every TV and radio service job. Features a direct coupled, 2 stage push-pull vertical amplifier with a deflection sensitivity of 30 mv RMS/inch. Horizontal amplifier .6 volts RMS/inch. Frequency response flat within ± 1.2 db from DC to 500 kc; within ± 3.5 db at 1 mc; useful beyond 2 mc. High frequency square-wave response up to 100 kc. Sweep circuit frequency range 15-30,000 cps. Has probe fixed sweep positions for viewing vertical and horizontal sync pulses and sweep oscillator waveforms. Positive and negative synchronizing provide easy "lock-in" of upright or inverted pulse forms. Sweep reversal switch for left-to-right or right-to-left traces. 60-cycle horizontal deflection voltage is obtained internally and can be adjusted by the phase control. Blue-gray hameroid finish steel case with carrying handle, 10" H., 12 1/2" W., 7 1/4" D. Supplied with all tubes. CR shield, probes, leads and instructions. For 105-125V., 60/60 cycles.

RCA WO-57B Oscilloscope—Shipping weight 20 lbs. **145.00**

SIMPSON MODEL 260RT PORTABLE TESTER



An accurate, high sensitivity VOM for radio and TV use. Has a sensitivity of 20,000 ohms/volt DC and 1000 ohms/volt AC. Provides DC current readings as low as 2 microamps. Resistance readings can be made to 20 meg and as low as 1/5 ohm. Measures automatic frequency control diode balancing circuits, grid currents of oscillator and power tubes, bias of power detectors, AVC diode currents, high-mu triode plate voltage and others. A C and DC volt ranges: 0-2.5/10/50/250/1000/5000. DC current: 0-100 microamps; 0-10/100/500 ma.; 0-10 amps. Ohms: 0-2000; 0-200,000; 0-20 meg. 5 db ranges from -12 to +65. A flick of the finger rolls the top up around the heavy molded bakelite case. Size: 6 1/2" x 4 1/4". With test leads, batteries and manual.

Simpson Model 260RT—Shipping weight 9 lbs. **45.96**
Simpson Model 260—Same without roll top case. Wt. 5 lbs. **38.17**
Simpson Model 1-111818 Leather Carrying Case—For Model 260 **6.61**
Simpson Model 10-890007 High Voltage Probe—25,000V.—For Model 260 **9.75**

SIMPSON MODEL 303 VTVM



Can be used as an electronic DC voltmeter, an ohmmeter, an AC voltmeter, and AF voltmeter, and RF voltmeter (with accessory probe), an output meter and an FM indicator. DC and AC volt ranges: 0-1.2/12/60/300/1200. Ohms: 0-1000/100,000/1 meg/10 meg/1000 meg. AF volt ranges: 0-1.2/12/60. 5 db ranges from -20 to +63. Input resistance 10 meg for all ranges (DC probe has 1 meg isolating resistor). AC impedance 200 mmf shunted by 275,000 ohms. AF response flat to 100,000 cycles. Has polarity reversing switch, and zero center galvanometer for FM discriminator alignment and other applications. Bakelite case: 5 1/2" x 7 3/4". For 105/125 V., 50/60 cycles. With probes, ground lead and manual.

Simpson Model 303—Shpg. wt. 6 1/2 lbs. **57.57**
Simpson Model 303RT—Same with roll top case **65.37**

ACCESSORY PROBES

Simpson Model 10-890074 High Voltage Probe—Reads to 30,000V. **9.75**
Simpson Model 10-890073 High Frequency Crystal Probe **7.35**

SIMPSON MODEL 476 "MIRROSCOPE"



New principle of oscilloscope design mounts the 5" cathode ray tube in vertical position, thus reducing bench space requirements to 9 1/2". Cathode ray image is reflected from high grade mirror mounted in adjustable cover at top of cabinet. Mirror angle can be easily and quickly adjusted to any position convenient to the operator. Upright construction permits better layout of controls and allows for internal cathode ray tube connections at the front instead of rear. Sensitivity: vertical amplifier 20 mv RMS/inch; horizontal amplifier 38 mv RMS/inch. Input impedance: vertical amplifier 3 meg at 15 mmf; horizontal amplifier 5 meg at 15 mmf. Linear sweep frequency 15-60,000 cycles, continuously adjustable in five overlapping ranges. Horizontal trace expansion is over four times tube diameter. "Z" axis modulation. 14 volts peak, blank normal trace. Vertical amplifier response 20-300,000 cycles ± 3 db. Size: 18 1/4" H., 9 1/4" W., 8" D. For 105-125 volts, 50/60 cycles AC.

Simpson Model 476—Shipping weight 30 lbs. **175.91**
SIMPSON HIGH FREQUENCY CRYSTAL PROBE—For extending range of the Model 476 "Mirroscope" described above. **7.35**

OTHER SIMPSON TEST EQUIPMENT

SIMPSON MODEL 240 "HAMMETER" VOM **25.82**
SIMPSON MODEL 479 TV-FM SIGNAL GENERATOR **263.62**
SIMPSON MODEL 480 FM-TV GENESCOPE **387.10**
SIMPSON MODEL 488 FIELD STRENGTH METER **87.71**
SIMPSON MODEL 555 TUBE TESTER **77.91**

RCA HIGH VOLTAGE PROBES



Measure DC voltages up to 50 kv in high resistance circuits with your present VOM or VTVM. Low-loss polystyrene body with 0" leakage path to ground. Anti-corona probe tip and grounded air-over protection haffle. Has insulated grip, fully shielded cable and separate ground lead. Multiplier resistor is completely enclosed. Probes are supplied less resistor. See listing below for resistors.

RCA WG-289—For VOMs with mike-type terminals. **7.15**
RCA WG-290—For VOMs with phone-tip terminals. **7.15**
RCA HV PROBE GUIDE—Shows correct multiplier to be used with meters of various manufacturers. P-19700 **FREE**

RCA MULTIPLIER RESISTORS

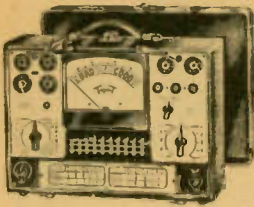
WG-206—1090 megs WG-208—400 megs WG-210—900 megs
WG-207—991 megs WG-209—180 megs Net, Each **2.80**

OTHER RCA TEST EQUIPMENT

RCA MODEL WR-39C TV CALIBRATOR **242.50**
RCA MODEL 162-C RIDER CHANALYST **162.50**
RCA MODEL WG-263 CRYSTAL PROBE—For above Chanalyst **8.85**
RCA MODEL WO-56A 7" OSCILLOSCOPE **217.50**
RCA MODEL WO-79B 3" OSCILLOSCOPE **550.00**
RCA MODEL WV-84A DC MICROAMMETER—Less Batt. **100.00**

TRIPLETT TEST EQUIPMENT

TRIPLETT 3413-A TUBE TESTER



Latest model tube tester provides conclusive tube tests for value, inter-element shorts or leakage. Neon short test shows slightest inter-element short or leakage while cathodes are hot. New 3-position lever switches give individual control for each tube element. Also provides short and continuity test for appliances, motors, etc. Tests all receiving types, gaseous rectifiers, resistor and ballast tube continuity, and pilot lamps. Full range of filament voltages from 63 to 110 volts in 14 steps. 8" Red Dot lifetime guarantee meter. Illuminated roll chart. Line voltage indicator for checking line fluctuations. Complete in counter-portable metal case with removable hinged cover; baked-on black enamel finish. 15 1/2" x 11 1/2" x 6 3/4". For 115V., 50/50 cycles.

Triplett Model 3413-A—Shipping wt. 22 lbs. **77.91**

TV & CRO TUBE TESTER ADAPTOR



Tests TV picture and CRO tubes for shorts, opens, filament continuity and value. Plugs into octal socket of Triplett Models 3413-A, 3413, 2413, 3212 and 3480. A valuable addition to your tube tester. Shpg. wt. 1 lb.

Triplett Model BV Adaptor **7.74**

TRIPLETT 630 MULTITESTER



Dual, high sensitivity multitester: 20,000 ohms/volt DC, 5000 ohms/volt AC. DC and AC volt ranges: 0-3/12/60/300/1200/6000. DC current: 0-60 microamps; 0-1.2/12/120 ma; 0-12 amps. Resistance: 0-1000/10,000 ohms; 0-1 meg/100 meg with center scales of 4.4/44/440,000/440,000 ohms. Six direct reading db ranges from -30 to +70. Capacitor in series with AC volt ranges. Single rotary switch. Black molded plastic case, 3 1/2" x 5 1/2" x 7 1/2". Complete with batteries and test leads.

Triplett Model 630—Shpg. wt. 6 lbs. **38.71**

MODEL 630A LAB MULTITESTER

Similar to Model 630 described above but designed for laboratory use. Accurately calibrated, mirrored scale for taking readings with an accuracy of 1%. Special 1/2 of 1% resistors used. Black molded bakelite case supplied with batteries and leads.

Triplett Model 630A **48.51**

TRIPLETT CARRYING CASES

Model 669—For Models 666R and 660HH Multitesters. Black leather with strap handle and snap cover. **5.39**
 Model 629—For Model 625NA Analyzer. Black leather. **6.37**
 Model 639—For Model 630 Multitester. Black leather. **8.33**

TRIPLETT 666R POCKET-SIZE VOM

A compact, volt-ohm-milliammeter featuring selector switch of unit construction—all resistors, shunts, rectifier and batteries housed in a molded base integral with switch. Sensitivity: 1000 ohms/volt on DC and AC. DC and AC volt ranges: 0-10/50/250/1000/5000. DC current: 0-10-100 ma; 0-1 amp. @ 250 mv. Resistance: 0-3000/300,000 ohms (center scale 20/2000); 0-3 megs (center scale 20,000 ohms). 3" lifetime guaranteed 0-20 microamp meter. Completely insulated black molded case, 3-1/16x5-7/8x2-9/16". Black molded panel has engraved white markings. Supplied with batteries, 50" test leads and instruction book.

Triplett Model 666R—Shpg. wt. 3 lbs. **25.97**

Model 666RL—Same as 666R but fastened in special black leather case with strap handle. Can be hung up and used with case open. **31.85**



TRIPLETT 666-HH MULTITESTER

Similar to Model 666R described above except for following differences in ranges: 0-10/100 ma and 0-2000/400,000 ohms. Has no megohm or DC amp ranges. All normal functions available from two banana jacks with a special 5000V. jack. Supplied complete with batteries, 50" test leads, clips and plugs.

Triplett Model 666-HH **24.01**

TRIPLETT 625-NA VOM ANALYZER

6" lifetime guaranteed meter with 5" long mirror scale. Dual sensitivity on DC volt ranges. DC volts @ 20,000 ohms/volt: 0-1.25/5/25/125/500/2500; 0-2.5/10/50/250/1000/5000 @ 10,000 ohms/volt. AC volts @ 10,000 ohms/volt: 0-2.5/10/50/250/1000/5000. DC current: 0-1/10/100/1000 ma; 0-50 microamps; 0-10 amps. Resistance: 0-2000/200,000 ohms; 0-40 megs. 7 db ranges from -30 to +60. Insulated, black molded case with removable strap handle, 2 1/2" x 5 1/2" x 4". Batteries, leads and instructions supplied.

Triplett Model 625-NA—Shpg. wt. 5 lbs. **48.51**



TRIPLETT EXTERNAL PROBES FOR HV TEST

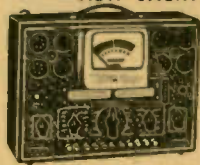
Model T79-68—0-12,000V. DC for Models 630 and 630-A. **14.21 ea.**
 Model T79-69—0-12,000V. AC for Models 630 and 630-A.
 Model T79-70—0-30,000V. DC for Models 630 and 630-A.
 Model T79-71—0-30,000V. AC for Models 630 and 630-A.
 Model T79-83—0-10,000V. DC for Model 625NA.
 Model T79-74—0-10,000V. AC for Model 625NA.
 Model T79-75—0-30,000V. DC for Model 625NA.
 Model T79-76—0-30,000V. AC for Model 625NA.

OTHER TRIPLETT TEST EQUIPMENT

Model 2405-A Volt-Ohm-Milliammeter (20,000 ohms/volt) **68.11**
 Model 3434-A TV-FM Sweep Signal Generator **185.71**
 Model 3435 TV-FM Sweep Signal Generator **112.21**
 Model 1235 TV-IF Absorption Marker **29.81**
 Model 1236 TV-IF Crystal Marker **24.01**
 Model 3432 Test Oscillator **77.91**
 Model 3441 5" Oscilloscope **195.49**

JACKSON ELECTRIC TEST EQUIPMENT

NEW JACKSON CHALLENGER TUBE TESTER



Uses dynamic test principle which applies separate element voltages to each tube element. Simulates actual operating conditions. Features high voltage power supply. Switching system provides spare circuits, switch and socket positions for future use. Simplified operation uses push-button and selector-switch controls. Tests all tubes including TV amplifiers and rectifiers. Built-in roll chart. Provision for complete short tests. Finished in green with ivory knobs, meter cover and push-buttons. 13"W., 9 1/2"H., 5 1/2"D.

Jackson Model 115 Tube Tester—Shipping weight 15 lbs. **66.15**

JACKSON CHALLENGER TEST OSCILLATOR



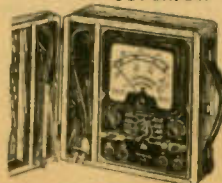
A standard AM oscillator for testing FM and AM radios, and for use as an auxiliary TV marker generator. Fundamental frequencies from 100 kc to 54 mc. Harmonics 54 mc to 216 mc. Has two-circuit attenuator for controlling signal strength. 400-cycle audio modulation, or can be used for straight RF unmodulated signal. Accuracy 3/4 of 1% on all ranges. Operates on 105-120 volts, 50/60 cycles AC. Case with carrying handle measures 13" L., 9 1/2" H., 5 1/2" D. Attractive green finish. With tubes. Compares favorably with kits at same price.

Jackson Model 106—wt. 14 lbs. **58.31**

OTHER JACKSON TEST EQUIPMENT

Model 112 Challenger Condenser Tester **58.31**
 Model QRO-2 5" Oscilloscope **193.55**
 Model TVG-2 TV-FM Sweep Signal Generator **240.10**

SUPERIOR MODEL 670 SUPERMETER



A combination instrument for volts, ma., ohms, capacity reactance, inductance, and db measurements. Also checks electrolytics. DC volt ranges: 0-7.5/15/75/150/750/1500/7500. AC volts: 0-15/30/150/300/1500/3000. DC current: 0-1.5/15/150 ma; 0-1.5 amps. Resistance: 0-500/10,000 ohms; 0-10 megs. Reactance: 700-27,000 ohms; 13,000 ohms to 3 megs. Inductance: 1.75 to 70 henries; 35 to 8000 henries. 3 db ranges from -10 to +58. Rugged, crackle-finished steel cabinet. Complete with test leads and instructions. For 110 V., 60 cycles AC. Size: 5 1/2" x 7 1/2" x 3". Shpg. wt. 5 lbs. **27.83**

Superior Model 670 Supermeter
 Superior Model 670P Supermeter—Same in portable case. **35.03**

PRECISION ELECTRONIC SIGNAL TRACER

Model 201A. AC operated portable tracer. For trouble-shooting AM, FM and TV sound circuits from 20 cycles to over 300 mc. Separate channel for audio frequencies. HF tube in probe with 3-tube high gain amplifier makes all signals audible and does not upset most sensitive circuit. Full control of RF-IF stage provided by variable control and resistive attenuator. Metal cabinet has built-in speaker and all controls. For 110V., 50/60 cycles. With tubes, probe and test leads. Size: 9 1/2" x 4 1/2" x 4 1/2". Shpg. wt. 11 lbs.

Precision Electronic 201A Signal Tracer. **34.50**



SPRAGUE TO-3 TEL-OHMIKE

Locates open, intermittent or shorted capacitors without removing them from circuit. Direct reading dial, color coded to selector switch. Measures .00001 to 2000 mid in 4 ranges. Power factor 0 to 50% at 60 cycles; 0-2500 megs insulation resistance. 2.5 ohms to 25 megs in 3 resistance ranges. DC voltage in 3 ranges to 750 volts. DC ma measured in 3 ranges. Capacity and power factor of electrolytics measured with rated polarizing voltage applied. Electrolytic leakage measured in ma at rated DC voltage. For 115 volts, 60 cycles. Size: 13 1/4" x 10 x 5".

Sprague TO-3 Tel-Ohmike—Shpg. wt. 15 lbs. **73.50**



APPROVED ELECTRONICS AM SIGNAL GENERATOR

Here is a low-priced, precision product for laboratory technicians and radio servicemen. An extremely stable signal generator covering long wave, broadcast and short wave frequencies. RF from 100 kc to 25 mc in six bands of fundamentals and 19 mc to 75 mc in two bands of harmonics. Internal modulation of 40 cps variable from 0 to 100%. New RF and AF oscillators of highly stable design. Operates on 110 volts, 60 cycles AC. Size: 12"W., 10"H., 8"D. Shipping weight 19 lbs.

Approved Electronics A200 **42.58**



CHICAGO MULTITESTERS

A DC meter with the following ranges: 0-3/15/30/300 volts; 0-25 ma and a resistance scale of 0-10,000 ohms. Operates on two flashlight cells which are included. Size: 1 1/2" x 2 1/2" x 3 3/4".
 Chicago Model 371—Shipping weight 3 lbs. **5.14**
 VOM with AC-DC ranges: 0-25/50/125/250V. Current range from 0 to 50 milliamperes. Resistance range up to 100,000 ohms. Black bakelite case.
 Chicago Model 312—Shipping weight 3 lbs. **6.61**



OAK RIDGE MINIATURE TEST EQUIPMENT



MODEL 102 HIGH VOLTAGE TESTER

A small, lightweight high voltage meter designed especially for measuring television voltages up to 30,000 volts DC. 3" square meter, with 0-100 microamp movement, has easy-to-read dial calibrated with three voltage scales: 0-500, 0-15,000 and 0-30,000. Sensitivity 25,000 ohms/volt. Design includes special television high voltages resistors for greater accuracy and stability. Four terminal jacks on panel, handle all voltages including 30 KV. Two high voltage insulated probes are supplied. Tester is self-contained and requires no power source. Black bakelite case, 5 1/4 x 4 1/4". Shpg. wt. 3 lbs.

Oak Ridge Model 102..... **21.51**

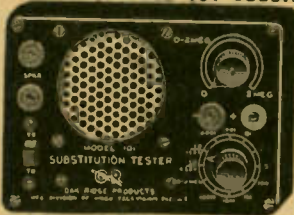


MODEL 105 MULTITESTER

Here's a remarkable new miniature test instrument equal to any popular multitester in performance and operating characteristics—yet less than half the size! A combination volt-ohm-milliammeter with a sensitivity of 20,000 ohms/volt. Uses 1% carbon deposit resistors throughout. DC and AC volt ranges: 0-2.5/10/50/250/1000/5000. Output volts: 0-2.5/10/50/250/1000. DC milliamps: 0-10/100/500. DC microamps: 0-100. Resistance: 0-2000/200,000 ohms; 0-20 meg. 5 db ranges from -12 to +55. Sturdy black bakelite case measures only 3 1/4 x 5 1/4". This convenient pocket-size multitester makes on-the-spot servicing fast and easy.

Oak Ridge Model 105—wt. 4 lbs. **38.17**

MODEL 101 SUBSTITUTION TESTER



Quickly spots the trouble in majority of radio and TV troubleshooting problems. Speakers can be tested by substituting built-in test speaker with voice coil and transformer connections on the panel. Output transformer can be switched in or out of circuit. Substitutes 7 values of paper, ceramic and electrolytic capacitors from 0001 to 80 mfd, and 4 values of 2-watt resistors from 100 to 100,000 ohms, all available from panel switch.

The 0-2 meg built-in potentiometer can also be substituted. Tester includes a simple audio signal tracer and two sets of test leads. Supplied with instructions. Durable, black bakelite case measures 5 1/4 x 2 1/4". Shpg. wt. 3 lbs.

Oak Ridge Model 101 Substitution Tester..... **19.55**

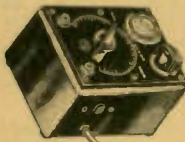
MODEL 107 DYNAMIC TUBE TESTER

Here is a dynamic type tube tester in a handy pocket-size black bakelite case that measures only 5 1/2 x 3 1/4 x 2 1/4". Every serviceman can use this precision made, convenient instrument with complete confidence. Checks tubes under actual operating conditions. Equipped with versatile switching that permits checking of all types of radio and TV receiving tubes. Sockets accommodate all octal, locktall, and 7-pin and 9-pin miniature tubes. Operates on 110-120V., 50/60 cycles AC. Supplied complete with tube chart.

Oak Ridge Model 107—Shpg. wt. 4 lbs. **48.95**



CORNELL-DUBILIER "BN" CAPACITOR BRIDGE



Measures accurately and quickly all capacitors between .00001 and 50 mfd. Has Wein bridge circuit with visual "eye" to indicate balanced condition. Direct reading scale. Quickly and easily indicates shorts, power factor, and opens. Strong bakelite case measures 3 1/2 x 5 x 3". Uses 12A7 and 6A1P6G tubes. Supplied complete with tubes, leads and instructions. For 110-120 volts, 60 cycles AC. Shpg. wt. 4 lbs.

C-D "BN" Capacitor Bridge..... **21.94**

CORNELL-DUBILIER CAPACITOR DECADES

Use with "BN" Capacity Bridge. Calibration chart supplied with each. Rating: 600 volt DC; 220 volt AC. Bakelite case 3 1/2 x 5 x 3". Shipping weight of each, 4 lbs. Tolerance 3% or 5%.

Use with "BN" Capacity Bridge. Calibration chart supplied with each. Rating: 600 volt DC; 220 volt AC. Bakelite case 3 1/2 x 5 x 3". Shipping weight of each, 4 lbs. Tolerances indicated.

C-D Model CDA-5—.0001 to .011 mfd in .0001 steps (5%)... **9.16**

C-D Model CDB-3—.01 to 1.1 mfd in .01 mfd steps (3%)..... **12.94**

C-D Model CDB-5—.01 to 1.1 mfd in .01 mfd steps (5%)..... **9.16**

C-D Model CDC-2—1 to 10 mfd in 1 mfd steps (3%)..... **21.02**

C-D Model CDD-5—1 to 10 mfd in 1 mfd steps (5%)..... **18.86**

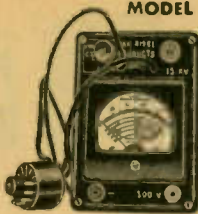


C-D "BF-50" CAPACITOR ANALYZER

Wein bridge with visual "eye" measures paper, mica, air and electrolytic capacitors from .00001 to 240 mfd. Tests shorts, power factor, leakage and insulation. Portable case measures 6 1/2 x 12 x 9 1/4". Supplied with tubes. Shpg. wt. 10 lbs.

C-D Type "BF-50" Analyzer..... **45.98**

MODEL 106 MAGNETIC CRT TESTER



New, pocket-size cathode-ray tube tester checks all magnetic focus and deflection type tubes. A handy, lightweight instrument that permits immediate testing of picture tube in the customer's home. Has easy-to-read tube test scales and two calibrated voltage scales—0-500 and 0-15 KV. Checks the tube in the set with operating voltages. Instrument includes a special inter-electrode conductance tube circuit. Also tests for leakage in electron gun or high voltage anode. Supplied with duo-decal plug and socket. Durable, black bakelite case measures only 5 1/2 x 3 1/4 x 2 1/4".

Oak Ridge Model 106— wt. 3 lbs. **29.35**

MODEL 108 POWER SUPPLY

For use with Model 106 CRT Tester. Supplies voltage to check picture tube independently of receiver. Shpg. wt. 2 lbs.

Oak Ridge Model 108 Power Supply..... **19.55**

MODEL 104 SYNCRO-SWEEP GENERATOR

A completely new instrument for TV servicing. Provides sync and sweep outputs and eliminates necessity of depending on station transmitted test patterns. Supplies a series of horizontal or vertical bars on channels 2-5 for adjusting linearity. Also supplies vertical and horizontal sync signals on channels 2-5 to troubleshoot RF, video detector and amplifier, and sync circuits. Vertical or horizontal saw-tooth signals check sweep circuits from deflection coil back to saw-tooth generator tubes. The horizontal saw-tooth signal is strong enough to generate the flyback high voltage in television receivers. Panel controls include selector for horizontal and vertical sync, linearity and sweep and flyback tests, channel selector and sweep tuning. Black bakelite case, 5 1/4 x 2 1/4", easily portable. For 105-125V., 50/60 cycles AC. With instructions.

Oak Ridge Model 104 Generator—Shpg. wt. 3 lbs. **43.61**



MODEL 103 SIGNAL GENERATOR

For servicing TV and FM sets. Generates a modulated or unmodulated RF sound or picture carrier signal on TV channels 2-13. Output frequencies of 4.5, 20-28 and 40-48 selected by rotary switch on panel. FM receivers can be checked with the modulated or unmodulated IIF signal from 88-108 mc. Generator permits alignment of video and sound IF sections of any standard or intercarrier type TV set, or to tune IF traps. Generates a 500-cycle signal with attenuator to check video or audio amplifier sections of TV sets. Also supplies a radiated RF signal to compare sensitivity of TV and FM antennas and check orientation characteristics. For 105-125V., 50/60 cycles AC. With tubes and instructions. Black bakelite case, 5 1/4 x 2 1/4".

Oak Ridge Model 103 Generator—Shpg. wt. 3 lbs. **32.83**



MODEL CC CARRYING CASE

Strong, leatherette covered wood case especially designed to hold any four of the testers described above. The four units can be set in the case or renewed individually as desired. Space is provided on one side for test leads and line cords. Size: 12 1/2 x 9 1/4 x 4 1/4".

Oak Ridge Model CC Case—Shpg. wt. 4 lbs. **8.33**

PRECISE DEVELOPMENT MODEL 909 VTVM

In Kit Form or Wired

A new vacuum tube voltmeter kit with features usually found only in more expensive test instruments. 1% resistors used in the precision circuits. 4 1/2" meter features separate 5 volt AC and 250 volt scales for accurate readings on these ranges. AC and DC volt ranges: 0-5/25/250/500/1000. Resistance: .01 to 1 ohm to 1000 meg in steps of Rx1, Rx10, Rx1000, Rx10,000, Rx1 meg. DB ranges from -20 to +55. Amphenol chassis and mike connector used for DC input leads. Case 9 1/2 x 6 1/2 x 5". Kit complete with instruction book. Shpg. wt. 10 lbs.

Precise Model K909 VTVM Kit... **25.98**

Model W909—As above, factory wired. 44.98

Model W999—Hi-Voltage Probe—Increases range of 909 VTVM to 30,000 volts. **6.98**



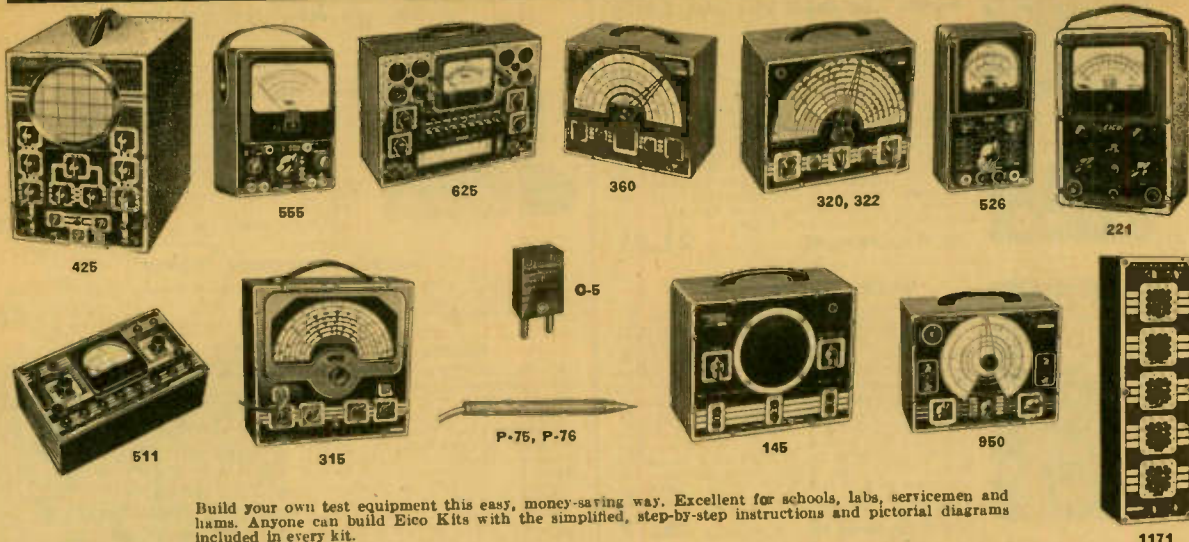
RADIO CITY PRODUCTS 322AK TUBE TESTER KIT

Here's a professional type tube tester in kit form. Has provisions for checking individual sections of multipurpose tubes, miniature and sub-miniature tubes. Headphone jack for noise test. Neon lamp indicates rapid short and leakage test between elements. Compact, sturdy construction. Open face hammer-tone grey finish steel case, 5 1/2 x 12 1/4 x 8". Sloping panel. For 100-150 volts, 50/60 cycles AC. Shpg. wt. 12 lbs.

RCP Model 322AK Kit... **28.95**



AMERICA'S FOREMOST HIGH FIDELITY SUPPLIERS



Build your own test equipment this easy, money-saving way. Excellent for schools, labs, servicemen and hams. Anyone can build Eico Kits with the simplified, step-by-step instructions and pictorial diagrams included in every kit.

MODEL 425K 5" OSCILLOSCOPE

New, improved laboratory precision oscilloscope kit, engineered to give you extra sensitivity and range features needed for fast, precise servicing of TV, FM and AM receivers. Has push-pull deflection and .03 to 1 Rms volt/inch sensitivity. Wide range, flat from 5 cps to 500 kc with full gain setting, useful to 2.5 mc. Wide range multivibrator sweep circuit from 15 to 75,000 cps. Direct connection to plates of cathode-ray tube available at rear of cabinet. Z axis intensity modulation. Tubes: 3-6SN7, 2-6J5, 2-5Y3, 6BP1 CRT. For 110-120V., 60 cycles AC. Supplied complete with tubes, portable steel case, etched panel, parts, wire, schematic and pictorial diagrams. Size 8½x17x13" high. Shpg. wt. 20 lbs. Nothing else to buy!

Eico Model 425K Oscilloscope Kit..... **44.95**
 Model 425—As above, but factory wired..... **79.95**

MODEL 221K VACUUM TUBE VOLTMETER

A sensitive VTVM kit with 15 different ranges for measuring high resistance circuits. AC-DC volts: 0.5/10/100/500/1000. Resistance: 2 ohm to 1000 megohms in five steps. DB scale. DC input impedance 26 megohms. Double triode balanced bridge circuit for greater stability. Includes zero center for TV discriminator alignment. Accurate ¼" meter protected against burnout. Supplied with portable steel case, etched panel, parts, wire, tubes, schematic and pictorial diagrams. For 110-130V., 50/60 cycles AC. Size: 9-7/16x6x5".

Eico Model 221K VTVM Kit—Shpg. wt. 10 lbs..... **25.95**
 Model 221—As above, but factory wired..... **49.95**

MODELS P-75K & P-76K HF PROBES

Germanium crystal probes for visual RF signal tracing, and measurements to over 200 mc. Can be used with Model 221 VTVM (P-75K) and Model 425 Oscilloscope (P-76K). Shpg. wt. 8 oz.

Eico Models P-75K or P-76K Probe Kit, Each..... **3.75**
 Models P-75 or P-76—As above, but factory wired. Each..... **5.95**

MODEL 360K TV-FM SWEEP SIGNAL GENERATOR

Covers all TV and FM alignment frequencies between 500 kc and 228 mc when used with any standard scope. Sweep width variable from 0-30 mc. Crystal marker oscillator with variable amplitude. Provision for external marker. Phasing control included. Vernier dial calibrated in frequencies. Tubes: 1-6X5GT, 1-12AU7, 2-6C4. For 110-120V., 60 cycles AC. Size: 10x8x6¼". Complete with tubes, steel case, etched panel, parts, schematic and pictorial diagrams. Less crystal. Shpg. wt. 12 lbs.

Eico Model 360K Sweep Signal Generator Kit..... **34.95**
 Model 360—As above, but factory wired..... **49.95**

MODEL C-5 5 MC CRYSTAL

Fits standard sockets and circuits of all generators and oscillators. Use in conjunction with Model 360 Sweep Generator above.

Eico Model C-5 5 Mc Crystal..... **3.95**

MODEL 320K SIGNAL GENERATOR

For FM, AM alignment and to provide TV marker frequencies. Highly stable Hartley oscillator has range of 150 kc to 102 mc with fundamentals to 34 mc. Choice of unmodulated or 400-cycle AM modulated output. 7 bands. Vernier tuning condenser. Supplied complete with tubes, portable steel case, panel, parts, schematic and pictorial diagrams. Size: 10x8x4¼". For 110-120V., 60 cycles AC. Shpg. wt. 10 lbs.

Eico Model 320K Signal Generator Kit..... **19.95**
 Model 320—As above, but factory wired..... **29.95**
 Model 322K—Similar Kit to Model 320K except with individual calibration of each of its 5 bands..... **23.95**
 Model 322—Same as Model 322K except factory wired..... **34.95**

MODEL 315K DELUXE SIGNAL GENERATOR

Range 75 kc to 150 mc on 7 calibrated bands. Accuracy better than 1%, stabilized by VR power supply circuit. Supplies RF, modulated RF or AF. 4-step IF output multiplier, constant output impedance. 400-cycle sine wave modulation. Bandspread, vernier tuning; illuminated dial. Tubes: 6C4, 7F7, 6X5, VR-150. For 105-130V., 60 cycles AC. Size: 12x13x7". Supplied with tubes, steel case, parts, schematic and pictorial diagrams. Shpg. wt. 20 lbs.

Eico Model 315K Signal Generator Kit..... **39.95**
 Model 315—As above, but factory wired..... **59.95**

MODEL 625K TUBE TESTER

Features lever-action switches for testing each tube element. Tests all standard AM, FM and TV tubes including 9-pin miniature, VR, magic eye and pilot bulbs. Large, 4¼" meter has colored markings to indicate condition of tube. Illuminated roll chart gives tube test settings at a glance. Has two leads with grid-cap connectors. Also tests for shorts and open elements. Protective overload pilot bulb. Built-in power supply. For 115V., 60 cycles AC. Supplied with portable steel case, etched panel, parts, etc. Size: 12½x9½x4¼". Shpg. wt. 13 lbs.

Eico Model 625K Tube Tester Kit..... **34.95**
 Model 625—As above, but factory wired..... **49.95**

NEW MODEL 555K AC-DC MULTIMETER

20,000 Ohms/V. DC—1000 ohms/V. AC

High sensitivity VOM with 31 different ranges. DC volts at 20,000 ohms/volt: 0.2-5/10/50/250/1000/5000. AC & Output volts at 1000 ohms/volt: same as DC. Current ranges: 0-100 microamps; 0-10/100/500 ma; 0-10 amps. Ohms: 0-1/100/100,000. 5 db ranges from -12 to +53. 1½ accuracy ceramic multipliers used. DC accuracy ±3%; AC, ±5%. 4½" meter with 50 microamp movement. High-impact bakelite case, 6¼x5¼x3". Supplied with batteries. Shpg. wt. 3 lbs.

Eico Model 555K Multimeter Kit..... **29.95**
 Model 555—As above, but factory wired..... **34.95**

MODEL 511K VOLT-OHM-MILLIAMMETER

Popular, versatile instrument, most used by servicemen. Makes a perfect, easy to assemble kit for beginners. Has 3" meter and attractive etched panel. DC volt ranges: 0.5-50/250/500/2500. AC & output volts: 0.10/100/500/1000. DC ma; 0-1/10; DC amps: 0-1/10. Resistance: 0-500/100,000 ohms; 0-1 meg. Supplied complete with case, parts, wire, batteries, schematic and pictorial diagrams. Less test leads. Size: 8x4½x3". Shpg. wt. 4 lbs.

Eico Model 511K VOM Kit..... **14.95**
 Model 511—As above, but factory wired..... **17.95**

NEW MODEL 526K AC-DC MULTIMETER

A compact, pocket-size VOM with a sensitivity of 1000 ohms/volt. High quality components and design make this kit an unusually good value. AC & DC volt ranges: 0-1.5/10/50/100/500/5000. Resistance: 0-1/10 ohms. AC & DC current ranges: 0-1/10 ma; 0-1 amp. 6 db ranges from -20 to +40. DC accuracy ±3%; AC, ±5%. 3½" meter has a 400 microamp movement. All multipliers are ceramic with an accuracy of 1%. Dual rectifier included. High-impact bakelite case measures 6¼x3¼x2". Shpg. wt. 2 lbs.

Eico Model 526K Multimeter Kit..... **13.90**
 Model 526—As above, but factory wired..... **16.90**

MODEL 145K MULTI-SIGNAL TRACER

High gain, high frequency trouble-shooting instrument. Self-contained speaker permits tracing of RF, IF, FM, audio and video circuits. Has provision for visual tracing with VTVM, for actual stage-by-stage gain comparison. Response is over 200 mc. Can also be used as a small FA or intercom system. For 110-125V., 60 cycles AC. Size: 8x4¼". Supplied with tubes, parts, case, speaker, etched panel, schematic and pictorial diagrams. Diode probe in kit form also included. Shpg. wt. 0 lbs.

Eico Model 145K Multi-Signal Tracer Kit..... **19.95**
 Model 145—As above, but factory wired..... **28.95**

NEW MODEL 950K RESISTANCE-CAPACITANCE

BRIDGE & R-C-L COMPARATOR

Measures and tests all resistors from .5 ohms to 500 megohms; all capacitors from 10 mmf to 5000 mfd. Instant comparison measurement of R, C and L with a complementary component as standard. Continuously variable 0-500 DC voltage source tests leakage, polarization and power factor. 110V., 60-cycle transformer and rectifier. Magic eye indicator. With case, panel, parts, schematic and pictorial diagrams. Size: 10x8x4¼". Shpg. wt. 10 lbs.

Eico Model 950K Kit..... **19.95**
 Model 950—As above, but factory wired..... **29.95**

NEW MODEL 1171K RESISTANCE DECADE BOX

Values from 0-99,999 ohms with ¼% accuracy. New comparator position for fast substitution of equivalent component for value shown on decade box. Complete with parts, steel case, schematic and pictorial diagrams. Size: 3½x12x3". Shpg. wt. 3 lbs.

Eico Model 1171K Decade Box Kit..... **19.95**
 Model 1171—As above, but factory wired..... **24.95**

PANEL METERS, RECTIFIERS, GEIGER COUNTERS



TRIPLETT PANEL METERS

Triplet round and square case panel meters incorporate the finest materials and workmanship. All terminals are molded in the molded bakelite cases. Movements have polished jeweled bearings with adjustable screws. Accurate within 2%. Av. Shpg. wt. 2 lbs. Specify manufacturer's model number and range when ordering.

METER DIMENSIONS

Model	Flange	Dia.	Depth
221-T, 241-T	2 1/4" sq.	2 1/4"	1 1/2"
227-T	2 3/4" sq.	2 3/4"	1 1/2"
231-S	2 1/4" sq.	2 1/4"	2"
237-S	2 3/4" sq.	2 3/4"	1 1/2"
321-T, 341-T	3" x 3"	3"	1 1/2"
327-T, 347-T	3 1/4" x 3"	3 1/4"	1 1/2"
331-S	3 1/4" x 3"	3 1/4"	1 1/2"
337-S	3" x 3"	3"	1 1/2"

*Indicates overall body depth including terminals.

Range	DC MILLI-AMMETERS		AC MILLI-AMMETERS		AC VOLTMETERS	
	2-inch	3-inch	2-inch	3-inch	2-inch	3-inch
	221T Rd.	321T Rd.	231S Rd.	331S Rd.	231S Rd.	331S Rd.
	227T Sq.	327T Sq.			237S Sq.	337S Sq.
0-1	7.35	8.33	.....	.....	.....	.....
0-1.5	7.35	8.33	.....	.....	.....	.....
0-3	7.35	8.33	.....	.....	.....	.....
0-5	7.35	8.33	.....	.....	7.35	8.33
0-10	7.35	8.33	7.35	8.33	7.35	8.33
0-15	7.35	8.33	7.35	8.33	7.35	8.33
0-25	7.35	8.33	7.35	8.33	7.35	8.33
0-50	7.35	8.33	7.35	8.33	7.35	8.33
0-100	7.35	8.33	7.35	8.33	.....	.....
0-150	7.35	8.33	.....	.....	8.33	9.31
0-200	7.35	8.33	7.35	8.33	.....	.....
0-250	7.35	8.33	7.35	8.33	.....	.....
0-300	7.35	8.33	.....	.....	10.09	11.07
0-500	7.35	8.33	7.35	8.33	13.52	14.50
0-750	7.35	8.33	.....	.....	.....	.....
0-1000	7.35	8.33	.....	.....	.....	.....

DC MICROAMMETERS

Specify 321T for 3" round. Specify 327T for 3" square.

Range	3", Ea.	Range	3", Ea.	Range	3", Ea.	Range	3", Ea.
0-50	11.27	0-100	10.78	0-200	9.31	0-500	8.82

DC VOLTMETERS

125 Ohms/Volt

2" Round—221T 3" Round—321T

Range	221T, Ea.	321T, Ea.
0-5	7.35	8.33
0-10	7.35	8.33
0-15	7.35	8.33
0-25	7.35	8.33
0-50	7.35	8.33
0-150	7.35	8.33
0-250	8.33	9.31

DC VOLTMETERS

1000 Ohms/Volt

Range 321T (3" Rd.), Ea.

Range	321T (3" Rd.), Ea.
0-10	10.68
0-50	10.68
0-100	11.07
0-150	11.07
0-500	14.80
0-1000	12.84

DC AMMETERS

with internal shunt

2" Round—221T 3" Round—321T

Range	221T, Ea.	321T, Ea.
0-1	7.35	8.33
0-3	7.35	8.33
0-5	7.35	8.33
0-10	7.35	8.33
0-15	7.35	8.33
0-25	7.35	8.33
0-50	7.35	8.33

AC AMMETERS

2" Round—231S 3" Round—331S

Range	231S, Ea.	331S, Ea.
0-1	7.35	8.33
0-3	7.35	8.33
0-5	7.35	8.33
0-10	7.35	8.33
0-25	7.35	8.33
0-50	7.35	8.33



TRIPLETT POWER LEVEL INDICATOR

Up 6 and down 10 db. Zero db equals 1.73 volts. Calibrated for 500 ohm line. Six milliwatts. Internal resistance of standard db meter is 5000 ohms. Accuracy 5%. Shpg. wt. 3 lbs. Triplet Model 321T—3" diameter. **12.15**

CONANT INSTRUMENT RECTIFIERS

General replacements for meters and relays. Series 500 for applications requiring more than 1 ma. output. Cell diameter .5". 6-32 stud mtg. Series 160 for good frequency response and less than 1 ma. Cell diameter .106". No. 2 screw mtg. Series 160-C same as 160 except outside case fits standard midnet fuse clip. Maximum AC input for all units, 5V. average. Intermittent ratings are twice figures shown; instantaneous are three times.

Internal Circuit Diagrams



Type	Series	Body Color	Internal Circuit	No. of Terminals	Av. Output DC MA	Each
M	500	Yellow	1	4	30	2.03
H	500	Black	2	3	30	1.50
T	500	Red	3	3	30	1.50
B	500	Green	4	2	30	1.13
B	160	Yellow	1	4	5	2.05
BHS	160	Black	2	3	5	1.50
BT	160	Red	3	3	5	1.50
BH	160	Green	4	2	5	1.18
B-C	160-C	Yellow	1	4	5	2.05



SHURITE METERS

Economy model panel meters of good quality and accuracy. Model 550 is round and equipped with a clamp. Model 950 is square and flange mounted. Both models require a 2 1/2" hole. Average shpg. wt. 2 lbs.



DC VOLTMETERS

Range	Mod. 550	Mod. 950
0-3	1.42	1.57
0-8	1.42	1.57
0-10	1.47	1.62
0-15	1.57	1.71
0-25	1.57	1.71
0-50	2.40	2.55
0-100	1.86	2.01
0-150	1.96	2.11
0-300	2.89	3.04
0-500	3.82	3.97

*Indicates high resistance meters.

AC VOLTMETERS

Range	Mod. 550	Mod. 950
0-15	2.45	2.60
0-150	3.25	3.25
0-300	3.58	3.72

DC MILLIAMMETERS

Range	Mod. 550	Mod. 950
0-3	2.11	2.25
0-5	1.91	2.06
0-10	1.81	1.96
0-15	1.47	1.62
0-25	1.42	1.57
0-50	1.42	1.57
0-100	1.42	1.57
0-150	1.42	1.57
0-200	1.42	1.57
0-300	1.42	1.57
0-400	1.37	1.52

DC AMMETERS

Range	Mod. 550	Mod. 950
0-1	1.42	1.57
0-3	1.42	1.57
0-5	1.42	1.57
0-10	1.42	1.57
10-0-10	1.42	1.57
20-0-20	1.71	1.86

AC AMMETERS

Range	Mod. 550	Mod. 950
0-1	2.45	2.60
0-3	2.45	2.60
0-5	2.45	2.60
0-10	2.45	2.60
0-50	2.94	3.09

RESISTANCE METER

Direct reading 10,000 ohms, 4.5V. Shurite Model 550—Round. 1.98 Shurite Model 950—Square. 2.11

FLANGE FOR ROUND METERS

Model 5A—2" black finish. 18c

NOTE: If panel meters you require are not listed here, please write for prices. Space limitations prevent a complete listing.

MARION MULTI-RANGER METERS

Foundation meters for assembling highly accurate VOM. Full 100-degree three-color scales reading 0-10, 0-50, 0-250, 0-1000 AC and DC volts; 0-1, 0-10, 0-50, 0-500 ma; 0-500, 0-100M ohms; 0-1 meg, 0-10 megs; -10 to +54 decibels.

Model	Size	Each
63SN	3" square	8.62
55	4 1/2 x 4 1/2"	10.78
57S	7 x 8 1/2"	14.38



SHUNT AND RESISTOR KIT

Kit for Marion Multi-Ranger foundation meter. Consists of 14 metalized carbon film resistors and 4 wire wound shunts. P10719—With schematics **8.99**

KELEKET PORTABLE GEIGER COUNTER

Responds to radiation from radio-active materials. Designed for locating new deposits of caronite, pitchblende, curite or other radio-active substances. Uranium can be found even when covered with thick overburden. Highly sensitive to both beta and gamma rays. No Geiger probe required. Only two ordinary flashlight batteries are used for power. Battery life exceeds 50 hours. Measures only 6 1/2 x 3 x 2 1/4". Uses single or double headphones (magnetic type), 1000 to 24,000 ohms impedance. Can be connected to P.A. system for classroom demonstrations. Supplied with headset.



Keleket Model K803—Shipping weight 3 lbs. **53.95**

PRECISION RADIATION 108 GEIGER COUNTER

New, low priced Geiger counter featuring high sensitivity to radio-active substances and extremely compact design. Fits in pocket or palm of hand. Detects uranium ore, cosmic rays, radium and x-rays by instantly producing a loud series of clicks in earphone. The number of clicks increases as counter approaches source of radio-active material. Uses a miniature amplifier tube, one 2 1/2 V. hearing aid battery and one flashlight battery. Replacement cost of batteries is nominal. They are easily changed by anyone without use of tools. Geiger tube operates at 300V. and is protected by an automatic safety device which prevents excessive voltage. Strong plastic case 1 1/2 x 3 x 5". Supplied complete with headset, batteries, radio-active sample and instruction.



Precision Radiation Model 108—Shpg. wt. 3 lbs. **24.95**

PRECISION RADIATION GEIGER COUNTERS

Professional type, extremely sensitive unit detects beta particles as low as 100 K.E.V. as well as gamma rays, x-rays and cosmic rays. Has all three ways of indicating radio-activity: neon flasher, earphone and 3-range meter—2, 2 and 20 milliroentgens/hr. full scale. Detects even the faintest traces of uranium. Automatic voltage regulator circuit eliminates need for any adjustments. Rugged, weather-proofed case, 3 1/2 x 4 x 6 1/4". Uses 2 flashlight cells and 2 small 45V. batteries. Earphone, batteries, carrying belt and tube included.

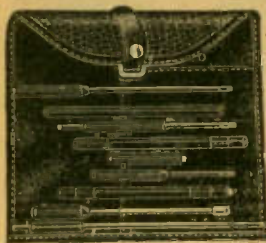


Model 106—Shpg. wt. 7 lbs. **99.50**

Model 107—Same as above plus a directional, stainless steel probe enclosing Geiger tube. Sliding shield around probe used for discriminating between betas and gammas. 3-ft. polystyrene coaxial cable connects probe with case. Side clamps on case support the probe when not in use. Shpg. wt. 8 lbs. **139.50**

COMPLETE TEST EQUIPMENT FOR ALL YOUR SERVICING NEEDS

TV & RADIO ALIGNMENT TOOLS & TEST LEADS



ICA TV SERVICING KIT

A compact tool kit for all TV servicing. Contains 9 tools including one each of numbers P15227, "Big-Stretch" Aligner; P15228, Tran-Aligner; P15229, Slim Aligner; P15234, Tuning Wrench; P15231, Dual Aligner; P15232, Deep-Nib Aligner; P15235, Tuning Wand; P15233, Channel Tuner; also one Stackpole core aligner. See copy below for description of these tools. Supplied complete in leatherette case.
P15228 **4.90**

"BIG STRETCH" ALIGNER



For adjustment of nested iron cores of Admiral, Zenith and similar TV sets. Extra thin, 9" bone fiber tool with 6 1/4" blade. Also for RCA front ends.
P15227 **71¢**

C TRAN-ALIGNER



All-insulated aligning tool for standard IF and RF, and "K-Tran" midjet transformers. Milled at one end, screw driver at other. 2 1/2" blade, fiber handle, 6" overall.
P15228 **54¢**

SLIM-ALIGNER



Has extra thin recessed blade and slim metal shaft for cramped probing in TV sets. For Admiral and similar makes.
P15229—Fiber Handle .. **71¢**

TUNING WRENCH



Insulated fiber with extra thin recessed blade on one end and extra thin screw driver blade on other. Tenite handle. Designed especially for Zenith TV sets, etc. 4 1/2" long.
P15234 **54¢**

TUNING WAND



Extra thin diameter to fit small coil openings in TV sets. Flexible vinylite with brass insert in one end and molded powdered iron core in other. Raises or lowers inductance. For Zenith TV, etc.
P15235—4 3/4" Long **71¢**

DUAL ALIGNER



Narrow shaft fiber alignment tool for trimmers, IF transformers, etc. Dual purpose type with recessed screw nob on one end and metal screw driver on other. 7" long.
P15231 **54¢**

CORE ALIGNER



For use on all TV sets using Stackpole adjustable cores.
P15225 **54¢**

KLEER-ALIGNER

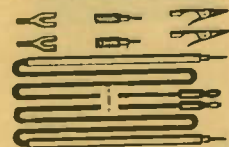


Low-loss clear plastic, all insulated. Narrow, recessed insulated blade one end, extended blade on other end. 7" long.
P15238 **59¢**

SUPER-STRETCH "KLEER-ALIGNER"



12" long low-loss clear plastic rod with extended blade one end; brass slotted inset other end. 7/32" diameter.
P15220 **81¢**



PENCIL PROD KIT

Spring prongs at end of prods permit changing from spade lugs to phone tips or spring clips. Handles 6" long, 3/4" diameter. Red and black kinkless wire. Complete with two alligator clips, two needle point phone tips and two tapered lugs.
P12971—Pencil Prod Kit..... **1.47**

ICA TEST LEAD KIT



Contains a pair of test leads with 60" red and black kinkless wire. One end equipped with insulated phone tips, other end with insulated removable banana plugs. Supplied in leatherette case complete with pair of alligator clips, spade lugs and needle points.
P12861—Complete Kit **2.62**

ICA "NO BREAK" PRODS



Top grade insulated prods of solid brass, nickled and covered with shockless live rubber—one red and one black. Tips are sharp pointed type. Other end of 50" kinkless rubber wires have solderless insulated phone tips.
P12998—Per Pair **82¢**
Same as above, but equipped with standard phone tips.
P13000—Per Pair **73¢**

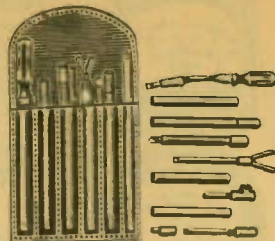
ICA LABORATORY PRODS



Contains removable phono needle clucks. Extra-long slim black and red handles, knurled at end for an easier grip. Handles are 6" long and are supplied with 48" length of heavy-duty kinkless and extra-flexible rubber covered wire.
Choice of spade lugs or phone tips.
P12978—Spade Lugs Pair **98¢**
P12979—Phone Tips Pair **98¢**

ICA ALIGNING KIT

14 tools telescope into six easy-to-carry units in compact case. Contains flexible screwdriver, alignment tool, alligator side wrench, 6" insulated driver (metal nib), 1/4" and 1/2" nut wrench, 1/4" insulated square nut wrench, 2 1/4" insulated driver with metal nib, 1/4" hex slotted insulated wrench driver, 3/8" hex insulated nut wrench, 3" and 6" insulated driver.
P15088—Complete Kit ... **5.39**
As above, less flexible screwdriver and aligning tool.
P15089 **4.47**



4-IN-1 NEUTRALIZING TOOL



1/4" nut wrench with key slot and 1/4" nut screwdriver. Molded bakelite. With pen clip.
P14915—Complete ... **59¢**

UHF ALIGNING TOOL



Amphenol polyatyrene. Large end has a metal tip. Small diameter end lengthened for TV set adjustments. No effect on capacity of circuits.
P15075 **15¢**

ICA 5-IN-1 ALIGNER KIT



Combines 1/4" and 3/8" nut wrenches and miniature blade, full-size screwdriver in a single fountain pen size tool.
P15082—Complete 3-Piece Set..... **98¢**

ICA TELEVISION "CHANNEL TUNER"



Narrow, all-insulated screwdriver of machined fiber. Ideal for deep, inaccessible tuning. 1/4" blade on 4 1/2" shaft. 7" long.
P15233 **54¢**

FIBRITE SCREWDRIVER



Two-ended screwdriver for trimmer condensers. 7" long.
P15150—7/32" diameter **25¢**
P15151—1/16" diameter **45¢**

FIBER ALIGNER



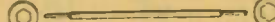
Double bladed fiber aligner 7" long, 1/8" diameter.
P15217 **24¢**

HEXY-SQUARE ALIGNER



All bone fiber core aligning tool especially designed for Raytheon-Belmont IF's and similar type transformers. 6" shaft has 7/16" diameter—3/8" hex on one end and 1/4" square on other end.
P15063 **73¢**

HEX-ALIGNER



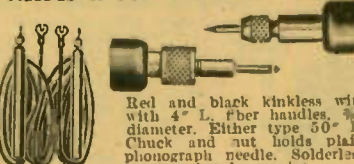
All-bone, fiber iron core aligning tool. Has 3/32" hex on one end and 1/4" hex on other end. For Diamond, Raytheon-Belmont receivers and other sets using similar type iron cores. 8" shaft, 3/16" diameter.
P15064 **81¢**

ALL-PURPOSE ALIGNER



Bone fiber screwdriver ends set in red Tenite handle. Overall length 6". Blade width 5/32". Tip thickness 1/64". Designed for general aligning purposes for Motorola and other popular receivers of the same type.
P15060 **54¢**

NEEDLE & SOLDERLESS TEST LEADS



Red and black kinkless wire with 4" L. fiber handles, 3/4" diameter. Either type 50" L. Chuck and nut holds plain monograph needle. Solderless tip type has long point.

Needle Tip Prods		Solderless Tip Plug	
No.	Ends Pair	No.	Ends Pair
P12978	Phone tips .71	P12978	Phone tips .71
P12975	Spade lugs .71	P12978	Spade lugs .71
P12977	Alligator .72	P12970	Alligator .72

WESTON TYPE TEST LEADS



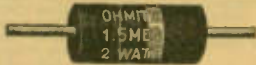
5" long handles of red and black pneumatic connected to kinkless rubber covered wire. Length 65" overall. Supplied complete with molded finger grip tips with set screws.
P12988—Per Pair **1.32**

IRC, OHMITE & SPRAGUE RESISTORS

1/2, 1, 2-WATT RESISTORS—STANDARD RMA CODE—SPECIFY RESISTANCE

Ohms	Ohms	Ohms	Ohms	Ohms	Ohms	Ohms	Ohms	Ohms	Megs.	Megs.	Megs.
0.27	1.2	5.6	27.0	120	560	2700	12M	56M	0.27	1.2	5.6
0.33	1.5	6.8	33.0	160	680	3300	15M	68M	0.33	1.5	6.8
0.49	1.8	8.2	39.0	180	820	3900	18M	82M	0.39	1.8	8.2
0.47	2.2	10.0	47.0	220	1000	4700	22M	100M	0.47	2.2	10.0
0.56	2.7	12.0	56.0	270	1200	5600	27M	120M	0.56	2.7	12.0
0.68	3.3	15.0	68.0	330	1500	6800	33M	150M	0.68	3.3	15.0
0.82	3.9	18.0	82.0	390	1800	8200	39M	180M	0.82	3.9	18.0
1.0	4.7	22.0	100	470	2200	10M	47M	220M	1.0	4.7	22.0

OHMITE "LITTLE DEVIL" INSULATED RESISTORS



Insulated molded plastic. Meet JAN specs. Tolerance = 10%. These resistors are made in values as shown on RMA table above, starting at 10 ohms and up to and including 22 megs. Specify exact resistance when ordering. 1/2-WATT. 1/4"x1/4". Maximum 350 volts. P5206A..... Each 10¢
100 of one value..... Each 6¢
1-WATT. 3/8"x1/4". Maximum 500 volts. P5207A..... Each 15¢
100 of one value..... Each 9¢
2-WATT. 1/2"x1/4". Maximum 1000 V. P5263A..... Each 20¢
100 of one value..... Each 12¢
NOTE: We can supply all RMA standard value resistors in 5% tolerance at twice the price of 10% resistors.

TRUTEST INSULATED 1/2 AND 1-WATT RESISTORS



RMA color coded insulated resistors. Moisture and heat resistant. Securely anchored pigtail wire leads. Accuracy = 10%. Made in values shown in the RMA Code Chart above, from 220 ohms up to and including 10 megs. Please specify resistance when ordering. 1/2-WATT SIZE..... Each 5¢
1-WATT SIZE..... Each 6¢
P5207B..... Each 6¢

IRC WIREWOUND POWER RESISTORS



Fixed

Wound on steatite and covered with heavy insulating coating. Tolerance = 5% on fixed types, 50 ohms and over. All others = 10%. Length indicated by type number. Diameters (fixed and variable): 10W, 20W, 25W, 50W, 75W, 100W, 150W, 1 1/4". All variables supplied with contact band. Mtg. brackets with all except 10-20 watt units.



Variable

Resistance values regularly stocked in each wattage indicated by price.

Fixed Power Resistors					Variable Power Resistors						
10W	20W	50W	100W	200W	10W	25W	50W	75W	100W	200W	
P5210	P5210	P5221	P5222	P5223	P5262	P5224	P5225	P5226	P5227	P5228	
1 1/2A	2D	4 1/2E	6 1/2H	10 1/2M	1 1/2AA	2 1/2DA	4 1/2EA	6 1/2EA	8 1/2HA	10 1/2HA	
.44	.56	1.32	1.98	2.67	1	.86	1.10	1.39	1.62	2.11	3.33
.44	.56	.96	1.42	2.67	5	.86	1.10	1.39	1.62	2.11	2.57
.44	.56	.96	1.42	1.89	10	.86	1.10	1.39	1.62	2.11	2.57
.44	.56	.96	1.42	1.89	25	.86	1.10	1.39	1.62	2.11	2.57
.44	.56	.96	1.42	1.89	50	.86	1.10	1.39	1.62	2.11	2.57
.44	.56	.96	1.42	1.89	75	.86	1.10	1.39	1.62	2.11	2.57
.44	.56	.96	1.42	1.89	100	.86	1.10	1.39	1.62	2.11	2.57
.44	.56	.96	1.42	1.89	150	.86	1.10	1.39	1.62	2.11	2.57
.44	.56	.96	1.42	1.89	200	.86	1.10	1.39	1.62	2.11	2.57
.44	.56	.96	1.42	1.89	250	.86	1.10	1.39	1.62	2.11	2.57
.44	.56	.96	1.42	1.89	500	.86	1.10	1.39	1.62	2.11	2.57
.44	.56	.96	1.42	1.89	750	.86	1.10	1.39	1.62	2.11	2.57
.44	.56	.96	1.42	1.89	1000	.86	1.10	1.39	1.62	2.11	2.57
.47	.57	1.03	1.49	1.94	1250	.90	1.11	1.45	1.67	2.16	2.62
.47	.57	1.03	1.49	1.94	1500	.90	1.11	1.45	1.67	2.16	2.62
.47	.57	1.03	1.49	1.94	2000	.90	1.11	1.45	1.67	2.16	2.62
.47	.57	1.03	1.49	1.94	2250	.90	1.11	1.45	1.67	2.16	2.62
.47	.57	1.03	1.49	1.94	2500	.90	1.11	1.45	1.67	2.16	2.62
.47	.57	1.03	1.49	1.94	3000	.90	1.11	1.45	1.67	2.16	2.62
.47	.57	1.03	1.49	1.94	3500	.90	1.11	1.45	1.67	2.16	2.62
.47	.57	1.03	1.49	1.94	4000	.90	1.11	1.45	1.67	2.16	2.62
.47	.57	1.03	1.49	1.94	4500	.90	1.11	1.45	1.67	2.16	2.62
.47	.57	1.03	1.49	1.94	5000	.90	1.11	1.45	1.67	2.16	2.62
.64	.66	1.13	1.59	2.08	6000	.96	1.20	1.55	1.78	2.27	2.76
.64	.66	1.13	1.59	2.08	7000	.96	1.20	1.55	1.78	2.27	2.76
.61	.71	1.22	1.74	2.21	12.5M	1.22	1.67	1.88	2.42	2.89	
.61	.71	1.22	1.74	2.21	15M	1.22	1.67	1.88	2.42	2.89	
.61	.71	1.22	1.74	2.21	20M	1.22	1.67	1.88	2.42	2.89	
.64	.80	1.37	1.88	2.29	25M	1.34	1.81	2.08	2.57	2.96	
.64	.80	1.37	1.88	2.29	30M	1.34	1.81	2.08	2.57	2.96	
.64	.80	1.37	1.88	2.29	35M	1.34	1.81	2.08	2.57	2.96	
.64	.80	1.37	1.88	2.29	40M	1.34	1.81	2.08	2.57	2.96	
.93	1.52	1.98	2.37	3.04	50M	1.81	2.08	2.57	2.96	3.04	
.93	1.52	1.98	2.37	3.04	60M	1.81	2.08	2.57	2.96	3.04	
.93	1.52	1.98	2.37	3.04	75M	1.81	2.08	2.57	2.96	3.04	
.93	1.52	1.98	2.37	3.04	100M	1.81	2.08	2.57	2.96	3.04	
.93	1.52	1.98	2.37	3.04	150M	1.81	2.08	2.57	2.96	3.04	
.93	1.52	1.98	2.37	3.04	200M	1.81	2.08	2.57	2.96	3.04	
.93	1.52	1.98	2.37	3.04	250M	1.81	2.08	2.57	2.96	3.04	
.93	1.52	1.98	2.37	3.04	300M	1.81	2.08	2.57	2.96	3.04	
.93	1.52	1.98	2.37	3.04	350M	1.81	2.08	2.57	2.96	3.04	
.93	1.52	1.98	2.37	3.04	400M	1.81	2.08	2.57	2.96	3.04	
.93	1.52	1.98	2.37	3.04	450M	1.81	2.08	2.57	2.96	3.04	
.93	1.52	1.98	2.37	3.04	500M	1.81	2.08	2.57	2.96	3.04	
.93	1.52	1.98	2.37	3.04	550M	1.81	2.08	2.57	2.96	3.04	
.93	1.52	1.98	2.37	3.04	600M	1.81	2.08	2.57	2.96	3.04	
.93	1.52	1.98	2.37	3.04	650M	1.81	2.08	2.57	2.96	3.04	
.93	1.52	1.98	2.37	3.04	700M	1.81	2.08	2.57	2.96	3.04	
.93	1.52	1.98	2.37	3.04	750M	1.81	2.08	2.57	2.96	3.04	
.93	1.52	1.98	2.37	3.04	800M	1.81	2.08	2.57	2.96	3.04	
.93	1.52	1.98	2.37	3.04	850M	1.81	2.08	2.57	2.96	3.04	
.93	1.52	1.98	2.37	3.04	900M	1.81	2.08	2.57	2.96	3.04	
.93	1.52	1.98	2.37	3.04	950M	1.81	2.08	2.57	2.96	3.04	
.93	1.52	1.98	2.37	3.04	1000M	1.81	2.08	2.57	2.96	3.04	

EXTRA CONTACT SLIDERS FOR VARIABLE RESISTORS—

P5213—For 10-watt. P5219—For 25-watt. P5217—For 50-80 watts. Each 15¢
P5218—For 100 and 200-watt resistors. Each 24¢

IRC BT INSULATED RESISTORS MEET JAN SPECS

Fully insulated, moisture-proof, filament type element in bakelite housing. BT's corresponds to JAN RC10 and RC20; BTA to JAN RC30 and BTB to JAN RC41. Tolerance = 10%. 5% tolerance available on special order at twice the price of 10% resistors. Specify resistance when ordering. 1/2-WATT BT's. 82 ohms to 22 megs. P5206—1 1/4"x1/4". Each 10¢
100 of one value..... Each 6¢
1-WATT BTA. 100 ohms to 22 megs. P5207—1 1/4"x1/4". Each 15¢
100 of one value..... Each 9¢
1/2-WATT BTB. 330 ohms to 22 megs. P5263—1 1/4"x1/4". Each 20¢
100 of one value..... Each 12¢

IRC TYPE "BW" INSULATED WIREWOUND RESISTORS

Similar to BT types, but contain a wirewound element, completely encased in molded compound. Tolerance = 10%. Specify resistance desired from RMA table listed above. 1/2-WATT BW-1/4. 3/8"x1/4". 0.27-820 ohms. P5298..... Each 10¢
100 of one value..... Each 6¢
1-WATT BW-1. 0.47-4700 ohms. P5299..... Each 15¢
100 of one value..... Each 9¢
2-WATT BW-2. 1 1/4"x1/4". 1-8200 ohms. P5299..... Each 20¢
100 of one value..... Each 12¢

IRC RESIST-O-GUIDE

3x5" color code chart. Old and new style codes. Tolerances; formulas; ruler. P19747..... 15¢

SPRAGUE "KOOLOHM" 5W & 10W WIREWOUND RESISTORS



Non-inductively wound with ceramic coated wire, covered with glazed ceramic. Heat and moisture resistant. Insulated for 10,000 V. 5KT (5W size) 1 1/2"x1/4". 10KT (10W size) 1 1/2"x1/4". Accuracy = 5%. Specify P5208 For 5W, P5209 For 10W.

Ohms	5KT	10KT	Ohms	5KT	10KT
5	.38	.44	1750	.41	.47
10	.38	.44	2000	.41	.47
15	.38	.44	2000	.41	.47
20	.38	.44	3000	.41	.47
25	.38	.44	4000	.41	.47
30	.38	.44	5000	.41	.47
40	.38	.44	6000	.41	.47
50	.38	.44	7500	.41	.47
75	.38	.44	8000	.41	.47
100	.38	.44	9000	.41	.53
150	.38	.44	10,000	.41	.53
200	.38	.44	12,000	.41	.59
250	.38	.44	12,500	.53	.59
300	.38	.44	14,000	.53	.59
400	.38	.44	15,000	.56	.59
500	.38	.44	17,500	.59	.59
600	.38	.44	20,000	.56	.65
700	.38	.44	25,000	.65	.71
750	.38	.44	30,000	.71	.76
800	.38	.44	40,000	.88	.97
900	.38	.44	50,000	1.06	1.18
1000	.38	.44	60,000	1.18	1.29
1250	.41	.47	70,000	1.29	1.29
1500	.41	.47			

IRC WW4 AND WW2 PRECISION RESISTORS

1 watt wirewound resistors accurate within = 1%. Non-inductive windings on low-loss ceramic forms having high insulation qualities and mechanical strength. WW4 have lug terminals; WW2 have knurled nut.



Stock No. P5203 Type WW4

Ohms	Each	Ohms	Type	Ohms	Each
0.1		1500		30,000	1.34
0.2		2000	1.20	40,000	1.34
0.5	1.23	2500		50,000	2.34
1		3000		60,000	1.59
5		3500		75,000	1.59
10		4000		100,000	1.72
25		5000	1.23	125,000	1.98
50		7500		150,000	1.98
100	1.20	10,000		175,000	2.25
200		12,500		200,000	2.25
250		15,000		225,000	2.47
300		20,000		250,000	2.47
500		22,500	1.34	300,000	2.69
1000		25,000		400,000	3.31
				500,000	3.53

Stock No. P5202 Type WW2

Ohms	Each	Ohms	Each	Ohms	Each
600,000	4.94	900,000	6.33	1.5 Meg	10.93
750,000	5.40	1 Meg	6.83	2 Meg	14.11
				2.5 Meg	17.07

CONTINENTAL CARBON 1W-1% "NOBELOY" TYPE X-1 RESISTORS

Metallic film

ELECTROLYTIC CAPACITORS

CORNELL-DUBILIER • SPRAGUE • MALLORY

(ORDER BY STOCK NUMBER AND SPECIFY BRAND)



CORNELL-DUBILIER TYPE "BR"

Small, handy dry electrolytics. Sealed in drawn aluminum cans. Cardboard mounting sleeves with polarity marked. Conveniently mounted, easy to use.



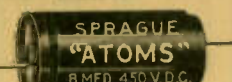
CORNELL-DUBILIER TYPE "BRM"

Etched foil electrolytics, hermetically sealed in aluminum cans. Have external cardboard insulating sleeve, metal mounting strap and bare wire leads.



CORNELL-DUBILIER TYPE "EDL"

Cardboard cased electrolytics, multiple wax filled. All have common negative. Center mounting strap. Color coded, insulated wire leads at both ends.



SPRAGUE TYPE "ATOMS"

Especially designed to take care of both TV and radio replacements. Small size, hermetically sealed dry electrolytic tubulars. Cardboard case with polarity marked. All duals have common negative.



MALLORY TYPES "TC" & "TCD"

Hermetically sealed aluminum tubus with external insulating sleeves. For under chassis mounting. Bare tinned copper leads at each end. All duals have common negative.

SINGLE SECTION

No.	Mfd	W.	V.	Sprague	C-D	Mallory	Ea.	No.	Mfd	W.	V.	Sprague	C-D	Mallory	Ea.
X100	1000	3				TC310	1.00	X140	10	150	150	TVA1408	BR1015	TC42	.62
X101	50	6					.56	X141	12	150	150	TVA1407	BR1215	TC43	.65
X102	100	6				BRH601	.74	X142	16	150	150	TVA1409	BR1615	TC44	.68
X103	250	6				BRH6025	.79	X143	20	150	150	TVA1410	BR2015A	TC45	.71
X104	500	6				BRH605A	.91	X144	25	150	150		BR2515		.73
X105	1000	6				BRH610	1.12	X145	30	150	150	TVA1412	BR3015A	TC47	.76
X106	1500	6				BRH610	1.23	X146	40	150	150	TVA1413	BR4015A	TC48	.79
X107	2000	6				BRH620	1.35	X147	50	150	150	TVA1414	BR5015A	TC49	.82
X108	100	12				BRH121A	.71	X148	60	150	150		BR6015		.88
X109	250	12				BRH1225A	.85	X149	80	150	150	TVA1418	BR8015A		.94
X110	500	12				BRH125A	1.00	X150	100	150	150	TVA1420			1.03
X111	1000	12				BRH1210	1.32	X151	150	150	150	TVA1422			1.12
X112	2000	12				BRH1220	1.52	X152	4	250	250	TVA1501	BR425	TC495	.59
X113	100	15				BRH151A	.73	X153	8	250	250	TVA1503	BR825	TC51	.68
X114	250	15				BRH1525A	.91	X154	10	250	250	TVA1504	BR1225A	TC52	.71
X115	500	15				BRH115A	1.03	X155	12	250	250	TVA1505	BR1225A	TC53	.73
X116	1000	15				BRH1510	1.35	X156	16	250	250	TVA1507	BR1625	TC54	.76
X117	2000	15				BRH1520	1.88	X157	20	250	250	TVA1508	BR2025	TC55	.79
X118	2	25				TVA1201	.53	X158	30	250	250	TVA1510	BR3025A		.85
X119	5	25				TVA1203	.59	X159	40	250	250	TVA1511	BR4025A	TC58	.91
X120	10	25				TVA1204	1.00	X160	50	250	250		BR5025	TC59	1.00
X121	20	25				BR202A	.59	X161	1	450	450		BR145		.65
X122	25	25				BR252A	TC29	X162	1	450	450	TVA1701	BR245		.65
X123	50	25				BR502A	TC29	X163	4	450	450	TVA1702	BR445		.68
X124	100	25				BRH251A	TC2501	X164	8	450	450	TVA1704	BR845A	TC71	.73
X125	250	25				BRH2525A	1.00	X165	10	450	450	TVA1705	BR1045A	TC72	.76
X126	500	25				BRH255A	1.35	X166	12	450	450	TVA1708	BR1245A	TC73	.79
X127	1	50				TVA1209	TC31	X167	16	450	450	TVA1708	BR1645A	TC74	.82
X128	2	50				TVA1301	.53	X168	20	450	450	TVA1709	BR2045A	TC75	.91
X129	5	50				TVA1303	TC30	X169	30	450	450	TVA1711	BR3045A	TC77	1.00
X130	10	50				TVA1304	TC32	X170	40	450	450	TVA1712	BR4045A	TC78	1.06
X131	20	50				BR205A	.59	X171	50	450	450	TVA1713			1.23
X132	25	50				BR255A	TC36	X172	80	450	450	TVA1716			1.65
X133	50	50				TVA1308	TC39	X173	4	500	500		BR450A		.71
X134	100	50				TVA1310	TC39	X174	8	500	500	TVA1902	BR850A		.76
X135	150	50				TVA1311	TC39	X175	10	500	500				.79
X136	250	50				TVA1312	TC50025	X176	16	500	500	TVA1905	BR1650A	TC81	.88
X137	500	50				TVA1312	TC50025	X177	20	500	500	TVA1906	BR2050A	TC83	.94
X138	4	150				TVA1402	TC41	X178	30	500	500	TVA1906	BR3050A	TC84	1.03
X139	8	150				TVA1405	TC41								

OUAL SECTION

No.	Mfd.	W/V	Sprague	C-D	Mallory	Ea.	No.	Mfd.	W/V	Sprague	C-D	Mallory	Ea.
X200	10-10	25	TVA2210			.82	X209	30-30	150	TVA2434	EDL3315	TC47	1.06
X201	20-20	25		EDL2202		.82	X210	40-20	150	TVA2438	EDL4215	TC48	1.03
X202	25-25	25			TCD26	.82	X211	40-20	150	TVA2442	EDL4315	TC49	1.06
X203	10-10	50	TVA2315	EDL115		.82	X212	40-20	150	TVA2445	EDL4415	TC50	1.09
X204	8-8	150	TVA2415			.88	X213	50-30	150	TVA2450	EDL5315	TC51	1.29
X205	16-16	150	TVA2420			1.06	X214	50-30	150	TVA2453	EDL5515	TC52	1.23
X206	20-12	150	TVA2425			.94	X215	80-50	150	TVA2460			1.29
X207	20-20	150	TVA2428	EDL2215	TCD45	.97	X216	80-40	150		EDL8415		1.32
X208	30-20	150	TVA2421	EDL3215		1.00	X217	80-50	150			TCD498	1.38
X209	30-30	150	TVA2434	EDL3315	TC47	1.06	X218	10-10	250			TC52	.97
X210	40-20	150	TVA2438	EDL4215		1.03	X219	16-8	250	AT816	EDL16825		1.00
X211	40-20	150	TVA2442	EDL4315		1.06	X220	16-16	250	AT261	EDL16D25		1.06
X212	40-20	150	TVA2445	EDL4415	TCD48	1.09	X221	20-20	250	TVA2515	EDL2225	TC55	1.09
X213	50-30	150	TVA2450	EDL5315	TCD49	1.15	X222	40-10	250	TVA2520			1.21
X214	50-30	150	TVA2453	EDL5515	TCD49	1.23	X223	80-10	250	TVA2525			1.50
X215	80-50	150	TVA2460			1.29	X224	8-8	450	TVA2720	EDL8D45	TC71	1.00
X216	80-40	150		EDL8415		1.32	X225	10-10	450	TVA2722			1.09
X217	80-50	150			TCD498	1.38	X226	15-15	450				1.29
X218	10-10	250			TC52	.97	X227	16-8	450	TVA2726	EDL16845		1.18
X219	16-8	250	AT816	EDL16825		1.00	X228	16-16	450		EDL16D45		1.32
X220	16-16	250	AT261	EDL16D25		1.06	X229	20-20	450	TVA2730	EDL2245	TC75	1.47
X221	20-20	250	TVA2515	EDL2225	TC55	1.09	X230	30-30	450	TVA2735			1.76
X222	40-10	250	TVA2520			1.21	X231	40-40	450	TVA2750			2.00
X223	80-10	250	TVA2525			1.50	X232	40-40	450				1.76
X224	8-8	450	TVA2720	EDL8D45	TC71	1.00	X233	40-40	450				2.00
X225	10-10	450	TVA2722			1.09	X234	40-40	450				2.00
X226	15-15	450			TC74	1.29							
X227	16-8	450	TVA2726	EDL16845		1.18							
X228	16-16	450		EDL16D45		1.32							
X229	20-20	450	TVA2730	EDL2245	TC75	1.47							
X230	30-30	450	TVA2735			1.76							
X231	40-40	450	TVA2750			2.00							

TRIPLE SECTION

Stock No.	Cap. Mfd.	Wkg. Volts	Sprague	C-D	Each
X100	20-20-20	150	TVA3440	EDL22215	1.29
X101	30-25-20	150		EDL32V215	1.32
X102	30-30-30	150	TVA3444		1.38
X103	40-20-20	150		EDL42215	1.32
X104	40-30-20	150	TVA3448	EDL43215	1.38
X105	40-40-20	150		EDL44215	1.44
X106	40-40-40	150	TVA3451	EDL44415	1.44
X107	80-40-20	150	TVA3455		1.62

TRIPLE SECTION

Stock No.	Cap. Mfd.	Wkg. Volts	Sprague	C-D	Each
X315	50-50-20	150-150-25	TVA3436	EDL5515C	1.47
X316	80-20-100	150-150-25		EDL8215C10	1.62
X317	80-40-20	150-150-25		EDL8415C	1.56
X318	75-40-10			EDL7V4125	2.03
X319	20-20-20	250-250-25		EDL2225C	1.32
X320	40-20-20	250-250-25		EDL4225C	1.50
X321	40-40-20				



**MALLORY
FP & WP Types**

Compact, sealed aluminum cases. Type anodes, Type WP with etched plate anodes. Solder lug type designed for high temperature. Twist prong mounting. Can is negative. With mounting plate.



**CORNELL-DUBILIER
UP & UPT Types**

Furnished with bakelite and metal mounting washers. Hermetically sealed aluminum cans. Tinned terminals. Can is negative; lugs positive. Designed for high temperature operation.



**SPRAGUE
TVL Types**

Hermetically sealed for long life. A twist of the mounting tabs locks units in place. Stand up under high temperatures found in TV receivers. With mounting plates.

CAPACITOR SIZE CHART

Code Letter	Size Dia. x H.	Code Letter	Size Dia. x H.	Code Letter	Size Dia. x H.
A	1/4 x 2"	E	1 1/2 x 3"	J	1 3/4 x 3 1/2"
B	1/2 x 2"	F	1 3/4 x 3"	K	1 3/4 x 4"
C	1 x 2 1/2"	G	1 3/4 x 3 1/2"	L	1 3/4 x 4 1/2"
D	1 x 3"	H	1 3/4 x 3"	M	1 3/4 x 4 1/2"
				N	1 3/4 x 5"

SINGLE SECTION

Stk. No.	Cap. Mid.	DCV. Wkg.	Mallory Type	C-D Type	Sprague Type	Size M C D S	Net Each
X400	527	3	.....	UPT100	TVL1010	B B	1.23
X401	1027	3	.....	UPT101	.....	H -	1.65
X402	1027	3	.....	UPT102	.....	A -	1.68
X403	3000	10	.....	UP3M-10	TVL1140	G G	1.64
X404	1000	15	WP039	UP1M-15	TVL1165	B B	1.64
X405	2000	15	WP041	UP2M-15	TVL1168	B B	2.03
X406	100	25	WP055	UP100-25	TVL1215	C C	.94
X407	500	25	WP057	UP100-25	TVL1220	C C	1.50
X408	1000	25	WP059	UP1M-25	TVL1230	C C	2.09
X409	4	50	FP063	.....	.....	A -	.73
X410	500	50	FP065	UP500-50	TVL1330	F F	1.56
X411	30	150	FP103	UP3015	TVL1408	A A	.94
X412	50	150	FP115	UP5015	TVL1415	B B	.97
X413	100	150	FP116	UP10015	.....	C C	1.18
X414	150	150	FP117	UP15015	TVL1430	D D	1.26
X415	300	150	FP119	.....	TVL1434	H -	1.65
X416	15	250	FP125	.....	TVL1505	A -	.91
X417	30	350	FP135	UP3035	.....	C D	1.23
X418	50	350	FP137	UP5035	TVL1622	C D	1.23
X419	80	350	FP138	UP8035	TVL1630	C G	1.68
X420	125	350	FP140	.....	TVL1638	H -	2.32
X421	10	450	FP142	UP1A157	TVL1705	A A	.91
X422	15	450	FP143	UP1545	TVL1709	B B	1.00
X423	20	450	FP144	UP2045	TVL1714	B B	1.06
X424	30	450	FP145	UP3045	TVL1720	C C	1.15
X425	40	450	FP146	UP4045	TVL1725	C C	1.21
X426	80	450	FP149	UP8045	.....	G H	1.79
X427	125	450	.....	.....	TVL1760	H -	2.26
X428	90	475	.....	UP9050	TVL1850	K J	2.06

*15,750 cycles. 160 cycles. 430 cycles.

DUAL SECTION

Stk. No.	Cap. Mid.	DCV. Wkg.	Mallory Type	C-D Type	Sprague Type	Size M C D S	Net Each
X500	250-1000	10-6	WP204	UPT200	TVL2140	F F F F	1.68
X501	1000-1000	15-15	WP200	UPT11M15	TVL2160	G G E	2.59
X502	20-20	150-150	FP208	UP2215	TVL2415	B B B	1.00
X503	30-30	150-150	FP211	UP3315	TVL2422	B B B	1.09
X504	40-20	150-150	FP210	UP4215	TVL2425	B B	1.06
X505	40-40	150-150	FP212	UP4415	.....	C B -	1.12
X506	50-30	150-150	FP213	UP5315	TVL2432	C B C C	1.18
X507	50-50	150-150	FP214	UP5515	TVL2435	C C C C	1.26
X508	80-40	150-150	FP216	UP8415	TVL2442	C G	1.35
X509	125-100	150-150	FP215	.....	.....	B -	2.00
X510	20-20	250-250	FP217	UP2225	TVL2515	B B	1.12
X511	40-40	250-250	FP221	UP4425	TVL2520	D E	1.47
X512	120-20	300-300	FP218	.....	TVL2588	H -	2.35
X513	30-30	350-300	FP228	.....	TVL2621	D' - E	1.56
X514	15-15	350-350	FP225	UP15035	.....	B -	1.32
X515	20-20	350-350	FP227	UP2235	.....	C C	1.35
X516	35-15	400-50	FP229	.....	.....	D -	1.53
X517	80-50	480-50	FP244	UP8045-V5	TVL2710	H H H	2.06
X518	20-50	450-250	FP230	.....	.....	D -	1.65
X519	20-50	450-350	FP235	UPT245-835	TVL2730	G H J	2.15
X520	10-80	450-400	FP550	.....	.....	H -	2.03
X521	10-10	450-450	FP231	UPT1145	TVL2750	B B B	1.10
X522	20-20	450-450	FP234	UP2245	TVL2755	D D D	1.52
X523	30-30	450-450	FP237	UP3345	TVL2759	G G G	1.79
X524	40-10	450-450	FP236	.....	.....	F -	1.56
X525	40-40	450-450	FP238	UPT4445	TVL2764	H H H	2.03
X526	50-40	450-450	FP239	.....	.....	H -	2.15
X527	50-50	450-450	FP240*	.....	.....	H -	2.26
X528	80-10	450-450	FP245	UPT8145	TVL2776	H H H	2.12
X529	40-40	475-200	FP250	.....	.....	H -	2.15
X530	20-10	475-300	FP255	.....	TVL2810	H -	2.32
X531	15-15	475-475	FP258	.....	.....	J -	1.38
X532	40-40	475-475	FP262	.....	TVL2830	H H	E 2.53
X533	80-50	475-450	FP246X	.....	.....	L -	2.85

*Designed for photo-flash applications; with insulating tube.

MOUNTING PLATES FOR TWIST PRONG CAPACITORS

For 3/8" dia. cans. X890-Bakelite, X891-Metal, Any Type
 For 1" dia. cans. X892-Bakelite, X893-Metal, Any Type
 For 1 1/2" dia. cans. X894-Bakelite, X895-Metal, Any Type

C-D TYPE HKGT PHOTO-FLASH CAPACITORS

For use in high-speed photographic equipment. Compact and lightweight. Heavy duty internal leads connected to bakelite cup insulated terminals.

Stock No.	C-D Type	Cap. Mid.	Watt. Sec.	Size, Inches L x W x H	Lt. Wts.	Net Each
X1390	HKGT1A00	15	30	3 1/4 x 2 1/4 x 3/4	2 1/2	11.17
X1391	HKGT1A01	25	50	3 1/4 x 2 1/4 x 3/4	4 1/4	12.35
X1392	HKGT115	28	71	3 1/4 x 2 1/4 x 3/4	4 1/4	13.99
X1393	HKGT1A02	15	50	3 1/4 x 2 1/4 x 3/4	3 1/4	11.17
X1394	HKGT103	25	80	3 1/4 x 2 1/4 x 3/4	5 1/4	14.70
X1395	HKGT104	32	100	3 1/4 x 2 1/4 x 3/4	6	24.11

TRIPLE SECTION

Stock No.	Cap. Mid.	DC Volts Working	Mallory Type	C-D Type	Sprague Type	Size M C D S	Net Each
X600	40-40	25-25-25	WP520	UP444-25	TVL3230	B B B	1.76
X601	20-250-100	150-15-15	FP303	UPT310	TVL3403	F F F	1.71
X602	100-25-50	150-25-50	FP312	.....	TVL3407	D - D	1.76
X603	15-15-1000	150-150-2	WP302	.....	TVL3422	B - B	1.76
X604	40-20-20	150-150-25	FP306	UP4215C10	.....	B B B	1.35
X605	40-20-100	150-150-25	FP307	UP4215C20	.....	C C C	1.47
X606	40-20-200	150-150-25	FP304	UP4315C	TVL3424	C - B	1.38
X607	40-30-20	150-150-25	.....	.....	.....	C B -	1.41
X608	40-40-20	150-150-25	FP310	UP4415C	.....	D -	1.65
X609	40-40-200	150-150-25	FP314	.....	.....	D -	1.65
X610	50-30-100	150-150-25	FP309	UP5315C10	TVL3427	C C C	1.59
X611	50-50-20	150-150-25	FP311	UP5515C	TVL3430	C C C	1.56
X612	20-20-20	150-150-150	FP354	UP2215	TVL3433	B B C C	1.35
X613	40-20-20	150-150-50	FP357	UP4415	TVL3437	C C C E	1.41
X614	40-40-40	150-150-150	FP357	UP44215	TVL3440	C C C E	1.33
X615	80-40-20	150-150-150	FP356	UP84215	.....	F - C	1.71
X616	120-120-40	150-150-150	FP358	.....	.....	H -	2.38
X617	30-20-20	200-200-25	FP313	UP3220C	.....	B B -	1.50
X618	90-80-20	200-200-50	FP318	.....	.....	H -	2.26
X619	15-20-20	250-150-150	FP360	.....	.....	H -	1.41
X620	20-15-20	250-250-25	FP315	UP215525C	.....	B B -	1.38
X621	40-20-20	250-250-250	FP363	UP42225	TVL3540	F D H	1.71
X622	100-60-20	300-150-25	FP326	UP1030-615C	TVL3560	H H H	2.47
X623	20-80-10	300-250-200	FP334	.....	.....	G -	2.03
X624	100-60-20	300-250-250	FP335	.....	TVL3562	H - L	2.88
X625	200-80-20	300-250-250	.....	.....	TVL3563	H - L	3.23
X626	30-20-20	350-350-25	FP311	UP335-330C	TVL3620	D D D	1.85
X627	15-10-20	350-350-25	FP328	UP3535C	TVL3630	B C E	1.47
X628	30-20-20	350-350-25	FP330	UPT3235C	TVL3636	H H H	1.82
X629	20-10-5	350-350-250	FP369	.....	.....	B -	1.50
X630	30-10-20	350-350-250	FP371	UP1335-225	.....	D B -	1.79
X631	10-10-10	350-350-350	FP367	UP11335	.....	D D -	1.41
X632	40-40-130	450-150-50	FP342	UPT300	TVL3706	G H H	2.15
X633	40-100-50	450-150-50	FP343	UP331	.....	H H H	2.32
X634	40-90-50	450-150-150	FP341	UP7445-9515	TVL3708	H H H	2.35
X635	20-60-100	450-250-25	FP352	UP4312	TVL3711	G H G	2.15
X636	20-40-10	450-250-250	FP353	.....	TVL3713	H G G	1.82
X637	20-15-15	450-350-300	FP380	.....	.....	H -	1.97
X638	10-30-30	450-400-300	FP344	UPT301	TVL3726	G G G	1.97
X639	10-10-20	450-450-25	FP332	UP1415C	TVL3731	B B C	1.41
X640	20-20-20	450-450-25	FP339	UP2245C	TVL3739	D D E	1.79
X641	30-30-20	450-450-25	.....	.....	TVL3741	G G	2.09
X642	40-40-20	450-450-25	FP346	UP4445C	.....	H H -	2.32
X643	80-40-100	450-450-25	FP364	UP78445C10	TVL3746	L M L	2.97
X644	20-10-50	450-450-50	FP366	UP274345V5	TVL3751	D D D	1.68
X645	60-40-75	450-450-50	FP368	.....		

PLASTIC TUBULAR, MICA, OIL-FILLED CAPACITORS

CORNELL-DUBILIER • SPRAGUE • MALLORY

(ORDER BY STOCK NUMBER AND SPECIFY BRAND)



CORNELL-DUBILIER TYPE "PTE"



SPRAGUE TYPE "TM" & "MB"



MALLORY TYPE "PT"

Molded plastic tubulars with leads welded to the capacitor section, and sealed. Constant capacity within 5% from 70° F. to 212° F.

Small, rugged paper tubulars. Tough molded construction designed to withstand extremes of heat, humidity and physical stress.

For applications where small size and ability to withstand heat are most important. Triple sealed plastic tubulars. Operate continuously at 85° C. Each lead sealed and fastened to cartridge.

400 Volts DC Working

Stock No.	Cap. Mfd.	Sprague	C-D	Mallory	Approx. Size	Each
X1200	.01	4TM81	PTE481	PT411	1/4x1 1/2	.15
X1201	.02	4TM82	PTE482	PT412	1/4x1 1/2	.15
X1202	.05	4TM85	PTE485	PT415	1/4x1 1/2	.18
X1203	.1	4TMP1	PTE4P1	PT401	1/4x1 1/2	.21
X1204	.25	4TMP25	PTE4P25	PT4025	1/4x1 1/2	.26
X1205	.5	4TMP5	PTE4P5		1/2x2 1/4	.38

600 Volts DC Working

Stock No.	Cap. Mfd.	Sprague	C-D	Mallory	Approx. Size	Each
X1250	.0001	6TMT1			1/4x1 1/2	.15
X1251	.00025	6TMT25			1/4x1 1/2	.15
X1252	.0004	6TMT4			1/4x1 1/2	.15
X1253	.0005	6TMT5			1/4x1 1/2	.15
X1254	.001	6TMD1	PTE6D1	PT621	1/4x1 1/2	.15
X1255	.002	6TMD2	PTE6D2	PT622	1/4x1 1/2	.15
X1256	.003	6TMD3	PTE6D3	PT623	1/4x1 1/2	.15
X1257	.004	6TMD4	PTE6D4	PT624	1/4x1 1/2	.15
X1258	.005	6TMD5	PTE6D5	PT625	1/4x1 1/2	.15
X1259	.006	6TMD6	PTE6D6	PT626	1/4x1 1/2	.15
X1260	.01	6TMB1	PTE6B1	PT611	1/4x1 1/2	.18
X1261	.015	6TMB15	PTE6B15		1/4x1 1/2	.18
X1262	.02	6TMB2	PTE6B2	PT612	1/4x1 1/2	.18
X1263	.03	6TMB3	PTE6B3	PT613	1/4x1 1/2	.21
X1264	.04	6TMB4	PTE6B4	PT614	1/4x1 1/2	.21
X1265	.05	6TMB5	PTE6B5	PT615	1/4x1 1/2	.24
X1266	.06	6TMB6	PTE6B6	PT616	1/4x1 1/2	.24
X1267	.1	6TMP1	PTE6P1	PT601	1/4x1 1/2	.26
X1268	.25	6TMP25	PTE6P25		1/2x2 1/4	.32
X1269	.5	*TC5	PTE6P5		1 1/2x3 1/4	.47
X1270		*TC10			1 1/2x3 1/4	.73

1600 Volts DC Working

Stock No.	Cap. Mfd.	Sprague	C-D	Approx. Size	Each
X1300	.0005	MB-7B		1/4x1 1/2	.35
X1301	.001	MB-D1	PTE16D1	1/4x1 1/2	.38
X1302	.002	MB-D2	PTE16D2	1/4x1 1/2	.38
X1303	.003	MB-D3	PTE16D3	1/4x1 1/2	.38
X1304	.004	MB-D4	PTE16D4	1/4x1 1/2	.38
X1305	.005	MB-D5	PTE16D5	1/4x1 1/2	.38
X1306	.0055		PTE16D55	1/4x1 1/2	.38
X1307	.006	MB-D6	PTE16D6	1/4x1 1/2	.38
X1308	.007	MB-D7	PTE16D7	1/4x1 1/2	.38
X1309	.0075	MB-D75	PTE16D75	1/4x1 1/2	.41
X1310	.008	MB-D8	PTE16D8	1/4x1 1/2	.41
X1311	.01	MB-S1	PTE16S1	1/4x1 1/2	.41
X1312	.015	MB-S15	PTE16S15	1/4x1 1/2	.41
X1313	.02		PTE16S2	1/4x1 1/2	.41
X1314	.025		PTE16S25	1/4x1 1/2	.41
X1315	.03		PTE16S3	1/4x1 1/2	.41
X1316	.04		PTE16S4	1/4x1 1/2	.41
X1317*	.05	TR-15		1/2x2 1/4	.41
X1318*	.015-.015	TR-215		1/2x2 1/4	.47

6000 Volts DC Working

Stock No.	Cap. Mfd.	Sprague	C-D	Approx. Size	Each
X1350	.0005	TVM-356	PTE60T5	1 1/2x3 1/4	.79
X1351	.001	TVM-216	PTE60D1	1 1/2x3 1/4	.79
X1352	.005	TVM-256	PTE60D5	1 1/2x3 1/4	.79
X1353	.01	TVQ-116	GTV60S1	1 1/2x3 1/4	.82
X1354	.01	TVQ-156	GTV60S5	1 1/2x3 1/4	.94

10,000 Volts DC Working

Stock No.	Cap. Mfd.	Sprague	C-D	Approx. Size	Each
X1375	.0005	TVM-351	PTE100T5	1 1/2x3 1/4	.88

*Furnished in cardboard case.

CORNELL-DUBILIER MOLDED MICAS



Standard micas are ±20%. Silver micas are ±5%. All are 1000 V test. 500 V DCW except sizes above .006 which are 600 V test and 300 V working. Types 1W, 1R and 1DR (Fig. A), 1/4"x1 1/4". Types 5W, 5R (Fig. B), 1/4"x1 1/4". Type 2 R (Fig. B), 1/4"x1 1/4".

STANDARD				SILVER			
No.	Type	Cap. Mfd.	Each	No.	Type	Cap. Mfd.	Each
X950	5W5V5	.15	.000005	X981	5RS5V5	.26	
X951	5W5Q1	.15	.00001	X982	5RS5Q1	.24	
X952	5W5Q2	.15	.00002	X983	5RS5Q2	.24	
X953	5W5Q25	.15	.000025	X984	5RS5Q25	.24	
X954	5W5Q3	.15	.00003	X985	5RS5Q3	.24	
X955	5W5Q4	.12	.00004	X986	5RS5Q4	.24	
X956	5W5Q5	.12	.00005	X987	5RS5Q5	.24	
X957	5W5Q7	.12	.00007	X988	5RS5Q7	.24	
X958	5W5T1	.12	.0001	X989	5RS5T1	.24	
X959	5W5T15	.12	.00015	X990	5RS5T15	.26	
X960	5W5T2	.12	.0002	X991	5RS5T2	.26	
X961	5W5T25	.15	.00025	X992	5RS5T25	.26	
X962	5W5T3	.15	.0003	X993	5RS5T3	.32	
X963	5W5T4	.15	.0004	X994	5RS5T4	.38	
X964	5W5T5	.15	.0005	X995	5RS5T5	.44	
X965	1W5T6	.15	.0006				
X966	1W5T7	.15	.0007	X996	2R5T7	.50	
X967	1W5T8	.15	.0008	X997	2R5T8	.56	
X968	1W5T9	.15	.0009	X998	2R5T9	.59	
X969	1W5D1	.18	.001	X999	1RS5D1	.65	
X970	1W5D15	.18	.0015	X1000	1RS5D15	.79	
X971	1W5D2	.24	.002	X1001	1RS5D2	.79	
X972	1W5D25	.25	.0025	X1002	1RS5D25	1.06	
X973	1W5D3	.29	.003	X1003	1RS5D3	1.24	
X974	1D5D4	.32	.004	X1004	1DWS5D	1.26	
X975	1D5D5	.35	.005	X1005	1DWS5D	1.32	
X976	1D5D8	.44	.006				
X977	1D3D7	.53	.007				
X978	1D3D8	.59	.008				
X979	1D3D9	.59	.009				
X980	1D3B1	.71	.01				

CORNELL-DUBILIER TYPES "YAB" & "YAT" OIL-FILLED CAPACITORS



Sealed in drawn metal shell containers and provided with leak-proof terminals on top or bottom of can (YAB, bottom; YAT, top). Impregnated and filled with Dykanol "G". Withstands wide temperature and voltage changes. Equipped with rugged metal mounting brackets. 2 1/2" mtg. centers. 1/4" thick, 2 1/4" W.

Type	Type	Cap. Mfd.	V DCW	Each
X1700	X1730	.05	600	2.12
X1701	X1731	.1	600	2.12
X1702	X1732	.25	600	2.26
X1703	X1733	.5	600	2.44
X1704	X1734	.05	1000	2.76
X1715	X1745	.1	1000	2.35
X1716	X1746	.25	1000	2.44
X1717	X1747	.5	1000	2.59
X1718	X1748	.5	1000	2.59

CORNELL-DUBILIER TYPE 4 TRANSMITTING MICAS



Molded in bakelite. Lug terminals and mtg. holes. Size: 1 3/4"x1 3/4". High insulation resistance. For grid and plate blocking.

600 V. Wkg. 1000 V. Test				
Stock No.	C-D No.	Cap. Mfd.	Each	
X1500	4-14050	.00005	.71	
X1501	4-13010	.0001	.71	
X1502	4-13020	.0002	.71	
X1503	4-13025	.00025	.71	
X1504	4-13050	.0005	.71	
X1505	4-12010	.001	.71	
X1506	4-12020	.002	.76	
X1507	4-12060	.006	1.06	
X1508	4-11010	.01	1.26	
X1509	4-11020*	.02	1.79	
X1510	4-11030*	.03	2.62	

1200 V. Wkg. 2500 V. Test				
Stock No.	C-D No.	Cap. Mfd.	Each	
X1530	4-23010	.0001	.94	
X1531	4-23025	.00025	.94	
X1532	4-23050	.0005	.94	
X1533	4-22010	.001	1.06	
X1534	4-22020*	.002	1.41	
X1535	4-22050*	.005	1.94	
X1536	4-21010*	.01	3.00	

2500 V. Wkg. 6000 V. Test				
Stock No.	C-D No.	Cap. Mfd.	Each	
X1550	4-53010	.0001	1.12	
X1551	4-53020	.0002	1.12	
X1552	4-53025	.00025	1.29	
X1553	4-53050	.0005	1.47	
X1554	4-52010	.001	1.65	
X1555	4-52020*	.002	2.44	
X1556	4-52040*	.004	3.32	
X1557	4-52050*	.005	3.76	

All thickness 1 1/4", except *—1 1/2".

CORNELL-DUBILIER TYPE "DYR" OIL-FILLED CAPACITORS



Oil-filled, sealed metal cases with leak-proof riveted terminals. Meet requirements of aircraft, marine and tropical use. Moisture-proof withstands 85° C. 600 V. DCW.

Stock No.	Type	Cap. Mfd.	Size Inches	Each
X1600	DYR 6005	.05	1 1/4"x1 1/4"	1.71
X1601	DYR 6010	.1	1 1/4"x1 1/4"	1.73
X1602	DYR 6025	.25	1 1/4"x1 1/4"	1.82
X1603	DYR 6050	.5	1 1/4"x1 1/4"	1.94
X1604	DYR 6100	1.0	2x1 1/4"x1 1/4"	2.20
X1605	DYR 6200	2.0	2x2x1 1/4"	2.94
X1606	DYR 6005S	.05-.05	1 1/4"x1 1/4"	2.15
X1607	DYR 6011	1-1	1 1/4"x1 1/4"	2.18
X1608	DYR 6022	.25-.25	1 1/4"x1 1/4"	2.20
X1609	DYR 6055	.5-.5	2x1 1/4"x1 1/4"	2.53
X1610	DYR 6110	1-1	2x2x1 1/4"	3.12
X1611	DYR 6111	1-1	1 1/4"x1 1/4"	4.27
X1612	DYR 6222	25-.25	2x1 1/4"x1 1/4"	2.79
X1613	DYR 6555	.5-.5	2x2x1 1/4"	3.38

SPRAGUE TYPE 68P MIDGET TUBULARS

For miniature radios.

100 Volts DC Working				
No.	Type	Cap. Mfd.	Size	Each
X1050	68P19	.25	1 1/4"x1 1/4"	.41
X1051	68P20	.5	1 1/4"x1 1/4"	.47

200 Volts DC Working				
No.	Type	Cap. Mfd.	Size	Each
X1056	68P11	.005	1 1/4"x1 1/4"	.21
X1057	68P12	.006	1 1/4"x1 1/4"	.21
X1058	68P14	.01	1 1/4"x1 1/4"	.24
X1059	68P15	.02	1 1/4"x1 1/4"	.26
X1060	68P16	.05	1 1/4"x1 1/4"	.29
X1061	68P17	.1	1 1/4"x1 1/4"	.35
X1062	68P18	.2	1 1/4"x1 1/4"	.38
X1063	68P24	.25	1 1/4"x1 1/4"	.41
X1064	68P25	.5	1 1/4"x1 1/4"	.47

400 Volts DC Working				
No.	Type	Cap. Mfd.	Size	Each
X1069	68P1	.001	1 1/4"x1 1/4"	.21
X1070	68P3	.003	1 1/4"x1 1/4"	.21
X1071	68P4	.004	1 1/4"x1 1/4"	.21
X1072	68P5	.005	1 1/4"x1 1/4"	.21
X1073	68P6	.006	1 1/4"x1 1/4"	.21
X1074	68P8	.01	1 1/4"x1 1/4"	.24
X1075	68P9	.02	1 1/4"x1 1/4"	.29
X1076	68P10	.05	1 1/4"x1 1/4"	.29
X1077	68P11	.1	1 1/4"x1 1/4"	.38
X1078				

CERAMIC CAPACITORS—PRINTED CIRCUITS

ERIE CERAMICONS

Small fixed capacitors consisting of ceramic dielectric with silver electrodes. Excellent high frequency characteristics and rugged construction. Ideally suited for coupling and by-passing. Maintain circuit stability and correct for oscillator drift.



For general replacements. 500 WV DC. Tolerance $\pm 20\%$. Style K—5 thru 680 mmf. Size: .562" L., .250" dia. Style L—750 thru 1500 mmf. Size: .812" L., .250" dia. Style 333—1800 thru 10,000 mmf. Size: 1.250" L., .315" dia. Specify type GP and capacity when ordering.

AVAILABLE CAPACITIES—MMF

5	24	50	120	270	510	1800	4000
10	25	51	150	300	560	2000	4700
12	27	56	180	330	680	2200	5000
15	30	68	200	360	750	2500	5600
18	33	75	220	390	1000	2700	6000
20	36	82	240	420	1200	3000	6800
22	48	100	250	500	1500	3300	7500

Any of Above Capacities, Each..... 15¢
In Lots of 50, Each..... 12 1/2¢

NPO CERAMICONS

Zero temperature coefficient. "Q" above 30 mmf is 1000 or higher; below 30 mmf "Q" decreases slightly as capacity decreases. Can be used as replacements for silver mica. 500 WV DC. Tolerance $\pm 10\%$. Style K—1.5 thru 20 mmf. Size: .562" L., .250" dia. Style L—25 and 35 mmf. Size: .812" L., .250" dia. Style 333—50 thru 100 mmf. Size: 1.250" L., .315" dia. Style 334—150 and 175 mmf. Size: 1.213" L., .415" dia. Specify NPD and capacity when ordering.

AVAILABLE CAPACITIES

MMf	Each	MMf	Each	MMf	Each	MMf	Each
1.5	.29	5.	.29	20	.29	75	.32
3.0	.29	6.8	.29	25	.29	100	.32
3.3	.29	8.2	.29	33	.29	150	.37
4.7	.29	10	.29	50	.32	175	.37

N750 CERAMICONS

Negative temperature coefficient. Provide temperature compensation to eliminate drift in oscillator coils. Ceramic dielectric and silver electrodes. 500 WV DC. Tolerance $\pm 10\%$. Style K—5, 10, 47 mmf. Size: .562" L., .250" dia. Style L—74 and 100 mmf. Size: .812" L., .250" dia. Specify N750 and capacity when ordering.

Any of Above Capacities, Each..... 29¢
In Lots of 50, Each..... 24¢

N080 CERAMICONS

Similar to N750 Ceramicons. Size: .550" L., .312" dia. Available in 10, 22, 33, 47 and 62 mmf. Specify N080 and capacity when ordering.

Any of Above Capacities, Each..... 35¢
In Lots of 50, Each..... 29¢

STAND-OFF CERAMICONS



For by-passing RF current to ground. All have 6-32 threaded stud. 500 V DC W. Tolerance $\pm 20\%$. Capacities available: Type 323 (1/4" high): 50, 100, 500 mmf. Type 324 (1/2" high): 1000, 1500 mmf. Specify type and capacity when ordering.

Any of Above Capacities, Each..... 35¢

FEED-THRU CERAMICONS



For by-passing RF to ground. Silvered ceramic tube with cadmium plated bushing soldered to outside electrode. Capacity 1500 mmf. 500 WV DC. Tolerance $\pm 20\%$. 3/4" L. Specify Type 362, Each..... 59¢
Lots of 25, Ea..... 49¢ Lots of 50, Ea..... 39¢

AEROVOX "BPD" DISC CAPACITORS



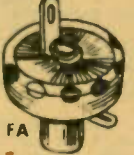
Ideal for TV and high frequency use. 1500 V. DC test. Ceramic dielectric separates fired silver plates. Very low moisture absorption, low power factor, high dielectric strength, high specific resistance and mechanical strength. Specify "BPD" type and capacity when ordering.

Aerovox Type "BPD"—2 and 3-Section					
Cap. Mfd.	Dia.	Each	Cap. Mfd.	Dia.	Each
.0047	1/8"	.15	2x.001	1/8"	.24
.0008	1/8"	.15	2x.0015	1/8"	.24
.001	1/8"	.15	2x.002	1/8"	.24
.0015	1/8"	.15	2x.003	1/8"	.26
.002	1/8"	.15	2x.004	1/8"	.28
.004	1/8"	.15	3x.0015	1/8"	.29
.005	1/8"	.15	3x.002	1/8"	.29
.01	1/8"	.18			



ERIE BUTTON SILVER MICA CAPACITORS

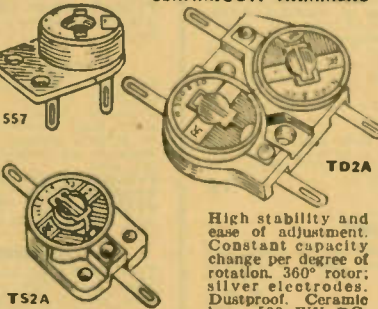
Midget silver mica for VHF and UHF work. Minimum external inductance and high internal series resistance. CB has ring type metal shell with three soldering ears. High potential terminal at either end for feed-thru connection. FA is fastened to chassis with 3-48 screw. Tolerance $\pm 10\%$. Size of CB: 1/4"x1/8"; FA: 1/4"x1/8".



TYPES 370-FA & CB (Specify When Ordering)

MMf.	Each	Lots/25	MMf.	Each	Lots/25
15	.73	.22	250	.65	.54
25	.73	.62	300	.73	.62
50	.43	.44	400	.73	.62
100	.53	.44	500	.73	.62
150	.53	.44	750	1.23	1.03
200	.59	.49	1000	1.47	1.22

CERAMICON TRIMMERS



High stability and ease of adjustment. Constant capacity change per degree of rotation. 360° rotor; silver electrodes. Dustproof. Ceramic base. 500 WV DC.

Type	Range MMf	Temp. Coef.	Each	Lots/25
TS2A	1.5-7	NPO	.88	.73
	1.5-12	NPO	.88	.73
	4-30	N500	.88	.73
Dual TD2A	1.5-7	NPO	1.47	1.22
	3-12	NPO	1.47	1.22
	4-30	N500	1.47	1.22
557	3-12	NPO	.73	.62
	5-25	NPO	.73	.62
	8-50	N750	.73	.62



TUBULAR TRIMMERS

For low minimum capacity and high ratio of maximum to minimum capacity. Molded plastic dielectric. Mount on panels having thickness of .040" to .065". Available in two sizes: 5-5 mmf. or 1-8 mmf. Specify Type 532 and capacity when ordering. Either Capacity Above Each..... 32¢
In Lots of 25, Each..... 27¢

CENTRALAB TV HI-VO KAPS TV CERAMIC CAPACITORS

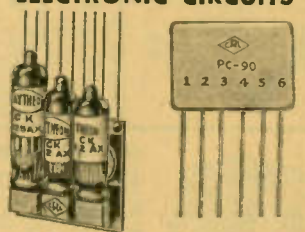


For filter and bypass applications in TV high voltage power supply, test equipment, radar, transmitter low power DC filters and low power, high voltage power supplies. Brass, heavily cadmium plated terminals. Capacity of all types: 500 mmf.

Type	VDCW	Dia. x L.	Term.	Each
TV1-501	10,000	1x.51"	A	1.03
TV2-501	10,000	1x.51"	B	1.03
TV3-501	10,000	1x.51"	C	1.03
TV1-502	20,000	1x1.05"	A	1.32
TV2-502	20,000	1x1.05"	B	1.32
TV3-502	20,000	1x1.05"	C	1.32
TV1-503	30,000	1.4x1.25"	A	2.65

(A) Plain Studs. (B) One Slotted, One Tapped. (C) Screw Type—one male, one female.

CENTRALAB PRINTED ELECTRONIC CIRCUITS



Interstage Coupling Plates

Three capacitors and two resistors bonded to Steatite ceramic plate and connected by metallo silver paths "printed" and fired on base plate. All capacitors 450 V DCW; all resistors 1/5 watt.

TRIODE COUPLERS

PC-70. C1, .005 mfd; C2 & C3, 250 mmf. R1 & R2, .5 meg. 1 1/2"x1 1/4" thick. 41¢
Centralab PC-70..... 41¢
PC-80. C1, .01 mfd; C2 & C3, 250 mmf. R1 & R2, .5 meg. 1 1/2"x1 1/4" thick. 44¢
Centralab PC-80..... 44¢
PC-81. As above, but R1 .25 meg. 44¢

PENTODE COUPLERS

PC-90. C1, .005 mfd; C2, 50 mmf; C3, 2000 mmf. R1, 4.7 megs; R2, 1 meg; R3, 2.2 megs. 1 1/2"x1 1/4" thick. 53¢
Centralab PC-90..... 53¢
PC-91. As above, but C2, 100 mmf; C3, .005 mfd. 53¢
Centralab PC-91..... 53¢

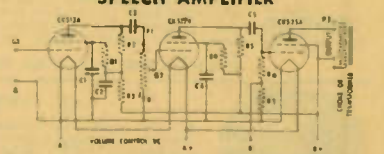
Vertical Integrator Plates

PC-100. C1, .002 mfd; C2 & C3, .005 mfd. R1, 22,000 ohms; R2 & R3, 8200 ohms. 1 1/2"x1 1/4" thick. 65¢
Centralab PC-100..... 65¢
PC-101. C1, .01 mfd; C2, .002 mfd; C3 & C4, .005 mfd. R1, 22,000 ohms; R2 & R3, 8200 ohms; R4, 22,000 ohms. 1 1/2"x1 1/4" thick. 73¢
Centralab PC-101..... 73¢

(AUDET) OUTPUT STAGE FOR AC-DC RADIO RECEIVERS

Printed electronic circuit audio-detector plate with seven leads. Furnishes values of all components in output stage of AC-DC radio sets. All capacitors 450VDCW; all resistors 1/5 watt. 1 1/2"x1 1/4" thick. PC-150. C1, .002 mfd; C2, C3 & C4, 220 mmf; C4, .005 mfd. R1, 6.8 megs; R2 & R3, 470,000 ohms. With construction booklet. 59¢
Centralab PC-150..... 59¢

(AMPEC) COMPLETE SPEECH AMPLIFIER



Here, in one compact unit, permanently bonded to a master plate, are all the components of an audio amplifier. Includes tube sockets, capacitors, wiring—everything except a volume control. This single unit measures 1 1/2"x1 1/4"x3/4" over tube sockets. At 1000 cps, amplification factor is 4000. "A" voltage is 1.2; "B" voltage 22. Input 1 millivolt. Similar units are widely used in hearing aids, as mike preamplifiers, etc. Uses two Raytheon CK512AX and one CK525AX tubes. Complete 3-stage amplifier including built-in sockets, but less tubes. 8.82
Centralab PC-200..... 1.88 each
Order Tubes by Type..... 1.88 each

RADIO & TV FILTERS—WAVETRAPS

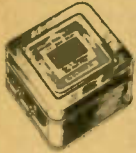


TV CLARIFIER

Reduces interference and distortion caused by electric signs, diathermy, neon lights, FM and amateur transmitters. Easily connects to antenna leads of your TV set. Can also be installed in AC line to power line interference. Two knobs for adjustment for best signal. Metal cabinet 3 1/4 x 3 1/4 x 1 1/4".

P1760E—Shpg. wt. 2 lbs. **4.50**

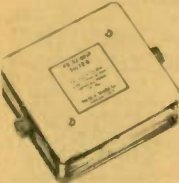
R. L. DRAKE TVI FILTERS HI-PASS TYPES FOR RECEIVERS



Improves TV reception by rejecting low frequency interference (below 50 mc) from amateur and short-wave transmitters, diathermy, appliances, etc. Provides high attenuation at all low frequencies; more than 60 db down at the television IF frequencies. Metal case, 3x3x1 1/4". Easily installed near TV tuner. Does not reduce strength of TV signal. Shpg. wt. 1 lb.

P1252E—TV-300-50HP, 300-ohm **3.50**
P12600—TV-72-50HP, 72-ohm **3.50**

LO-PASS TRANSMITTER FILTERS



Gives excellent attenuation on all antenna and feed system harmonic radiation above 30 mc when inserted in coax line or coax link between transmitter and antenna coupler. For TV-52-40LP and TV-300LP attenuation at channels 2 and 3 is 65 db; drops to 45 db for higher channels. For 10-160 meter amateur bands. TV-52-20LP has cutoff at 24 mc with attenuation of 65 db at 29 mc and 45 db for higher frequencies. For 15-160 meter band. Size 5x4x1 1/4". Wt. 2 lbs.

P1262E—TV-52-40LP, 52 ohm **12.69**
P12601—TV-52-20LP, 52 ohm **12.69**
P12602—TV-300LP, 300 ohm **12.69**

CORNELL-DUBILIER QUIETONE FILTERS



An efficient all-wave capacitive-inductive type filter for use with all types of electrical appliances where interference conditions are severe. Equipped with frame connection for reduction of radiation. Can be installed between radio and outlet or at offending appliance. Rating: 110V. AC or DC, 5 amps. Bakelite case. With cord and plug. Shpg. wt. 5 lbs.

P12493—C-D Type IF-18 **5.41**



Type IF-4. For use on small radio receivers where noise level is moderate. Connects to power line between radio plug and outlet. Rating: 110V. AC or DC, 5 amps. Bakelite case. Shpg. wt. 8 oz.

P12490—C-D Type IF-4 Filter **73¢**

FILTERS FOR USE AT APPLIANCE

Type IF-6. Plug-in type filter for interference conditions of moderately low intensity. Installed between appliance and power supply with short return lead which reduces radiation. Rating: 110V. AC or DC, 5 amps. Shpg. wt. 8 oz.

P12425—O-D Type IF-6 Filter **1.15**



Type IF-19. Capacitive-inductive type filter for use where interference is severe. Frame connection provided for ground. In bakelite case. Rating: 110V. AC or DC, 5 amps. With cord and plug. Shpg. wt. 2 lbs.

P12494—C-D Type IF-19 Filter **4.53**

INDUSTRIAL QUIETONE INTERFERENCE FILTERS



Type IF-7A. Capacitive-inductive type heavy duty filter for eliminating noise created by oil burners, motors, diathermy machines, elevators, etc. Supplied in steel cutout box, 8x4x4". With knock-outs for BX cable or conduit. For single phase 110-220V. AC or DC at 5 amps. Shpg. wt. 9 lbs.

P12500—C-D Type IF-7A Filter **8.08**

FLOUORESCENT NOISE FILTERS



Type IF-24. Mounts inside fixture by means of slotted strips which slip under any assembly bolt. Case is grounded and leads are shunted across power line. Dual capacitive type. Round metal casing, 7/8" diameter by 2"L. 8"-L. wire leads. For 110V. AC or DC. Shpg. wt. 8 oz.

P12501—C-D Type IF-24 Filter **73¢**



Type IF-54. Capacitive-inductive filter which provides extremely high attenuation over a wide range of frequencies. Drawn metal container, 2x2x1 1/4". Insulated wire leads 6"-L. Rated 2 amps, 110-220V. AC or DC. Shpg. wt. 1 lb.

P12491—C-D Type IF-54 Filter **1.47**

ICA "FILTERVOLTS"



For use with any all-wave or standard broadcast receiver. Contains heavy duty RF chokes, large filter capacitors, "PI" filter-unit. Eliminates noises caused by irons, toasters, vacuum cleaners, etc. Rated 5 amps at 32, 110 and 220V. AC or DC. Case size 5x4x4". With cord and plug. Shpg. wt. 3 lbs.

P12508 **4.90**



INTERMEDIATE MODEL "FILTERVOLT"
Eliminates extremely noisy radio reception due to power line disturbances caused by lights, electrical appliances, etc. Can be installed at set or at source of interference. Case size 4x3x3 1/4". With cord and plug.

P12507—Shpg. wt. 2 lbs. **2.94**

DON GOOD TELEPASS TV FILTERS

Effectively eliminates interference from "ham" stations, diathermy, X-ray, household appliances, neon signs, etc. All TV channels are passed with minimum loss and unwanted low frequency signals are greatly reduced. No adjustments required. Easily installed at receiver antenna terminals. 2 1/2 x 1 1/4 x 4".



P12585—For 300-ohm line **2.32**
P12586—For 72-ohm line **2.32**

DON GOOD VARIABLE TELETRAPS

Effectively reduces interference for the TV fan and amateur listener. Efficient, easy to install.

TV RECEIVER TELETRAPS

Model R-301 FM. Designed to eliminate interference at the receiver from FM stations on the 88-108 mc range. Shpg. wt. 1/2 lb.

P12587 **2.32**

Model R302-DA. Covers 26 mc to 32 mc. For diathermy and "ham" station interference.

P12588 **2.32**

AMATEUR TRANSMITTER TELETRAPS

Model T-301 LB. Installed on antenna feedline of amateur transmitter. Reduces or eliminates harmonic output on 50-90 mc. Low band.

P12589 **2.32**

P12590—Model T-302 HB. As above, 170-220 mc. High band. **2.32**

MEISSNER TV-FM WAVE TRAPS

Reduces unwanted signals encountered in FM and TV reception. Can be used with sets having balanced or unbalanced antenna input impedances of 400, 300, 72 or 50 ohms. Easily installed across antenna terminals.

P10255—Model 15-7510, 0-13 mc.

P10257—Model 15-7511, 13-27 mc.

P10258—Model 15-7512, 27-54 mc.

P10259—Model 15-7513, 54-108 mc.

P10260—Model 15-7514, 108-216 mc.

Any Model Above—Shpg. wt. 8 oz.

Each **3.55**



MEISSNER BROADCAST BAND WAVE TRAPS

Designed to eliminate interference caused by strong broadcast stations. Fully shielded and moisture protected. Limited coverage permits easy adjustment. Full instructions supplied for use as reject or by-pass arrangements. Shields 1 1/2 x 1 1/2" high. Brackets for mounting unit to chassis or cabinet. Wt. 4 oz.

P10261—Model 15-8479, 400-700 kc.

P10262—Model 15-8480, 050-1000 kc.

P10263—Model 15-8481, 050-1600 kc.

Any Model Above, Each **1.07**



MEISSNER LINE FILTER

Type 15-7515. Inductor-capacitor type which filters both sides of line. Rejects interference from electric shavers, electric fans, food mixers, etc. 3 amps at 110V. AC or DC.

P12502—Shpg. wt. 4 oz. **4.61**



MALLORY INTERFERENCE FILTERS PLUG-IN TYPES

(A) **Type X-8.** For medium interference. Plug into socket ahead of affected installation. Plastic case, 1 1/2 x 2 1/2 x 1 1/2". Rated 15 amps at 125V. AC or DC. Shpg. wt. 8 oz.

P12509 **94¢**

(B) **Type X-5.** Triple capacity with provision for return lead to appliance. For vacuum cleaners, food mixers, etc. 1 1/2 x 2 1/2". 5 amps at 110-220V. AC or DC. Shpg. wt. 8 oz.

P12523 **1.59**

(C) **Type X-3.** Capacitor type for use between set and outlet. 5 amps at 110-220V. AC or DC. Has receptacle for appliance plug. 1 1/2 x 2 1/2".

P12510—Shpg. wt. 6 oz. **1.06**

(D) **Type Z-6.** Dual inductance-capacity filter with provision for return lead to ground. Suppresses severe interference. 3 amps at 110-220V. AC or DC. Use at radio or noise source. 1 1/2 x 3 1/4".

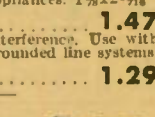
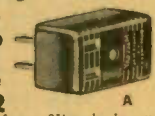
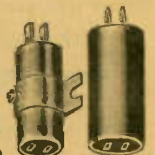
P12516—Shpg. wt. 9 oz. **2.12**

Type Z-4. Similar to above, but where return lead from filter is inconvenient. For electric razors, vibrators and household appliances. 1 1/2 x 2 1/2".

P12524 **1.47**

Type Z-2. Capacitor-inductance filter for medium interference. Use with electric razor or small appliances. Most effective on grounded line systems. 1 1/2 x 2 1/2". 3 amps at 110-220V. AC or DC.

P12511—Shpg. wt. 6 oz. **1.29**



W-7 MOTOR TYPE

Dual capacity unit. Use on motor brushes or rings. Bracket for mounting to frame. For moderate interference. 1 1/2 x 2", 115-220V. AC or DC.

P12512—Shpg. wt. 4 oz. **79¢**

Type W-11. As above, for severe interference.

P12513—1 1/2 x 3". Shpg. wt. 6 oz. **1.23**



HEAVY DUTY TYPES

Type LC-5. Combination inductance-capacity filter for portable plug-in applications having severe interference. With cord and plug. Has receptacle for appliance and binding post for return wire lead. 2 1/2 x 3 1/2 x 3 1/2". 5 amps, 115-220V. AC or DC. Case has mounting flanges.

P12514—Shpg. wt. 8 lbs. **6.61**

Type LC-10. As above, rated 10 amps.

P12515 **8.82**



FLOUORESCENT FILTER

Eliminates noise from 115V. 50/60 cycle fluorescent. Leads shunted across power line. 4 1/2 x 1 1/2 x 1 1/2".

P12520—Shpg. wt. 1 lb. **88¢**



CONVERTERS—CHARGERS—ELIMINATORS—VIBRATORS



CORNELL-DUBILIER CONVERTERS

Provide smooth, dependable operation of radios, amplifiers, intercoms and other H.P.F. appliances. Deliver 110-volt, 60-cycle AC from 6, 12 and 110-volt DC sources. Completely RF filtered for broadcast, short wave and FM. Models 6R5, 6R10, 12R8 and 12R15 feature 4-way adjustable load control switch. Model 110R10 includes 3-way control terminal board. "Phantomswitch" can be added Model 110R25.

Type No.	Uses Vbr.	DC No. Inpt.	Watts Int. Cont.	Size W x L x H	Shgp. Wt., lbs.	List Price	NET EACH
6R5	3103	6	55 50	6 3/4 x 7 1/2 x 5 1/4"	12	48.25	28.37
6R10	4123	6	125 100	7 1/2 x 12 1/4 x 7 1/4"	19	68.45	40.25
12R8	3087	12	120 80	6 3/4 x 7 3/8 x 5 1/4"	12	48.25	28.37
12R15	3047	12	200 150	7 1/2 x 12 1/4 x 7 1/4"	22	90.80	53.39
110R10	1316	110	150 100	6 3/4 x 7 3/8 x 5 1/4"	10 1/4	45.95	27.02
110R15	1315	110	200 150	6 3/4 x 7 3/8 x 5 1/4"	12 1/4	56.10	32.99
110R25	1315H	110	300 250	6 3/4 x 12 1/4 x 8 1/4"	22 1/4	78.20	45.98



CORNELL-DUBILIER TV CONVERTERS

Specialized designed to meet the critical power conversion requirements of TV. Delivers 110 volts, 60 cycles AC from 110 volts, DC power source. RF filtered for broadcast, short wave, FM and TV. Model 110RT15 features "phantomswitch" and TV frequency control. 110RT25 has frequency control and plug-in construction for the addition of "phantomswitch."

Type No.	Uses Vbr.	DC No. Inpt.	Watts Int. Cont.	Size W x L x H	Shgp. Wt., lbs.	List Price	NET EACH
110RT15	3077	250	150	6 3/4 x 12 1/4 x 7 1/4"	17	74.75	43.95
110RT25	1315H	300	250	6 3/4 x 12 1/4 x 8 1/4"	22 1/4	79.95	47.01
110RT35*	3079*	500	350	7 1/4 x 14 1/4 x 8 1/4"	40 3/4	143.50	84.48

*Fully automatic power conversion and "phantomswitch."

CORNELL-DUBILIER "PHANTOMSWITCH"

For use with Models 110R25 and 110RT25. Self-contained plug-in unit. No wiring is necessary. Automatically turns converter on or off with the operation of the switch on the AC equipment. List \$16.70. **9.82**
C-D Model 3155—Shgp. wt. 2 1/4 lbs.

C-D CONVERTERS FOR TAPE & WIRE RECORDERS

For operation of 110V., 60-cycle AC wire and tape recorders in 110V. DC areas—up to 150 watts continuous and 200 watts intermittent. Sine-wave output identical to commercial power, producing wire and tape recordings from DC equal to AC. Completely free of hum, hash or buzz. Excellent load regulation insures proper voltage for record, rewind, playback or standby. RF filtered for clear reception in broadcast band. Can be used in recording directly from radio. Manual ON-OFF switch. Baked hammered enamel finish over copperplate. Chrome handle, rubber feet. 6" W., 12 1/4" L., 7 1/4" H. Shgp. wt. 2 1/4 lbs. **50.01**
C-D Model 110WR15A
C-D Model 110WR15B—Same with "Phantomswitch", Wt. 2 1/2 lbs. \$9.32

C-D PHONO MOTOR CONVERTERS

For operation of automatic and manual record players. Supplies filtered, 110-volt, 60-cycle AC power from 110-volt DC source. Hammered enamel finish. Has leads for permanent wiring installation. Output 75 watts intermittent; 30 watts continuous duty. Shgp. wt. 3 lbs. 3 1/4 x 6 1/2 x 2 1/4". **10.11**
C-D Model 110PA5—List Price \$17.20.
C-D Model 110PB5—Same as above but with cord, plug, receptacle and slide switch. For external connection. List Price \$19.50. **11.47**

C-D BATTERY ELIMINATOR-CHARGER

Provides 6-volt DC power from 110V., 60-cycle AC source. 60 watts continuous output. Built-in voltmeter and ammeter give accurate, visible adjustment of output voltage. 7-position switch provides choice of 4, 5, 6, 7, 8, 9 or 10 amps. Ideal for testing auto radios and charging batteries. Size: 7 1/4" W., 12 1/4" L., 8 1/4" H., Shgp. wt. 1 1/2 lbs. List \$93.20. **37.16**
C-D Model 110BA6

Model 110BA12—Supplies 6 and 12 V. DC for servicing and testing auto, truck and boat radios and appliances. 120-watt continuous output. Built-in ammeter and voltmeter. 7-step switch from 8 to 20 amps at 6V., or 4 to 10 amps at 12V. Hammered enamel finish. 7 1/4" W., 13" L., 8 1/4" H. Shgp. wt. 27 lbs. List \$98.35. **57.84**

C-D AUTO & PORTABLE SET VIBRATORS

Cornell-Dubilier Type C-1 Universal 6-Volt Vibrator—This model takes care of a majority of auto and portable set vibrator replacements. A direct replacement for Mallory types 4-4, 294, Radiart 5300, 80-1, Utah NP-42, Delco 5,040,000 and 5,052,378, and Meissner E01. Shgp. wt. 8 oz. **1.47**
Cornell-Dubilier C-1 Universal 6V. Vibrator.

C-D Type	Mallory Equiv.	NET EACH	C-D Type	Mallory Equiv.	NET EACH
5300	204	2.88	5335	851	2.88
5301	510P	2.88	5342	859†	2.44
5303	204C	2.88	5400	248	4.53
5314	1100	2.88	5406	249	4.53
5320	505P	2.88	5425	273C	4.53
5321	854	2.88	5426	716	4.53
5323	507P	2.44	5468-2	...	6.29
5326	859*	2.44	5469-2	...	6.29
5331	204SW	2.88			5.76

* For Philco Sets. † For Motorola Sets.

VIBRATORS FOR C-D CONVERTERS

C-D Type	NET EACH	C-D Type	NET EACH	C-D Type	NET EACH
1315	7.20	3077	8.55	3103	7.20
1315H	8.46	3079	11.41	4123	10.05

VIBRATORS FOR MOBILE EQUIPMENT

	NET EACH		NET EACH		NET EACH
5506	4.20	5519	2.88	5621	4.06
5515	4.06	5610	4.53	5622	5.03
5518	4.06	5620	4.53	5623	4.53

CORNELL-DUBILIER VIBRATOR GUIDE

P19728 FREE

ATR STANDARD & HEAVY DUTY INVERTERS

Recommended for operating AC radios, PA systems, amplifiers, etc. from DC voltages. Extremely well filtered to insure interference-free radio reception. All models listed below have 110V., 60-cycle AC output. Standard models measure 8 1/4 x 5 1/4"; shgp. wt. 10 lbs. Heavy duty model measures 6 1/4 x 11 1/4 x 8 1/4"; shgp. wt. 30 lbs.

ATR Type	DC Volts Input	Watts Int.	Cont.	NET EACH
6R80	6	85	75	32.31
12R8C	12	125	100	32.31
32R8C	32	150	100	32.31
110R8C	110	250	150	32.31
110ARMH*	110	325	225	46.89
110BRHD*	110	500	350	58.53
220R8C	220	250	180	36.87

*Heavy Duty Model



VIBRATORS FOR ABOVE

ATR Type 611—For 6R8C Inverter. **6.17** EACH
ATR Type 11010—For 110R8C Inverter.
ATR Type 11011—For 110ARMH Inverter.
ATR Type 11024—For 110BRHD Inverter. **11.47**

MALLORY BATTERY CHARGERS

Charge any storage batteries used in autos, buses, trucks, tractors, small boats, planes, on the farm and for industrial applications. Taper charging feature prevents damage to battery plates. Excellent power source for electroplating, relays, generator fields, etc.



Type	Fig.	Max. To Volts	DC Amps Taper	Size	Shgp. wt. lbs.	List Price	NET Each
6AC6	B	6	4	6	4 1/4 x 7 1/4 x 3 3/4"	7	22.95 15.00
6AC10	A	10	7	6	6 x 8 x 4 1/4"	12 1/4	30.95 20.22
12AC5	A	5	3	12	6 x 8 x 4 1/4"	11	37.95 24.79
6AC4	B	4	2	6	4 1/4 x 7 1/4 x 3 3/4"	5	16.95 11.07

CIGARETTE LIGHTER PLUG FOR BATTERY CHARGERS

Permits charging of batteries through cigarette lighter receptacle. Plug fits into this receptacle. 6" leads connect to clips on leads of chargers. Shgp. wt. 6 oz. **1.18**
Mallory Type R655

MALLORY MAGNESIUM-COPPER SULFIDE RECTIFIERS

Replacements for battery chargers, eliminators, pin-ball machines, etc. All metal construction. Assembled under high pressure to withstand severe vibrations, shock and temperatures of -90° to +205° F. "Self-healing" rectifying film protects against accidental damage due to voltage surge. IBR can be used for reversing direction of HO model trains and 1B12R for O gauge trains.



Type No.	AC Volt. Input	DC Volt. Output	Cont. Amps.	Used In	NET Each
IB4R	3.6	1.7	1.5	GTC Battery Elim.	1.47
IB8R	7.2	3.4	1.5	GTC Battery Elim.	1.76
IB1201J	10.8	5.2	1.3	Elec. Fence Supply	2.09
F16C3	14.4	6.8	3.9	Mallory 3C, 6AC4	3.95
1616CB7	14.4	6.6	6.0	Mallory 5555	5.33
F24H1P	21.6	10.4	4.8	Mallory 5355B, 6AC6 Pin Ball Machines	6.13 6.20

SELENIUM BATTERY ELIMINATORS

For "A" and "B" battery replacement in portable and farm radios using 4 to 7 tubes. Converts such sets for operation on 110V., 60 cycles AC. Provides completely filtered and hum-free reception. Uses no tubes. Easy to install. Universal sockets for all types battery plugs. Delivers 1.5V. "A" and 90V. "B". Size: 2 1/4 x 4 1/2 x 6 1/2". **9.85**
P15708—Shgp. wt. 5 lbs.
P15704—As above but uses tube rectifier which is included. **10.88**



GE TUNGAR BULBS FOR CHARGERS

Bulb type rectifier for replacement in chargers, "A" eliminators, etc. Average shgp. wt. 1 1/4 lbs.

Stock No.	Type	Amps.	GE No.	Eq.
P21801	B	2	12X825	4.05
P21802	C	2	206501	4.05
P21804	B	5	20X872	5.15
P21903	D	6	189049	4.41
P21911	D	15	217283	8.82



MALLORY REPLACEMENT VIBRATORS

Type 4-4 is replacement for Mallory 294, Radiart 5300, 80-1, Utah NP-42, Delco 5,040,000, 5,052,378, and Meissner E01. Shgp. wt. 8 oz. **1.47**
Mallory Type 4-4 Vibrator
All vibrators below are rate at 6V. except W245A and W240 rated at 4V; T4002 and T4003 rated at 2V.

Type	Eq.	Type	Eq.	Type	Eq.	Type	Eq.	Type	Eq.
222	5.38 247	4.53 298	3.73 742	4.53 853	2.88 953W	4.53			
245	4.53 248	4.53 505P	2.88 743	4.53 854	2.88 954	4.53			
245A	4.53 249	4.53 506P	3.73 748	4.53 859	2.88 1100	2.88			
246C	4.53 273	5.38 509P	2.44 825C	4.06 860	2.88 1501	3.73			
W245A	4.53 273D	4.53 273D	4.53 826C	3.73 870	2.88 T4002	6.29			
246	4.53 292	3.73 716	4.53 835	3.73 903M	2.44 T4003	5.76			
246A	4.53 294	2.88 725C	4.53 852	2.88 952W	4.53 4-4	1.47			



MALLORY REPLACEMENT GUIDE

Includes alphabetical listing of radio and vibrator power supplies by manufacturer and model number. Gives Mallory replacement in each case. No charge with purchase of vibrator. **15c**
P18993

MALLORY VIBRATOR DATA BOOK — A complete technical manual on the operation and application of vibrators. **98c**
P18992

MALLORY VOLUME CONTROLS

MALLORY MIDGETROL



A high quality round shaft carbon control only $1/4$ " in dia. to service radio sets, amplifiers and TV. Shaft can be easily cut to any required length, and is readily adaptable to any type knob. Supplied with two steel shaft and knob adaptors for knurled and push-on knobs, one Pal-nut and instruction sheet.

Type	Ohms	Taper	Type	Ohms	Taper	Type	Ohms	Taper
U-12	5M	1	U-33	50M	1	U-46	250M	4
U-14	5M	4	U-34	50M	2	U-48	500M	1
U-16	10M	1	U-35	50M	4	U-50	500M	4
U-19	10M	2	U-36	75M	1	U-51	750M	1
U-20	10M	4	U-39	100M	1	U-53	1 meg.	1
U-21	15M	1	U-40	100M	2	U-54	1 meg.	4
U-22	15M	2	U-41	100M	4	U-55	2 meg.	1
U-24	20M	1	U-42	150M	1	U-56	2 meg.	4
U-26	20M	4	U-43	200M	4	U-57	3 meg.	1
U-28	25M	2	U-44	250M	1	U-59	3 meg.	4
U-29	25M	4	U-45	250M	2	U-65	5 meg.	1

Any Type Above, Each **73¢**

SINGLE TAPPED MIDGETROLS

Type	Ohms	Tap At	Type	Ohms	Tap At	Type	Ohms	Tap At
UT-420	250M	50M	UT-431	500M	225M	UT-448	2 meg.	250M
UT-425	350M	70M	UT-440	1 meg.	200M	UT-454	2 meg.	400M
UT-429	500M	50M	UT-438	1 meg.	300M	UT-449	2 meg.	600M
UT-427	500M	100M	UT-443	1 meg.	450M	UT-451	2 meg.	900M
UT-430	500M	150M	UT-450	2 meg.	125M			

Any Type Above, Each **1.09**

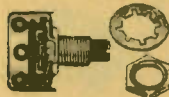
DOUBLE TAPPED MIDGETROLS

Type	Overall Resistance	Tap Resistance		Type	Overall Resistance	Tap Resistance	
		Tap 1	Tap 2			Tap 1	Tap 2
UDT-283	500M	100M	200M	UDT-295	2.25 Meg.	250M	500M
UDT-289	1 Meg.	250M	500M	UDT-296	2.25 Meg.	500M	1 Meg.
UDT-291	1.5 Meg.	225M	600M				

Any Type Above, Each **1.09**

TV AND SPECIAL APPLICATION MIDGETROLS

Has fixed, knurled, slotted bakelite shaft, protrudes $3/4$ " beyond bushing.



Type	Ohms	Taper	Type	Ohms	Taper
SU-14	5M	4	SU-50	500M	4
SU-20	10M	4	SU-54	1 Meg.	4
SU-29	25M	4	SU-56	2 Meg.	4
SU-35	50M	4	SU-59	3 Meg.	4
SU-41	100M	4	SU-67	5 Meg.	4
SU-46	250M	4			

Any Type Above, Each **88¢**

ATTACHABLE MIDGETROL SWITCHES

Easily and quickly attached to any midgetrol shown on this page without disassembling control. Wt. 2 oz.



Type	Description	Each
US-26	Single pole, single throw	.35
US-26T	SPST—Has dummy terminal	.44
US-27	Double pole, single throw	.44
US-28	Single pole, double throw	.44

TV FOCUS CONTROLS

Designed especially for focus control replacement in TV sets. $1/4$ " diameter 2 " long fixed shaft, 4 wts. wire wound.

Mallory Type TVF140—1500 ohms (maximum) **1.09**
Mallory Type TVF143—2500 ohms (maximum) **1.09**

UNIVERSAL EXTENSION SHAFTS

Type	Description	Each
RS242	4" L. x $1/4$ " dia. x $1/8$ " flat	.24
RS243	4" L. x $1/4$ " dia. x $1/8$ " flat	.24
RS244	4" L. x $1/4$ " dia. x $1/8$ " flat	.24
RS245	2" L. x $1/4$ " dia. x $1/8$ " slot	.26

CLAROSTAT SERIES "M" CONTROLS

Compact carbon controls with high operating efficiency and stability due to exclusive stabilized element. Only $1 1/2$ " diameter by $1 1/2$ " (with switch $1/4$ " deep). Shaft is $2 1/4$ " long x $1/8$ " and has $3/32$ " brass bushing with nut. Last letter of type number identifies the taper. Switches to fit these controls listed below.

Type	Ohms	Type	Ohms	Type	Ohms	Type	Ohms	Type	Ohms
M-5-S	500	M-27-S	10M	M-41-W	25M	M-52-S	200M	M-63-Z	1 meg.
M-8-S	1000	M-29-U	10M	M-44-S	50M	M-55-S	250M	M-66-Z	2 meg.
M-11-S	2000	M-30-V	10M	M-45-W	50M	M-64-Z	250M	M-67-Z	3 meg.
M-15-S	3000	M-32-S	15M	M-46-Z	50M	M-68-S	500M	M-68-Z	4 meg.
M-19-U	5000	M-33-U	15M	M-47-S	75M	M-69-Y	500M	M-69-Z	5 meg.
M-20-U	5000	M-37-U	20M	M-49-S	100M	M-60-Z	500M	M-66-S	10 meg.
M-23-S	7500	M-40-S	25M	M-51-Z	100M	M-61-S	1 meg.	M-69-Z	10 meg.

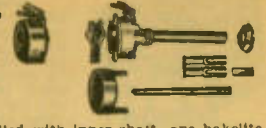
Any of Above Types, Each **73¢**
Clarostat SW-A "Ad-A-Switch" for "M" Controls. SPST **35¢**
Clarostat SW-A2—DPST Switch for "M" Controls **44¢**

CLAROSTAT TAPER CODE

U—Linear, Standard Pot. W—Left Hand, Screen Grid
L—Left Hand, Ant. and C Bias Volt. Phono Pickup
V—Right Hand, C Bias Rheostat Y—Left Hand, Audio Shunt,
Z—Left Hand, Audio Shunt, AVC, Tone AVC for steep taper

DUAL CONCENTRIC MIDGETROLS

Assembly of one front and one rear section makes a complete and fool-proof dual concentric control quickly and easily. Both sections $1/4$ " diameter. Exactly duplicates original. Mounting depth less switch, $1 1/4$ " with switch, $1 3/4$ " overall. No eccentricity or mechanical binding between shafts. Each front section supplied with inner shaft, one bakelite spacer, one coupling cup, two shaft ends to fit flatted or split knobs.



DUAL CONTROLS

Front	Rear	Ohms	Taper	Front	Rear	Ohms	Taper
UF13R	UR13R	1000	2	UF54L	UR54L	50M	4
UF13L	UR13L	1000	4	UF15A	UR15A	100M	1
UF15R	UR15R	1500	2	UF15R	UR15R	100M	2
UF23R	UR23R	2000	2	UF15L	UR15L	100M	4
	UR23L	2000	4	UF254A	UR254A	250M	1
UF53R	UR53R	5000	2		UR254L	250M	4
UF53L		5000	4	UF55A	UR55A	500M	1
UF73R		7000	2	UF55R	UR55R	500M	2
	UR14R	10M	2	UF55L	UR55L	500M	4
UF14L	UR14L	10M	4	UF16A	UR16A	1 meg.	1
UF253R		25M	2	UF16L	UR16L	1 meg.	4
UF253L	UR253L	25M	4	UF26A	UR26A	2 meg.	1
UF34A		30M	1	UF26L	UR26L	2 meg.	4
UF54A		50M	1	UF56L	UR56L	5 meg.	4

Any of Above Front Sections, Each **1.18**
Any of Above Rear Sections, Each **.59**

SINGLE TAPPED CONTROLS

Front	Rear	Ohms	Tap At	Front	Rear	Ohms	Tap At
	UR254-T753	250M	75M	UF16-T25	UR16-T25	1 meg.	200M
	UR364-T74	350M	70M		UR16-T254	1 meg.	250M
UF65-T64	UR55-T64	500M	60M	UF16-T35	UR16-T35	1 meg.	300M
UF65-T254		500M	250M		UR26-T25	2 meg.	200M
	UR16-T1253	1 meg.	125M		UR26-T95	2 meg.	900M

Any of Above Front Sections, Each **1.32**
Any of Above Rear Sections, Each **.73¢**

ACCESSORY PARTS FOR MIDGETROLS

DS-36—Flatted split knurl shaft end. Special for Zenith.
DS-36—Special 3 " extension shaft for tubular shaft Midgetrols. Also used for coupling a front and rear section together to make a single shaft dual control for oscilloscope and other push-pull amplifier service.

Either Above, Each **26¢**
EB-150—Special bushing $1/4$ "-28 thread, $1 1/4$ " long with $1/4$ " milled double flat.
EB-214—Special bushing $1/4$ "-28 thread, $2 1/4$ " long with $.430$ " milled flat. Either Above, Each **35¢**

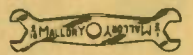
ADJUSTABLE MOUNTING BRACKETS

For use where control mounts off chassis. Plated metal. Mounting centers: RB248, 1/8"; RB249, 2/8".
Mallory Type RB-248 **15¢**
Mallory Type RB-249 **15¢**



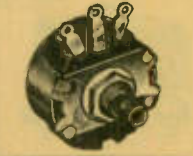
VOLUME CONTROL WRENCH

For standard volume control nuts. **15¢**
Mallory Type 178



MALLORY 2-WATT WIREWOUND TV & INDUSTRIAL POTS

Especially designed for replacement of hold, positioning, focus, etc. controls of TV sets. Also suitable for voltage divider and bias applications. Dust-proof phenolic case $1 1/4$ " diameter. Insulated contact arm type. 1500 V. AC insulation. All have linear taper. Knurled, screw driver slotted stub shaft with $1/8$ " standard bushing. With Pal-nut. *Center tapped.



Type	Ohms	Each	Type	Ohms	Each	Type	Ohms	Each
R20L	20	.73	R30C†	30*	1.09	R1000L	1000	.82
R20C*	20	1.09	R50L	50	.73	R1500L	1500	.82
R25L	25	.73	R250L	250	.73	R2500L	2500	.82
R30L	30	.73	R500L	500	.73	R5000L	5000	.82

EXPLANATION OF MALLORY TAPERS

Taper No. 1—For audio or antenna shunt circuits.
Taper No. 2—For series circuits or cathode voltage controls.
Taper No. 4—Linear taper for voltage divider circuits.

3-WATT CLAROSTAT SERIES 58 WIREWOUND CONTROLS

Sturdy construction, yet capable of use for delicate control work. Smooth, noiseless operation with a high degree of stability. Precisely wound with alloy wire on thin bakelite strip. Perfect sliding contact. Shaft $1 1/4$ " long with $3/8$ " bushing. $1/8$ " diameter. All controls listed below are linear.



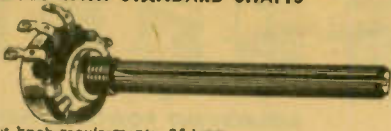
Type	Ohms	Type	Ohms	Type	Ohms	Type	Ohms	Type	Ohms
58-1	1	58-25	25	58-200	200	58-3000	3000	58-30K	30M
58-2	2	58-30	30	58-300	300	58-5000	5000	58-40K	40M
58-4	4	58-40	40	58-400	400	58-7500	7500	58-50K	50M
58-6	6	58-50	50	58-500	500	58-10M	10M	10-75K*	75M
58-10	10	58-60	60	58-750	750	58-15K	15M	10-110K*	100M
58-15	15	58-75	75	58-1000	1000	58-20K	20M	*† in depth	
58-20	20	58-100	100	58-2000	2000	58-25K	25M	Series 10	

Any Above, thru 10,000 ohms Each **73¢**
15,000 ohms thru 25,000 ohms Each **94¢**
30,000 ohms thru 50,000 ohms Each **1.32**
75,000 ohms and 100,000 ohms Each **2.10**

IRC VOLUME CONTROLS

"Q" CONTROLS WITH STANDARD SHAFTS

IRC "Q" controls meet the needs of modern TV and radio replacement. Compact 1/4" design and short 3/4" bushing. Fit both small and large receivers. Knurled, flatted and slotted fixed shafts handle most knob requirements, 3" long. *Supplied with 270-ohm, 1/2-watt resistor. Less switch. For proper switch see listing below. Chart of applications and explanation of tapers indicated in bottom of next column. Average shgp. wt. 4 oz.

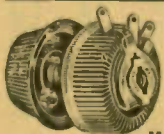


Type	Ohms	Taper	Applications
Q11-103	500	A	4, 18, L
Q11-108	1,000	A	4, L
Q11-110	2,000	A	4, 16, L
Q11-111	2,500	C	O
Q11-112	3,000	A	1, 4, 8, 13, 16, 17, L
Q11-114	5,000	A	
Q11-115*	7,500	A	4, L
Q11-116*	10,000	A	4, 16, B, L
Q11-116*	10,000	C	A
Q14-116*	10,000	D	A
Q11-119	20,000	A	8, 9, L
Q16-119*	20,000	Spec.	B
Q11-120	25,000	A	3, 4, 8, 9, 10, 11, 12, L
Q14-120*	25,000	D	K
Q11-121	30,000	A	4, 9, 10, L
Q11-123	50,000	A	3, 9, L
Q11-123	50,000	C	N
Q14-123*	50,000	D	B
Q11-124	100,000	A	2, 3, 15, 17, L
Q11-128	100,000	C	E, N
Q11-130	250,000	A	3, 6, 9, 17, L
Q13-130	250,000	C	E, N
Q13-132	360,000	C	E, N
Q11-133	1/2 meg.	A	3, 4, 9, 12, 15, 17, L
Q11-133	1/2 meg.	C	E, N
Q14-133	1/2 meg.	D	M
Q11-137	1 meg.	A	3, 12, 15, 16, L
Q13-137	1 meg.	C	E, N
Q14-137	1 meg.	D	N
Q11-138	1 1/2 meg.	A	15
Q11-139	2 meg.	A	4, 5, 6, 7, 12, 14, 15, 17, L
Q11-139	2 meg.	C	E, N
Q11-239	2 1/2 meg.	A	5, 6, 17, L
Q11-140	3 meg.	A	5, 7, 14, L
Q11-141	3 meg.	C	E, N
Q11-141	5 meg.	A	5, 7, 14, 15, 16, 17, 18, L
Q11-143	10 meg.	A	6, 16, 18, L

Any Above (Specify IRC Type No.)
Each **73¢**

ATTACHABLE SWITCHES FOR "Q" CONTROLS

Available in SPST or DPST. Quickly, easily attached to all "Q" Controls.
IRC Type 76-1—SPST Each **35¢**
IRC Type 76-2—DPST

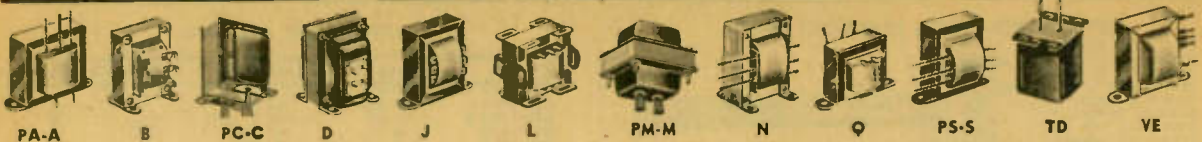


OHMITE POWER RHEOSTATS

Ceramic and metal construction. Insulated shafts. Copper graphite contact reduces wear. U. L. approved. Resistance wire is wound over a solid porcelain core. Each turn is locked against shifting by vitreous enamel which also covers the core and base. Mounts on panels up to 1/4" thick. Depth behind panel 1 1/4" except Model K which is 1 3/4".

Model "H" 25-Watt—1 1/4" Dia.			
Type	Ohms	Each	Type Ohms Each
0140	1	4.14	0148 35
0141	2		0149 50
0142	3		0150 75
0143	6		0151 100
0144	8		0152 125
0145	10	3.66	0153 175
0146	15		0154 250
0147	25		0155 350
			0156 500
			0157 750
			0158 1,000
			0159 1,500
			0160 2,500
			0161 3,500
			0162 5,000
			0163 7,500
			0164 10,000
			0165 15,000
			0166 20,000
			0167 25,000
			0168 30,000
			0169 35,000
			0170 40,000
			0171 45,000
			0172 50,000
			0173 60,000
			0174 70,000
			0175 80,000
			0176 90,000
			0177 100,000
			0178 125,000
			0179 150,000
			0180 175,000
			0181 200,000
			0182 225,000
			0183 250,000
			0184 275,000
			0185 300,000
			0186 325,000
			0187 350,000
			0188 375,000
			0189 400,000
			0190 425,000
			0191 450,000
			0192 475,000
			0193 500,000
			0194 550,000
			0195 600,000
			0196 650,000
			0197 700,000
			0198 750,000
			0199 800,000
			0200 850,000
			0201 900,000
			0202 950,000
			0203 1,000,000
			0204 1,100,000
			0205 1,200,000
			0206 1,300,000
			0207 1,400,000
			0208 1,500,000
			0209 1,600,000
			0210 1,700,000
			0211 1,800,000
			0212 1,900,000
			0213 2,000,000
			0214 2,200,000
			0215 2,400,000
			0216 2,600,000
			0217 2,800,000
			0218 3,000,000
			0219 3,200,000
			0220 3,400,000
			0221 3,600,000
			0222 3,800,000
			0223 4,000,000
			0224 4,200,000
			0225 4,400,000
			0226 4,600,000
			0227 4,800,000
			0228 5,000,000
			0229 5,500,000
			0230 6,000,000
			0231 6,500,000
			0232 7,000,000
			0233 7,500,000
			0234 8,000,000
			0235 8,500,000
			0236 9,000,000
			0237 9,500,000
			0238 10,000,000
			0239 11,000,000
			0240 12,000,000
			0241 13,000,000
			0242 14,000,000
			0243 15,000,000
			0244 16,000,000
			0245 17,000,000
			0246 18,000,000
			0247 19,000,000
			0248 20,000,000
			0249 22,000,000
			0250 24,000,000
			0251 26,000,000
			0252 28,000,000
			0253 30,000,000
			0254 32,000,000
			0255 34,000,000
			0256 36,000,000
			0257 38,000,000
			0258 40,000,000
			0259 42,000,000
			0260 44,000,000
			0261 46,000,000
			0262 48,000,000
			0263 50,000,000
			0264 55,000,000
			0265 60,000,000
			0266 65,000,000
			0267 70,000,000
			0268 75,000,000
			0269 80,000,000
			0270 85,000,000
			0271 90,000,000
			0272 95,000,000
			0273 1,000,000,000
			0274 1,100,000,000
			0275 1,200,000,000
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			0296 4,600,000,000
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			0298 5,000,000,000
			0299 5,500,000,000
			0300 6,000,000,000
			0301 6,500,000,000
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			0304 8,000,000,000
			0305 8,500,000,000
			0306 9,000,000,000
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			0316 18,000,000,000
			0317 19,000,000,000
			0318 20,000,000,000
			0319 22,000,000,000
			0320 24,000,000,000
			0321 26,000,000,000
			0322 28,000,000,000
			0323 30,000,000,000
			0324 32,000,000,000
			0325 34,000,000,000
			0326 36,000,000,000
			0327 38,000,000,000
			0328 40,000,000,000
			0329 42,000,000,000
			0330 44,000,000,000
			0331 46,000,000,000
			0332 48,000,000,000
			0333 50,000,000,000
			0334 55,000,000,000
			0335 60,000,000,000
			0336 65,000,000,000
			0337 70,000,000,000
			0338 75,000,000,000
			0339 80,000,000,000
			0340 85,000,000,000
			0341 90,000,000,000
			0342 95,000,000,000
			0343 1,000,000,000,000
			0344 1,100,000,000,000
			0345 1,200,000,000,000
			0346 1,300,000,000,000
			0347 1,400,000,000,000
			0348 1,500,000,000,000
			0349 1,600,000,000,000
			0350 1,700,000,000,000
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			0353 2,000,000,000,000
			0354 2,200,000,000,000
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			0359 3,200,000,000,000
			0360 3,400,000,000,000
			0361 3,600,000,000,000
			0362 3,800,000,000,000
			0363 4,000,000,000,000
			0364 4,200,000,000,000
			0365 4,400,0

STANCOR TRANSFORMERS



UNIVERSAL OUTPUT

For single or push-pull plates to voice coil.

Type	Application	Watts/Mtg.	Size	Lbs. NET
A-3856	Single or PP (4M-14M ohms)	4	Q 1 1/2 x 2 1/4 x 1 1/2	1.56
A-3822	Single (7M-10M ohms)	4	Q 1 1/2 x 2 1/4 x 1 1/2	1.68
A-3823	Single or PP (4M-14M ohms)	8	Q 2 1/2 x 3 1/2 x 2 1/2	1.91
A-3855	Single or PP (4M-14M ohms)	8	J 2 1/2 x 3 1/2 x 2 1/2	2.12
A-3824	Single or PP (6M-10M ohms)	8	Q 2 x 3 1/2 x 2 1/2	2.65
A-3849	Single (1500-10M ohms)	10	J 1 1/2 x 2 1/4 x 1 1/2	1.68
A-3880	Push-Pull (4M-14M ohms)	15	Q 2 1/2 x 3 1/2 x 2 1/2	3.18
A-3852	Push-Pull (4M-14M ohms)	18	Q 2 1/2 x 3 1/2 x 2 1/2	2.15
A-3870	Push-Pull (4M-14M ohms)	18	Q 2 1/2 x 3 1/2 x 2 1/2	2.65
A-3830	Push-Pull (3M-10M ohms)	20	J 1 1/2 x 2 1/4 x 1 1/2	2.88

FIXED IMPEDANCE OUTPUTS

Single Plate to Voice Coil—Class A

Type	Primary	Secondary	Watts/Mtg.	Size	Lbs. NET
A-3865	1500	6/4 2	5	A 1 1/2 x 2 1/4 x 1 1/2	1.76
A-3332	2000	3/2	3	A 1 1/2 x 2 1/4 x 1 1/2	.85
A-3330	2000	3/5	5	A 1 1/2 x 2 1/4 x 1 1/2	1.23
A-3876	2000	4	5	A 1 1/2 x 2 1/4 x 1 1/2	1.03
A-3328	4000	3/5	3	A 1 1/2 x 2 1/4 x 1 1/2	1.09
A-3877	5000	4	5	A 1 1/2 x 2 1/4 x 1 1/2	1.06
A-3878	7000	4	5	A 1 1/2 x 2 1/4 x 1 1/2	1.06
A-2313	7000	8	10	A 1 1/2 x 2 1/4 x 1 1/2	1.82
A-8114	7600	3/2	5	Q 1 1/2 x 2 1/4 x 1 1/2	1.41
A-3329	8000	3/5	3	A 1 1/2 x 2 1/4 x 1 1/2	1.03
A-3879	10,000	8	10	A 1 1/2 x 2 1/4 x 1 1/2	1.03
A-3327	25,000	4	5	A 1 1/2 x 2 1/4 x 1 1/2	1.29

Push-Pull Plates to Voice Coil.

Type	Primary	Secondary	Watts/Mtg.	Size	Lbs. NET
A-3802	3800/3300	500/250/8/4	75	C 4 1/2 x 4 x 3 1/2	8
A-3851*	4400	500/250/15/8/4	30	C 3 1/2 x 3 x 3 1/2	4
A-3800	5000	500/250/15/8/4	30	C 3 1/2 x 3 x 3 1/2	4
A-3301	6000	500/250/15/8/4	35	C 4 x 3 1/2 x 3 1/2	6
A-2201	8000	6	10	A 2 x 3 1/2 x 1 1/2	1
A-3304	10M/7M	500/15/8/4	25	C 3 1/2 x 3 1/2 x 2 1/2	3
A-3311	10,000	500/15/8/4	25	C 3 1/2 x 3 1/2 x 3 1/2	3 1/2
A-3831	10,000	8/4 2	10	A 1 1/2 x 2 1/4 x 1 1/2	1
A-2312	14,000	4	5	A 1 1/2 x 2 1/4 x 1 1/2	1.71
A-3496	14,000	4	5	A 1 1/2 x 2 1/4 x 1 1/2	1.71
A-3857	25,000	4	5	A 1 1/2 x 2 1/4 x 1 1/2	1.35

*Has tertiary winding to provide 10% inverse feedback.

TUBE TO LINE OUTPUTS

Single plate or push-pull plates to line. 20M ohm primary CT.

Type	Primary	Secondary	Mtg.	Size	Lbs. NET
A-3750	20M/10M/5M	500/333/200/125/50	D	2 x 3 1/2 x 1 1/2	1
A-3315	20M/10M/5M	500/333/200/125/50	D	3 1/2 x 4 1/2 x 2 1/2	3

LINE TO VOICE COIL OUTPUTS

Type	Primary	Sec'd'y	Watts/mtg.	Size	Lbs. NET
A-8101	500	3/2 6-8	25	Q 1 1/2 x 2 1/4 x 1 1/2	1 1/2
A-3883	500	15/8 6/4	25	J 2 1/2 x 3 1/2 x 1 1/2	2 1/2
A-3882	500/333/250	15/8 8/4	25	D 4 1/2 x 3 1/2 x 3 1/2	2 1/2
A-3818	1500/1000/500	15/8 4	25	J 3 1/2 x 3 1/2 x 2 1/2	2 1/2
A-7947	2M/1500/1M/500	6	8	Q 1 1/2 x 2 1/4 x 1 1/2	1
A-7949	2M/1500/1M/500	6-8	12	J 2 1/2 x 3 1/2 x 1 1/2	1
A-3837*	500	8/4 2.65/2.35/2	15	J 2 1/2 x 3 1/2 x 2 1/2	1 1/2
		1.5/7/5/0.5			
		3/2 .1/0.5			

*Line to Line or VC (Autoformer). Designed to operate one or more speakers in parallel across a 500 ohm line.

INPUT TRANSFORMERS

Microphone or Line to Line.

Type	Primary	Secondary	Mtg.	Size	Lbs. NET
A-4350	500/333/200	500/333/200/125/50	Q	2 x 3 1/2 x 1 1/2	1

Microphone, Pickup or Line to Grid. Single button mike to single grid.

Type	Primary	Secondary	Ratio	Mtg.	Size	Lbs. NET
A-4705	200/70	80,000	1:20	A	1 1/2 x 2 1/4 x 1 1/2	1 1/2
A-4706	100	60,000	1:24.5	A	1 1/2 x 2 1/4 x 1 1/2	1 1/2
A-4351*	500/333/200/125/50	80,000	1:13.3	TD	2 1/2 x 3 1/2 x 2 1/2	1 1/2

*Microphone or line to single grid.

IMPEDANCE TRANSFORMERS

For 7000-15,000 ohms plate impedance except A-53 which is 7000-20,000 ohms. Maximum primary DC 10 ma except A-4208 which is 15 ma. All "A" type mounting except A-4206 ("C") and A-4774 ("S").

Type	Ratio	Application	Size	Wt., lbs.	NET
A-53	1:3	SP to single grid	1 1/2 x 2 1/4 x 1 1/2	1 1/2	1.41
A-52C	1:2	SP to PP grids	1 1/2 x 2 1/4 x 1 1/2	1 1/2	1.47
A-4711	1:1	PP plates to PP grids	1 1/2 x 2 1/4 x 1 1/2	1 1/2	1.94
A-53C	1:3	SP to PP grids	1 1/2 x 2 1/4 x 1 1/2	1 1/2	1.44
A-63C	1:3	SP to PP grids	1 1/2 x 2 1/4 x 1 1/2	1 1/2	1.62
A-73C	1:3	SP to PP grids	2 x 3 1/2 x 1 1/2	2	2.03
A-4206	1:3.25	SP to PP grids	3 1/2 x 3 1/2 x 2 1/2	2 1/2	5.12
A-4774	1:3	Multi-purpose—Pie-wound split sec.	2 1/2 x 2 1/4 x 1 1/2	1 1/2	2.44

INTERCOM & TRANSCIVER TRANSFORMERS

Type	Primary	Secondary	Watts/Mtg.	Size	Lbs. NET
A-4744*	4	25,000	—	VE 1 1/2 x 2 1/4 x 1 1/2	1.50
A-3833†	200/5,000	60,000	5	VE 1 1/2 x 2 1/4 x 1 1/2	1 1/2

*Intercom input. †Transceiver input mic & plate to grid.

DRIVER TRANSFORMERS

Single plate to push-pull grids. Primary impedance 10,000 ohms.

Type	Pri. to 1/2 Sec. Ratio	Max. Pri. DC MA.	Mtg.	Size	Shpg. wt. lbs.	NET EACH
A-4713	2:1	30	A	1 1/2 x 2 1/4 x 1 1/2	1	1.59
A-4752	2/1.5:1:1	40	A	2 x 3 1/2 x 1 1/2	1 1/2	2.35
A-4723	3:1	30	A	1 1/2 x 2 1/4 x 1 1/2	1	1.59

REPLACEMENT POWER TRANSFORMERS

All primary windings for 117 V., 60 cycles AC. All secondaries CT except 2nd filament of PC8414.

PM-M Mtg.	PC-C Mtg.	Plate V.	DC Ma.	Rect. Fil.	2nd Fil.	PM-M Mtg. Ctr.	PC-C Mtg. Ctr.	NET E.A.
PM8401	PC8401	470	40	5V-2A	6.3V-2A	2x2 1/2	2x1 1/2	3.62
PM8402	PC8402	480	55	5V-2A	6.3V-2A	2x2 1/2	2x1 1/2	4.00
PM8403	PC8403	500	70	5V-2A	6.3V-2.5A	2x2 1/2	2x2 1/2	4.50
PM8404	PC8404	500	90	5V-2A	6.3V-3A	2 1/2 x 2 1/2	2 1/2 x 2 1/2	5.06
PM8405	PC8405	540	120	5V-3A	6.3V-3.5A	2 1/2 x 3 1/2	2 1/2 x 3 1/2	5.59
PM8406	PC8406	650	40	5V-2A	6.3V-2A	2x2 1/2	2x1 1/2	3.67
PM8407	PC8407	650	55	5V-2A	6.3V-2A	2x2 1/2	2x2 1/2	4.06
PM8408	PC8408	680	70	5V-2A	6.3V-2.5A	2 1/2 x 2 1/2	2 1/2 x 2 1/2	4.67
PM8409	PC8409	700	90	5V-2A	6.3V-3A	2 1/2 x 2 1/2	2 1/2 x 2 1/2	5.20
PM8410	PC8410	720	120	5V-3A	6.3V-3.5A	2 1/2 x 3 1/2	2 1/2 x 3 1/2	5.67
PM8411	PC8411	750	150	5V-3A	6.3V-4.5A	2 1/2 x 3 1/2	2 1/2 x 3 1/2	6.79
PM8412	PC8412	800	200	5V-3A	6.3V-5A	3x3 1/2	3x3 1/2	7.79
	PC8413	800	250	5V-3A	6.3V-5A	3x3 1/2	3x3 1/2	9.58
	PC8414†	1200	200	5V-3A	6.3V-3A	3x3 1/2	3x2 1/2	9.64
PE007		800	110	5V-3A	2.5V-15A	Base Area	2 1/2 x 3 1/2	7.35

Additional filaments: †6.3 V. at 3.5 amps. ‡2.5 V. at 3.5 amps.

For use with 6AX5, 6X4, 6X5 or selenium rectifiers. No CT 2nd fl.

Type	Plate V.	DC Ma.	Rect. Fil.	2nd Fil.	Size	Wt. lbs.	NET E.A.
PM8418	PC8417	440	50	6.3V-6A	25.2V-5A	2x2 1/2	1 1/2
PM8419	PC8419	480	70	6.3V-3A	6.3V-5A	2x2 1/2	3.50
PM8420	PC8420	520	90	6.3V-4A	2 1/2 x 2 1/2	2x2 1/2	4.00
PS8415*		125	1/2	15 ma.	6.3V-6A	2	4.47
				15 ma.	6.3V-6A	2	1.71
PS8416*		250	25	50 ma.	6.3V-1A	2 1/4	2.12
PS8421*		125	1/2	50 ma.	6.3V-2A	3 1/2	2.79

*PS-S Mounting. †PA-A Mounting.

CATHODE RAY TUBE POWER TRANSFORMERS

For use with type 2X2 rectifier tube in conventional 1/2-wave high voltage supply. P-8150 type TD mtg. P-8151 type C mtg.

Type	Plate V.	DC Ma.	Rect. Fil.	2nd Fil.	Size	Wt. lbs.	NET E.A.	
P-8150	1550	1/2-wave 1.5	2.5	1.75	2.5	2.0	3 1/2 x 3 1/2 x 2 1/2	2
P-8151	2400	1/2-wave 5.0	2.5	2.0	2.5	2.0	4 1/2 x 3 1/2 x 3 1/2	6 1/2

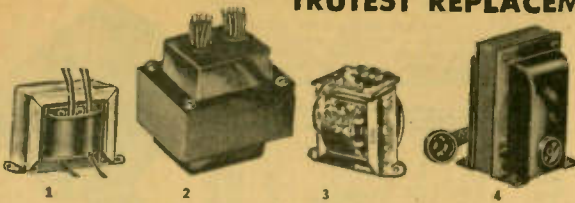
FILTER CHOKES

Rated at 10 volts 60 cycles, with maximum DC in windings. All are type "A" mounting except as indicated below table.

Type	Hy.	Ma.	DC Ohms	Size	Lbs.	NET
C-1515	20	15	900	1 1/2 x 2 1/4 x 1 1/2	1	1.18
C-1706	4.5	50	300	1 1/2 x 2 1/4 x 1 1/2	1 1/2	1.87
C-1003**	16	50	580	2 x 3 1/2 x 1 1/2	1	1.06
C-1708	13	65	500	2 x 3 1/2 x 1 1/2	1	1.32
C-1355*	8	75	290	2 1/2 x 2 1/4 x 1 1/2	1	1.62
C-1002	15	75	400	2 1/2 x 3 1/2 x 2 1/2	2	1.76
C-1420†	16	80	380	3 1/2 x 2 1/2 x 2 1/2	2 1/2	2.88
C-1709	8	85	250	2 x 3 1/2 x 1 1/2	1 1/2	1.82
C-23051	5	100	300	2 1/2 x 3 1/2 x 2 1/2	1 1/2	2.50
C-1004	10.5	110	225	2 1/2 x 3 1/2 x 2 1/2	1 1/2	2.41
C-2303	2.5	130	100	2 x 3 1/2 x 1 1/2	1	1.65
C-1421	7	140	165	3 1/2 x 2 1/2 x 2 1/2	2 1/2	3.29
C-2304	2.3	150	60	2 x 3 1/2 x 1 1/2	1	1.71
C-2309	3	150	90	2 1/2 x 3 1/2 x 2 1/2	2	2.06
C-1710	7	150	200	2 1/2 x 4 x 2 1/2	2 1/2	2.67
C-1410†	4	175	100	2 1/2 x 3 1/2 x 2 1/2	2 1/2	3.35
C-1646†	5	200	90	4 x 3 1/2 x 3 1/2	4 1/2	4.79
C-1411†	4.5	200	80	3 1/2 x 3 x 3 1/2	3 1/2	3.86
C-1721†						

QUALITY TRANSFORMERS

TRUTEST REPLACEMENT TRANSFORMERS



FILAMENT TRANSFORMERS (Fig. 1)

Stock No.	Primary Volts	Secondary Volts	Secondary Amperes	Dimensions H x W x D	Each
P1950	115, 60 cy.	6.3 ct.	1	1 1/2 x 2 1/2 x 1 1/4"	1.10
P1951	115, 60 cy.	6.3 ct.	3	2 3/4 x 1 1/4"	1.69
P1952	115, 60 cy.	6.3 ct.	6	2 1/2 x 2 1/2"	2.25
P1945	115, 60 cy.	5 ct.	6	2 1/2 x 3 1/2 x 1 1/4"	2.10

UNIVERSAL LINE TRANSFORMERS (Fig. 3)

Match voice coil to 500, 1000, 1500 or 2000-ohm line, and to any single or push-pull tube. Shpg. wt. 2 lbs.

Stock No.	Watts	Sec.	Mtg. Cent.	H x W x D	Each
P1949	10	3.2, 6-8	2 1/2"	1 1/2 x 2 1/2 x 1 1/4"	1.49
P1953	18	3.2, 6-8	2 1/2"	2 1/2 x 2 1/2 x 1 1/4"	1.97
P1957	24	6-8, 16	3 1/2"	2 1/2 x 3 1/2 x 1 1/4"	2.24

STEP-DOWN AUTOTRANSFORMERS (Fig. 4)

Permits use of standard voltage motors; accessories and appliances with line voltages from 220 to 250 V. 50-60 cycles. Sec. voltage 110-125. Built-in receptacle, cord with plug.

Stock No.	Watts	Size	Wt., Lbs.	Each
P1981	80	3 1/4 x 3 x 2 1/4"	5	4.15
P1982	150	3 1/4 x 3 1/4 x 3 1/4"	7	4.95
P1983	250	4 1/4 x 3 1/4 x 3 1/4"	9	7.25
P1984	500	4 1/4 x 4 x 3 1/4"	12	8.25
P1985	1000	7 1/4 x 6 x 5 1/4"	17	17.25

STANCOR TV POWER TRANSFORMERS



Plate-filament types for replacement use. All center-tapped except P-8158. P-8162 has socket for rectifier mounted on shell and wired to transformer. For other Stancor Transformers see page 60.

Type	Plate		Rect. Fil.		2nd Fil.		Dimensions H x Base	Wt. Lbs.	Net Each
	VAC	DCMA	V	A	V	A			
P-8154	750	205	4	3	5/6, 3	2.5/6	4 1/4 x 3 1/4 x 4 1/4"	9 1/2	9.61
P-8155	450	90	5	2	6.3	5.15	3 1/2 x 2 1/4 x 3 3/8"	4 1/2	5.76
P-8156	730	295	5	3	5/12, 6CT	2/5	6 1/4 x 3 1/4 x 4 1/4"	10 1/2	15.58
P-8157	770	195	5	3	6.3/6.3/5	7.65/	4 1/4 x 3 1/4 x 4 1/4"	11 1/2	13.41
P-8158	470	105	5	2	6.2	4.25/	3 1/2 x 3 1/4 x 4 1/4"	6 1/4	8.23
	117	600			6.3/6.3	4.2			
P-8159	790	285	5	3	5/6, 3/6, 3	2.8/8	5 1/4 x 3 1/4 x 4 1/4"	10	12.55
P-8160	718	180	5	3	6.45	12	4 1/4 x 3 1/4 x 4 1/4"	10	10.82
	332	65							
P-8161	780	290	5/5	3/2	6.3	9	5 1/4 x 3 1/4 x 4 1/4"	12	13.97
P-8162	760	180	5CT	3	6.3	9	5 1/4 x 3 1/4 x 3 1/4"	9	10.00

STANCOR

UNIVERSAL VIBRATOR TRANSFORMERS



6-Volt DC Primary

Type	Secondary AC Volts	Sec. DC to Filter	Ma.	Mtg.	Size	Wt., Lbs.	Each
P-6301	210-0-210	150	40	S	2 1/2 x 2 1/4 x 1 1/4"	1 1/2	2.70
P-4060	240-0-240	225	40	N	3 1/2 x 2 1/4 x 2 1/4"	2 1/2	3.50
P-4061	290-0-290	250	60	N	3 1/2 x 2 1/4 x 2 1/4"	2 1/2	3.47
P-4062	300-0-300	260	65	N	3 1/2 x 2 1/4 x 2 1/4"	2 1/2	3.82
P-4063	320-0-320	285	75	N	3 1/2 x 2 1/4 x 2 1/4"	3	4.85

STANCOR AUTO RADIO VIBRATOR TRANSFORMERS

Exact duplicate of mounting type used in original equipment.

Type	Manufacturer and Number	DS V. at Filter Input	DC Ma.	Size	Lbs.	Each
P-4064	Delco 7240519	280	65	3 1/4 x 2 1/4 x 2 1/4"	2 1/2	6.12
P-4065	Delco 7255881	265	56	4 1/4 x 2 1/4 x 2 1/4"	2 1/2	5.82
P-6471	Motorola 25B472533	235	70	3 3/4 x 2 1/4"	2	4.06
P-6472	Colonial-Detrola D71014 Colonial-Bendix C217020 Colonial-Motorola C71014 Motorola 25B4722533	270	56	2 1/4 x 2 1/4 x 2 1/4"	2	4.06
P-6473	Zenith 95-1073	272	73	3 1/4 x 2 1/4 x 2 1/4"	2 1/2	4.62
P-6476	Colonial-Detrola D70267	220	53.5	2 1/4 x 2 1/4 x 2 1/4"	2 1/2	4.17

STANCOR ISOLATION TRANSFORMERS



100-watt general purpose type with an output of 115 V. Primary tapped for 125, 115 and 105 V., 60 cycles AC. Uses "KA" type mounting. Size: 4 1/4" H., 4" W., 3 1/4" D. Shpg. wt. 7 lbs. Stancor Type P-6160..... **10.14**

P-6161—Similar to above, but 250W. 4 1/4 x 4 x 5 1/4"..... **19.11**
350-watt isolation testing transformer to handle almost any television or radio receiver on test. Has three standard receptacles, providing output voltages of 105, 115 and 125. With 117 V., 60 cycles AC input. Uses "KC" type mounting. Size: 5 1/2" H., 4 1/2" W., 5 1/2" D. Stancor Type P-6415—Shpg. wt. 17 lbs..... **16.17**

POWER TRANSFORMERS—115 V., 60 Cy. Pri. (Fig. 2)

Stock No.	H.V. Secondary	Fil.		Fil.		Mtg. Centers	Each
		DC Ma.	V. Amps.	V. Amps.	V. Amps.		
P1958	480 ct.	40	5	2	6.3	2	2 x 2 1/2"
P1959	650 ct.	40	5	2	6.3	2	2 x 2 1/2"
P1960	700 ct.	70	5	3	6.3	2.5	2 x 2 1/2"
P1961	700 ct.	90	5	3	6.3	3.5	2 1/2 x 3 1/4"
P1962	700 ct.	120	5	3	6.3	4.7	2 1/2 x 3 1/4"
P1963	750 ct.	150	5	3	6.3	5	2 1/2 x 3 1/4"

UNIVERSAL OUTPUT TRANSFORMERS (Fig. 1)

For Single or PP Tubes. Secondary Impedance 17 to 32 Ohms.

Stock No.	Primary Impedance	Max. Watts	Mtg. Ctrs.	Dimensions H x W x D	Each
P1954	4000/7000/8000 10,000, 14,000 Ct.	4	2"	1 1/2 x 2 1/2 x 1 1/4"	1.05
P1955	Same as above	8	2 1/4"	1 1/2 x 2 1/2 x 1 1/4"	1.25
P1956	Same as above	18	2 1/4"	2 1/4 x 2 1/4 x 1 1/4"	1.59
P1946	7000/8000/10,000	24	3 1/4"	2 1/4 x 3 1/2 x 2 1/4"	2.25

FIXED OUTPUT TRANSFORMERS (Fig. 1)

Stock No.	Pri. Imp.	Sec.	Pri. M.A.	Watts	Mtg. Ctrs.	Each
P1964	2000	3.2	60	5	2	.59
P1947	5000 ct. (PP 61.8)	3.2	150	18	2 1/4"	1.65
P1965	5000	3.2	40	5	2	.68
P1966	7000	3.2	30	5	2	.68
P1948	8000	3.2	20	3	1 1/4"	.60
P1967	10,000	3.2	30	5	2	.64

FILTER CHOKES—1500 V. INSULATION (Fig. 1)

Stock No.	Inducance Henries	Current M.A.	DC Res. Ohms	Mtg. Ctrs.	Dimensions H x W x D	Each
P1971	8.5	50	400	2 1/4"	1 1/2 x 2 1/2 x 4 1/4"	.93
P1973	15	75	400	3 1/4"	2 1/4 x 3 1/4 x 4 1/4"	1.39
P1974	10.5	110	220	3 1/4"	2 1/4 x 4 x 4 1/4"	1.84

STANCOR TUBE CHECKER TRANSFORMER

Multi-tapped filament transformer with following primary voltages: 125/115/105, 60 cycles AC. Secondary output voltages: 1.1 1.4 1.5 2.0 2.5 3.0 3.3 5.0 6.3 7.0 7.5 12/25/30/35/50/50/70/85/110/117. Size: 2 1/2" H., 4" W., 2" D. P-1834-3—Shpg. wt. 2 1/2 lbs. **7.58**



THORDARSON PHOTOFLASH TRANSFORMERS

1. Type 22R42. Designed for use in 117 V. AC operated photoflash power packs. Provides 2250 V. DC when used with 2X2 rectifier. Application note and circuit diagram of a typical power pack, supplied with unit. Size: 3 1/4" W., 2 1/2" H., 2 1/4" D., on 3/4" mounting centers. Shpg. wt. 3 lbs. Thordarson Type 22R42 Photoflash Transformer..... **5.14**



Same as above, but for 117 V. AC or 4-volt battery-vibrator (180 cycles). Secondary 1100 V. AC at 1.5 ma. Size: 3 1/4" W., 2 1/4" H., 2 1/4" D., 2 1/4" mounting centers. Shpg. wt. 3 lbs. Thordarson Type 22R43..... **7.41**

2. Type 22R44. Supplies the high voltage ionizing pulse necessary to fire high pressure, three electrode photoflash tubes. Primary is condenser discharge (.25 to .5 mfd. at 200 V. DC). Secondary 15,000 V. peak, 2 1/2" W., 1 1/2" H., 1 1/4" D. Single hole mounting. Thordarson Type 22R44—Shpg. wt. 1/2 lb. **3.82**

Thordarson Photo-Flash Brochure—Theory, operation and construction of photoflash power packs and ignition circuits. P19670..... **15c**



SOLA CONSTANT VOLTAGE TRANSFORMERS

Automatic regulation of voltage for all types of electrically operated equipment. Deliver constant output voltage independent of transient or continuous variation in supply voltage, within 1%. Recommended for photoelectric devices, x-ray equipment, Link trainers, projection equipment, etc. Input 95-125 V., 60 cycles AC except those marked with (*) which have additional input of 190-250 V.

Type	Output V.	Output VA	Size	Wt., lbs.	EACH
30488	6.0	15	5 1/4 x 2 1/4 x 3 1/4"	6	16.00
30801	6.0	25	8 1/4 x 4 1/4 x 4 3/8"	12	17.00
301002	6.3	15	5 1/4 x 3 1/4 x 2 1/4"	4 1/2	20.00
30492	6.3	15	5 1/4 x 2 1/4 x 3 1/4"	6	16.00
301003	115	15	5 1/4 x 3 1/4 x 2 1/4"	4 1/2	20.00
30498	115	15	5 1/4 x 2 1/4 x 3 1/4"	6	16.00
30804	115	30	8 1/4 x 4 1/4 x 4 3/8"	12	18.00
30805	115	60	8 1/4 x 4 1/4 x 4 3/8"	13	25.00
30806	115	120	9 1/4 x 4 1/4 x 4 3/8"	17	34.00
30886	115	120	11 1/4 x 4 1/4 x 4 3/8"	26	34.00
30807	115	250	11 1/4 x 8 1/4 x 5 3/8"	28	56.00
30808	115	500	14 1/4 x 8 1/4 x 7 5/8"	40	83.00
30809	115	1000	19 1/4 x 8 1/4 x 7 5/8"	110	135.00
30811	115	2000	31 1/4 x 9 1/4 x 7 5/8"	205	245.00
30M813	115	3000	44 1/4 x 10 x 9 1/4"	325	325.00
30M815	115	5000	24 1/4 x 2 1/4 x 9 1/4"	570	515.00

WE CAN SUPPLY ALL SOLA TRANSFORMERS.

UTC TRANSFORMERS



UTC LINEAR STANDARD TRANSFORMERS

Response \approx 1 db 20-20,000 cps. High permeability cores and precisely balanced, interleaved windings. Vacuum baked, impregnated coils. Minimum distributed capacity and leakage reactance.

CASE DIMENSIONS AND WEIGHTS

Case	H x W x D	Mounting	Shpg. wt.
LS-1	3 1/2 x 2 1/4 x 3 1/4"	1 1/2" x 2 1/4"	4 lbs.
LS-2	4 1/2 x 3 1/2 x 4 1/4"	2 1/2" x 3 1/2"	8 lbs.
LS-3	4 1/2" x 5 x 5 1/4"	4 1/2" x 5"	16 lbs.

INTERSTAGE AUDIO TRANSFORMERS

Hum pickup reduction compared to uncased type, -74 db except LS-19 and LS-22, -50 db. LS-1 case. *LS-2 case.

Primary Impedance 15,000 Ohms. For Single Plate

Type	Use	Sec. Ohms	Max. Level	Net Each
LS-19	To PP grids	95,000: 1 1/2:1	+17 db	15.29
LS-20	To grid	60,000: 2:1	-14 db	14.70
LS-21	To PP grids	135,000: 3:1	-14 db	15.29

Primary Impedance 30,000 Ohms. P. to P. for PP Plates.

LS-22*	To PP grids	80,000: 1.6:1	-26 db	18.82
LS-25	To PP grids	50,000: 1.3:1	-17 db	18.82

OUTPUT TRANSFORMERS—To Line & Voice Coil

Response \approx 2 db, 25-20,000 cps. with minimum harmonic distortion. In LS-2 case. *In LS-3 case. †PP, fixed bias for cathode follower.

Type	Pri. P. to P.	Secondary	Watts	EACH
LS-52	8,000 ohms	500 to 1.2	15	20.56
LS-54	8,000 ohms	30 to 1.2	15	14.70
LS-55	5,000 & 3,000	500 to 1.2	20	20.58
LS-57	5,000 & 3,000	30 to 1.2	20	14.70
LS-58*	2,500 & 1,500	500 to 1.2	40	29.40
LS-60A*†	4,600	150 to 1.2	30	23.52
LS-61	10,000 & 6,000	500 to 1.2	15	20.58
LS-62A*†	4,600	500, 125	30	20.58
LS-6L1*	9,000 ohms	500 to 1.2	30	29.40
LS-6L3*	9,000 ohms	30 to 1.2	30	20.58
LS-6L4	3,800 & 4,500	500 to 1.2	65	35.28

HIGH LEVEL MATCHING TRANSFORMER

Type LS-33. Primary Impedances: 50, 125, 200, 250, 333, 500, 600 ohms. Secondary impedances: 1, 2, 2.5, 5, 7.5, 10, 15, 20, 30, 50, 125, 200, 250, 333, 500, 600 ohms. \approx 2 db, 20-20,000 cps. Maximum level 15 watts. In LS-2 case. UTC Type LS-33 Line Matching Transformer..... **17.64**

HYBRID AND REPEAT COILS

Type LS-140. Line to line for isolating balanced and unbalanced circuits. Primary and secondary 500/600 ohms, split windings. \approx 1 db from 30-20,000 cps. Max. level \approx 10 db. In LS-1 case. **20.58**

UTC Type LS-140 Hybrid Coil Transformer..... **17.64**

Type LS-141. Three sets of balanced windings for hybrid service, center tapped. Primary and secondary 500/600 ohms. \approx 1 db from 30-15,000 cps. In LS-1 case. **17.64**

UTC Type LS-141 Hybrid Coil Transformer..... **17.64**

2-SECTION FILTER CHOKE

Type LS-90. With hum-bucking tap. Inductance in series 50 hy. at 50 ma. DC. In parallel, 12.5 hy. at 100 ma. DC. DC resistance, 510 ohms in series and 128 ohms in parallel. Voltage insulation test 2000 V. In LS-2 case. UTC Type LS-90 Filter Choke..... **8.23**



UTC TOROID PERMALLOY CHOKES

Used in audio, carrier and superonic applications requiring High "Q" and great stability. HQA coils have maximum "Q" of 200 at 5000 cycles. HQB coils have maximum "Q" of 200 at 4000 cycles. All coils have extremely low hum pickup and can be spaced close together. Hermetically sealed and adjusted to 1% tolerance.

Type	Inductance	OC Ma. Max.	EACH
HQA-2	12.5 Mh.	400	6.86
HQA-4	30 Mh.	160	7.35
HQA-6	80 Mh.	70	7.84
HQA-8	200 Mh.	65	8.82
HQA-10	500 Mh.	40	9.80
HQA-12	1.25 Hy.	26	10.78
HQA-13	2 Hy.	20	10.78
HQB-5	.5 Mh.	60	16.66
HQB-7	2 Hy.	30	18.62
HQB-10	12 Hy.	11	21.56

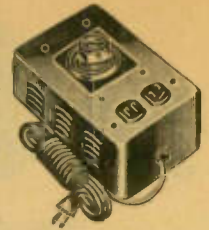
UTC VARIABLE INDUCTORS

For use in tuned audio circuits. Adjustment of set screw on side of case permits a change in inductance of plus 90% to -50% from the mean value shown. Die cast case 1 1/4" long, 1 1/4" wide, 8 1/4" high. Mounting centers on terminal board side 1/2" by 1/2". Shpg. wt. 6 oz.

Type	Mean Hys.	Each	Type	Mean Hys.	Each
VI-C1	.0085	6.47	VI-C12	1.3	8.23
VI-C2	.013		VI-C13	2.2	
VI-C3	.021		VI-C14	3.4	
VI-C4	.034		VI-C15	5.4	
VI-C5	.053	8.23	VI-C16	8.5	9.70
VI-C6	.084		VI-C17	13.	
VI-C7	.13		VI-C18	21.	
VI-C8	.21		VI-C19	33.	
VI-C9	.34	8.23	VI-C20	52.	10.29
VI-C10	.54		VI-C21	83.	
VI-C11	.85				

UTC VARITRAN VOLTAGE CONTROLS

Uses a sliding contact riding over transformer turns. Continuously variable output voltages from 0-130. Completely shielded. Type V-1 (illustrated) includes cord, plug and switch. Others have screw terminals on insulated slip. For 115v., 50/60 cycles AC.



Type	Watts/Amps	Size	Lbs.	Each
V-0	230	2 4x6x4 1/2"	10	12.74
V-1	570	5 5x8 1/2 x 3 1/2"	14	19.60
V-1-M*	570	5 5x10 1/2 x 3 1/2"	14	34.30
V-2	570	5 5x7x4 1/2"	13	16.66
V-3	850	7.5 5x7x5 1/2"	19	24.50
V-4	1250	11 6 1/2 x 9 1/2 x 6"	37	32.26

*Same as V-1, but includes 0-150 v AC meter.

UTC OUNCER AUDIO UNITS

Weigh only one ounce. Ideal for portable broadcast, hearing aid, aircraft and similar applications. Uniform high fidelity response from 40-15,000 cps., except 0-14, 0-15 and units carrying DC for voice frequencies from 150-4000 cps. Maximum operating level 0 db, sealed in aluminum housings, 7/8" dia., 1 1/4" H. Mount by 2-56 screws on 1/4" centers. Shpg. wt. 6 oz.



Type	Pri. Impedance	Sec. Impedance	Each
O-1	50, 200/250, 500/600	50,000	8.23
O-2	50, 200/250, 500/600	50,000 P.P.	8.23
O-3	7.5/30	50,000	7.64
O-4	15,000	60,000	6.47
O-5	15,000 DC in Pri.	60,000	6.47
O-6	15,000	95,000 P.P.	7.64
O-7	15,000 DC in Pri.	95,000 P.P.	7.64
O-8	15,000	50, 200/250, 500/600	8.23
O-9	15,000 DC in Pri.	50, 200/250, 500/600	8.23
O-10	30,000 P. to P.	50, 200/250, 500/600	8.23
O-12	50, 200/250	50, 200/250, 500/600	7.64
O-14	200	1/2 megohm	8.23
O-15	15,000	1 megohm	8.23

Type O-13 Reactor—200 henries, no DC; 50 henries, 2 ma DC. 6000 ohms. **5.88**

UTC ULTRA COMPACT AUDIO UNITS

Small, light weight, suitable for compact equipment. Frequency response 30-20,000 cps \approx 2 db, except * which is 50-20,000 cps. Maximum operating level +10 db. 1 1/2 x 1 1/2 x 2". Top or bottom mtg. Shpg. wt. 1 lb.



Type	Pri. Impedance Ohms	Sec. Impedance Ohms	Each
A10	50, 125, 200/250, 333, 500/600	50,000	9.41
A11*	50, 200, 500	50,000	10.58
A12	50, 125, 200/250, 333, 500/600	80,000 overall in 2 sections	9.41
A14	30	50,000 overall in 2 sections	10.00
A16	15,000	60,000 2:1 turn ratio	8.82
A18	15,000	80,000 overall, 2.3:1 turn ratio overall	9.41
A19*	15,000	80,000 overall, 2.3:1 turn ratio overall	11.17
A20	50, 125, 200/250, 333, 500/600	50, 125, 200/250, 333, 500/600	9.41
A21*	50, 200/250, 500/600	50, 200/250, 500/600	10.58
A24	15,000	50, 125, 200/250, 333, 500/600	9.41
A22	15,000	50, 125, 200/250, 333, 500/600	10.00
A26	30,000 plate to plate	50, 125, 200/250, 333, 500/600	9.41

UTC UNIVERSAL INTERSTAGE EQUALIZER

Type CGE-1. For all applications requiring frequency response correction. Connects between two triode audio stages or match a high impedance (5000 to 30,000 ohms) source to grid. Resonant circuits permit low or high end equalization without affecting mid-frequencies. Bass may be raised and highs dropped simultaneously. Continuous adjustment to 15 db. Size: 2 1/4 x 4 1/2 x 1 1/2". Shpg. wt. 3 lbs.



UTC CGE-1 Interstage Equalizer..... **17.64**

UTC DYNAMIC NOISE SUPPRESSOR DUAL INDUCTOR

Type CG-50. Has two High "Q" coils (8 and 2.4 hy.) for use in dynamic noise suppression circuits. Effectively suppresses surface and needle noise in high fidelity phonograph equipment. Diagram of efficient, tested circuit included with each unit. Round case, 2 1/2" high with 2 1/4 x 2 1/4" base. Shpg. wt. 2 lbs.



UTC Type CG-50 Dual Inductor..... **9.41**

PARTRIDGE HI-FI OUTPUT TRANSFORMER

Push-pull output type for use in high fidelity audio equipment with lowest distortion. Featured in original T. N. Williamson Amplifier Circuit and built to his specifications. Power rating 16 watts continuous. Response \approx 0.5 db from 10-50,000 cps. Impedance 10,000 ohms. All secondary windings brought out as 8 separate sections which can be connected in series, parallel or various series-parallel combinations. Secondaries: .95, 3.8, 8.5, 15.2, 23.8, 34.2, 44.7, 60.9 ohms. Size: 4 3/4" W., 6 1/4" H., 5 1/4" D. Shpg. wt. 15 lbs.



Partridge WWFB Output Transformer..... **24.50**

RCA TV ISOTAP TRANSFORMER

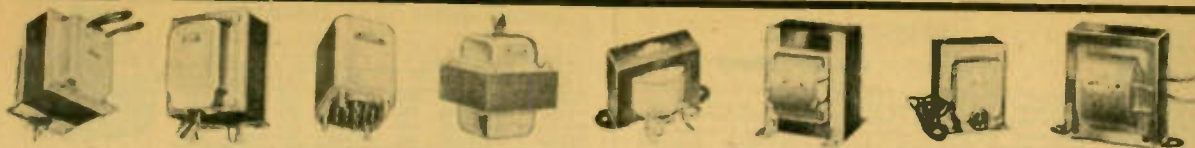
Combines a high-low isolation transformer for TV and a 500 VA high-low autotransformer winding. Speeds up servicing, eliminates shock hazard and prevents damage to test equipment. Shows up intermittents and faulty Shpg. wt. 12 lbs.



RCA Type WP-25A..... **17.95**

WE WILL NOT KNOWINGLY BE UNDERSOLD

TRIAD TRANSFORMERS & RCA TV COMPONENTS



TRIAD ELECTRONIC TRANSFORMERS FOR ORIGINAL AND REPLACEMENT USE

SWINGING FILTER REACTORS-X

Type No.	Inductance Henries	Current Ma.	Resist. Ohms	Test V. RMS	Dim. Inches HxWxD	Wt. Lbs.	Ea.
C-31A	25/5	20/200	150	2500	3 1/4 x 3 x 3 1/4	4	4.26
C-33A	25/5	30/300	105	3000	4 1/4 x 3 1/4 x 4 1/4	7 1/2	6.61
C-35A	20/4	40/400	60	3000	4 1/4 x 3 1/4 x 4 1/4	9 1/4	9.41
C-39A	25/5	50/500	65	3000	5 1/4 x 4 1/4 x 5	16 1/2	13.35

SMOOTHING FILTER REACTORS-U

Type No.	Inductance Henries	Current Ma.	Resist. Ohms	Test V. RMS	Dim. Inches HxWxD	Wt. Lbs.	Ea.
C-1X	15	20	1000	1500	1 1/4 x 2 1/4 x 1 1/4	1/2	.94
C-3X	10	50	500	1500	1 1/4 x 2 1/4 x 1 1/4	1	1.06
C-5X	12	75	400	1500	1 1/4 x 3 1/4 x 1 1/4	1	1.35
C-7X	10	9	270	1500	1 1/4 x 3 1/4 x 2	1 1/4	1.59
C-10X	9	125	250	1500	2 1/4 x 3 1/4 x 2	1 1/2	1.94
C-12X	6	160	185	1500	2 1/4 x 3 1/4 x 2 1/2	2	2.08
C-14X	6	200	150	1500	2 1/4 x 4 x 2 1/2	2 1/2	2.44
C-15X	4	250	100	1500	2 1/4 x 4 x 2 1/2	2 1/2	2.38
C-16A	10	200	150	2500	3 1/4 x 3 1/4 x 3 1/4	4	4.26
C-17X	1.5	300	40	1500	2 1/4 x 3 1/4 x 2 1/2	1 1/4	2.03
C-18A	8	300	90	2500	4 1/4 x 3 1/4 x 4 1/4	5 1/2	5.38
C-19A	10	300	105	3000	4 1/4 x 3 1/4 x 4 1/4	7 1/2	6.61
C-20A	8	400	60	3000	4 1/4 x 3 1/4 x 4 1/4	9 1/4	9.41
C-22A	10	500	65	3000	5 1/4 x 4 1/4 x 5	16 1/2	13.35

FILAMENT TRANSFORMERS—SINGLE SECONDARY-A

Type No.	Secondary Volts	Amps	Test Volts	Dim. Inches HxWxD	Weight Lbs.	Each
F-1X	2.5 C.T.	3	1500	1 1/4 x 2 1/4 x 1 1/4	1/2	1.59
F-3X	2.5 C.T.	10	3000	2 1/4 x 3 1/4 x 2 1/4	1 1/4	2.32
F-5U	2.5 C.T.	10	7500	3 1/4 x 2 1/2 x 2 1/2	2	4.06
F-7X	5 C.T.	3	1500	1 1/4 x 3 1/4 x 1 1/4	1 1/4	2.08
F-9U	5.2 C.T.	13	1500	3 1/4 x 2 1/2 x 3 1/4	3 1/4	4.79
F-11U	6.2 C.T.	24	1500	3 1/4 x 3 1/4 x 3 1/4	5 1/4	6.38
F-14X	6.3 C.T.	1.2	1500	1 1/4 x 2 1/4 x 1 1/4	1 1/4	1.59
F-16X	6.3 C.T.	3	1500	1 1/4 x 3 1/4 x 1 1/4	1 1/4	2.23
F-18A	6.3 C.T.	6	1500	3 1/4 x 3 1/4 x 3 1/4	2 1/4	4.06
F-21A	6.3 C.T.	10	1500	3 1/4 x 3 1/4 x 3 1/4	3 1/4	5.12
F-23U	10 C.T.	7	1500	3 1/4 x 3 1/4 x 3 1/4	4	4.50
F-40X	24 C.T.	1	1500	1 1/4 x 3 1/4 x 2 1/4	1 1/4	2.15

TRIAD TRANSFORMERS NOT LISTED ABOVE

We carry a complete line of triad transformers in stock at all times, including the hermetically-sealed and Hi-Fi units. Your order will receive prompt service. Write for literature.

FILAMENT TRANSFORMERS, MULTIPLE SECONDARY-U

Type No.	Secondary Volts and Amperes	Test V. RMS	Dim.-In. H x W x D	Wt. Lbs.	Ea.
F-27U	10 C.T.—10A.	1500	4 1/4 x 3 1/4 x 3	7	6.38
F-30A	2.5 C.T.—3A.	7500			
F-32A	6.3 C.T.—8A.	1500	3 1/4 x 3 x 3 1/4	3 1/2	4.82
F-34A	6.3 C.T.—3A. 6.3 C.T.—3A.	1500	3 1/4 x 2 1/4 x 3	2 1/2	4.82
F-36A	6.3 C.T.—1.75A. 6.3V—1.75A. 6.3V—1.75A.	2500	3 1/4 x 2 1/4 x 3	2 1/4	4.70
F-38A	6.3V—3.5A. 6.3V—3.5A. 6.3V—3.5A. 5V—4A.	2500	4 x 3 1/4 x 3 1/4	4 1/2	6.82
	6.3 C.T.—5A. 6.3V—5A.	2500	4 x 3 1/4 x 3 1/4	5 1/2	7.76

STEPDOWN TRANSFORMERS-M

Type No.	V. A. Output	Input Volts	Output Volts	Dim.—Inches H x W x D	Wt. Lbs.	Ea.
N-1X	50	230	115	2 1/4 x 3 1/4 x 2 1/4	1 1/2	2.97
N-3M	85	230	115	3 1/4 x 3 x 2 1/4	2 1/4	5.76
N-7M	250	230	115	4 x 3 1/4 x 3 1/4	4 1/4	8.41
N-9M	500	230	115	4 1/4 x 3 1/4 x 5	11 1/4	12.94
N-9M	1000	230	115	5 1/4 x 4 x 5	22	23.96
N-11M	2000	230	115	5 1/4 x 4 x 7	27	39.51

ISOLATION TRANSFORMERS-X

Type No.	V. A. Output	Input Volts	Output Volts	Dim.—Inches H x W x D	Wt. Lbs.	Ea.
N-51X	35	115	115	2 1/4 x 3 1/4 x 2 1/4	1 1/2	3.50
N-53M	85	115	115	3 1/4 x 3 x 2 1/4	4	7.06
N-57M	250	115	115	4 1/4 x 3 1/4 x 5	11 1/4	14.88
N-59M	500	115	115	5 1/4 x 4 x 5	22	23.96
N-60	1000	230-115	230-115	5 1/4 x 4 x 7	27	39.51

#Special Case.

MODULATION TRANSFORMERS, TUBE TO R.F. LOAD-Z

Type No.	Primary	Secondary Imped.	Audio Ma. Watts	Dim.—In. H x W x D	Wt. Lbs.	Ea.	
M-1X	10000 C.T. for 19. 1J6, 6N7, 6A6, etc.	5000-8000-	50	5	1 1/4 x 2 1/4 x 1 1/4	1/2	2.23
M-3X	10000 C.T. for 6N7, 6A6, 6F6's, etc.	3000-5000-	100	20	2 1/4 x 3 1/4 x 2 1/4	1 1/2	3.06
M-7A	4250C.T. for 807's	3000-5000-8000	200	60	4 1/4 x 3 1/4 x 4	6	9.94

RCA TELEVISION COMPONENTS



RCA TELEVISION COIL KIT 204X1

Complete IF and Video coil kit. Contains all necessary coils for building sound and video sections of a complete TV receiver, as follows: 2-201K1, 1-202K1, 1-202K3, 1-202K4, 1-203K1, 2-202L1, 1-203L1, 1-203L2, 2-203L3, 2-203L4. Full descriptions of all coils listed below in the tabular listings.

RCA Coil Kit 204X1 11.47

Type No.	Description	Each
201B1	14" Mirror for 5" Kinescope	88.20
201D2	Deflecting Yoke for 5TP4	7.64
201D11	Deflecting Yoke for 5WP15	10.29
201D12	Deflecting Yoke for 10BP4 and 16AP4 (50 degrees)	4.41
201D76	Deflecting Yoke, Iconoscope	94.57
201D77	Deflecting Yoke, Monoscope	80.36
201K1	1st and 2nd Sound IF Transformer (21.25 MC)	1.29
201R1	Width Control	.41
201R2	Width Control	1.29
201R3	Horizontal Linearity Control	.47
201R4	Width Control	.59
201R5	Horizontal Linearity Control	.71
201T6	Power Transformer (30 tube)	15.29
201T7	Power Transformer (24 tube)	12.35
201T8	Power Transformer (21 tube)	11.17
201T9	Power Transformer (27 Tube)	12.35
201T10	Power Transformer (27 tube)	12.35
201X1	Yoke Mounting Hood for 7DP4 and 10BP4	12.35
202A1	Focusing coil for 10BP4	4.41
202D2	Focusing coil for 16AP4, 16GP4, and 17CP4	6.47
202D75	Focusing coil, Image orthicon	104.37
202K1	Converter Transformer (21.8 MC)	.71
202K2	1st Picture IF Transformer (25.3 MC)	1.29
202K3	2nd Picture IF Transformer (22.3 MC)	1.06
202K4	Cathode Circuit Trap (21.5 MC)	1.29
202K5	Converter Transformer (24 MC)	.76
202K6	1st Picture IF Transformer (24 MC)	1.23
202K7	2nd Picture IF Transformer (25.8 MC)	1.07
202K8	3rd Picture IF Transformer (21.9 MC)	1.08
202K9	4th Picture IF Transformer (24.6 MC)	.91
202K10	5th Picture IF Transformer (22.4 MC)	1.15
202K11	Cathode Circuit Trap (24.6 MC)	.85
202L1	3rd (25.2 MC) or 4th (25.4 MC) Picture IF Transformer	3.82
203D1	Ion-trap magnet (field-coil type)	1.33
203D3	Ion-trap magnet (permanent-magnet type)	1.33
203K1	Sound Discriminator Transformer (21.25 MC)	1.62

P20198 RCA COMPONENT DIRECTORY FOR TV RECEIVERS. Contains major component replacements for over 200 television sets, made and marketed by nearly forty different manufacturers. Speeds servicing problems by instantly guiding you to the correct part. 11 pages. NO CHARGE WITH ORDER.

P20189 RCA TELEVISION COMPONENTS. Full information on all of the components listed below and profusely illustrated. NO CHARGE WITH ORDER.

Type No.	Description	Each
203L1	Video Series Peaking Coil (180 Microhenries)	.26
203L2	Video Shunt Peaking Coil (250 Microhenries)	.26
203L3	Video Series Peaking Coil (120 Microhenries)	.26
203L4	Video Shunt Peaking Coil (93 Microhenries)	.26
203R1	Horizontal Oscillator and Sync. Control Coil	.53
204D75	Alignment Coil, Image Orthicon	48.51
204L1	Filament Choke (Standard Package 5)	.12
204T7	Horizontal Deflector Output Transformer	11.76
204T3	Vert. Defl. Output Transformer for 10BP4 and 16AP4	2.94
204T4	Horiz. Defl. Output Transformer for 70P4 and 10BP4	7.06
204T5	Vert. Defl. Output Transformer for 10BP4 and 16AP4	2.65
205D1	Deflecting Yoke for 10BP4 and 12LP4 (60 degrees)	4.41
205R1	Hor. Osc. and Sync. Stab. Coil	1.32
206D1	Deflecting Yoke for 16GP4 (70 degrees)	5.29
206K1	Sound IF Transformer (21.25 MC)	.97
206R1	Width Control (High-efficiency)	.59
207D1	Defl. Yoke for 10BP4, 12LP4, and 16AP4 (60 degrees)	.59
207K1	Sound Discriminator Transformer (21.25 MC)	1.18
207R1	Horizontal Linearity Control (For Use with 21T11)	.59
208D1	Width Control for 16CP4 (70 degrees)	.59
208T2	Vertical Blocking Oscillator Transformer	2.29
208T3	Horizontal Blocking Oscillator Transformer	1.62
208T8	Horizontal Sync. Disc. Transformer	1.35
209D1	Vertical Blocking Oscillator Transformer	1.47
209R1	Deflecting Yoke for 16CP4 (Ferrite core 70 degrees)	5.29
211T1	Horizontal Defl. Output and High Voltage Transformer	3.29
211T2	Horizontal Defl. Output and High Voltage Transformer	11.17
211T3	Horizontal Defl. Output and High Voltage Transformer	3.29
211T5	Horizontal Defl. Output and High Voltage Transformer	5.59
217T1	Horiz. Defl. Output and HV Trans. for 10BP4 and 12LP4	3.29
218T1	Horiz. Defl. Output and HV Trans. for 16GP4 (70 deg.)	3.25
222T1	Vertical Defl. Output Trans. for 16CP4	1.76
223T1	Horiz. Defl. Output and HV Trans. for 16GP4 (70 deg.)	4.12
224T1	Horiz. Defl. Output and HV Trans. for 14EP4 and 17CP4	4.12
225T1	Horiz. Defl. Output and HV Trans. for 17CP4 and 20CP4	4.56
226T1	Vertical Output Transformer (Use with 209D1)	3.23

REPLACEMENT PARTS HEADQUARTERS FOR DEALERS AND SERVICEMEN

COILS AND VARIABLE CONDENSERS

MEISSNER COILS

"PLASTIC" IF TRANSFORMERS

Trimmer base and coil form are moulded in one piece. Trimmers "floated" away from base with an air gap between the bottom plate and the plastic base. Wide range frequency, adjustable either side of pre-set frequency, double-tuned. Metal shield can and Litz wire. Unaffected by temperature or humidity. Size: $1\frac{1}{4}$ " square by $2\frac{1}{4}$ " high.



INPUT Type	Set at	OUTPUT Type	Price
16-6649	175 KC	16-6651	1.00 Each
16-6652	262 KC	16-6654	
16-6658	456 KC	16-6660	

HI-KC IRON CORE "PLASTIC" IF's

Meissner Type 16-6662—Input, peaked at 455 KC. **1.49**
Meissner Type 16-6663—Output, peaked at 455 KC. **1.49**

"TWEET" FILTER OUTPUT IF

Meissner Type 16-6670. 455 KC output transformer with built-in "tweet" filter in secondary circuit. For replacement use in late-model receivers that have "tweet" filter enclosed in IF output shield. Plastic, air-core construction. Shield can $1\frac{1}{4}$ " x $1\frac{1}{4}$ " x $2\frac{1}{2}$ ". Spade bolt mounted on $1\frac{1}{8}$ " centers. **1.60**
16-6670—Meissner "Tweet" Filter Output IF. **1.60**
16-6679—Same as above except 262 KC. **1.49**

FM IF AND DISCRIMINATOR TRANSFORMERS

Meissner type 16-6665 IF transformer. For the new ultra-high FM frequencies. Permeability tuned to 10.7 MC. Mounted in rectangular shield can measuring $1\frac{7}{16}$ " x $\frac{1}{2}$ " x $1\frac{29}{32}$ " with screw type mounting lugs. **2.10**
Meissner type 16-6665. **2.10**

Meissner type 17-3484—Discriminator Transformer. Permeability tuned to 10.7 Mcycles for use on new FM range. Same size as above. **2.76**

Meissner type 17-3484. **2.76**
Meissner type 17-3487—FM Ratio Detector Coil. **2.73**

STANDARD ANTENNA AND RF COILS

Designed to cover the broadcast band from 545 to 1580 KC (190-550 meters) with a 365 mmfd. tuning condenser. Hk/b impedance primaries, wound with Litz wire. Shielded coils are in black crackle finish, non magnetic can. $1\frac{1}{4}$ " inches in diameter, $2\frac{1}{2}$ " inches high.

Type	Price
UNSHIELDED	
Antenna coil type 14-1010	68¢
RF coil type 14-1011	68¢
SHIELDED	
Antenna coil type 14-1004	88¢
RF coil type 14-1005	88¢

"UNIVERSAL ADJUSTABLE" UNSHIELDED COILS

Replace Broadcast band coils in most receivers, accurately track other coils when adjusted. Matches inductance of burned out coil with screwdriver adjustment. Oscillator coil adjustable from 175 to 520 kilocycles. For use with either cut plate or padding condenser circuits. **1.24**

Meissner type 14-1026 Ant. **1.24**
Meissner type 14-1027 R. F. **1.24**
Meissner type 14-1028 Osc. **1.24**

OSCILLATOR COILS FOR 190-550 METER CB BAND

Used with 365 mmfd. cond. IF, RF, and Antenna coils. Shielded type. $1\frac{1}{4}$ " x $1\frac{1}{4}$ ". Without padders.

Meissner	Type	Freq. KC	Padder Mmfd.	Price
14-4242	Shielded	175	900	96¢
14-4243	Shielded	456	350	96¢
14-3732	Unshielded	175	900	74¢
14-4034	Unshielded	456	350	74¢
*14-1033	Unshielded	456	350	61¢

* 6SA7 Oscillator Coll.

PHONO OSCILLATOR COIL FOR WIRELESS RECORD PLAYERS

Knob adjustment for selection of clear frequency in BC band. Meissner type 17-9373— $1\frac{1}{2}$ " sq. x $3\frac{1}{2}$ " high. **1.99**

BFO COIL
Supplies beat note for CW reception. Range 290-650 KC. Peaked at 456 KC. $1\frac{1}{4}$ " sq. x $3\frac{1}{2}$ " high. **1.73**
Meissner type 17-6763. **1.73**

RF CHOKES

All-purpose RF chokes, stentite dowels. Impregnated against humidity. Mounted on 6/32 screw.

Meissner No.	Ind. MH	Each
19-1994	2.5	46¢
19-4551	5.5	46¢
19-2078	8.0	49¢
19-8770	10.0	54¢
19-2330	30.0	64¢
19-3247	60.0	74¢

MIDGET SINGLE GANG CONDENSERS

Firmly staked rotor and stator plates. Low-loss bakelite insulation. Ball bearing. Counter-clockwise motion, one-quarter inch shaft. $1\frac{1}{4}$ " x $1\frac{1}{4}$ " x $1\frac{1}{8}$ " deep.

No.	Capacity	Each	No.	Capacity	Each
P10189*	15 mmfd.	68¢	P10195	150 mmfd.	68¢
P10191*	35 mmfd.	68¢	P10196	250 mmfd.	68¢
P10192*	50 mmfd.	68¢	P10198	410 mmfd.	68¢
P10194	100 mmfd.	68¢	P10199	450 mmfd.	68¢

* Double spaced.



FM GANG CONDENSERS

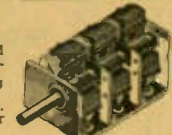
Each section contains a trimmer, aluminum plate, ball bearings, low-loss insulation plus $\frac{1}{4}$ " shaft.

3-Section: Each section 14.8-1.3 mmfd. **1.35**
P9794—Shpg. Wt. 1 lb.
2-Section: Each section 14.8-1.3 mmfd.
P9795—Shpg. Wt. 1 lb. **90¢**



GANG CONDENSERS

With aluminum plates, ball-bearing rotors, and low-loss insulation. Two and three gang units supplied with trimmers on bottom. Shafts $\frac{1}{4}$ " diameter, $1\frac{1}{4}$ " long. Three mounting holes. Tapped for 3/32 screws. All $1\frac{1}{4}$ " high, $1\frac{1}{8}$ " wide. All 365 Mmfd. per section, except cut sections on 456 KC super types.



TRF				456 KC Super		
No.	Each	Gangs	Length	Rotation	No.	Each
P9780	68¢	1	1 7/16	Counterclock	P9798	98¢
P9781	98¢	2	2 3/16	Counterclock	P9799	1.39
P9782	1.39	3	3 3/16	Counterclock		
P9783	68¢	1	1 7/16	Clockwise	P9796	98¢
P9784	98¢	2	2 3/16	Clockwise	P9797	1.39
P9785	1.39	3	3 3/16	Clockwise		

420-160 MMFD. GANG CONDENSERS

Two gang, 420 and 160 mmfd. condensers for use with 456 KC IF superhets. Counterclockwise rotation, with trimmers built onto frame. Total length $2\frac{3}{16}$ inches Shpg. Wt. 1 lb. **98¢**
P9775—2 gang, 420-160 mmfd.
P9776—3 gang, two 420 and one 160 mmfd. **1.39**

$\frac{1}{4}$ " PERMEABILITY TUNED IF COILS

Tuned top and bottom, powdered iron cores. Silvered mica condensers, molded plastic bases, etched aluminum cans. $\frac{3}{4}$ " x $\frac{3}{4}$ " x $2\frac{1}{2}$ ". With mounting clip and plate. * Spade bolt mtg. with leads.

Meissner type	Function	Each
16-6758	455 KC Input and Output	1.14
16-6770	455 KC Output, with diode filter conds.	1.24
16-6752	262 KC Input for auto receivers.	1.24
16-6754	262 KC Output for auto receivers, diode conds.	1.35
16-3487	10.7 MC FM Input and Output	2.73
16-6678*	455 KC AC-DC type Input or Output	1.24

MINIATURE ADJUSTABLE BROADCAST OSCILLATOR COIL

For Battery and 3-Way Portables
Small physical size, $1\frac{1}{2}$ " x $\frac{1}{2}$ " wide range of inductance adjustment. Ideal as replacement unit in most battery and 3-way portables. Inductance range allows use with gang condenser capacities of 108 to 180 mmfd. Allows accurate adjustment of inductance for proper calibration and tracking. **88¢**
Meissner Type 14-1074.

MINIATURE BROADCAST ANTENNA AND RF COILS

The small physical size, $1\frac{1}{2}$ " inch by $\frac{1}{2}$ " inch and the feature of having adjustable inductance makes these coils ideally suited to replacement in compact circuits or where mounting or original coil is difficult to duplicate. Designed to cover the broadcast band with gang condensers having effective capacities of 280 to 420 mmfd. **88¢**
Meissner type 14-1071 Antenna. **88¢**
Meissner type 14-1072 RF. **88¢**

MINIATURE ADJUSTABLE BROADCAST OSCILLATOR COIL

With 100 Mmfd. Capacity Interwinding.
For use with 6SA7, 12SA7, 6BE6, 12BE6, 7Q7, and 14Q7 tubes in receivers having 455 KC Intermediate Frequency and with effective gang condenser capacities of 108 to 180 Mmfd. in unpadding circuits, and 365 to 420 Mmfd. in padded circuits. Adjustable iron core permits accurate adjustment for proper tracking and calibration. Its small size of 1 inch by $\frac{1}{2}$ " inch permits its use in the most compact circuits. **88¢**
Meissner Type 14-1073. **88¢**

MICA TRIMMER CONDENSERS

Base of low-loss ceramic with India Ruby mica. Moisture resistant. Lugs bend easily.

No.	Plates	Range	Each
P9537	1 1/2	2-30 mmfd.	12¢
P9536	2	4- 80 mmfd.	12¢
P9535	3	9-180 mmfd.	16¢
P9534	4	25-280 mmfd.	18¢
P9533	5	45-380 mmfd.	20¢
P9532	6	70-480 mmfd.	22¢
P9531	7	100-580 mmfd.	24¢



BRASS SHAFT COUPLINGS AND BUSHINGS

Fig. 1 Coupler Type. Fig. 2 Extender Type.

Size	Fig.	Insulated Brass	
		Insulated	Brass
1	1	P15014	P15000
		P15006	P15001
		P15008	P15002
2	2	P15017	P15004
		P15018	P15005
		P15009	P15003

Fig. 3, Split Bushing. Increases shaft diameter $\frac{1}{4}$ "— $\frac{1}{2}$ "
P9730—7/16" long, Each **1.35**
10 For. **1.35**

BINDING POSTS—PHONE TIPS—PLUGS—CLIPS



ALLIGATOR CLIPS

Powerful grip. 2" clip is 3/4" wide, 2 3/4" clip is 5/16" wide. Steel non-rusting finish. P12955 end takes banana plug.

No.	Length	Each	10 For
P12955	2"	.08	.54
P12956	2 3/4"	.18	1.62

Copper with bronze spring. For RF work. Set screw 2" long. P12947 10 for 11¢
10 for 78¢



INSULATED ALLIGATOR CLIPS

Plated metal grips with insulated handles that take banana plugs. Handles in red or black; specify. Steel non-rusting spring. P12949 Copper with bronze spring.

No.	Length	Each	10 For
P12911	2 3/4"	.13	.88
P12909	3 3/4"	.18	1.62
P12949	2 3/4"	.15	.98



ALLIGATOR PHONE TIP JACK

Alligator clip fitted with standard phone tip jack. Fits test prods equipped with phone tip ends. Red or black—specify color.

P12880 10 for 32¢
10 for 2.88



PLAIN BANANA JACKS—PLUGS

Plug is 1 1/4" long. Jack is 3/4" long and fits 3/4" hole in panels to 3/4".

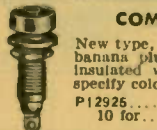
P12919—Plug. 10 for 8¢
10 for 70¢ 100 for 3.60
P12923—Jack. 10 for 9¢
10 for 81¢ 100 for 7.29



INSULATED BANANA JACKS—PLUGS

Plug has a set screw for solderless wire connection. Jack fits 3/4" hole in panels up to 3/4" thick. Red or black insulation on both. Specify color.

P12915—Plug. 10 for 13¢
10 for 1.15 100 for 10.35
P12916—Jack. 10 for 12¢
10 for 1.03 100 for 9.72



COMBINATION JACK

New type, takes both phono tips and banana plugs. Fully insulated, with insulated washer. In red or black—specify color desired.

P12925 10 for 14¢
10 for 1.23

STANDARD PHONE TIPS



Heavily plated. Takes up to No. 18 wire. 1" long.

P14881—10 for 12¢
100 for 1.00



PLAIN SOLDERLESS PHONE TIP PLUGS

All metal tip plug for tip jack use. Solderless connection. 1 3/4" long.

P12943 10 for 9¢
10 for 81¢
P12944—As above but 1 1/4" long. 10 for 8¢
10 for 72¢



SOLDERLESS INSULATED PHONE TIP PLUGS

Solderless type; fit all standard tip jacks. Used on test leads. In red or black. Specify color.

P12973—2" long. 10 for 14¢
P12974—1 1/4" long. 10 for 14¢
Either type 10 for 1.23



TIP JACKS

Mounted on 3/32" Bakelite. Contact springs grip cord tips securely.

P13037 10 for 14¢
10 for 1.23
P13038—Same as above. Triple jack. Each 14¢
10 for 1.26



AMPHENOL PHONE TIP JACKS

Type 78-IP. Bakelite body. Takes standard, plain or solderless phone tips. Mounts securely by means of snap ring. Requires 3/8" hole. Red or black. Specify color.

P12765 10 for 5¢



PLAIN TIP JACKS

Excellent for use with test equipment. Powerful spring holds cord tips securely. 3/4" mounting hole.

P12918 10 for 9¢
10 for 81¢

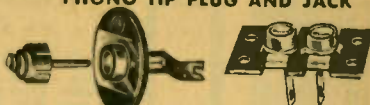


INSULATED TIP JACKS

New type springs which provide sure grip contact. Mounts in 3/16" hole. Red or black—specify.

P12879 10 for 11¢
10 for 99¢

PHONO TIP PLUG AND JACK



Single prong shielded plug used extensively for mike or phono pickup and other connections. Phono jack mounts in rear of panel through 3/4" hole and is 11/16" between centers.

P11773—Plug. Fig. A. 10 for 36¢
10 for 36¢
P11774—Jack. Fig. B. 10 for 7¢
10 for 63¢
Fig. C. Double phono jack mounted on 1/16" bakelite panel. 3/4" centers. P12964 10 for 11¢

EBY BINDING POSTS NON-REMOVABLE TOPS

Special designed for use on metal chassis. Post has hole for wire or phone tip. Junior post has 6-32 stud, 1 1/4" long. P13082 10 for 18¢
Ensign Post has 6-32 stud, 3/4" long. P13083 10 for 23¢
Commander Post has 8-32, 3/4" long. P13084 10 for 29¢

BINDING POST WITH BANANA JACK TOP

Hole in top takes banana plug. Hole in stem for wire. Red or black—specify color.

P12945 10 for 24¢
10 for 2.16

SCREEN GRID CLIPS

Miniature type for metal tubes. With wire ferrule.

P14985 12 for 2¢
12 for 10¢

FOR GLASS TUBES

P14827 12 for 2¢
12 for 10¢

BATTERY CLIPS

Heavily plated steel body. Strong spring.

P16061—2" long. 10 for 4¢
P16062—2 1/2" long. 10 for 6¢
P16063—3 3/4" long. 10 for 8¢

MUELLER AND FAHNESTOCK CLIPS



MUELLER CLIPS AND RUBBER INSULATORS

Spring-actuated clips. Type 27 and 270 are laboratory types with mesh teeth on three sides, others have teeth in front only. Insulators listed opposite proper size clips. Clips marked + and - (5 each, 10 to a box). Insulators come 5 red and 5 black.

CLIPS				INSULATORS			
No.	Type	Size	Each 10 For	No.	Type	Each 10 For	
P16029*	45	1 3/4"	.07 .49	P16031	47	.09 .59	
P16030†	45C	1 3/4"	.11 .78	P16031	47	.09 .59	
P16032*	48B	2"	.08 .54	P16033	49	.11 .73	
P16034*	24A	3"	.15 1.03	P16035	26	.24 1.76	
P16026*	27	2 3/4"	.11 .78	P16028	29	.17 1.18	
P16027†	27C	2 3/4"	.19 1.27	P16028	29	.17 1.18	
P16018†	21A	4"	.24 1.67	P16019	23	.34 2.45	

*Cadmium plated steel. †Lead coated steel. ‡Solid copper.

NO. 85T CROCODILE TIP CLIP

For connecting Bridges, Voltmeters, or anything having binding posts with non-removable heads. Has phone tip.

P16023—10 for 1.27 Each 18¢

No. 85. As above less phone tip. P16020—10 for 54¢ Each 8¢

No. 87. Plastic insulator for either of the above. P16021—10 for 54¢ Each 8¢

MUELLER WEE-PEE-WEE CLIP

No. 88-98. Non-ferrous R. F. Clip. Will not heat in high frequency circuits. Ideal for tapping coils. Length 1 11/16". Insulated with red or black jacket—specify color desired.

P16022—10 for 1.62 Each 23¢



FAHNESTOCK CLIPS

Grips wire with right pressure for good electrical contact without injury to wire. All are nickel-plated brass except 7, which are nickel-plated bronze. 3/4" wide except 7 which are 5/16".

Stock No.	Figure	Length	Max. Wire	Mtg. Hole	10 For	1000 For
P14824	B	1"	No. 10	No. 8	.10	13.20
P14828	C	1 1/16"	No. 10	No. 8	.14	9.40
P14825	B	1 1/4"	No. 10	No. 8	.36	29.00
P14825*	A	1 3/4"	No. 14	No. 6	.09	7.20
P14820†	D	1 3/4"	No. 10	Copper lug	.30	24.80
P14821	E	1 3/4"	No. 12	No. 6-32	.13	34.20

W MUELLER "TWIN CLIP"

Has jaws on both ends. Makes a quick splice, re-connects a broken lead, etc. Can be used for racking or holding parts or holding articles for display.

P16025—10 for 68¢ Each 10¢

G-C AMO MINIATURE TUBE PULLER

Fig. A. Prevent tube breakage. Easily removes or inserts miniature tubes. Works on suction and vacuum principle.

P15584—Shpg. wt. 2 oz. P15594—For 9-pin tubes. } Either type 97¢

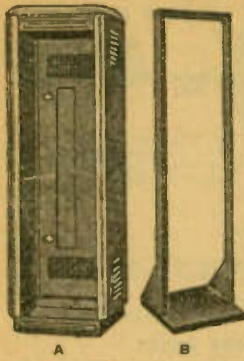
MINIATURE TUBE PIN STRAIGHTENER

Fig. B. Precision constructed steel die. Quickly straightens and aligns pins on miniature tubes.

P15261—For 7-pin miniature tubes. P15262—For 9-pin miniature tubes. } Each 73¢

USE OUR ORDER BLANK FOR FASTEST POSSIBLE SERVICE

ICA CABINETS, RACKS AND PANELS



TRANSMITTER AND PA SYSTEM RACKS

Fig. A. Deluxe, streamlined design. Made of 1/16" cold rolled steel. Panel mount angles drilled for amateur or Western Electric type panels. Screen ventilators on rear door and louvers give sufficient ventilation. Easy to assemble. Rear door hung on sturdy hinges with two flush snap catches added. Marine gray ripple finish (black ripple available of order).

Fig. B. Channel Racks. 1/4" steel with spot welded corners. Holes tapped for 10-32 screws. Black ripple finish.

Fig. C. 1/16" Steel Table Racks. For all standard panels. Black ripple. Base is constructed of one piece. Mounting holes drilled on universal centers.

Stock No.	Fig.	Overall Size	Panel Space	Shpg. Wt., lbs.	Net Each
P22152	A	43 1/2 x 22 x 18"	36 1/2 x 19"	110	47.24
P22153	A	67 1/2 x 22 x 18"	61 1/2 x 19"	162	58.74
P22154	A	83 1/2 x 22 x 18"	77 x 19"	190	70.06
P22150	B	73 1/2 x 20 x 16"	71 1/2 x 19"	85	20.28
P22151	B	38 1/2 x 20 x 16"	36 1/2 x 19"	57	17.05
P22102	C	25 x 21 x 12"	21 x 19"	33	6.47
P22103	C	32 x 21 x 12"	28 x 19"	30	8.21

3/16" BLACK POLISHED BAKELITE PANELS

Suitable for test instruments and radio applications. Shipping wt. 1 lb.

Stock No.	Size	Each
P19600	7x10"	1.69
P19601	7x12"	2.06
P19602	7x14"	2.45
P19603	7x18"	2.91

DELUXE STEEL CABINETS FOR RACK PANELS

Heavy duty cabinets built of 1/16" steel; black ripple finish. Welded construction, streamlined design. Standard mounting; built-in louvers. Neatly rounded corners. Universally drilled to fit all standard 19" rack panels. All have hinged doors with snap locks. Also available in slate gray on special order.

Stock No.	Overall Dimensions	Panel Space	Door Location	Shpg. Wt., lbs.	Net Each
P22188	10 1/2 x 21 x 15"	8 1/2 x 19"	Top Only	22	11.76
P22071	14 x 21 x 15"	12 1/2 x 19"	Top Only	29	14.26
P22191	10 1/2 x 21 x 15"	17 1/2 x 19"	Top & Rear	34	18.82
P22198	28 x 21 x 15"	26 1/2 x 19"	Rear Only	69	22.06
P22199	36 1/2 x 21 x 15"	35 x 19"	Rear Only	73	24.40

HEAVY STEEL RACK PANELS

Heavy duty 1/4" steel panels, fully slotted to fit any standard 19" relay rack. Furnished with amateur rack notching. Available either black or slate gray ripple finish.

Black No.	Gray No.	Hgt. Lbs.	Wt. Lbs.	Net Each	Black No.	Gray No.	Hgt. Lbs.	Wt. Lbs.	Net Each
P22169	P22118	1 1/2"	2	.67	P22163	P22124	12 1/4"	12	1.84
P22170	P22119	3 1/4"	5	.73	P22164	P22125	14"	13	2.13
P22171	P22120	5 1/4"	7	.91	P22165	P22126	15 1/4"	14	2.35
P22160	P22121	7"	8	1.06	P22166	P22127	17 1/4"	15	2.65
P22161	P22122	8 3/4"	9	1.29	P22167	P22128	19 1/4"	16	2.94
P22162	P22123	10 1/2"	10	1.55	P22168	P22129	21"	17	3.23

STEEL MOUNTING BRACKETS

1/16" steel; black ripple finish. Panels must be at least 7" high. Mounting holes drilled. Made to fit 17" relay rack chassis.

P15271—Base size 8" Pair **83¢**
 P15272—Base size 11" Pair 1.18
 P15269—Base size 13" Pair 1.66

CHASSIS SUPPORTING ANGLES

For heavy weights encountered in chassis construction. Distributes weight on sides of rack and relieves panel. 3/8" thick black painted steel. 3" wide and 1 1/4" long.

P22159—Per Pair **1.71**

CHROME HANDLES

For cabinets, amplifiers, chassis, etc. Mounting screws included.

P14563—6 1/2" Long Chrome Handles. Mfg. Centers 4 13/16" 75¢
 P14562—4" Long Chrome Handles. Mfg. Centers 2 3/4" 57¢

CHROME VENTILATING LOUVRES

Adds a distinctive touch to any receiver, amplifier, transmitter, or any other installation. Polished, chrome finished steel "Air-Cats" made up of 5 ventilating louvers. Air space between louvre plates 5/16". Distance between mounting hole centers: 4 27/32". Diameter of holes: 5/32". Length of louvres: 4 1/4". Size 5 7/16 x 3". Shpg. Wt. 8 oz.

P22234 **66¢**



STEEL CHASSIS AND BOTTOM PLATES

Chassis have four solid sides, welded corners. Bottom edges flanged in and drilled for plates. No. 20 gage steel plated or black ripple finish. Bottom plates have holes drilled to match chassis. Pressed corner bumpers. Black ripple finish.

Size D x L x H	Plated No.	Net Each	Black Ripple No.	Net Each	Bottom Plate No.	Net Each
4 1/2 x 8 x 1 1/4"	P22311	.75	P22391	.75		
5 x 9 1/2 x 1 1/4"	P22299	.76	P22211	.76	P22228	.39
7 x 7 x 2"	P22301	.88	P22212	.88	P22241	.53
7 x 9 x 2"	P22325	1.06	P22213	1.06	P22242	.55
7 x 11 x 2"	P22326	1.10	P22214	1.10	P22249	.63
7 x 13 x 2"	P22327	1.18	P22215	1.18	P22256	.67
7 x 15 x 3"	P22339	1.40	P22216	1.40	P22258	.73
10 x 12 x 3"	P22303	1.54	P22217	1.54	P22260	.76
10 x 17 x 3"	P22329	1.60	P22226	1.47	P22266	.80
11 x 17 x 3"	P22312	2.16	P22227	1.60	P22266	.98
13 x 17 x 3"	P22306	2.50	P22393	2.16	P22397	.98
			P22394	2.50	P22398	1.25

ALUMINUM CHASSIS

Four solid sides, welded corners. Bottom edges flanged in and drilled for plates. .055" thick. Unfinished.

Size D x L x H	Stock No.	Net Each	Size D x L x H	Stock No.	Net Each
7 x 7 x 2"	P22238	1.08	7 x 17 x 3"	P22246	2.16
7 x 9 x 2"	P22239	1.18	10 x 12 x 3"	P22247	2.06
7 x 11 x 2"	P22243	1.30	10 x 17 x 3"	P22248	2.81
7 x 13 x 2"	P22244	1.37	13 x 17 x 3"	P22396	3.24
7 x 15 x 3"	P22245	2.22	13 x 17 x 3"	P22396	3.26

MINIATURE ALUMINUM CHASSIS

Open end chassis of hard aluminum. Has a 1/4" flange on bottom to permit fastening down of chassis, or attaching it to a bottom plate. Extremely useful for small receivers, outboard

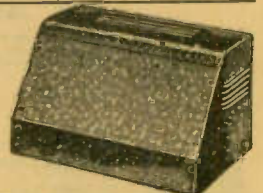
uses such as narrow band FM adaptors or where space is limited. Etched aluminum finish.

Stock No.	Size W x L x H	Net Each	Stock No.	Size W x L x H	Net Each
P22436	2 1/4 x 2 1/4 x 1 1/4"	.32	P22418	4 1/4 x 8 x 1 1/4"	.98
P22437	1 3/4 x 3 1/4 x 1"	.36	P22237	5 x 9 1/2 x 1 1/2"	1.08
P22438	3 1/4 x 4 1/4 x 1 1/2"	.39	P22442	5 1/4 x 4 1/4 x 1 1/2"	.49
P22439	2 1/4 x 4 1/4 x 1 1/4"	.39	P22443	4 x 3 x 1"	.39
P22440	3 1/4 x 4 1/4 x 1 1/4"	.39	P22444	4 x 4 1/4 x 1"	.43
P22441	3 x 6 1/4 x 1 1/4"	.46	P22445	4 x 3 1/4 x 1"	.46
			P22446	4 x 6 1/4 x 1"	.49

SLOPING FRONT CABINETS

All-purpose cabinets designed for use by studios, labs., amateurs, etc. Top corners are rounded and trimmed with attractive chrome.

Front panel is removable. Rear openings are provided for leads and ventilation. Slate gray ripple finish with red-stripped trim. Less chassis.



No.	Size	For Chassis	Wt., lbs.	Net Each
P22092	8 x 8 x 8"	7 x 7 x 7"	9	4.78
P22093	8 x 10 x 8"	7 x 9 x 7"	10	5.63
P22094	8 x 14 x 8"	7 x 13 x 7"	11	6.86
P22096	12 x 18 x 12"	10 x 17 x 10"	17	9.22

SLOPING PANEL STEEL CABINETS

Fig. A. Serve as speaker cabinets, oscillator cases, monitors, tell-talk systems, etc. Rounded Corners. Marine gray finish. **98¢**

P22097—Dimensions: 4 1/4 x 4 1/4 x 4 1/4". Shpg. wt. 2 lbs. **98¢**
 P22098—Dimensions: 7 1/4 x 4 1/4 x 4 1/4". Shpg. wt. 5 lbs. **1.64**

DELUXE METER CASES

Fig. B. For 2" and 3" meters. Marine gray ripple finish, chrome trim. **93¢**

P22080—4 1/4 x 4 3/16 x 4 1/4". Meter Hole 2 13/16" **93¢**
 P22081—4 1/4 x 4 3/16 x 4 1/4". Meter Hole 2 3/16" **93¢**

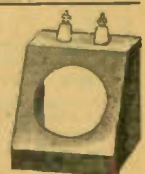
METER CASES

Steel case with black crackle finish. Dimensions: 4 x 4 x 4 1/4" high. Two ceramic insulators. Diameter of meter hole 2 3/16". Shpg. wt. 2 lbs.

P10398 **1.10**

As above but with 2 13/16" dia. meter hole.

P10399 **1.22**



BAKELITE METER BOX

Heavy molded plastic. Will withstand rugged use. Overall Dimensions: 6 13/16 x 5 1/16". Inside Dimensions: 6 1/2 x 5 x 2 1/4". Panel mounting screw inserts are moulded into case. **98¢**

P22148 Less Panel. Shpg. wt. 3 lbs. **98¢**

P22149—Panel for above. Shpg. wt. 1 lb. **60¢**



UTILITY CABINETS AND PARTS DRAWERS



HINGED STEEL CABINETS

Deluxe streamlined cabinets with full-length plano hinged top and removable front panel. Sturdily constructed of sheet steel, spot welded reinforced corners. Slate gray finish with chrome trim. Ventilators on side. Supplied less chassis. Standard cabinets similar to the deluxe model but without chrome trim. Without chassis.

Deluxe	Ea.	Standard	Ea.	HxWxD	Panel	For Chassis
P22087	4.07	P22200	3.53	8x10x8"	8x8"	7x7x2"
P22088	4.58	P22201	3.92	8x12x8"	8x10"	7x9x2"
P22089	4.85	P22202	4.49	8x14x8"	8x12"	7x13x2"
P22091	10.45	P22203	9.76	12x20x12"	12x18"	10x17x3"

GENERAL UTILITY AND HINGED COVER CABINETS

Streamlined sturdily made steel cabinets designed for use in radio and other allied fields. All are made of sheet steel, constructed with spot welded corners and have 1/4" wide flanges. Fig. A, Utility Cabinets. Fronts and backs are easily removable and held firmly in place by means of self-tapping screws included with cabinets. Black ripple finish. Fig. B, Hinged Cover Cabinets with plano hinged lids. Arranged so that bottom, front or back panel may be removed for circuit wiring. Black ripple finish.



Utility Stock No.	Ea.	Hinged Cover Stock No.	Ea.	Dimensions HxWxD	Shpg. Wt.
P22209	.83			4x4x2"	2 lbs.
P22210	.93			5x4x3"	3 lbs.
P22174	1.27			6x6x6"	3 lbs.
P22175	1.82	P22385	3.21	6x8x6"	5 lbs.
P22173	2.25	P22386	3.84	7x10x8"	6 lbs.
P22176	2.84			10x8x10"	7 lbs.
P22177	3.58	P22388	5.19	8x12x11"	9 lbs.
P22181	2.41			6x12x7"	5 lbs.
P22182	4.02			7x15x9"	10 lbs.
		P22387	4.35	7x12x8"	
		P22389	5.19	7x14x8"	
		P22390	6.50	9x18x12"	

MINIATURE UTILITY CABINETS WITH ATTACHED CHASSIS

Ideal for building electronic devices using miniature tubes. Front and rear panels are removable and fastened with self-tapping screws, permitting easy accessibility. Useful for HF converters, TV amplifiers, and power supplies. Black wrinkle finish.

Stock No.	HxWxD	Chassis Size	Each
P22430	4x4x2"	1 1/4 x 1 1/2 x 1 1/2"	1.03
P22431	4x5x3"	1 1/4 x 1 1/2 x 1 1/2"	1.13
P22432	5x4x3"	1 1/4 x 1 1/2 x 1 1/2"	1.13
P22433	6x4x5"	1 1/4 x 1 1/2 x 1 1/2"	1.40
P22434	4x6x5"	1 1/4 x 1 1/2 x 1 1/2"	1.40
P22435	6x6x6"	1 1/4 x 1 1/2 x 1 1/2"	1.47

AMPLIFIER CHASSIS AND COVERS



The sturdy chassis is stamped from 1-piece cold rolled steel. Has black ripple finish. Covers are 8" deep with slate gray finish. 3" high chassis are drilled for bottom plates (not supplied). Deluxe models include chrome molding and handles. Standard models less chrome trim and handles.

Standard Stock No.	Ea.	Deluxe Stock No.	Ea.	Size	Shpg. Wt. Lbs.
P22132	2.64	P22183	3.82	8 1/4 x 10 x 9"	9
P22138	3.72	P22139	4.90	8 x 12 x 9"	11
P22135	4.24	P22185	5.39	7 x 17 x 9"	11
P22136	4.57	P22186	5.56	10 x 14 x 9"	11
P22137	4.90	P22187	6.20	10 x 17 x 9"	13

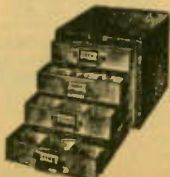
PORTABLE STEEL CABINETS

For oscillators, transceivers, etc. Removable front and back panels. Leather handles. Black ripple finish.

P22273—12x7 1/2 x 7"	2.84
P22274—15x7 1/2 x 7"	3.56

4-DRAWER ALL STEEL UTILITY CABINET

This bigger and better all-steel cabinet has 4 drawers 9" wide, 11 1/2" long, 2" deep. Has removable dividers to make up to 12 compartments in each drawer. All drawers interchangeable; with card-holders and bar pull. Heavy gauge steel construction, welded joints, one piece drawer supports. Easily stacked. Safety drawer stop to prevent spilling. 10" x 11 1/2" x 10" high. Durable steel gray ripple finish. Wt. 10 lbs.



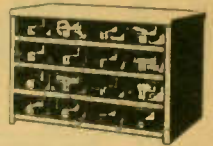
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P22372.....

LAFAYETTE FOR FRIENDLY, EFFICIENT SERVICE

JIFFY METAL STORAGE UNITS

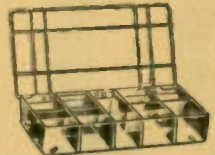
A convenient place for small parts, supplies etc. More units can be added if additional space is required. Cabinets can be attached back to back, side by side or one on top of another. All steel cabinet with baked enamel finish. Drawers are made of plastic, with ribbed bottom for easier sliding. Plastic sliders quickly slip into place to form extra compartments. Safety catch prevents spilling. A slight lift removes drawer. Provision for name plate in each drawer. Drawer size: 5 1/4" D., 2 1/4" W., 1 1/4" H.



Stock No.	Mfr's No.	Drawers	Dimensions	Each
P22340	J8	8	8"Hx6"Dx 6 1/4"W	3.98
P22341	J2	12	8"Hx6"Dx 9 1/4"W	5.30
P22342	J16	16	8"Hx6"Dx 12 1/4"W	6.45
P22343	J32	32	15"Hx6"xDx12 1/4"W	11.71
P22347	J64	64	15 1/2"Hx6"Dx25 1/2"W	22.90

TRANSPARENT UTILITY BOXES

These attractive, crystal-clear plastic boxes make ideal storage compartments for screws, nuts, bolts and hundreds of other small parts. Built-in partitions keep parts separated at all times. Tight, snug fit of hinged cover assures parts remaining in correct compartment even when carried upside down.



Stock No.	Mfr's No.	Dimensions	Compartment	Wt.	Each
P22384	P212	7"x3 1/2"x1 1/2"	5	5 Oz.	.50
P22374	P203	8 1/4"x4 1/2"x1 1/2"	6	7 Oz.	.63
P22313	P210	7"x3 1/2"x1 1/2"	9	5 Oz.	.50
P22370	P201	8 1/4"x4 1/2"x1 1/2"	12	7 Oz.	.63
P22369	P618	10 1/2"x6.4x1 1/2"	18	17 Oz.	1.59

NEW UTILITY CABINET

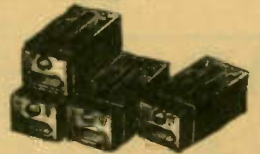
An ideal all steel cabinet for stocking and storing small parts. Drawer partitions are removable, to make from two to eight compartments in each drawer. Identification card holders are part of the drawer handles. Top and bottom of cabinet are embossed so as to fit securely when stacked. Silver gray, quality finish and strong construction make this cabinet an excellent value. Dimensions are 6" wide x 6 1/2" high x 8" deep. Drawers measure 1 1/2" deep. Shipping weight: 5 lbs.



P22374..... 2.25

ALL STEEL MULTI-DRAWER

Convenient and economical storage for fittings, and small parts. Each unit constructed with tongue and slot designed to interlock with other units at top, bottom or side. Units may be fitted and securely locked around existing fixtures for economy of space. Each drawer has handy pull and holder for contents card. All steel construction; finished in attractive two-tone green. Ample drawer depth permits storage of reasonably large parts. Overall dimensions: 2 1/2" x 2 1/2" x 5". Shipping Weight 10 oz.



P22381—12 for..... 2.95 Each..... 30¢

EQUIPTO PARTS CABINET

A handy unit of exceptional quality for storing your small parts. Use individually, stack or insert under counters and in shelving. Frames are welded into one strong, solid assembly that can be stacked with additional frames. Each of the eighteen drawers comes equipped with two adjustable and removable cross dividers. This makes a total of 54 adjustable compartments. Dimensions of drawer 11 1/2" x 5 1/2" x 3 1/2" high. Dimensions of cabinet are: 34" wide x 13 1/2" high x 12" deep. Olive green finish. Shipped set up and ready to use.



P22373.—Shpg. Wt. 76 lbs. 29.94
P22368.—Additional drawer dividers..... Ea. 9¢

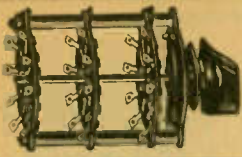
SLIP COVER ALUMINUM BOXES

These all aluminum boxes are ideally suited for holding a variety of electronic parts such as television IF strips. The long, narrow shape is excellent for low-level high-gain amplifiers, frequency multipliers and other equipment requiring complete shielding. The slide cover permits easy accessibility to mounted parts and provides dust-proof protection. Cover is secured to the ends by screws. Heavy aluminum construction assures long life, easy drilling and punching for any type of mounting. The set builder and amateur will find this item a handy housing for special equipment. Available in natural finish or gray hammertone.



Stock No.	ICA Type	Size HxWxD	Shpg. Wt., Lbs.	Net Each
P22407	29130	2 1/2 x 3 1/2 x 13"	1 1/2	3.55
P22408	29135	2 1/2 x 5 1/2 x 13"	1 1/2	3.84
P22409	29140	2 1/2 x 3 x 17"	2	3.67

MALLORY & CENTRALAB SWITCHES

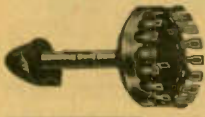


MALLORY GANG SWITCHES

Contact members heavily silver plated and given a smooth hard finish. Contact shoe of the self cleaning type, is of silver alloy. Switches provided with one permanent stop and one adjustable stop. Bushings $\frac{1}{4}$ " and extend $\frac{1}{4}$ ". Pointer type, bakelite knob also supplied. Switches marked with asterisk (*) have OFF position. Specify Mallory Cat. No.

Mallory Cat. No.		Gangs	Total No. Circuits	Positions Per Circ.	Each
Shorting	Non-Shorting				
1211L	1311L	1	1	11	.91
1216L	1316L	1	2	5	.97
1213L	1313L	1	3	3	1.06
1212L	1312L	1	4	2	1.16
1221L	1321L	2	4	4	1.62
1226L	1326L	2	6	3	1.65
1223L	1323L	2	8	2	1.73
1222L	1322L	3	3	11	1.82
1231L	1331L	3	4	11	1.94
1236L	1336L	3	6	11	2.32
1241L	1341L	4	4	5	2.70
1246L	1346L	4	8	5	2.88
1261L	1361L	5	5	11	3.41
1266L	1366L	5	10	6	3.56
1261L	1361L	6	6	11	3.41
1266L	1366L	6	12	6	4.35

MALLORY SINGLE-GANG SELECTOR SWITCHES



Tap and circuit selector switches with same features as gang switches above. For use in many types of test circuits. 2" notched shafts, $\frac{1}{4}$ " dia. With black bar knob and mounting nut. $\frac{1}{16}$ " bushings. *Indicates adj. stop.

Mallory Cat. No.		No. of Circuits	Positions Per Circ.	Base Diam.	Each
Shorting	Non-Shorting				
3116J	3216J	1	5	1 1/4"	.68
31112J	32112J	1	12	1 1/4"	.68
3122J	3222J	2	2	1 1/4"	.68
3123J	3223J	2	2	1 1/4"	.68
3126J	3226J	2	4	1 1/4"	.68
3134J	3234J	3	4	1 1/4"	.71
3142J	3242J	4	2	1 1/4"	.71
3143J	3243J	4	3	1 1/4"	.71
31117J*	32117J*	1	17	1 1/4"	1.06
3129J*	3229J*	2	9	1 1/4"	1.06
3136J*	3236J*	3	6	1 1/4"	1.16
3163J*	3263J*	3	3	1 1/4"	1.16

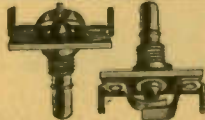
MALLORY PUSH-BUTTON SWITCHES



Non-locking types with black bakelite knob. For mounting in $\frac{1}{4}$ " hole, panels up to $\frac{1}{4}$ ". *Normally open.

Mallory	Contacts	Each
2001	SPST*	.76
2002	SPST	.76
2003	SPDT	.82
2004	DPST*	.94
2006	DPDT	1.16

CENTRALAB PUSH SWITCHES



Momentary Action. For high duty applications. 1 amp. at 110 v. a.c. Silvered contacts. Insulated $\frac{1}{4}$ " bushing, $\frac{1}{4}$ " long. Button extends $\frac{1}{4}$ " from end of bushing. Available with contacts normally closed or open. Centralab Type 1471—Norm. open... 24¢ Centralab Type 1470—Norm. closed... 24¢

CENTRALAB LEVER SWITCHES

Positive and Spring Return Types. With knob. Plates available for vertical mounting singly or in groups up to five. $1\frac{1}{4}$ " H x $\frac{3}{4}$ " W. $1\frac{1}{4}$ " behind panel depth. $1\frac{1}{4}$ " mounting centers.

Centralab Cat. No.		Poles	Pos.	Action	Adv Type	Each
Shorting	Non-Shorting					
1462	1464	2	3	Positive		73¢
1463	1465	2	3	Spring Ret.		
1466	1467	4	2	Spring Ret.		
1469	1468	4	2	Positive		
1466	1467	2	3	Pos. & S.R.		

CENTRALAB LEVER SWITCH MOUNTING PLATES

Black crackle finished steel.

Centralab	Gangs	Size	Each	Centralab	Gangs	Size	Each
P1756	1	2 1/4 x 3 1/4"	.21	P1758	4	3 1/2 x 3 1/4"	35¢
P1756	2	1 3/4 x 3 1/4"	.24	P1759	5	3 3/4 x 3 1/4"	44¢
P1757	3	2 1/4 x 1 1/2"	.29				

CENTRALAB TONE SWITCHES

Have $\frac{1}{4}$ " dia. bushing with $\frac{1}{4}$ " insulated steel shaft, $2\frac{1}{4}$ " long. No knobs or plates.

Centralab	Description	Each
1460	SPDT or SPST Phono-radio	.44
1461	BP-3pos. selector	.44
1462	DPDT wave band switch	.44
1473	DP-3pos. selector	.69
1463*	SPDT Spring return	.44
1464*	DPDT Spring return	.69

* Non-Shorting for Intercoms.

No. 1465. Single pole, four position selector switch with BPST AC line switch attached. Three active pos. and one "off". Pos. Index, shorting contacts. Centralab No. 1466—Each... 73¢

CENTRALAB UNIVERSAL FLAT SWITCHES

Use many ways, from single pole single throw to 4 pole double throw. Bakelite insulation, non-shorting contacts. Requires $\frac{1}{4}$ " depth for mounting. With $2\frac{1}{4}$ " shaft and bar knob. Centralab No. 1450—Each... 59¢ Centralab No. 1451—As above, with spring return 1.03

MALLORY DIAL PLATES

Numbers in white. Fit $\frac{1}{4}$ " bushings. Types 372 to 390 for switches 1200L, 1300L and $1\frac{1}{4}$ " base 3100J and 3200J. Others for $1\frac{1}{4}$ " base 3100J and 3200J. $1\frac{1}{4}$ " dia. Shpg. wt. 1 oz.

30° SPACING				20° SPACING			
FOR 1 1/4" BASE SWITCHES		FOR 1 1/4" BASE SWITCHES		FOR 1 1/4" BASE SWITCHES		FOR 1 1/4" BASE SWITCHES	
Type	Marking	Type	Marking	Type	Marking	Type	Marking
372	1 to 2	382	1 to 12	453	1 to 3	467	1 to 17
373	1 to 3	383	Off 1 to 3	454	1 to 4	473	Off 1 to 3
374	1 to 4	384	Off 1 to 4	455	1 to 5	474	Off 1 to 4
375	1 to 5	385	Off 1 to 5	456	1 to 6	475	Off 1 to 5
376	1 to 6	386	Off 1 to 6	457	1 to 7	476	Off 1 to 6
377	1 to 7	387	Off 1 to 7	458	1 to 8	477	Off 1 to 7
378	1 to 8	388	Off 1 to 8	459	1 to 9	478	Off 1 to 8
379	1 to 9	389	Off 1 to 9	460	1 to 10	479	Off 1 to 9
380	1 to 10	390	Off 1 to 10	461	1 to 11	480	Off 1 to 10
381	1 to 11			462	1 to 12		

Specify Mallory Type No. Desired—Net Each... 12¢

MALLORY 170C CERAMIC GANG SWITCHES

For radio receivers and low power transmitter circuits. "Snap" indexing. Assembly with adjustable stop. Heavy silver plated contacts. With knob.

Mallory	No. of Gangs	Circ. Per Gang	Pos.	Each
172C	1	1	11	1.32
173C	1	1	5	1.32
174C	1	3	2	2.06
175C	2	1	11	2.06
177C	2	2	5	2.06
178C	2	3	3	2.06
180C	3	1	11	2.94
181C	3	2	5	2.94



MALLORY 160C CERAMIC GANG SWITCHES

Low loss ceramic insulation, non-shorting, silver plated contacts. 90° indexing. For plate circuits up to 1000 V.D.C. and up to 100 watts. 2 inch shaft with knob.

Mallory	Gangs	Circ.	Each
161C	1	1	1.32
162C	2	1	2.06
163C	3	3	2.94
164C	4	4	3.53
165C	5	5	4.41



Mallory No. 488—Special dial plate for above, numbered from 1 to 4 Each... 12¢

CIRCUIT OPENING SWITCH



12 positions; opens one line at a time while maintaining circuit through others. $1\frac{1}{4}$ " x $2\frac{1}{4}$ " wide. $\frac{1}{4}$ " bushing. 2" notched shaft. Complete with knob & dial plate. Mallory No. 1400L—Each 3.47

24 POINT TAP SWITCH



Suitable for use in test circuits, tube checkers, analyzers. Special single-circuit 24-point, non-shorting switch. $\frac{1}{4}$ " bushing, 2" grooved shaft. Complete with dial plate and bar-type knob. Mallory No. 13124L—Each 2.06

MALLORY PLUGS AND JACKS

MALLORY JUNIOR JACKS

Compact, extend only $1\frac{1}{4}$ " behind panel. Heavily plated springs.

- No. 701. Open Circuit... 32¢
- No. 702. Cir. closed.
- No. 702A. Two circuit.
- No. 702B. Three circuit microphone jack—Each... 44¢
- No. 703. Single circuit filament control.
- No. 703A. Cir. reverse.
- No. 703B. 3 circuit mike. 1 circuit closing—Each... 50¢
- No. 704. Interstage.
- No. 704A. Two circuit filament control—Each... 69¢
- No. 705. Two-circuit filament lighting—Each... 68¢
- No. 706. Interstage, filament control Each... 73¢

MALLORY PLUGS, JACKS

- No. 75. Two way. Bakelite shell. Tie cord anchor included. Mallory No. 75—Each... 38¢
- No. 75N. As above, but nickel shell. With tie cord anchor. Mallory No. 75N—Each... 69¢
- No. 76A. As above, with built in cable clamp included. Mallory No. 76A—Each... 97¢
- No. 100. 2-Way Extension Jack. Equipped with fiber shell. Mallory No. 100—Each... 76¢
- No. 100N. As above, but comes with nickel shell. Mallory No. 100N—Each... 97¢
- No. 100A. As above, but with nickel shell and cable clamp. Mallory No. 100A—Each... 1.36

MALLORY MIDGET JACKS

Extremely compact. Mount in $\frac{1}{4}$ " hole. Type A-1 "Infant" jack is not illustrated.



Mallory	Type	Each
A-1	Open circuit	.18
A-2	Cir. closing, shorting	.29
A-2A	Two circuit	.32
A-3A	Cir. reverse	.47

MALLORY LONG FRAME JACKS

Extend $3\frac{1}{4}$ " behind panel. Have pure silver contacts as well as bakelite separators. No. 1. Open circuit—38¢ No. 2. Circuit closing. No. 2A. Two Circuit long frame jack. Either type—Each... 47¢

Microphone Plugs

No. 76. 3-Way mike plug. Bakelite shell. Mallory No. 76—Each... 69¢ No. 76A. Same, but with nickel shell. Mallory No. 76A—Each... 1.15

MALLORY SIGNAL CORPS TYPE JACKS



Phone Jack: Type SC1A. Like Sig. Corps type JK-34A. Open circuit. Takes Mallory 75; W.E. 47A, 47B; Sig. Corps No. PL-47, PL-48, PL-55, PL-148, PL-155. 32¢
Mike Jack: Type SCA2B. Three circuit. Like Sig. Corps No. JK-33A. Takes W.E. 109; Sig. Corps No. PL-46, PL-68, PL-168. 38¢
Mallory SCA2B—Each... 38¢

SWITCHES FOR EVERY PURPOSE



CUTLER-HAMMER NEW DESIGN SWITCHES

Approved type with nickel-plated metal parts. Fast action—excellent for appliances, radio receivers, etc. Underwriters Approved. Stem length, fig. 1 and 2, 1 1/2"; fig. 3 and 4, 1 1/4".

No.	C-H Type	Fig.	Circuit	Amps @ 125v.	Each	Lots/10 Each	Lots/100 Each
P12836	8280K16	1	SPST†	6	.36	.32	.27
P12834	8282K14	1	SPDT	3	.46	.40	.34
P12833	8363K7	1	DPDT	6	.76	.68	.58
P12817	8360K7	1	DPST	6	.66	.59	.50
P12813	7321K3	2	SPST	12	.81	.73	.62
P12814	7320K3	2	DPST	10	.81	.73	.62
P12837	8097K3	3	SPST	3	.32	.29	.25
P12832	7140K6	4	SPDT†	3	.37	.33	.28

* Midget Kateu AC. † With Dead Center Position.
Fig. 5, On-Off switch plate for toggles. With locking projection.
P12818—Each.....4¢ 10 for.....36¢
100 for.....2.90

CUTLER-HAMMER HEAVY DUTY SWITCHES

Fig. 2. Underwriters approved. Nickel-plated metal parts. Fast action. Handles motor rated 1 hp. at 125/250v. Stem 1 1/2".

No.	C-H No.	Circ.	Amps @ 125v.	Amps @ 250v.	Each	Lots/10 Each	Lots/100 Each
P12815	7361K5	SPST	15	10	1.29	1.16	.99
P12816	7360K8	DPST	15	10	1.29	1.16	.99

HART & HEGEMANN SWITCHES

H & H TOGGLE SWITCHES

UL approved. All in moulded bakelite cases. Silver plated terminals. All have 1 1/2" long stems. Supplied with mounting hardware.

No.	H & H No.	Fig.	Poles	Amps @ 125 v.	Net Each	Lots/10 Each	Lots/100 Each
P12740	80992	1	SPST	6	.36	.32	.27
P12741	81021	1	SPDT	6	.50	.45	.41
P12742	81027	1	DPDT	6	.75	.69	.62
P12743	81024	1	DPST	6	.66	.59	.53
P12744	80607	2	SPST	12	.81	.73	.62
P12745	80600	2	DPST	12	.81	.73	.62
P12746	80601	2	SPST	15	1.29	1.16	.99
P12747	80602	2	DPST	15	1.29	1.16	.99

H & H ROTARY PANEL SWITCHES

† Rated 3 amps., 250 volts; others 3 amps., 125 volts. Approved type. With lockouts. Shaft extends 1" bushing 1/4" dia. Lug terminals. * 1" bushing.

No.	Type	Es.	10 For
P12779	SPST†	.40	3.60
P12693	SPST	.38	3.40
P12780	SPST *†	.60	5.40
P12781	DPST	.66	6.00
P12782	DPST	.75	6.80
P12783	DPDT	.76	6.80
P12784	DPDT *†	.80	7.60

H & H TWO CIRCUIT PUSH SWITCHES

In normal position, with plunger out, one circuit is "on," and the other "off." When plunger is depressed, circuits are reversed. Slow make, quick break momentary contacts. Rated 1 amp. at 125 v. AC. Bushing 1/2" dia., 3/4" long. Metal plunger type used on Supreme and other instruments.

Stock No.	Plunger Type	Each	10 For
P12774	Metal plunger	.48	4.32
P12777	Bakelite tip, Red	.60	5.67
P12778	Bakelite tip, Black	.60	5.67
P12775	Bakelite button, Red	.56	5.04
P12776	Bakelite button, Black	.56	5.04

ROTARY SWITCH PLATES

"Off-On" switch plate. Etched aluminum and black. Size: 1" x 1 1/4". Clean out lettering. P9857—10 for 1.35. Each 15¢
"Off-On" switch plate. Etched aluminum and black. 1 1/4" x 1 1/4". P9856—10 for 1.08. Each 12¢

BAKELITE KNIFE SWITCHES

Heavily plated metal parts, bakelite base. Single pole types 1 1/4" long; double pole, 2 1/4". Excellent for use for switching high and low sections of television antennas.

No.	Type	Each
P16830	SPST	.54
P16831	SPDT	.59
P16832	DPST	.73
P16833	DPDT	.88
P16834	3PST	1.20
P16835	3PDT	1.30
P16836	4PST	1.64
P16837	4PDT	1.96

CANOPY SWITCH

Rotary type, composition top. Very shallow. Wire leads. Rated 3 amp. at 125 v. P13342—Each.....18¢
10 for.....1.62

SLIDE SWITCHES

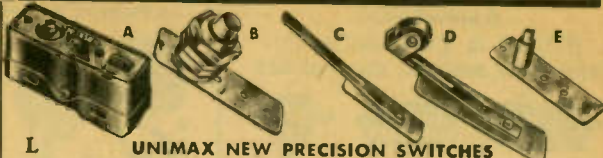
Compact slide silver plated switches in cadmium steel housings. All rated 125 v. AC/DC. 1 1/4" mtg. ctrs.



No.	Type	Amp.	Term.	Each
P12842	SPST	.75	2	.19
P12843	SPDT	.75	3	.22
P12844	DPST	.50	4	.25
P12840	DPDT	.50	6	.33

FLAT PLUG

Ultra-compact type for use where space is limited. Bakelite body. 1/4" dia., 1/4" thick. P14964.....44¢



L UNIMAX NEW PRECISION SWITCHES

Actuators attached to removable, interchangeable "adaptaplates." Operating pressure, approx. 8 oz. All units SPDT, except MXO-1, which is SPST. Ratings: 15 amps, 125 volts; 5 amps, 250 volts; 60 eye. Units vary only in style of actuator.

P12653	MX-1—Basic Pin Type (A)	1.10
P12654	MXL-1—Leaf Spring Type (C)	1.20
P12655	MXO-1—Top Reset, Plunger Type (B)	1.30
P12656	MXU-1—Bottom Reset, Plunger Type (B)	1.30
P12657	MXT-1—Hinged Leaf Spring Type	1.40
P12658	MXW-1—Leaf Spring Roller Type (D)	1.56
P12659	MXQ-1—Plunger, Small Spring Type (E)	1.40
P12660	MXA-1—Hinged Arm, Roller Type	1.40
P12661	MXV-1—Reverse-Acting, Hinged Type	1.80
P12662	MXF-1—Reverse-Acting, Hinged Roller Type	1.80
P12663	MXJ-1—Plunger Type, For Panel	2.50

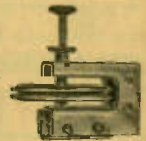
STANDARD MU SWITCH

Light pressure, quick action precision units. Require only 4 oz. pressure and .01" of movement to operate. Underwriters approved. Rated 15 amps at 125 volts AC; 1/4 H.P. inductive loads at 125-460 v. AC. Screw terminals with lugs. 1 1/4" x 1 1/4" x 1 1/4".

No.	Type	Normal	Each
P12725	SPST	Closed	.90
P12726	SPST	Open	1.00
P12727	SPDT		1.08

THERMO-STAT SWITCH

MU switch designed for automatic control of temperature in electrically heated brooders and incubators, or wherever an automatic electric heat control is desired. Maximum efficiency between 80° and 120° F. Has double ether-filled wafer and adjusting screw. Rated 15 amps, 125 v.; 5 amps, 250 v. AC only. Non-inductive loads. P12763.....1.65



FEDERAL ANTI-CAPACITY SWITCHES

Phosphor-bronze silver plated springs, actuated by a cam roller. 2 1/4 x 5 x 3/4".

No.	Type	Each
P12852	DPST	3.16
P12851	DPDT	3.15
P12850	4PDT	3.62



KON-NEG-TOR MERCURY SWITCHES

Designed for long, dependable service. Hydrogen filled to quench the arc and protect contacts. Attached 8-inch leads. Made of Pyrex glass with tungsten lead-in wires. Temperature range—40° C. to melting point of solder. May be operated under oil—if properly waterproofed, under water. Minimum tilt force required.
Type 2-52KR1—Rated AC voltage, 8 v. @ 5 amps., 125 @ 2, 250 @ 1. 1 1/4" long, 3/32" max. diameter. Requires one 6601 clip.
Type 1-2682—(Operates with 15° tilt).....NET 34¢
Type 4-21KR1—Rated AC voltage, 125 v. @ 15 amps., 250 @ 10, 550 @ 8. 1 1/2" H, 1 1/4" L, 0.477" diam. Requires two 4838 clips.
P12683—(Operates with 20° tilt).....NET 2.35
Type 7-21KR1—Rated AC voltage, 125 v. @ 25 amps., 250 @ 20, 550 @ 15. 1 1/2" H, 2 1/4" L, 0.548" diam. Requires two 4839 clips.
P12684—(Operates with 20° tilt).....NET 2.84
P12685—6601 clip.....Each 6¢
P12686—4838 clip.....Each 3¢ P12687—4839 clip.....Each 3¢



POPULAR PHONE PLUGS

For 1 or 2 phone or speaker cords, Molded bakelite shell 2 3/4" L x 3/4" dia. Screw terminals.
P14974—Black.....Each 33¢
P14971—Red.....Each 2.97
Metal Shell Type above, with nicked brass shell. Dimensions 3 1/4 x 3/4".
P14970.....Each 59¢
10 for.....5.31
"Stubby" Metal Shell. As above, but with short metal shell. 2 3/4" overall.
P14959.....Each 47¢
10 for.....4.23
Midget Bakelite Plug. Bakelite shell. 2 1/4" x 3/4" dia. Solder lug terminals.
P14960—Black.....Each 33¢
P14963—Red.....Each 2.97
10 for.....2.97



MIDGET JACKS

Fine grade bakelite insulation and tempered nickel silver springs. Mounts in 3/4" dia. hole in panels to 1/4" thick. With mounting hardware. P6548—Closed circuit.....22¢
P6549—Open circuit.....18¢
P6550—Improved short jack. Fits standard 3-circuit mike plug. Each.....29¢



SPECIAL PLUGS

Fit standard jacks. Meet exacting govt. requirements.
PL54—Short 2-way plug. P14966.....Each 75¢
PJ055B (old PL55)—Long 2-way plug. P14966.....Each 73¢
P1686—3-way mike plug. P14967.....Each 1.32



WALSCO MINIATURE PLUG AND JACK

Two-conductor precision army type. Needs no screws; molded plastic case cements together. Ideal for hearing aids, speaker extensions, etc.
P14961—Plug only (type PL-291).....Each 35¢
P14962—Jack only (type JK-48).....Each 47¢



USE OUR ORDER BLANK FOR FASTEST POSSIBLE SERVICE

PLUGS-CONNECTORS-TERMINAL STRIPS

AMPHENOL

PLUGS & CONNECTORS MINIATURE SHIELDED CONNECTORS



Fig. A. Shielded miniature connectors. Molded bakelite in cadmium plated brass shells. For cables up to 1/4". Shield can be soldered to shell where shielded cable is used. 1/4" dia.; 1 1/2" length. Fig. B. Shielded miniature chassis receptacles and plugs for use with shielded miniature connectors. Mount in 1/4" dia. hole on 1 1/2" centers.

MALE MINIATURE CONNECTORS (A)

Stock No.	Type No.	Cont.	Each
P13335	91-MPM-3L	3	.21
P13336	91-MPM-4L	4	.24
P13337	91-MPM-6L	6	.26

FEMALE MINIATURE CONNECTORS

P13337	91-MPF-3L	3	.21
P13339	91-MPF-4L	4	.24

FEMALE SHIELDED SOCKETS FIG. (B)

Stock No.	Type No.	Cont.	Each
P12704	78-PCG-3F	3	.21
P12705	78-PCG-4F	4	.21
P12707	78-PCG-6F	6	.24

MINIATURE PLUGS & SOCKETS

Interchangeable with miniature type connectors. Sockets have push-on mounting rings. Excellent for speaker connections.



Sockets	Type No.	Cont.	Each
P11599	78-53S	3	.10
P12701	78-54S	4	.09
P12700	78-55S	5	.12
P11542	78-56S	6	.12
P12703	78-7P	7	.12

Plugs	Type No.	Cont.	Each
P12708	71-3S	3	.09
P12709	71-4S	4	.09
P12710	71-5S	5	.12
P12711	71-6S	6	.12
P12713	71-7	7	.08

CABLE CONNECTORS

Shielded cap and rubber grommet-end opening. Consist of "S" type tube sockets and "CP" plugs.



Female No.	Type No.	Cont.	Each
P11475	78-PF-4	4	.18
P11476	78-PF-5	5	.18
P11477	78-PF-6	6	.18
P11478	78-PF-7S	7S	.18
P11491	78-PF-8	8	.21
P11501	78-PF-9	9	.23
P11509	78-PF-11	11	.28

Male No.	Type No.	Cont.	Each
P11471	86-PM-4	4	.18
P11472	86-PM-5	5	.18
P11473	86-PM-6	6	.18
P11474	86-PM-7S	7S	.18
P11490	86-PM-8	8	.21
P11506	86-PM-9	9	.23
P11507	86-PM-11	11	.28

Amphenol Type 79-CC4. Cable-clamp used with above connectors to relieve strain on soldered connections.

P12712

AMPHENOL CABLE CONNECTORS

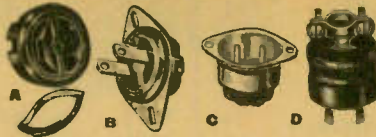


TYPE "83" CONNECTORS FOR COAXIAL CABLES

Coaxial type low-loss connectors and adapters for use with all RG type cables. For both small and large coaxial cables. Rugged construction. Die Cast zinc and machined brass shells are silver-plated. *Polyethylene insulation. †Low-loss mica-filled insert. ‡For twin coax RG-22/U and RG-22-A/U cable. A complete listing of Amphenol RG coaxial cables can be found on page 76.

Stock No.	Mfr's Type	Fig.	AM Type	Description	Net Each
P11550	118P	A	PL-259	Plug for RG-8U and 11/U	.59
P11551	11R	F	SO-239	Receptacle, chassis type	.65
P11552	*1AP	B	M-359	Angle plug adapter	1.18
P11553	*1T	C	M-358	"T" connector	1.59
P11554	*1J	D	PL-258	Junction	.88
P11555	*1F	E	PL-274	Feed thru connector	1.47
P11556	1H	E	UG-106/U	Hood for 8 to 12U, 22U, 63U	.24
P11559	765	E	UG-177/U	Hood for 58 and 59/U	.24
P11560	1AC		UG-177/U	Cap and chain	.56
P11557	168		UG-176/U	Adapter for RG-59/U	.15
P11558	185		UG-175/U	Adapter for RG-58/U	.15
P11561	122SP	A	UG-102/U	Straight Plug	.88
P11549	122R	F	UG-103/U	Chassis receptacle	.88

AMPHENOL RECEPTACLES & PLUGS



Molded black bakelite insulation. 2 pole receptacles with one hole elongated. May be used with either standard or polarized plugs. U/L approved. Ratings 15A-125 volts; 10A-250V. R- Receptacle; PP-Polarized Plug; SP-Standard Plug.

RETAINER RING TYPE (A)

Stock No.	Type No.	Pole	Type	Each
P11502	61-F	2	R	.18
P11503	61-M	2	SP	.18
P11624	61-MP	2	PP	.18
P11625	60-F	3	R	.25
P11626	60-M	3	PP	.25

WITH PLATE (B)

P11500	61-F1	2	R	.20
P11501	61-M1	2	SP	.20
P11627	61-MP1	2	PP	.20
P11640	60-F1	3	R	.27
P11641	60-M1	3	PP	.27

FLUSH TYPE (C)

P11504	61-F10	2	R	.28
P11505	61-M10	2	SP	.28
P11635	61-MP10	2	PP	.28

SHIELDED CABLE CONNECTORS (D)

P11546	61-F11	2	R	.32
P11545	61-M11	2	SP	.32
P11647	61-MP11	2	PP	.32
P11648	60-F11	3	R	.39
P11649	60-M11	3	PP	.39

JONES "2000" TERMINAL STRIPS



Compact and sturdy junction terminal strip Useful in assembling radio chassis, wiring tee-Terminals are .019 Brass, Tin Plated. Insulation: Bakelite. Cadmium plated steel brackets. Terminals spaced on 1/4" centers.

Jones No.	Term.	Mtg. Ctrs.	Each
2002	2	1 1/4"	.05
2003	3	1 1/4"	.05
2004	4	1 1/4"	.05
2005	5	1 1/4"	.06
2006	6	2 1/4"	.07
2008	8	2 1/4"	.07
2010	10	3 1/4"	.08
2012	12	4 1/4"	.09

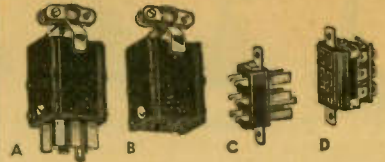
TERMINAL STRIPS



Superior quality bakelite terminal strips. Solder lugs mounted on 1/8" thick insulation. Available with 2, 3, 4 or 6 solder lugs and screw terminals. Mounting holes. For 6/32 screws.

Stock No.	Term	Each	10 for
P13145	2	.07	.63
P13123	3	.10	.90
P13112	4	.13	1.17
P13113	6	.18	1.62

JONES PLUGS & SOCKETS



Multiple contact "400" series heavy duty 25 ampere and "300" series standard duty 5 amp sizes. Cable type have clamps. Chassis type have brackets—heavy duty type at ends, standard type at sides.

PLUGS FIG. (A)

Standard Duty		Heavy Duty		
Cont	Jones No.	Ea.	Jones No.	Ea.
2	P-302-CCT	.34	P-402-CCT	.58
3	P-303-CCT	.34	P-403-CCT	.69
3	P-304-CCT	.40	P-404-CCT	.82
6	P-308-CCT	.44	P-408-CCT	.98
8	P-309-CCT	.49	P-409-CCT	1.06
10	P-310-CCT	.54	P-412-CCT	1.19
12	P-312-CCT	.60		

SOCKETS FIG. (B)

2	8-302-CCT	.34	8-402-CCT	.63
3	8-303-CCT	.37	8-403-CCT	.75
4	8-304-CCT	.40	8-404-CCT	.88
6	8-308-CCT	.46	8-408-CCT	.98
8	8-309-CCT	.54	8-409-CCT	1.11
10	8-310-CCT	.61	8-410-CCT	1.27
12	8-312-CCT	.69	8-412-CCT	1.43

CHASSIS TYPE PLUG (C)

2	P-302-AB	.15	P-402-AB	.37
3	P-303-AB	.18	P-403-AB	.45
4	P-304-AB	.21	P-404-AB	.54
6	P-308-AB	.25	P-408-AB	.62
8	P-309-AB	.33	P-410-AB	.70
10	P-310-AB	.37	P-412-AB	.77

CHASSIS SOCKET (D)

2	8-302-AB	.17	8-402-AB	.41
3	8-303-AB	.19	8-403-AB	.54
4	8-304-AB	.22	8-404-AB	.66
6	8-308-AB	.27	8-408-AB	.77
8	8-309-AB	.33	8-409-AB	.90
10	8-310-AB	.40	8-410-AB	1.02
12	8-312-AB	.46	8-412-AB	1.02

BAKELITE

MOUNTING STRIPS



Mounts parts on Chassis

Stock No.	Lugs	Each	10 for
P13124	1	.02	.14
P13133	2	.03	.25
P13134	3	.03	.25
P13135	4	.05	.45
P13138	5	.05	.45
P13137	6	.06	.54

SCREW COLLAR

TERMINALS

3/8" wide, 1/4" thick.



Stock No.	Terminals	Each	10 for
P13140	2	.13	1.17
P13141	3	.18	1.62
P13142	4	.23	2.07
P13143	5	.28	2.52
P13144	6	.34	3.06
P13230	7	.41	3.69
P13231	8	.46	4.14
P13232	9	.51	4.59
P13233	10	.56	5.13

JONES BARRIER STRIPS



Type 140: 3/8" wide, 1/4" high. Terminal sare mounted on 3/8" centers 1/4" metal to metal spacing over bakelite body. Type 141: 1/2" wide, 3/8" high. Terminals mounted on 1/2" centers with 1/4" metal to metal spacing over bakelite. Type 142: 1 1/4" high, 3/8" wide Terminals mounted on 1/4" centers, 1/4" metal to metal spacing over bakelite.

Term	Jones No.	Each	Jones No.	Each	Jones No.	Each
2	2-140	.14	2-141	.19	2-142	.22
3	3-140	.19	3-141	.24	3-142	.30
4	4-140	.24	4-141	.31	4-142	.38
5	5-140	.30	5-141	.38	5-142	.46
6	6-140	.34	6-141	.44	6-142	.54
7	7-140	.41	7-141	.52	7-142	.63
8	8-140	.45	8-141	.58	8-142	.71
9	9-140	.53	9-141	.65	9-142	.78
10	10-140	.56	10-141	.72	10-142	.85
11	11-140	.60	11-141	.78	11-142	.97
12	12-140	.66	12-141	.84	12-142	1.04

"W" SOLDER TERMINAL FOR BARRIER STRIPS

Jones No.	For use with Barrier Strip	Each	Per 100
W-140	No. 140	.03	2.52
W-141	No. 141	.04	3.34
W-142	No. 142	.05	4.18



ALL-PURPOSE TUBE SOCKETS

AMPHENOL "RS" SOCKETS



Removable steel adaptor plate with retainer ring allows replacement of most socket types. For mounting ctrs. from 1 1/4" to 1 1/2". Molded high dielectric bakelite. Mounts in 1 1/4" hole.

Stock No.	Type	Prongs	Each
P13057	78RS4	4	.08
P13058	78RS5	5	.08
P13059	78RS6	6	.08
P13060	78RS7S	7S	.08
P13061	78RS7L	7S	.08
P13066	78RS7C	7S	.10
P13060	78RS8	Octal	.10
P13040	78RS8L	Locktal	.13
P13041	78RS9	9	.12
P13042	78RS11	11	.17

AMPHENOL "S" SOCKETS

For new work. Single hole mounting, 1 1/4" dia. except 78S7L and 78S7C which require 1 21/64". Firmly held by retainer ring. 9 and 11 prong sockets for Amphenol connectors. 7S-7L fits small and large base tubes. Molded high dielectric bakelite.

Stock No.	Type	Prongs	Each
P13207	78S4	4	.08
P13208	78S5	5	.08
P13209	78S6	6	.08
P13210	78S7	7 Small	.08
P13211	78S7L	7 Large	.08
P13237	78S7C	7S-7L	.10
P13212	78S-8	Octal	.10
P13045	78S8L	Locktal	.13
P13213	78S9	9	.12
P13214	78S11	11	.17

ACS SOCKET SHELL

Type 23-1L. For 7L and 7C sockets of 8, RS, and RSS series.

P13111 **7¢**

Type 23-1S. For all other series 8, RS, and RSS sockets.

P13110 **7¢**

AMPHENOL "MIP" SOCKETS

Molded high dielectric bakelite, with molded-in plate for 1 1/4" mounting centers. Firmly held—won't rattle or work loose. 1 5/32" mtg. hole except 1 1/4" mtg. hole, 11 9/32" mtg. hole.

Stock No.	Type	Prongs	Each
P13164	77M1P4	4	.07
P13165	77M1P5	5	.07
P13166	77M1P6	6	.07
P13167	77M1P7S	7S	.07
P13168	77M1P7L	7L	.08
P13169	77M1P8	Octal	.08
P13225	88-8	Octal	.08
P13243	88-8X	Locktal	.12
P13223	77M1P9	9	.11
P13224	77M1P11	11	.14

AMPHENOL POLYSTYRENE SOCKET

Very low loss at ultra high frequencies. Molded polystyrene base requires 1 1/4" hole. Mounting centers 1 1/4". Sharp ribs on mounting plate for perfect ground.

P13170—Type 54-8. Octal. **28¢**
P13160—Type 54-8L. Locktal. **32¢**

AMPHENOL "49-RSS" STEATITE SOCKET

For high temperatures. Won't absorb moisture. Low loss. Silver-plated, phosphor-bronze, low-resistance contacts. Universal type with removable mtg. plate, slotted holes. Mtg. hole, 1 3/16"; 1 21/64".

Stock No.	Type	Prongs	Each
P13194	49RSS4	4	.28
P13195	49RSS5	5	.28
P13196	49RSS6	6	.28
P13197	49RSS7	7 Small	.28
P13198	49RSS7L	7 Large	.35
P13199	49RSS8	Octal	.28

AMPHENOL INDUSTRIAL SOCKETS

Octal type, 2000 W.V. Current rating for each contact, 8 amps. Inter-electrode capacitance 2.6 mmf. 8 screw-type wiring points. Insulating barriers. Mounting centers 1 11/16". 6 3/64x1 18/16x 2 3/4". For above or below chassis mtg.

P13119—Type 146-103. Less the inserts. **93¢**
As above, except bottom mounting.
P13181—Type 146-203. **93¢**
Complete socket with screw terminals and four molded-in threaded inserts. **1.27**
P13120—Type 146-104. **1.04**
Similar to above, but for miniature 7-pin tubes. Mounts above or below chassis.
P13182—Type 146-111. **1.47**

VECTOR SOCKET TURRETS



Mica filled bakelite. Socket is bonded to phenolic cylinder with lugs. Parts mount on bakelite form. Turret can be used to wind coils and iron cores inserted. Turret dia. 1/4". Octal units require 1" hole for mounting; miniature units 3/4" hole.

2 1/2" Turrets. For octal sockets. Have 9 terminals in two rings 1 1/4" apart.

No.	Type	Socket	Each
P11517	10-0-9T	Octal	.59

2" Turrets. For octal sockets, 9 terminals in 2-rings 1" apart; miniature, 1 1/4" apart.

P11518	8-0-9T	Octal	.56
P11519	8-M-9T	7-Pin miniature	.62
P11520	8-N-9T	9-Pin noval	.68

1 1/2" Turrets. 6 terminals in one ring only at far end of turret.

P11521	6-0-6T	Octal	.53
P11522	6-M-6T	7-Pin miniature	.69
P11523	6-N-6T	9-Pin noval	.65

SHIELD BASES

For miniature sockets above. Fasten on socket mtg. ctrs. above chassis. For use with standard bayonet type shield.

P11524—For 7-pin sockets. **9¢**
P11526—For 9-pin sockets. **9¢**

NEW PLUG-IN TURRETS



Consists of standard tube socket, tubular terminal post, octal plug and shield can. Tube shield base with bayonet lock included. Sizes: B10M, 1 1/4", 1 1/2", 1 3/4", 2", 2 1/4", 2 1/2", 2 3/4", 3", 3 1/2", 4", 4 1/2", 5", 5 1/2", 6", 6 1/2", 7", 7 1/2", 8", 8 1/2", 9", 9 1/2", 10", 10 1/2", 11", 11 1/2", 12", 12 1/2", 13", 13 1/2", 14", 14 1/2", 15", 15 1/2", 16", 16 1/2", 17", 17 1/2", 18", 18 1/2", 19", 19 1/2", 20". Average 8hpr. Wt. 5 oz.

Stock No.	Type	Description	Each
P11826	B10M	7-pin miniature	1.53
P11527	B10N	9-pin noval	1.56
P11528	C10N	9-pin noval	1.85

We carry a complete line of vector units and can supply any vector items not listed above.

CINCH SOCKETS FOR SUB-MINIATURE TUBES



For hearing aids, radio controlled model planes, etc. Molded form mica-filled, low-loss bakelite with silver plated beryllium copper contacts. 5-prong sockets fit 4-prong tubes.

Stock No.	Type	Contacts	Each
P13116	2H5	5	.24
P13117	2H6	6	.25
P13118	2H7	7	.24

AMPHENOL TV SOCKETS

Efficient, low-loss sockets for TV and cathode ray tubes. Magnal type CR socket has 11 silver-plated contacts; substantial barriers to reduce leakage losses, prevent voltage breakdowns. Duodecal, Diheptal sockets have individual contact wells.

Stock No.	Type	Size	Each
P13185	49-8811L	Magnal Type CR Duodecal—Dia. 1.083"	.71
P13190	59-402	Diheptal 2.05" Base	.92
P13191	59-415	Diheptal 2.25" Base	.98
P13192	59-417	Diheptal 2.25" Base	.98

FLOATING OCTAL SOCKETS



Amphenol 17-MIP-8FK. Live rubber grommets fit into mounting holes, cushion socket for vibration-free operation. Black bakelite dielectric. Mounts in 1 3/16" hole above or below chassis. Two 1/4" screw holes on 1 1/4" ctrs. Complete with 4 rubber grommets, 2 mtg. screws, nuts and washers. **71¢**

Kit for making floating connections using MIP sockets. Contains 4 grommets, 2 mounting screws, nuts and washers. **14¢**

MIDGET WAFER TUBE SOCKETS



Laminated bakelite. Heavily plated, self-aligning one-piece rugged, floating contacts. 1 1/4" mtg. ctrs.

Stock No.	Prongs	Stock No.	Prongs
P13114	4	P13125	7-large
P13115	5	P13127	8-octal
P13121	6	P13075	8-locktal
P13122	7-small		

10 for **81¢** Each. **9¢**
Miniature Wafer for compact glass tubes (3/4" diameter), 7-pin type. Mounting centers are 1/4" apart.
P13097—10 for **81¢** Each. **9¢**



MINIATURE 7 & 9 PIN SOCKETS

Amphenol sockets for TV, FM, auto radios, etc. 147 series mounts on 3/4" chassis hole with 3/4" mtg. ctrs., 1/4" screw holes. 50 series mounts in 1/4" hole with 1 1/4" mtg. ctrs., .095" rivet holes. *Steatite. †Black Bakelite. ‡Mica-filled bakelite.

Stock No.	Type	No. Contacts	Each
P12576	‡147-500	7	.14
P12503	‡147-501	7	.30
P12604	‡147-505	7	.15
P12577	‡50-400	9	.23
P12591	‡50-410	9	.24

TOP MOUNTING TYPE—FIG. A

Tube shield base accommodates tube shields listed below.

Stock No.	Type	No. Contacts	Each
P12570	‡147-905	7	.23
P12571	‡147-925	7	.37
P12578	‡147-913	7	.24
P12579	‡50-400	9	.34
P12573	‡50-406	9	.33

TUBE SHIELDS—FIG. C

Stock No.	Type	Height	Each
P12580	5-401	1 3/4"	.08
P12581	5-402	1 3/4"	.08

Stock No.	Type	Length	Each
P12582	5-405	1 1/2"	.12
P12583	5-408	1 15/16"	.14
P12584	5-409	2 3/4"	.14

SADDLE TYPE OCTAL



Amphenol 74-8. Mounting plate has sharp ribs which make solid contact with chassis for good ground. Long lugs; octal black bakelite base. Requires 1 1/4" chassis hole. Saddle requires 2 5/32" mtg. holes, 1 1/4" ctrs. **8¢**

MINIATURE SOCKETS AND SHIELDS



Fig. A. Johnson 120-267 steatite socket for use with all 7-pin miniature tubes. Phosphor-bronze contacts, heavily silver plated, self-aligning type. Unusual construction insures low losses with minimum capacitance and leakage between contacts. 3/4" mtg. hole. **29¢**
P13186 **29¢**

Fig. B. Johnson 120-277B. As above but shielded base. Includes metal ring which extends upward to form shield base. **44¢**
P13219 **44¢**
P13220—Type 133-277S. Shield base only. **9¢**
1 1/4" Shield 133-278A for types 120-227B, 133-277B above. **12¢**
P13221 **12¢**
P13222—As above but 1 1/4" high. **12¢**

MINIATURE 7 & 9 PIN SOCKETS

Molded of low-loss "Ethylon-A" insulating material with high "Q" factor. 7-pin sockets require 27/32" holes; 9-pin 15/16" holes. Mounting holes .136" dia. on 15/16" centers.

Stock No.	Mfr's. Type	No. of Pins	Each
P13244	59-367	7	.16
P13245	59-369	9	.36

Without Tube Shield Base

Stock No.	Type	No. of Pins	Each
P13241	59-357	7	.12
P13242	59-359	9	.30

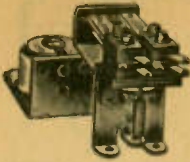
Amphenol Photo Tube Socket

For C7026A, 921, 922, etc. High resistance between clips. Angle bracket permits 10 different mtgs. **79¢**



RELAYS—CRYSTALS—PHOTOELECTRIC UNITS

GUARDIAN SERIES 200 (UNIVERSAL) RELAYS



Consists of relay frames with either SPDT or DPDT basic switch assembly, nine interchangeable actuating coils for AC or DC circuits, plus a contact parts assortment for making switching combinations up to 4PDT. Contact points are silver with maximum non-inductive load rating of 8 amps at 115 volts, 60 cycles AC. Detailed instruction sheet shows how to make various combinations. May be used for all blade switch applications.

- P14283—Type 200-1 Relay Frame SPDT Assembly 1.32
 P14284—Type 200-2 Relay Frame DPDT Assembly 1.77
 P14305—Type 200-3 Contact Parts Assortment 1.19

AC RELAY COILS		DC RELAY COILS	
P14285—6 volts	} 1.59	P14290—6 volts	} 1.59
P14286—12 volts		P14291—12 volts	
P14288—24 volts		P14298—32 volts	
P14289—115 volts	2.00	P14304—110 volts	2.00



AMPERITE THERMAL RELAY

SPST, normally open, closed by heater after delay (in seconds). In octal tube envelope. Heaters draw approximately 2 watts. Contacts rated at 115 volts, 3 amps AC or 440 volts, 2 amps AC. The breakdown voltage between contacts 1000 volts and between contacts and heater 1500 volts.

Any type, each 2.35

Delay	Type No.	6.3 V. Heater	Type No.	115 V. Heater
5	6N05	P14400	115N05	P14399
10	6N010	P14409	115N010	P14420
15	6N015	P14401	115N015	P14405
20	6N020	P14411	115N020	P14412
30	6N030	P14402	115N030	P14406
45	6N045	P14413	115N045	P14414
60	6N060	P14415	115N060	P14416
75	6N075	P14403	115N075	P14407
90	6N090	P14417	115N090	P14418
120	6N120	P14404	115N120	P14408

ADVANCE 300-OHM LINE RELAY



RF Efficient DPDT midjet type AC transmit-receive relay is well insulated for RF applications. Silicone glass material is used for insulation on armature and stationary contact assemblies. Line spacing maintained by solder lugs. 500-watt RF input. Overall 1 1/2" x 1 1/2" x 1 1/2". Up to 115 V. AC or 40 volts DC. Consumption 4 VA.

P14147—Advance K1504RF 3.20



BLILEY CRYSTALS

CF3. Single signal filter crystal for IF filter. Frequency 455 KC plus or minus 5 kilocycles. Free of spurious response plus or minus 7 KC.

P13855 5.00

SMC 100 dual frequency crystal provides either 100 KC or 1000 KC plus or minus .05 percent. 100 KC can be adjusted to zero beat. Useful for the alignment of receivers.

P13856 8.75



TYPE AX2 CRYSTALS FOR AMATEUR USE



One of the most popular types for amateur use. Plates are of acid-etched quartz, mounted in a phenolic case. The contact pins, electrodes and plates are of stainless steel. Half-inch pin spacing. Accurately calibrated to plus or minus .002 percent, with a drift of less than .0002% at 0 degrees Centigrade. Please specify frequency desired, when ordering.

- P13849—100 Meter plus or minus 1 KC of specified freq. 3.75
 P13851—80 Meter plus or minus 2 KC of specified frequency. 2.80
 P13850—40 Meter plus or minus 2 KC of specified frequency. 2.80
 P13866—8 MC to 8-222 MC ± 2 KC specified frequency. 2.80
 P13852—20 Meter plus or minus 30 KC of specified frequency. 3.95

CRYSTAL HOLDER ADAPTORS



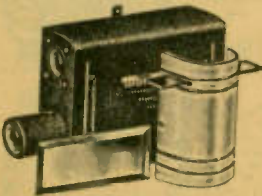
Mosley 5-75 adapts 1/2" spaced holder to 3/4" spacing.
 P8054 34¢
 Mosley 75-5 adapts 3/4" spaced holder to socket with 1/2" spacing or to octal socket.
 P8059 34¢

NATIONAL CRYSTAL SOCKETS



Crystal mounting sockets for all types of crystal holders. Steatite insulation. Single 4-38 or 4-40 screw mounting for SC-1 and SC-2; single 6-32 screw mounting for SC-3.

Stock No.	Type	Spacing	Pin Dia.	Each
14323	SC-1			} 37 1/2
14324	SC-2	.486"	1/8"	
14325	SC-3		1/8"	



WORNER PHOTOELECTRIC ANNOUNCER

Complete light source and sensitive photo cell unit in one compact metal case. Mirror supplied for reflecting light beam back into photo cell window when placed up to 10 ft. from unit. Equipped with optical system to arrest unwanted light. Breaking of light beam activates chime or other warning device announcing entrance of persons through doors, etc. Operates from 115-volt, 60-cycle AC source. Shpg. wt. 7 lbs.

P15654—Worner Model 61A 23.52

POTTER-BRUMFIELD RELAYS

TYPE "PR" HEAVY DUTY POWER RELAYS



Will start motors up to 1 HP high heater loads, etc. Continuous duty type—will not overload because the coils take only 2 watts on DC and 5 VA on AC. Larger copper shaded pole piece prevents AC chatter. Heavy contact pressure. Sturdy return spring and screw terminals. Metal parts heavily plated; coils impregnated with varnish. Contacts of double break types rated at 20 amps and single break types at 15 amps. 110 volts AC non-inductive load. All ratings are for continuous duty.

Number	Type	Contacts	Coil Volts	Each
P14254	PR3A	SPST-DB-NO*	6V/60 cy AC	3.60
P14255	PR3A	SPST-DB-NO*	110V/60 cy AC	3.60
P14100	PR3A	SPST-DB-NO*	220V/60 cy AC	4.25
P14256	PR4A	SPST-DB-NC*	6V/60 cy AC	3.63
P14257	PR4A	SPST-DB-NC*	110V/60 cy AC	3.65
P14258	PR5A	SPDT	6V/60 cy AC	3.80
P14262	PR5A	SPDT	110V/60 cy AC	3.80
P14101	PR5A	SPST	220V/60 cy AC	4.45
P14263	PR7A	DPST-NO	6V/60 cy AC	4.25
P14264	PR7A	DPST-NO	110V/60 cy AC	4.25
P14102	PR7A	DPST-NO*	220V/60 cy AC	4.90
P14244	PR11A	DPDT	6V/60 cy AC	5.70
P14245	PR11A	DPDT	110V/60 cy AC	5.70
P14103	PR11A	DPDT	220V/60 cy AC	6.35

*NO—normally open

*NC—normally closed

"MR" SERIES FOR LIGHTER LOADS

Double break contacts rated at 10 amps; Single break at 8 amps 110 V. AC 60 cycle non-inductive load. AC coils require approximately 2 watts; DC 1 1/2 watts. Size: 1 1/2" x 1 1/2" x 2 1/2".

Number	Type	Contacts	Coil Volts	Each
P14104	MR1A	SPST-NO	6V/60 cy AC	2.25
P14109	MR1A	SPST-NO	110V/60 cy AC	2.25
P14110	MR3A	SPST-DB-NO	6V/60 cy AC	2.90
P14111	MR3A	SPST-DB-NO	110V/60 cy AC	2.90
P14271	MR5A	SPDT	6V/60 cy AC	2.40
P14272	MR5A	SPDT	110V/60 cy AC	2.40
P14112	MR7A	DPST-NO	6V/60 cy AC	3.10
P14144	MR7A	DPST-NO	110V/60 cy AC	3.20
P14273	MR11A	DPDT	6V/60 cy AC	3.65
P14274	MR11A	DPDT	110V/60 cy AC	3.65

PLATE CIRCUIT RELAYS

Armature spring adjustable for applications requiring closing or opening on specified currents or voltages. Table below shows the standard factory adjustments for current to energize, also minimum after readjustment of spring. (A) LS Series. (B) LM Series.

Number	Type	Amps.	Coil Ohms	Min. Cur.	Std. Cur.	Each
P14279	LS5*	4	2,500	6.0	9.7	2.25
P14280	LS5*	4	5,000	4.3	6.3	2.35
P14208	LM5*	5	2,500	2.4	6.3	2.80
P14210	LM5*	5	5,000	1.7	4.5	2.95
P14211	LM5*	5	10,000	1.2	3.2	3.30
P14212	LM11†	5	2,500	5.3	9.0	4.20
P14213	LM11†	5	5,000	3.7	6.3	4.35
P14214	LM11†	5	10,000	2.7	4.5	4.70

*Denotes SPDT—†Denotes DPDT

AUTOMATIC LOCK RELAY ELECTRIC RELEASE

Use two coils—one to operate relay and another to release the lock. Includes 3/16" fine silver dome-shaped contacts rated conservatively from 4 to 20 amps. When circuit to operating coil is closed momentarily, the normally closed contacts open and the normally open ones close with the relay in this position even when the current is removed. To return positions to normal, current is applied to the "release" coil removing the automatic lock.

- P14142—EL11A—DPDT Contacts. 110 volt, 60 cycle coils. 4.75
 P14143—EL5A—SPDT Contacts. Shpg. wt. 2 lbs. 4.15

ADVANCE TIME DELAY RELAY

Type 304B. For preheating tube filaments and similar uses. Relay provides an adjustable delayed make (10-60 sec.) for the controlled circuit which remains closed until the initial circuit is broken. 3/4" pure silver contacts; 10 amps at 115 V. AC (non-inductive).

P14146—DPDT 6.65

PHOTO-FLASH RELAYS

New alloy contacts discharge capacitor through lamp, handle hundreds of amps during flash, 2500-volt insulation. Made of the finest materials available and specially designed for photo-flash application and similar uses. Available in the following voltage and contact specifications.

Stock No.	Mfg. No.	Coil	Contacts	Each
P14150	FR1A	6VAC	SPST, NO	3.30
P14151	FR5A	6VAC	SPDT	3.60
P14152	FR1A	6VAC	DPDT	4.70
P14153	FR1D	2VDC	SPST, NO	3.30
P14154	FR5D	2VDC	SPDT	3.60
P14155	FR11D	2VDC	DPDT	4.70

SELENIUM PHOTO CELL

Barrier layer, self-generating type light striking on cell generates current sufficient to operate relays directly without the use of auxiliary power. Life of cell is unlimited. 600 microamps output at 100 foot candles. Mounted in attractive plastic housing, 2" in diameter.

P10576—Shpg. wt. 8 oz. 11.03

HEADPHONES, KEYS AND ACCESSORIES



TRUTEST DX TYPE SINGLE & DOUBLE HEADPHONES

1. Powerful bi-polar magnets, featherweight shells, adjustable cloth covered headband.
 - P13892—2000-Ohm Headset, Each **1.57**
 - P13893—3000-Ohm Headset, Each 1.71
 2. Single Unit Headsets. With clock-steel band attached.
 - P13896—1000-Ohm single set. 4 1/2-foot cord **90¢**
 - P13897—1500-Ohm single set. 4 1/2-foot cord 98¢
- Caps and diaphragms fit all above phones.
- P13894—Cap **12¢**
 - P13895—Diaphragms, Each 6¢

ACME DELUXE LIGHTWEIGHT HEADPHONES

1. Chrome steel magnets. Extremely light—weighs only 6 ounces. Complete with two units, 4 1/2-foot cord, metal headband.
 - P13904—Double Headset, 2000-Ohms DC Resistance **1.99**
 - P13905—Single Headset, 1000-Ohms DC Resistance 1.17

BRANDES "ADMIRAL" HEADPHONES

1. Powerful magnets. With five-foot cord, adjustable clips.
 - P13928—2000-Ohms **2.15**
 - P13929—3000-Ohms 2.30
 - P13930v—5000-Ohms 2.75

BRANDES "SUPERIOR" HEADPHONES

- Similar to above but with exposed screw terminals.
- P13926—2000-Ohm Headset **1.99**
 - P13935—Bakelite cap, fits all models. Each 18¢
 - P13936—Aluminum cap, fits all models. Each 18¢
 - P13937—Diaphragm only, fits all models. Each 6¢

HEARING AID FOR RADIO

- New headphone type hearing device increases radio enjoyment for persons who find it difficult to hear radio programs properly. Also for private listening without disturbing others. Quickly and easily attaches to any radio in a matter of minutes. Supplied with switch permitting speaker only; phones only or both. Low-resistance phones match loudspeaker coil.
- P13865 **4.12**
 - P13866—Same but with single phone 3.37
 - P13867—3-way switch adapter only 1.85

EXTENSION CORD CONNECTOR

- Sturdy molded body with two openings, one at each end, designed for the insertion of two pin tips.
- P13061 **10¢**

HEADPHONE CUSHIONS FOR ALL PHONES

- These headphone cushions fit all types of headphones. They are made of soft rubber and supply the utmost in comfort for the listener. They are especially important for listening for long periods of time. In addition, they perform the function of acting as a shock absorber in case of accidental banging or dropping.
- P13943—Pair **82¢** 10 Pairs for **7.38**

PHONE AND SPEAKER CORDS

- Sturdily made, with cotton braid insulation. 4 1/2 feet long.
- P13956—Double type. 1 end spade tip, other straight **34¢**
 - P13956—Double type. Pin tips both ends 33¢
 - P13957—Single type. Pin tips both ends 23¢

JOHNSON SPEED-X KEYS AND CODE SETS CODE PRACTICE SET MODEL 114-450

- Constant frequency adjustable buzzer and a standard hand key with one-eighth inch silver contacts. Mounted on a brown bakelite base 6 inches by 4 inches. Uses 2—1 1/2 volt cells (not included). Metal parts plated. Code card included.
- P14027—Johnson Type 114-450. Shpg. Wt. 2 lbs. **2.65**
 - P20622—1 1/2 volt cell for above 8¢

BUZZER WITH BAKELITE BASE AND CAP

- Johnson Speed-X Model 114-400. Operates on 2-1 1/2 volt cells or "C" Battery. Has a tone frequency adjustment on the vibrator. Resistance 2 ohms.
- P14021 **1.18**
 - P20622—1 1/2 volt cell 8¢

JOHNSON SPEED-X CODE PRACTICE KEYS

- Johnson Speed-X Model 114-300. Provided two adjustments. Equipped with a bakelite base, silver contacts, and with machined parts.
- P14041—Shpg. Wt. 1 lb. **1.03**
 - Johnson Speed-X Model 114-305. Same as above, but with a metal base. P14053 1.12

TELEX TWINSET

- Model 3725. An entirely new way to hear with a headset. Never before such comfort, lightness, all-day-long ease of use. Actual sound is piped directly into ear through a slender tubular sound arm mounted on a locking ball-and-socket joint. Fully adjustable to fit any head size or shape. Plastic ear tips. 1000 ohms impedance. Low resistance phones match speaker coil.
- P13868 **10.00**
- Model 3735. Same but 64-ohm impedance.
- P13869 10.00



TELEX MONOSET WITH TENITE TUBES

6. Stethoscope type with replaceable earpieces to hang above earlobes, instead of being inserted into ears. Light weight, comfortable, gives excellent fidelity. Impedance 2000 ohms. Cord has built-in volume control which clips to lapel. Easy to handle.
- P13890—Telex Monoset less volume control **8.23**
 - P13891—Telex Monoset with volume control 10.76

TELEX MINIATURE RADIO PILLOW SPEAKERS

- New improved one-piece speaker designed for comfortable radio listening through a pillow, either in bed or in a chair. Small and compact, may be held comfortably in the palm of the hand. Coil assembly of molded polystyrene bobbin wound with heavy insulated wire. Fully insulated detachable single jacket cord—5 foot length. Speaker diameter 2 1/4".
- P13874—Pillow speaker 6 ohms **7.03**
 - P13875—Pillow speaker 2000 ohms 7.03



BRUSH CRYSTAL PHONES

3. Range 100 to 10,000 cps. High impedance. Light and comfortable. Padded adjustable headband. With 5 ft. cord.
 - P13924—Crystal Phones **7.06**

BRUSH CRYSTAL SINGLE UNIT HEADSET

2. Metallic headband, rubber and cushion. 5-foot cord.
 - P13922—Crystal single headset **3.79**

BRUSH CRYSTAL LORNETTE PHONE SET

5. Single phone—extends 12" to 17". 5-foot cord.
 - P13923—With chrome, black enamel handle **5.73**

TRIMM HEADSETS

4. Dependable Model: Economy bakelite set. Chrome steel magnets.
 - P13914—2000 ohms **2.82**
 - Professional Model: As above but 4000 ohms. P13915 3.40
- Featherweight Model: Lightweight. Only 4 oz. Bakelite shell and cap. Forged cobalt steel magnets. One of the lightest headphone sets ever made for commercial use. Adjustable steel headband.
 - P13919—24,000 ohms impedance **6.46**
 - P13918—4,000 ohms impedance 6.46

CANNON BALL "CHIEF" ALL BAKELITE PHONES

1. High grade, sensitive phones in molded bakelite housings; leather covered adjustable band; 5-foot cord.
 - P13948—2000 ohms impedance. Shpg. Wt. 2 lbs. Per set **2.50**
 - P13949—3000 ohms impedance. Shpg. Wt. 2 lbs. Per set 2.82

LINGUAPHONE CODE LESSON RECORDS

- Learn code this easy way at your own convenience. Speed progresses from 2 to 15 words per minute. Operates on any 78 RPM phonograph or record player. Includes textbook and 5 double-faced 10" discs in album.
- P21895—Shpg. Wt. 6 lbs. **10.73**



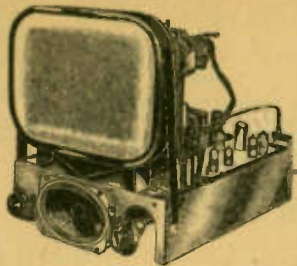
ICA DELUXE SIGNA-TONE

- The ICA DeLuxe Signa-Tone is an audio oscillator with three output frequencies and a continuously variable volume control. A number of phones and keys may be connected for classroom or radio club instruction. Will follow "bug" at all speeds. Comes complete with tube and self-contained speaker. For 110-volts AC-DC operation. Size 7 1/2" x 4 1/2" x 4". Shpg. Wt. 4 lbs.
- P14086 **15.43**



KITS AND SPECIALTIES

TECH-MASTER TELEVISION KITS

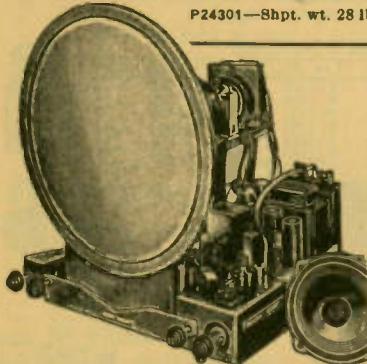


MODEL 5116 AC-DC "UNIVERSAL" KIT

Here is a really well designed 16 tube kit that is easy to build—no special tools required. Gives performance equal to more expensive commercial sets. Complete step-by-step wiring and pictorial diagrams guide every step of the way. Accommodates up to a 17" rectangular picture tube. IF Synchro-strip completely prewired, factory aligned and tested—eliminates any further video or sound IF alignment.

Two knob, front panel control provides automatic synchronization and sound; 12-channel tuner. Video sensitivity, 20 microvolts, with 20 volts peak-to-peak at kinescope grid. Latest type hi-gain stagger-tuned IF system incorporates bi-filar coils; high efficiency ceramic core horizontal output and high voltage transformers obtain full deflection and high voltage. New AGC system utilizes special delay network. Separate IF Synchro-Strip with test points located at top of chassis. Light weight, shock-proof chassis 17x14x4". Supplied with 16 tubes. Plus Selenium Rect. tuner, hardware and picture tube brackets. Less picture tube. See pg. 35 for Picture Tubes.

P24301—Shpt. wt. 28 lbs. **105.75**



MODEL 630D19 AND 630S19 KITS

For 17" to 24" Tubes

Precision engineered to produce the finest TV reception. Improved 630 RCA type circuit. Uses only top quality, set tested components. Step-by-step wiring instructions and pictorial diagrams simplify building procedure. Has AFC horizontal hold using sync discriminator transformer; stabilized vertical hold; excellent interlace characteristics, 3 stage sync amplifier, separator and clipper circuit; FM sound system employing discriminator type audio detector; noise saturation circuits; 3-stage audio IF system; 4-stage stagger tuned video IF system; full 4 Mc band width; adjacent channel trap; direct coupling used for keyed AGC circuit assures stable contrast level regardless of varying transmission conditions. 12-channel turret type tuner together with 4 stage video IF system produce a sensitivity of 20 microvolts for 1 volt DC at the detector load when operating on normal AGC bias. 70° deflection yoke for all 17" to 24" and 18" rectangular picture tubes. Adjustable slugs for oscillator coil are provided for each channel. This new system will produce from 12 to 14 KV with excellent voltage regulation and horizontal linearity. Supplied with all components, tubes, speaker, and picture tube mounting brackets. Less kinescope tube, wire and solder. Chassis dimensions: 21 1/2" wide x 15 1/2" deep. Shpg. wt. 65 lbs.

P24292—Model 630D19. All principal components mounted. **159.50**
P24293—Model 630S19. Same as above but unassembled. **164.50**

NEW TECH-MASTER 16" & 19" CONVERSION KITS

Especially designed for converting any 630-type chassis using 10" to 14" tube to all new 16" to 20" tubes, round or rectangular. Complete with simple instructions for conversion and all necessary components. May easily be adapted for use with many other chassis. Voltage multiplier circuit supplies up to 14 KV using one 1B3GT. Includes GE-type flyback, width coil, 500 mmf 20 KV condenser as well as all other condensers, resistors, hardware, etc. Shpg. wt. 3 lbs.

De-Luxe "B" Kit—for 19AP4, 16RP4, 16QP4 kinescopes and others having deflection angle up to 70°.

P24303—De-Luxe "B" Kit. **9.45**

Standard Kit—for ALL kinescopes having up to 70° deflection angle. Includes only flyback, mounting bracket, width coil.

P24369—Standard Kit. **5.95**

TECH-MASTER KEYED AGC KIT



Add keyed automatic gain control to your 630-type television chassis and enjoy all the advantages of this great engineering improvement to tele-viewing. Operates directly from the sync pulse; works instantly to eliminate annoying airplane "flutter" and "breathing" completely. Also provides exceptional noise immunity with minimum signal input. Easy to install—clearly detailed instruction sheet supplied. No holes to drill. Kit includes a 6AU6 tube, mounting bracket with socket, special AGC coil, all resistors and condenser. Shpg. wt. 1 lb.

P24368—Kit AG-1. **4.45**

AGC Kit for Use with "Hi-Sweep" Voltage Multiplier Kits—AGC kit above but with special circuit and components for use with Voltage Multiplier Transformer Kit (at top).

P24291—Kit AG-2. **6.00**

MEISSNER KITS

FM TUNER KIT

Model 8 CK. Covers entire FM band. For use with any amplifier having an input of 100,000 ohms or greater and producing full output with 3V, R.M.S. audio input. Flat response within ±2 db from 50 to 15,000 cps. 300-ohm antenna input. Slide rule dial, 5 1/4 x 1 1/4" calibrated in MC and channel numbers. Uses (2) 6AU6, (2) 6BA6, (2) 6C4, 6AL5 and 6X5GT/G. Front end and IF coils factory assembled and aligned. Complete with pictorial diagram and schematic, tubes, wire, hardware and solder. For 105-125V. AC operation. Shpg. wt. 6 lbs.

P24355. **41.89**

MODEL 3BK AND 2BK KITS

Model 3BK. Regenerative grid leak detector with resistance coupled pentode audio stage. 3 tubes—6B16 and (2) 50B5. Uses any magnetic phones with impedance of 2,000 ohms or more. With coil covering broadcast band, 520-1530 KC. tubes, hardware and solder. Additional coils for other bands listed below. For 105-125 V. AC-DC. 7 1/2" W x 4 1/4" H x 4 1/4" D. Less headphones. Easily assembled from pictorial diagram and schematic.

P24358—Shpg. wt. 2 1/2 lbs. **12.00**

Model 2BK. Battery trainer kit. Same as above but battery operated; uses only two tubes, 1T4 and 3V4. Batteries required: 4 1/2 V. "A" battery and 90V. "B" battery. Complete with coil covering broadcast band, tubes, hardware and solder. Other coils to cover additional bands listed below. Less phones and batteries. Shpg. wt. 2 lbs.

P24357. **10.44**

PLUG-IN COILS FOR ABOVE

P24359—Type 18-3500—175 to 540 KC. **1.49**
P24360—Type 18-3502—1.35 to 4.5 MC. **61¢**
P24361—Type 18-3503—3.2 to 8.2 MC. **61¢**
P24362—Type 18-3504—7.9 to 18 MC. **61¢**
P24363—Type 18-3505—15 to 84 MC. **61¢**

MEISSNER "HOW TO BUILD" MANUAL

Contains a wealth of information on basic theory, design and construction of AM, FM and TV circuits, phono pickups, audio amplifiers, speakers, disc recorders, etc. Fully illustrated with charts, radio formulae, schematic and pictorial wiring diagrams.

P19679. **98¢**

PERCO FM BASIC TUNER KIT

Utilizes new FM circuit that does away with limiters, discriminators, ratio detectors and the difficulty of peaking and tracking such circuits. Uses 14F8 and 35W4 tubes for earphone volume—or connects to amplifier or audio circuit of radio. 15MVF tuning condenser; IF assembly; mounting hardware and tie lugs; full instructions.

P24475—Shpg. wt. 3 lbs. **5.50**

P24476—4" Perco Dial Plate for above—Shpg. wt. 1 lb. **47¢**

AC-DC RECEIVER KIT

Easy-to-build. Compares favorably with much higher priced commercial sets. Modern brown plastic cabinet. Superhet circuit—uses 12BA7, 12SK7, 12SQ7, 50L6 and 35Z5 rect. Automatic volume control. Streamlined airplane dial covers 550 to 1600 KC. Built-in loop antenna and Aldico V speaker. Complete with cabinet and tubes and instructions.

P24548—Shpg. wt. 9 lbs. **16.50**

EAGLE CRYSTAL KIT

Excellent for beginners. Provides basic radio theory. Not a toy. Kit includes a fully wound easy-to-use slide-coil, crystal detector, and cats whiskers. No soldering necessary—the only tool needed is a screwdriver. Shpg. wt. 1 lb.

P24465. **1.05**

P13896—Single headphone for above. **90¢**

MICROVOX MICROPHONE

No wires necessary. Talk through your radio speaker with this battery powered mike, up to 75 ft. from set. Broadcasts from 1000-1700 kc. Merely tune radio to a non-interfering point on the dial within this range. Lightweight, plastic unit includes 1 flashlight cell, "B" battery and tube. 6 1/2" H. 5 1/4" D., 5" base.

P22620—Shpg. wt. 3 lbs. **5.97**

Mike with sound effects kit listed below.

P22621. **7.97**

Add a professional touch to your next party with a prepared radio program including script and sound effects. Designed for use with above mike. Includes 15 items for producing various sound effects and three scripts keyed to sound effects.

P22622. **2.63**

FUSES - RADIO CHEMICALS

LITTELFUSE FUSES AND HOLDERS 8A INSTRUMENT FUSES

Protects delicate instruments. Breaks circuit immediately on reaching blow point. High speed action. 250 V. AC or DC. 1" x 1/4" Dia.

Stock No.	Max. Amps.	Ohms/5 Ma. Load	For Voltmeter Ohms/Volt	Protects Milliammeters	Cost Each	Per 100
P12339	1/200	480	over 1000	Galv.	.18	14.70
P12385	1/100	160	1000	0-1	.12	9.80
P12386	1/32	40	500-1000	1-10	.12	9.80
P12387	1/16	5	100-150	10-25	.09	7.35
P12388	1/8	2	20-100	25-75	.09	7.35
P12390	1/4	3.5	10-20	75-150	.09	7.35
P12391	3/8	3	5-10	150-250	.09	7.35
P12392	1/2	2	3-5	250-350	.09	7.35
P12393	3/4	2		350-500	.09	7.35
P12394	1	.24		500-750	.06	4.90
P12395	2	.10		1000-1500	.06	4.90

3AG 250 VOLT FUSES

No.	Amp.	Each	100	No.	Amp.	Each	100
P12396	1/4	.09	7.35	P12380	2	.04	3.43
P12397	1/4	.09	7.35	P12381	3	.04	3.43
P12398	1/4	.09	7.35	P12384	4	.06	4.90
P12399	1/4	.09	7.35	P12377	5	.06	4.90
P12378	1	.04	3.43	P12364	6	.06	4.90
P12379	1 1/4	.04	3.43	3AG Size: 1 1/4" x 1/4" Dia.			

3AG 32 VOLT FUSES

No.	Amp.	Each	100	No.	Amp.	Each	100
P12362	5	.03	2.45	P12363	20	.02	1.96
P12321	10	.025	1.96	P12366	30	.03	2.45
P12322	15	.025	1.96	3AG Size: 1 1/4" x 1/4" Dia.			

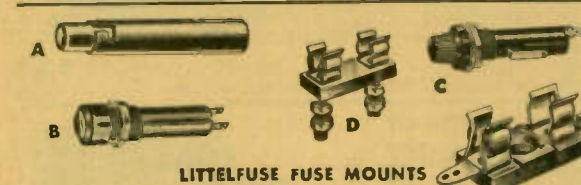
SFE 32 VOLT FUSES

No.	Amp.	Size	Each	Per 100
P12388	4	3/8 x 1/4"	.03	2.45
P12367	6	3/8 x 1/4"	.03	2.45
P12369	9	3/8 x 1/4"	.02 1/2	1.96
P12370	14	1 1/2 x 3/4"	.02 1/2	1.96
P12371	20	1 1/2 x 3/4"	.02	1.71
P12365	30	1 1/2 x 3/4"	.03 1/2	2.94

3AG PIGTAIL FUSES

For exact replacement in TV receivers, including Admiral, RCA, Zenith, Philco, etc. 1 1/4" thinned pigtail leads. U.L. Approved. 1 1/4" x 1/4" dia. Shpg. wt. per package of 100, 1 lb.

No.	Littelfuse	Amp.	Volts	Action	5 for	100 for
P12188	315.150	15/100	125	Slo-Blo	.88	14.70
P12189	315.200	2/10	125	Slo-Blo	.88	14.70
P12190	315.250	1/4	125	Slo-Blo	.88	14.70
P12191	315.500	1/2	125	Slo-Blo	.88	14.70
P12192	315.002	2	125	Slo-Blo	.75	12.25
P12193	315.003	3	125	Slo-Blo	.75	12.25
P12194	315.004	4	125	Slo-Blo	.75	12.25
P12195	315.005	5	125	Slo-Blo	.75	12.25
P12196	318.125	1/2	250	Fast	.60	9.80
P12197	318.250	3/4	250	Fast	.60	9.80
P12198	318.375	1	250	Fast	.60	9.80
P12199	318.500	1 1/4	250	Fast	.60	9.80



LITTELFUSE FUSE MOUNTS
 A. 3AG Fuse Retainer—Two piece metal. 2 1/4" long. Each 11¢
 P12372—10 for 99¢
 A. For Philco, Motorola—Two piece. 2 1/2" x 1/4" diam. Each 18¢
 P8349—12 for 1.95.

Extractor Fuse Posts

No.	Fig.	For Type	Fuse Length	Type	Each
P12328	B	8AG	1"	Screw driver slot	.26
P12329	C	8AG	1"	Finger operated	.26
P12326	B	3AG	1 1/4"	Screw driver slot	.26
P12331	C	3AG	1 1/4"	Finger operated	.26

"Clip-On" Fuse Mounts

No.	Fig.	For Type	Fuse Length	Mounting	Each
P12382	D	8AG	1"	Sub-panel	.12
P12327	D	3AG	1 1/4"	Sub-panel	.15
P12383	E	8AG	1"	Panel	.09
P12324	E	3AG	1 1/4"	Panel	.15

PLUG FUSES

U/L approved. 5 per box.
 P13201—10 ampere rating
 P13202—15 ampere rating
 P13203—20 ampere rating
 P13204—30 ampere rating
 Box of 5, either of the above. 30¢

FLOCK SPRAY OUTFIT

Easy to operate. Beginners can turn out professional velvet-like flock jobs. Contains spray gun, Ivory and brown felt flock, undercoats to match, thinner, and brush.
 P15489—Outfit. Wt. 3 lbs. 7.45
 P15490—Spray gun only. 2.82
 Felt Flocking: 1 1/2 ounce cans.
 P15478—Brown P15481—Ivory
 Either of above. 71¢
 Each. 4¢

EXTRA UNDERCOAT—1/2 Pt. Can. P15495—Brown P15496—Ivory
 Either of Above, Each. 1.07
 EXTRA THINNER—1/2 Pt. Can. P15499. 38¢



RADIO & TV REPAIR CHEMICALS

No.	Description	Bottle Size	Each
P15821	Cement Solvent and Thinner for all cements (except bakelite and rubber cement)	4 oz.	.56
P15822	Scratch Remover Polish, dark shade	8 oz.	.74
P15823	Scratch Remover Polish, dark shade	2 oz.	.29
P15824	Scratch Remover Polish, dark shade	8 oz.	.28
P15825	Scratch Remover Polish, light shade	2 oz.	.29
P15826	Scratch Remover Polish, light shade	8 oz.	.28
P15831	Carbon Tetrachloride	8 oz.	.51
P15832	Carbon Tetrachloride	32 oz.	1.11
P15833	Bakelite Cement	2 oz.	.41
P15834	Bakelite Cement	8 oz.	1.39
P15835	Plastic Cement	2 oz.	.41
P15836	Contact Cleaning Fluid	2 oz.	.42
P15837	Contact Cleaning Fluid	4 oz.	.66
P15838	Contact Cleaning Fluid	8 oz.	.65
P15839	Walsolub B Cleaner-Lubricant	Tube	.38
P15840	Duco Cement	Tube	.21
P15841	Thinner for Bakelite and Rubber Cement	2 oz.	.31
P15842	Rubber Cement	4 oz.	.65

AIR DRYING FINISHES

For professional looking finishes on metal or wood. In crystal, wrinkle or smooth finish. Durable and lasting.

Finish	Color	2 oz. No.	Each	8 oz. No.	Each
Crystal, lacquer	Black	P15259	.38	P15309	1.26
Crystal, lacquer	Grey	P15319	.38	P15307	1.26
Wrinkle, varnish	Black	P15381	.38	P15390	1.12
Wrinkle, varnish	Grey	P15383	.38	P15392	1.12
Telephone, smooth	Black	P15384	.38	P15393	1.12
Telephone, smooth	Grey	P15385	.38	P15394	1.12

LUMINOUS LITE-KOAT KIT

Glow in dark. Ideal on dials, knobs, switch plates, hallways, etc. Generous supply of Powder, Top-Koat Finish Protector and Thinner. With brushes and instructions.
 P15834—Lite-Koat Kit. 1.79

COIL DOPE KIT

Polystyrene base; negligible power factor loss even at high frequencies. Renders articles moisture proof, prevents polystyrene parts. Kit contains 2 oz. bottle coil dope, 2 oz. bottle thinner and 2 brushes. P15313. 65¢

CABINET REPAIR KIT

A complete, handy repair kit for radio shops, stores, trucks, etc. Contains radio chemicals and material for repairing damaged cabinets. Ivory spirit enamel, light and dark; dark brown lacquer enamel; walnut spirit stain; polish renewer; French varnish; 3 sheets garnet finishing paper; steel wool and cloth. All applicators in individual bottles.
 P15527—Shpg. wt. 3 lbs. 2.12

CABINET TOUCH-UP KIT

For use on plastic, bakelite or wood cabinets. 9 shades of shellac sticks, bottles of light and dark oil stain, bottle of metal shading lacquer, Magic Scratch Remover, alcohol lamp, spatulas, brushes, steel wool.
 P15521—Shpg. wt. 3 lbs. 3.53

SCRATCH STICK

Handy pocket stick for servicemen, removes scratches from radio cabinets in a jiffy. Contains filler and scratch polish. P15520. 26¢

SCRATCH REMOVER KIT

Combination kit of 6 colors, popular shade of wood Scratch-Stik fillers and 2 bottles scratch remover fluid—Walnut and Clear. Works on all light and dark wood. P15530. 91¢

SCOTCH TAPE DISPENSER

Useful plastic hand dispenser for standard 1/2 inch width size rolls of scotch tape. Thousands of uses for home, office, shop. P15033. 29¢
 Transparent Scotch Tape 1/2" size, 792" long. P15046. 59¢

KRYLON PLASTIC SPRAY

Just press the button on the can and it "wraps" in durable clear plastic. Seals and protects against water, corrosion and chemicals. Dries in minutes. P15303—Shpg. Wt. 1 1/2 lbs. 1.43
 In lots of 12. 1.27
 P15304—Aluminum Colored Krylon. 1.66
 In lots of 12. 1.47

SMALL HARDWARE

DELUXE HARDWARE ASSORTMENT



Conveniently boxed. Contains over 1000 pieces of most frequently used hardware; assorted machine screws, nuts, bolts, rivets, etc.
P14831—Shpg. wt. 4 lbs **1.07**

PICKUP-CARTRIDGE MTG. SCREWS



Small machine and self-taping screws of various lengths, sizes, styles for fastening cartridge to pickup arm. Package contains approximately 30 screws and spacers.
P15483—Per Pkg. **26¢**

RADIO HARDWARE IN JARS



Most convenient way to keep small hardware—glass jars with screw-on caps.
Any jar below **44¢**
P14676—Jar only **.6¢**

Round Head Machine Screws (A)

No.	Quantity	Size
P14650	100	4-36x $\frac{1}{4}$ " long
P14651	100	4-36x $\frac{1}{2}$ " long
P14652	75	4-36x $\frac{3}{4}$ " long
P14653	90	6-32x $\frac{1}{4}$ " long
P14654	80	6-32x $\frac{1}{2}$ " long
P14655	75	6-32x $\frac{3}{4}$ " long
P14656	75	8-32x $\frac{1}{4}$ " long
P14657	70	8-32x $\frac{1}{2}$ " long
P14658	65	8-32x $\frac{3}{4}$ " long
P14659	60	10-32x $\frac{1}{4}$ " long
P14660	50	10-32x $\frac{1}{2}$ " long

P-K Tap Screws (C)

No.	Quantity	Size
P14666	50	No. 4x $\frac{1}{4}$ "
P14666	50	No. 6x $\frac{1}{4}$ "
P14667	45	No. 6x $\frac{3}{4}$ "
P14668	40	No. 7x $\frac{1}{4}$ "
P14669	35	No. 10x $\frac{1}{4}$ "
P14670	45	No. 10x $\frac{3}{4}$ "

Hexagon Nuts (B)

No.	Quantity	Size
P14661	110	4-36x $\frac{1}{4}$ "
P14662	110	6-32x $\frac{1}{4}$ "
P14663	90	6-32x $\frac{5}{16}$ "
P14664	90	8-32x $\frac{5}{16}$ "

Washers (D)

P14671	150	No. 6 Plain
P14672	150	No. 8 Plain
P14673	100	No. 6 Lockwasher
P14674	100	No. 8 Lockwasher

ESCUTCHEON PINS

Fastens any type of escutcheon or name-plate. 5/16" long.
P14811—Per 100 **27¢**

RIVET AND EYELET ASSORTMENT



Special assortment of 55 popular size rivets and eyelets to fasten sockets, etc.
P14840 **26¢**

BUMPER FEET



Felt, with No. 6 P-K screw for mounting. Felt is permanently clamped into place by metal ring $\frac{3}{8}$ " in diameter.
P14767 10 for **4¢**
100 for **2.70**

CABLE CLAMPS



Heavy gauge steel. No. 6 mounting hole, plated.
P14961— $\frac{1}{4}$ " .4 for 5¢ Gross for 1.45
P14962— $\frac{1}{2}$ " .3 for 5¢ Gross for 1.96

EXPANSION SPRINGS



Handy for radio, electrical shops, laboratories. Assortments contain various sizes for record changers and dial drives.
P15434—10 Asst. large springs **26¢**
P15436—10 Asst. small springs **26¢**

FRICITION TAPE $\frac{1}{4}$ " WIDTH



High quality friction tape in rolls.
P14829—2 Oz. each **14¢**
P14842—4 Oz. each **26¢**
P14843—8 Oz. each **47¢**

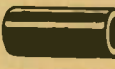
DUTCH BRAND PLASTIX TAPE

$\frac{3}{4}$ " black vinyl plastic electrical tape. .007" thick; resists 8000 volts. Tensile strength 20 lbs. inch width.
P14844—Per Roll **1.05**
In Lots of 5 Rolls, Each **98¢**



ASSORTED BRACKETS

Package of 28 most used angles and brackets.
P14838 **54¢**



$\frac{1}{4}$ " METAL SPACERS

Raise components above chassis, etc. Passes Nos. 4, 6, 8 screws.

Stock No.	Height	10 For	Lots of 100
P9868	$\frac{1}{4}$ "	.39	3.60
P9869	$\frac{1}{2}$ "	.58	6.10
P9870	$\frac{3}{4}$ "	.63	5.70
P9871	1"	.82	7.60



ASST. FIBRE WASHERS

100 plain and shoulder type to fit Nos. 6, 8, 10 screws and $\frac{1}{4}$ ", $\frac{3}{8}$ " and $\frac{1}{2}$ " holes.
P14832 **59¢**



ASSORTED SELF-TAPPING SCREWS

40 most often used sizes. No nuts needed—start hole drive through.
P14687 **53¢**



RUBBER GROMMET KITS

Kit "A" contains 12 asst. grommets in 4 sizes: 3/16", $\frac{1}{4}$ ", $\frac{3}{8}$ " and $\frac{1}{2}$ ". "B" has 30 in same sizes.
P14794—Assortment "A" **29¢**
P14795—Assortment "B" **69¢**



RUBBER GROMMETS

Insulate holes in 1/16" metal panels, chassis, electrical appliances, etc.

Stock No.	Fits Hole	Inside Dia.	Per 10	Per 100
P14765	$\frac{1}{4}$ "	$\frac{3}{16}$ "	.12	.65
P14766	$\frac{5}{16}$ "	$\frac{3}{8}$ "	.20	1.08
P14768	$\frac{7}{16}$ "	$\frac{5}{8}$ "	.18	1.06
P14769	$\frac{1}{2}$ "	$\frac{5}{8}$ "	.16	1.00



RIGHT ANGLE BRACKETS

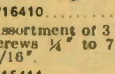
Sturdily constructed of heavy metal. Width $\frac{3}{8}$ ".

Stock No.	Size	2 For	10 For
P14895	$\frac{1}{4}$ "x $\frac{1}{4}$ "	.03	.10
P14896	$\frac{1}{2}$ "x $\frac{1}{4}$ "	.06	.27
P14897	1"x $\frac{1}{4}$ "	.07	.30
P14898	1 $\frac{1}{2}$ "x $\frac{1}{4}$ "	.08	.36
P14899	1 $\frac{1}{2}$ "x $\frac{1}{2}$ "	.12	.50

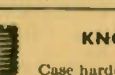


HERMAN SMITH KEY WRENCHES

Three assortments of key wrenches to fit all standard Hex and spline socket screws used in radio and electronic equipment. Asst. of 4 small Hex wrenches to fit set screws No. 4 to $\frac{1}{4}$ ", cap screws No. 2 to 8.
P15410 **26¢**



Assortment of 3 medium Hex wrenches to fit set screws $\frac{1}{4}$ " to $\frac{7}{16}$ " and cap screws No. 8 to 5/16".
P15411 **26¢**



Asst. of 4 small spline wrenches to fit set screws to $\frac{1}{4}$ " cap screws to No. 8.
P15412 **26¢**

KNOB SET SCREWS



Case hardened headless set screws.

P14786	$\frac{1}{4}$ " x 6/32"	10 for 22¢
P14787	$\frac{1}{4}$ " x 8/32"	50 for 91¢
P14788	$\frac{1}{4}$ " x 6/32"	
P14789	$\frac{1}{4}$ " x 8/32"	

PLATED MACHINE SCREWS



Heavily plated machine screws available in three types to fit all needs. 6/32" Round Head Screws.

Stock No.	Length	Gross
P14750	$\frac{1}{4}$ "	.46
P14751	$\frac{1}{2}$ "	.48
P14752	$\frac{3}{4}$ "	.54
P14753	1"	.63
P14754	1 $\frac{1}{4}$ "	.81

Rack Screws & Washers—10/32 x $\frac{3}{4}$ "
P14776— $\frac{1}{4}$ ", per dozen **12¢**
per gross **1.01**
P14777—Cup Washers—per dozen **5¢**
per gross **39¢**

8/32 Round Head Screws

P14765	$\frac{1}{4}$ "	.63
P14766	$\frac{1}{2}$ "	.69

6/32 Flat Head Machine Screws

P14760	$\frac{1}{4}$ "	.46
P14761	$\frac{1}{2}$ "	.48
P14762	$\frac{3}{4}$ "	.54
P14763	1"	.63
P14764	1 $\frac{1}{4}$ "	.81

ANTIQUE FINISHED MACHINE SCREWS

Stock No.	Size	Lath.	Doz.	Gross
P14680	6-32	$\frac{3}{4}$ "	10	1.02
P14681	6-32	1"	11	1.18
P14682	6-32	1 $\frac{1}{4}$ "	12	1.30

Round Head Wood Screws

Stock No.	Size	Lgth.	Gross
P14780	4	$\frac{1}{4}$ "	.65
P14781	5	$\frac{1}{4}$ "	.66
P14782	5	$\frac{1}{2}$ "	.73
P14783	5	$\frac{3}{4}$ "	.82

NUTS & WASHERS—POPULAR SIZES



P14804—6/32x $\frac{1}{4}$ " hex nuts. Gross **67¢**
P14805—8/32x $\frac{1}{4}$ " hex nuts. Gross **57¢**
P14806—6/32x $\frac{5}{16}$ " hex nuts. Gross **60¢**
P14807—8/32x $\frac{5}{16}$ " hex nuts. Gross **66¢**
P14808—10/32x $\frac{5}{16}$ " hex nuts. Gross **71¢**
P14809—6/32x1 $\frac{1}{32}$ " knurled nuts **1.32**
Per 100 **100 for 30¢**
P14809—No. 6 Washers **100 for 30¢**
P14810—No. 8 Washers **100 for 30¢**

LOCKING WASHERS

P14758—No. 6 Lock washer **27¢**
P14759—No. 8 lock washer
Pkg. of 100 **27¢**



SOLDERING LUGS

In five types to fit all your soldering requirements.

Stock No.	Type	Stock No.	Type
P14812	No. 1	P14816	No. 4, $\frac{1}{4}$ " long
P14813	No. 2	P14818	No. 5, $\frac{1}{4}$ " long
P14814	No. 3, solderless		

Any above, per 100 **45¢**
Per 1000 **4.05**

TAPERED LUGS

Fig. 6—Fits on all screws up to No. 10; shank fits banana plugs. $\frac{1}{4}$ " long, $\frac{1}{8}$ " wide.
P12954—Per doz. **44¢**

HEAVY DUTY SPADE LUGS

Fig. 7—Designed for battery terminals, etc. 1" long. No. 10 slot.
P14912—Per 10 **8¢**
Per 100 **69¢**

INSULATED STAPLES

No. 5— $\frac{1}{4}$ "x $\frac{1}{4}$ ".
P16950—Box of 100 **15¢**
10 Boxes **1.35**

HERMAN SMITH TV ANTENNA LUGS

Solderless type. For connecting TV wire to antenna, quickly and easily. Double cup type.

Stock No.	Length	Hole	Per 25
P15464	9/16"	No. 8	.44
P15465	13/16"	No. 10	.47
P15466	15/16"		.50

SEE ORDER BLANK FOR HOW-TO-ORDER INFORMATION

BELDEN WIRE AND CABLE

EXTENSION SPEAKER CABLES



NO. 8209

2-conductor No. 18 stranded, tinned copper. Cotton wrap; low loss rubber insulation; color coded. Paper wrap, tinned copper braid shield, weatherproofed cotton braid.
 .235" O.D.
 Belden 8209..... Per Ft. **6 1/2¢**
 500 Ft. Spool..... **25.62**



NO. 8205

2-conductor No. 22 tinned copper, stranded. Rubber insulation, color coded. Weatherproofed cotton braid. 185" O.D.
 Belden No. 8205..... Per Ft. **2 1/2¢**
 500 Ft. Spool..... **8.82**

INTERCOM AND SOUND SYSTEM CABLE



8740-42. Bare copper solid; enamel film; cotton braid; waxed; color coded conductors cabled in pairs; brown vinyl plastic jacket overall.
 8743-45. As above, tinned copper, vinyl plastic insulation.

Type	No. Cond.	Diam.	Per Ft.	Per 100 Ft.
8740	2	.130	.025	1.91
8743	4	.180	.045	3.67
8742	4	.220	.065	5.29
8743	12	.255	.075	6.11
8744	18	.280	.12	9.26
8745	30	.360	.185	15.28

SHIELDED INTERCOM AND SOUND SYSTEM CABLE



3-conductors cabled; one conductor tinned copper braid shield; two conductors unshielded. Tinned copper, flexible stranding; vinyl plastic ins.; cotton braid; waxed; color coded. Brown plastic overall.
 Belden 8734..... Per ft. **7 1/2¢**
 Per 100 ft..... **6.03**

PA CABLE — AMPLIFIER TO SPEAKER 2-CONDUCTOR



18 gauge bare copper; baked enamel coat; cotton wrap; cotton braid; waxed; color coded; conductors cabled; tinned copper braid shield.
 Belden 8799..... **5¢**
 Per ft..... **3.67**
 Per 100 ft. spool..... **18.26**



3-CONDUCTOR

18 gauge solid bare copper; vinyl plastic ins.; color coded; conductors cabled.
 Belden 8483..... Per ft. **2¢**

VOICE COIL LEAD WIRE



AWG No. 25. Bare copper wire braided. Stranding 32x40. Dia. .024" 10 ft. to a card.
 Belden 8127 **21¢**

SHIELDED GRID WIRE



No. 20 stranded, tinned. Rubber ins.; yarn braid; lacquer coat; tinned copper braid overall. 4000 V. breakdown. .110" O.D.
 Belden 8885..... Per ft. **3 1/2¢**
 25 ft. coil..... **82¢**
 100 ft. spool..... **2.58**

GENERAL USE HOOK-UP WIRE



Tinned copper conductor; cellulose acetate yarn wrap; acetate braid; lacquer coating. 1000V. breakdown. Choice of black, blue, green, red, yellow.

Belden Type	Description	25 Ft.	100 Ft.	1000 Ft.
8941	#20 solid	.32	1.11	8.97
8943	#20 stranded	.32	1.14	9.34
8945	#18 solid	.37	1.29	10.89
8947	#18 stranded	.39	1.40	11.91

8938. No. 14 stranded red and black.
 100 ft..... **2.06** 500 ft..... **9.41**

INDOOR AERIAL & LEAD-IN WIRE



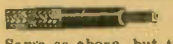
No. 25 indoor aerial. Tinned copper; vinyl insulation; flexible stranding 13 No. 36.

Belden 8014 25 ft. cord..... **23¢**
 500 ft. spool..... **2.20**



NO. 8200

No. 18 lead-in. Tinned copper; rubber ins.; flex. stranding 7 No. 27. .126" OD.
 Belden 8200—100 ft. spool..... **1.05**
 500 ft. spool..... **4.28**
 1000 ft. spool..... **7.94**



NO. 8206

Same as above, but tinned copper braid shield overall. 1.165" OD.
 Belden 8206..... Per ft. **3 1/2¢**
 250 ft. spool..... **7.20**

RUBBER JACKETED PORTABLE CORD



No. 18 multiple conductor cables of bare copper, flexible stranding. Cotton wrap; 1/4" rubber insulation, color coded. Conductors cabled with fillers. Cotton wrap; 1/2" black rubber jacket overall.

Type	Cond.	O.D.	Per Ft.	Per 100 Ft.
8452	2	.245"	.05	3.97
8453	3	.265"	.06	4.85
8454	4	.265"	.07	6.78

LITZ WIRE FOR RF COILS

7 No. 41, 2 nylon wraps.
 Belden 8817—100 ft. spool..... **26¢**

TEST PROD WIRE



No. 18 flexible and limp. 65 No. 36 tinned; cotton wrap, rubber overall; red or black. Specify color.
 8899—5000 V. ins., 140" OD.
 14" pkg. (7" red & black)..... **39¢**
 100 ft. spool..... **1.91**
 8898—10,000 V. ins., 230" OD. **4 1/2¢**
 Bulk, per ft..... **3.46**
 100 ft. spool..... **3.46**

7MM. IGNITION WIRE



Flex. stranded stainless steel alloy with neoprene-rubber-glass ins.; copper shield; neoprene jacket overall.
 Belden 8665..... Per ft. **16¢**
 100 ft..... **19.15**

SHIELDED MICROPHONE CABLES



MULTIPLE CONDUCTOR

NOS. 8423 & 8424. No. 20 flexible stranded (24x34) tinned copper. Cotton wrap; rubber insulation, color coded. Rayon braid; tinned copper braid shield; cotton wrap; black rubber jacket.

Type	Cond.	Per Ft.	Per 50 Ft.	Per 250 Ft.
8423°	3	.10	4.05	19.85
8424†	4	.115	4.70	23.52

* .280" O.D. † .305" O.D.

CARBON MIKE CABLE



2-conductor, #22 stranded, tinned copper, polyethylene insulation with cotton braid. Tinned copper braid shield; chrome vinyl plastic jacket. .225" OD. 32mm/ft. between one conductor and remaining conductor connected to shield.
 Belden 8422..... Per ft. **8¢**
 25-ft. Coil..... **1.62**
 50-Ft. Coil..... **3.17**
 100-Ft. cOll..... **6.32**

SINGLE CONDUCTOR MIKE CABLES



No. 25 tinned copper and steel, flexible stranding. Cellulose yarn braid; polyethylene insulation; tinned copper braid shield; chrome vinyl plastic jacket.

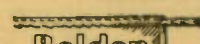
Type	Mmf /ft	O.D.	Per Ft	25 Ft.	50 Ft.	100 Ft.
8411†	37	.144"	.05	1.21	2.17	4.28
8401	25	.200"	.07	1.47	2.79	5.59
8410°	33	.245"	.085	1.91	3.67	7.06

† For Lapel Microphones. ° Rubber Jacket.

SHIELDED PHONO-PICKUP CABLE

No. 24 (16x36) stranded tinned flexible cable. Rubber ins.; copper braid; cotton braid overall. .095" OD.
 Belden 8431—Bulk, Per ft..... **3 1/2¢**
 100 ft. spool..... **2.85**

BELDEN TWIN LEAD



For TV and FM antennas. Low-loss polyethylene insulation. One lead tinned, one bare. Stranded #20 (7x28).

Belden 8225.
 300 ohm twin lead..... Per ft. **2 1/2¢**
 Belden 8224. 150 ohm twin lead. Per ft. **2 1/2¢**
 Belden 8222. 72 ohm receiver type. Per ft. **2¢**

CATHODE-RAY TUBE LEAD CABLE



No. 20 tinned. Polyethylene ins.; cotton braid; lacquer coat. Flex. strand. 7 No. 28. 10,000 V. ins. .136" OD.
 Belden 8869..... Per ft. **3¢**
 100 ft. spool..... **2.28**

NO. 8868

Same as above but 20,000 volts ins., .198" OD.
 Belden 8868..... Per ft. **5¢**
 100 ft. spool..... **3.90**

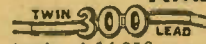
ANTENNA CONTROL CABLE



For use with television antenna rotators. Tinned copper, flexible stranding; vinyl plastic insulation; overall vinyl jacket. Each conductor color coded, parallel.

Type	No. Conductors	Per Ft.
8484	4	.035
8485	5	.045
8488	8	.08

AMPHENOL & FEDERAL TWIN LEAD AND COAXIAL CABLES



300 OHM TWIN LEAD

Amphenol 14-358 represents the latest design in RF transmission line. Provides proper match of antennas to all standard 300 ohm input FM and television receivers. 300 ohm recommended by RMA for use with television receivers in broad band operation. For use indoors or outdoors. Low-loss polyethylene insulation is efficient, tough and withstands severe weather conditions.
 P17130—Amphenol 14-358 Twin Lead..... Per ft. **2 1/2¢**

FEDERAL SHIELDED 300-OHM LINE

Type K-111. Minimizes noise, "snow" and "ghosts" due to transmission line pick-ups. Also offers excellent protection against ignition, street cars, fluorescent lights, diathermy machines, etc.
 P17139—Federal Type K-111..... Per ft. **13¢**
 Per 100 ft..... **12.38**



AMPHENOL LOW-LOSS HF COAXIAL CABLE

Dielectric is a solid, flexible low-loss polyethylene, proven most efficient in high frequency transmission circuits; mechanically stable. All have a copper, woven shield braid over the polyethylene and a heavy vinyl outer covering overall. These cables are impervious to acids, alkalis, oils and gasoline. Other conductor types available.

Stock No.	Amphenol No.	Ohms Imped.	Cap. Ft. Mmf	Wire Size	Dielectric O.D.	Cable O.D.	Per Ft.
P17120	RG/8U	52	29	7x21	.285"	.405"	.17
P17121	RG/11U	75	20	7x26	.285"	.405"	.15
P17122	RG/22U	95	16	No. 20	.116"	.195"	.175
P17123	RG/55U	53.5	28	No. 20	.116"	.184"	.08
P17123	RG/59U	73	22	No. 22	.146"	.242"	.09

WIRE-INSULATION-COIL FORMS

HEAVY RUBBER CORD

Type 6J—The thick belt of flexible rubber that covers the conductor acts as a smooth oil-resisting, abrasion-proof high quality "jacket."



No.	Gauge	No. of Cond.	Per Ft.	100 Ft.
P20945	18	2	.05	4.50
P20946	16	2	.06	5.40
P20947	14	2	.16	14.60
P20948	18	3	.07½	6.75

POSJ AND POT LAMP CORD



TYPE POSJ: Rubber covered 2 conductor #18 zip cord. Ideal for lamp cord or speaker cable. Black or Brown.

P20920—100 ft.—2.65 . Per Ft. **3 1/2¢**

TYPE POT: Similar to above, but plastic covered.

P20921—100 ft.—2.65 . Per Ft. **3 1/2¢**

PUSH BACK WIRE

No stripping necessary, just push back the double cotton-covered moisture-proofed braid, and wire is exposed. All wire is flexible, tinned copper core type. Solid wire is No. 20, multi-strand type is equivalent to No. 20. Available in red, green, black, yellow—specify color desired. Weight, 2 lbs. per 100 ft.



SOLID STRANDED

Length Ft.	Stock No.	Each	Stock No.	Each
25	P16350	.29	P16354	.30
50	P16358	.55	P16362	.57
100	P16366	1.04	P16370	1.05
1000	P16374	8.70	P16378	9.75

MULTI-CONDUCTOR CABLE



A high grade, heavily insulated cable. Rubber jacket of each lead differently colored for easy identification. 20 gauge, stranded tin-copper wire. Cotton braid overall.

No.	Wires	Per Ft.	100 Ft.
P16089	3	.06	4.38
P16090	4	.07	6.08
P16091	5	.08	7.28
P16092	6	.10	9.01
P16093	7	.12	10.43
P16094	8	.16	14.10
P16095	9	.165	14.55
P16096	10	.18	15.90

COLORLED RUBBER WIRE

Stranded and tinned 18 gauge copper wire covered with a live rubber compound. Very flexible; easy to strip. Solders instantly. In 25 ft. coils.

P16272—Red } Coil
P16273—Black } 38¢
P16274—Green } 5 for 1.70



COPPER BUS BAR

Round tinned copper bus bar. No. 14 gauge, 24-inch lengths.

P15965—100 lgths. 3.60

10 lgths. **38¢**

SPAGHETTI TUBING

Highest grade cambrie tubing. In red, yellow, green or black. No. 12 gauge.

P15960—Specify color **10¢**

30-inch length **90¢**

10 lengths **90¢**

SPAGHETTI TUBING ON SPOOLS

A flexible tubing, heavily varnished, in attractive colors. Average dielectric strength, 5000 volts. Will accommodate from No. 10 to No. 18 wires. Supplied in 20-foot lengths on handy spools. Red, yellow, brown, green, black—specify color desired.

P15945—20 ft. Spool. **82¢**

ASSORTED SPAGHETTI 8" LENGTHS

Bundle of twenty-four pieces. Made of strong, cambrie tubing. Supplied in assorted diameters and colors.

P15959 **18¢**

Per Bundle **18¢**

COPPER SHIELDING



Flexible, heavily tinned, braided shielding.

No.	Dia.	Per Ft.	100 Ft.
P16233	1/4"	.04	3.15
P16237	1/4"	.035	2.64
P16238	3/8"	.05	3.48
P16239	1/2"	.08	6.94

INDOOR ANTENNA WIRE

Multi-strand flexible copper wire, covered by a mercerized cotton braid. For indoor or AC-DC antenna installations.

P16165—25 ft. hank. **17¢**

P16167—100 ft. coil. **72¢**

POLYSTYRENE RODS AND SHEETS



RODS: Expertly molded from pure low-loss polystyrene. Available in 12" lengths for machining special coil forms and low-loss parts.

SHEETS: Made of low-loss polystyrene.

RODS			
Stock No.	Diameter	Each	
P8015	1/4"	2 1/2	6
P8067	3/8"	.08	.17
P8068	1/2"	.10	.20
P8069	3/4"	.12	.24
P8016	1"	.15	.30
P8017	1 1/4"	.18	.36
P8070	1 1/2"	.20	.40

SHEETS			
Stock No.	Dimensions	Each	
P8025	4 x 8 x 1/4"	.16	.32
P8028	4 x 8 x 1/2"	.20	.40
P8026	4 x 8 x 3/4"	.24	.48
P8027	4 x 8 x 1"	.28	.56

SINGLE CONDUCTOR CRYSTAL MIKE CABLE

Flexible stranded tinned copper with tinned copper braid shield; cotton wrap and lacquered braid. Rubber overall.

P20842—Dia. 2.80". Per Foot. **7¢**

50-Foot Roll. 3.33 100-Foot Roll. 6.30



CRYSTAL AND VELOCITY MIKE CABLE

Low impedance, 2 conductors, color-coded, in abrasion-proof tinned copper shielding with outer covering rubber.

P16079 Per Ft. **7 1/2¢**

50-Foot Roll. 3.38 100-Foot Roll. 6.42



3-CONDUCTOR SHIELDED CABLE

Three color-coded stranded conductors in tightly woven tinned copper shield. 1/4" thick outer covering of rubber.

P16145 Per Ft. **9¢**

50-Foot Roll. 4.29 100-Foot Roll. 8.10



FINEST GRADE MAGNET WIRE

Highest quality copper wire. Excellent for rewinding power transformers and chokes, winding coils, or for any other radio and electrical purposes. In plain enameled and double cotton covered types.



Plain Enameled

Stock No.	B&S	Ft. Lb.	Your Cost	Stock No.	B&S	Ft. Lb.	Your Cost
P20950	18	125	.31 .51	P20956	28	2030	.48 .74
P20951	18	202	.31 .55	P20957	30	3220	.49 .79
P20952	20	310	.33 .58	P20958	32	5100	.56 .85
P20953	22	506	.33 .59	P20959	34	8080	.62 1.04
P20954	24	804	.36 .62	P20960	36	12800	.79 1.26
P20955	26	1280	.40 .68	P20961	38	20300	1.04 1.54

Double Cotton

Stock No.	B&S	Ft. Lb.	Your Cost	Stock No.	B&S	Ft. Lb.	Your Cost
P20973	16	122	.32 .62	P20979	28	1630	.74 1.34
P20974	18	192	.36 .68	P20980	30	2420	.83 1.54
P20975	20	298	.40 .77	P20981	32	3500	1.10 1.89
P20976	22	464	.53 1.00	P20982	34	4920	1.34 2.44
P20977	24	711	.58 1.00	P20983	36	6660	1.73 3.08
P20978	26	1080	.62 1.10				

TELEPHONE WIRE

For general use and inter-com systems. 2-conductor No. 10 gauge 1/2" R.C.

P20895—Per Foot **3 1/2¢**

100-Foot Roll **3.15**

P20896—3-conductor, No. 10 **4 1/2¢**

Per Foot **4 1/2¢**

100-Foot Roll **3.75**

SHIELDED LEAD-IN HOOK-UP WIRE

10-stranded (No. 18) wire. Live rubber covered. Tinned shield.

P16240— **3 1/2¢**

50-Foot Roll **1.80**

100-Foot Roll **2.85**

THERMOPLASTIC HOOK-UP WIRE

New thermoplastic insulation—strips clean, is oil and acid resistant. Will withstand 150°F. For use where high conductivity and low loss is essential. 10,000 volt breakdown test. U.L. approved. Available in Black, Red, Blue, Green, and Yellow—specify color desired. Shpg. wt. per 25 feet: 4 ounces.

P16382—25 ft. No. 20 Solid. **32¢**

P16383—100 ft. No. 20 Solid. **1.13**

P16384—25 ft. No. 20 Stranded. **39¢**

P16385—100 ft. No. 20 Stranded. **1.28**



COPPER AERIAL WIRE

Made of the finest copper obtainable. All rolls guaranteed to be full length and standard gauge as specified. Fits any type aerial.

Bare Stranded—75-Ft. Coils

Stock No.	Size	Per Coil	10 Coils
P16041	7/26	.38	3.42
P16042	7/24	.53	5.00
P16043	7/22	.76	7.20

Enameled Stranded—100-Ft. Coils

Stock No.	Size	Per Coil	10 Coils
P16117	7/22	1.37	13.00

Solid Enameled—100-Ft. Coils

Stock No.	No.	Per Coil	10 Coils
P16118	No. 14	.99	9.41
P16119	No. 12	1.33	12.60

AMPHENOL POLYWELD "912"

Colorless, transparent, ready to use. Polyweld joins two sections of polystyrene. It contains solvents that actually "weld" surfaces into a single unit. Will not disturb circuit constants. Recommended for UHF and VHF. Applied by dipping or with a brush. Dries sufficiently in four to eight minutes.

P15363—4 oz. bottle **38¢**

"912-2" Thinner for 912 **15¢**

P15364—2 oz. bottle with brush. **15¢**

SMOOTH COIL FORMS

Blank bakelite forms, for winding coils.

P10060—4 prong **34¢**

P10061—5 prong **36¢**

P10062—6 prong **37¢**



TRUTEST RIBBED COIL FORMS


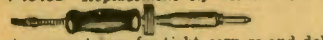
High quality low-loss bakelite. Ribbed for air spaced winding. Knurled flanges; grooved for wave band index. Eight ribs. Undrilled. Medium size, 1 1/4" dia x 3 3/4"; Small, 1 1/4" dia x 2 1/4".

Small Size				Medium Size			
No.	Prongs	Each	No.	Prongs	Each	No.	Prongs
P9988	4	.34	P9630	4	.44		
P9989	5	.39	P9631	5	.44		
P9990	6	.39	P9632	6	.49		

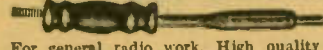


SOLDERING IRONS AND ACCESSORIES

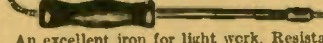
DRAKE INDUSTRIAL IRONS — UNDERWRITERS LISTED

-  100 WATT—No. 600-10
- For close quarter soldering of switchboards, radios and other light manufacturing jobs. With 6-ft. cord, stand, $\frac{3}{8}$ " tip. **5.29**
- P15164—Drake No. 600-10. Shpg. wt. 2 lbs.
- P15152—Replacement tip for above iron 73c
-  60 WATT—No. 400
- A compact iron for tight corners and delicate instrument wiring. 9" long, Wt. 9 oz. With 6-ft. cord, "Magic Cup" stand and $\frac{3}{8}$ " tip. **3.53**
- P14835—Drake No. 400—Shpg. wt. 1 lb.
- P15157—Replacement tip for above 24c

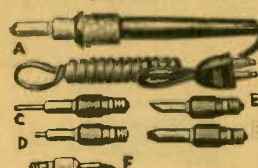
DRAKE DELUXE SOLDERING IRON

-  100 WATT—No. 325
- For general radio work. High quality nichrome wire on amber mica. Nickel plated. Complete with 6-ft. cord, "Magic Cup" stand and $\frac{3}{8}$ " tip. Shipping weight $1\frac{1}{2}$ lbs. **3.53**
- P15162—Drake No. 325 73c
- P15152—Replacement tip for above 73c

DRAKE SPECIAL IRON

-  60 WATT—NO. 315
- An excellent iron for light work. Resistance wire on porcelain tubes. With 6-ft. cord and plug and stand. **1.47**
- P14892—Drake No. 315—Shpg. wt. 1 lb.
- P15158—Replacement tip for above 53c


UNGAR 776 ELECTRIC SOLDERING PENCIL

- 
- So small it can be handled as easily as a pencil. Weighs only 3.6 oz. Overall length, 7". A 20-watt iron that heats in 90 seconds. Convenient for tight, hard-to-reach corners. Has heat-resistant plastic handle. Operates on 110 volts, AC or DC. UL approved. Uses any tip listed below. Shpg. wt. 8 oz. Less tip. **86c**
- P15575—Handle and Cord 71c
- In Lots of 10, Each


UNGAR REPLACEMENT TIPS

No.	Type	Description	Fig.	Net Each	Lots of 10, Each
P15576	530	Standard Copper, $\frac{3}{8}$ "	A	.86	.71
P15577	539	Chisel Tip, $\frac{3}{8}$ " extra hot	B	.86	.71
P15578	538	Chisel Tip, $\frac{3}{8}$ "	C	.86	.71
P15579	537-S	Straight Pencil, $\frac{3}{8}$ "	D	.86	.71
P15580	540	Brass Marking	E	.86	.71
P15540	537-C	Offset Tip, $\frac{3}{8}$ "	F	.86	.71
P15641	1236	Pyramid Tip, Hi-Heat, $\frac{3}{8}$ "	A	1.06	.86
P15642	1230	Chisel Tip, Hi-Heat, $\frac{3}{8}$ "	B	1.06	.86

UNGAR ELECTRIC PENCIL AND SOLDERING SET

- 
- New! One complete combination set of two former popular units for home craftsmen and hobbyists. Provides a practical means of creating useful designs and objects. Contains UL listed heating unit, plastic handle and cord set; 4 interchangeable brass tips for forming, burning or embossing plastic, wood, leather, velvet, cork, foil, etc., plus two copper tips for soldering; five colors of metallic foil; emery cloth; wood catalog; instruction folder and soldering direction sheet. **1.79**
- P15643—Ungar No. 217 Set. Shpg. weight 1 lb.

KESTER SOLDER AND FLUX

- 
- Uniform compound of tin and lead with evenly distributed and free-flowing flux.
- | | Rosin Core $\frac{3}{8}$ " | Acid Core $\frac{3}{8}$ " | Rosin $\frac{3}{8}$ " Thin-Core |
|-------------|----------------------------|---------------------------|---------------------------------|
| Per Tin | P14857 .17 | P14878 .17 | P14851 1.39 |
| 1 lb. Spool | P14858 1.16 | P14877 1.16 | P14852 5.75 |
| 5 lb. Spool | P14859 5.60 | P14879 5.60 | P14851 5.75 |
- P15278—Kester Paste Flux. Non-corrosive. 2-oz. can **12c**

KESTER "Resin-Five" SOLDER

- Absolutely non-corrosive and non-conductive. Easily solders zinc, brass, nickel plate, copper and ferrous alloys. **1.16**
- P14741— $\frac{1}{2}$ " diameter—1 lb. spool 5.60
- P14742— $\frac{3}{8}$ " diameter—5 lb. spool 1.39
- P14743— $\frac{1}{4}$ " diameter—1 lb. spool 5.75
- P14744— $\frac{1}{8}$ " diameter—5 lb. spool 1.16

ERSIN MULTICORE SOLDER

- Maximum flux action at correct solder melting point. Fast melting, non-corrosive, non-sticky, non-toxic. 3-core construction insures constant flux. Has excellent cleansing action. 40% tin, 60% lead. No. 16 gauge **1.48**
- P14801—1 lb. spool 10.08
- P14802—7 lb. spool 10.08

PETITE IRON

- 
- Compact, lightweight soldering iron designed for light wiring, tight corners and really remote spots. Draws only 25 watts. $\frac{3}{8}$ " diameter tip. Length 8". Complete with cord and plug. **2.35**
- P14836—Shpg. wt. 3 $\frac{1}{2}$ oz.

WELLER SPEED SOLDERING IRONS

STANDARD MODELS
With Dual Spotlight



- No waiting—Heats, Cools in 5 Seconds
- Easy to Handle—Gets into Tight Corners
- New, Pistol-Type Grip Is Easy to Hold
- Tips Are Easy to Tin and Stay Tinned

These soldering tools operate on the resistance welder principle of high current at extremely low voltage. No more waiting for the iron to heat — merely pull the trigger when it's time to solder. Pistol grip permits close work with a "feel" that's impossible to have with conventional type irons. No bulky tip . . . no working in dark. Spotlight lets you see where you are working. Tips stay tinned, solder easily and can be bent by hand. 115 V., 60 cycles A.C.

- P15183—Model WS-100. 100 Watt, Single Heat, Shipping weight 3 lbs. **NET 8.73**
- Lots of 6, Each 7.89
- P15186—Model WD-135. 100/135 Watt, Dual Heat, Wt. 3 lbs. Net **10.73**
- Lots of 6, Each 9.66
- P14880—No. 7135 Tip. Pack of 2 for WS-100 & WD-135 Irons 25c
- P15188—No. 7325. Fastening Stud for ALL Weller Irons. 10c
- P14850—No. 7300 Chisel Tip. For S107 & D107 Irons (Pkg. of 2) 25c


WELLER HEAVY DUTY MODELS With Spotlight



- P14869—Model WS-200. 200 Watt, Single Heat. Shipping weight 4 lbs. **NET 9.85**
- Lots of 6, Each 8.86
- P14870—Model WD-250. 200/250 Watt, Dual Heat. Shipping weight 4 lbs. **NET 14.65**
- Lots of 6, Each 10.53
- P14866—No. 7250 Ripid Tip. Package of 2 for WS-200 & WD-250 Irons 35c

AMERICAN BEAUTY 100-WATT IRON

NO. 3138

- 
- An excellent iron for industrial use. Heavily nickel plated and polished metal parts. With 6-ft. cord and stand. 12 $\frac{1}{2}$ " L. **5.83**
- P15174—No. 3138. With $\frac{3}{8}$ " Tip. Wt. 2 lbs.
- P15170—No. 3738. Extra Tip for above iron 37c

AMERICAN BEAUTY THERMOSTAT STAND

Merely set adjustable thermostat to desired heat. Stand automatically maintains soldering iron temperature without heat variator or over-heating. Molded plastic body. Complete with cord and plug and receptacle for iron. Capacity up to 600 watts and 240 volts.



- P15169—No. 475. 3 lbs. **4.41**

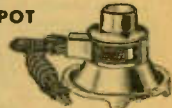
ESICO SOLDERING IRONS

High grade elements, finest mica insulation. With cord, stand and tip. For AC or DC. UL approved.

- | Soldering Irons | | Extra Tips | |
|---------------------------------------|------|------------|-----|
| P14900—60 watts, $\frac{3}{8}$ " tip | 1.91 | P14901 | 24c |
| P14902—100 watts, $\frac{3}{8}$ " tip | 2.55 | P14903 | 24c |
| P14905—130 watts, $\frac{3}{8}$ " tip | 3.20 | P15168 | 35c |

ESICO 200-WATT SOLDER POT

Equipped with pilot light that indicates when pot is heating. Can be screwed to bench. Capacity $\frac{3}{4}$ lb. Dia. $1\frac{1}{2}$ ", height 4 $\frac{1}{2}$ ".



- P15554—Shpg. wt. 3 $\frac{3}{8}$ lbs. **4.85**

ESICO THERMOSTATIC STAND

The iron can be maintained at any desired temperature while in the stand. Thermostatic control makes it impossible to over-heat iron or burn off its tin. When iron is removed, full current goes on. Will take irons having up to 1" diameter tips.



- P14886—Shpg. wt. 3 lbs. **4.20**

KWIKHEAT 225-WATT IRON

Heats up in 90 seconds. Has built-in thermostat. Handle stays cool. Can be used with interchangeable tips shown below. For 100-125 volts A.C. UL approved, 1-year guarantee. **9.18**



- P15121—Iron with No. 1 Tip **9.18**

KWIKHEAT INTERCHANGEABLE TIPS

No. 5 is aluminum, others are forged Tellurium.

- | | | | |
|-------------------------------------|--------------------------|---|---|
| 0 | 1 | 4 | 5 |
| P15122—No. 0 (Light) | P15126—No. 4 (Heavy) | | |
| P15123—No. 1 (Medium) | P15127—No. 5 (1-oz. Pot) | | |
| Any Tip, Each 1.13 | | | |
| In Lots of 3, Each 1.00 | | | |

ELECTRIC DRILLS, TOOLS, ACCESSORIES

LENK "SUPERHEAT" ALCOHOL BLOTORCH



Latest Lenk alcohol torch with extra high heat for silver soldering, soft soldering and sweat fitting. Generates up to 2500 degrees F. Ideal for chassis, antennas and other heavy work. Cool, convenient pistol-grip handle permits ease of handling. A fast-operating tool that's ready for action. Can be used efficiently at any angle without fear of leakage.

P14841—Lenk No. 222—Shpg. wt. 1 1/2 lbs. **3.60**

CENTURY HIGH SPEED DRILL SETS

SET NO. M-2 21-DRILL SET

Contains 21 drills 1/16" to 3/8" by 64ths with Huet index. Also includes medium size Huet index, with the extended drill size range adding drills most often needed.

P15762—Shpg. wt. 2 1/2 lbs. **12.74**

SET NO. M-3 13-DRILL SET

1/16" to 3/8" by 64ths with Huet index. Smallest, but most often used sizes.

P15761—Shpg. wt. 1/2 lb. **5.14**

CENTURY HIGH SPEED DRILLS SOLD SEPARATELY

No.	Size	Each	No.	Size	Each
P15770	1/16"	.23	P15780	1/2"	.50
P15771	3/32"	.24	P15781	5/8"	.52
P15772	1/8"	.25	P15782	3/4"	.57
P15773	3/16"	.26	P15783	7/8"	.64
P15774	1/4"	.29	P15784	1"	.70
P15775	5/16"	.32	P15785	1 1/8"	.77
P15776	3/8"	.34	P15786	1 1/4"	.82
P15777	1/2"	.38	P15787	1 3/8"	.91
P15778	5/8"	.41	P15788	1 1/2"	1.00
P15779	3/4"	.45	P15789	1 3/4"	1.17



SPRING TWIST MASONRY DRILLS

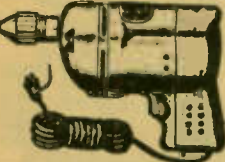
For use with 1/2" electric drills. Tips are "Carboloy", hardest metal made, with tough alloy-steel shanks and unique wire spiral that lifts dust out of the hole. For brick, concrete, cement and other stone work.

P15743—1/8"	1.19	P15746—3/8"	1.59
P15744—1/4"	1.26	P15747—1/2"	1.85
P15745—3/8"	1.38	P15748—1"	1.99

Spring Twist Drill Set—Includes 1/8", 3/8", 1/2" drills on 1/2" round shanks. Individually packed.

P15749—Century CT-33 Set—Shpg. wt. 1 lb. **NET 4.97**

BLACK & DECKER 1/4" ELECTRIC DRILL



Powerful, high quality 2250 RPM motor equipped with 3-jaw Jacobs hex-key chuck. Drills holes in steel, cast-iron, aluminum, brass, sheet metal, wood, plastic, etc. Also drives countersinks, wood augers, wire brushes and numerous sanding, cleaning and polishing accessories. Instant release trigger switch can be locked "ON". Die-cast aluminum housing. 3/4" long. For 110V. AC or DC.

P15797—Shpg. wt. 5 lbs. **22.95**

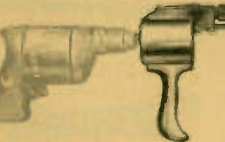
GILBERT 1/4" ELECTRIC DRILL



An economy model suitable for medium home and shop jobs. Has self-tightening chuck attached to precision-built 1400 RPM motor. Equipped with ON-OFF toggle switch. Easy to balance with the convenient pistol-grip handle. Enclosed in strong, die-cast zinc housing with attractive aluminum finish. Operates on 110 volts, 60 cycles AC. Shipping weight 4 lbs.

P15796 **11.25**

WHITTLE SAW ATTACHMENT FOR HAND DRILLS



Instantly converts any 1/4" electric hand drill for sawing, filing, peening, riveting or embossing. Just insert shaft into drill chuck. Small and compact — gets into places where ordinary tool cannot reach easily. No special skill required to operate. Uses broken hack saw blades. Made of case hardened parts with no gears or shafts to wear out. With Allen head wrench and blade.

P15790—Shpg. wt. 3 lbs. **11.05**

5 TO 1 RATIO GEARED CHUCK



Converts any 1/4" capacity electric drill to a 1/2" capacity. Reduction gears reduce RPM ratio five to one which increases power of 1/4" chuck five times. To operate, tighten 1/4" diameter knurled shank into the chuck on any 1/4", 3/8" or 1/2" electric drill.

P14698—Shpg. wt. 4 lbs. **9.53**

G.M. CO. SMALL MOTOR CHUCK ARBORS



These arbors fit directly onto the shaft of any small motor in place of the pulley. Equipped with flange and locking nut to hold grinding wheels, circular saws, buffing wheels, etc. Also has 1/2" chuck with three hardened jaws.

No.	Motor Shaft	Each
P15095—495	1/4"	.93
P15096—490	3/8"	1.47
P15097—490-A	1/2"	1.58
P15098—490-B	3/4"	1.55



ELECTRIC MOTO-SAW

Lightning fast — makes 7200 strokes per minute and cuts 1 foot a minute through wood up to 3/4" thick! The only electrically driven hand jig saw that saws the most intricate patterns, cuts at any angle and works on assembled projects. Automatic switch in the handle instantly stops and starts motor. For 110 volts, 50/60 cycles AC. Supplied complete with cord and plug and 3 blades. Shipping weight 2 lbs.

P15352 **5.85**
P15353—Extra blades for above **12 for .60**

ALL-PURPOSE VIBROSPRAYER

Even amateurs can produce a professional looking paint job with this self-contained spraying unit. Specially designed to permit one-hand operation. Unit is complete in itself. Screw-top jar has a 24-ounce capacity. Equally adaptable for spraying other liquids such as light oil, insecticides, DDT, etc., as well as paint. A well-made sprayer that will give years of useful service. Operates on 110 volts, 60 cycles.

Weight 4 lbs. **7.47**
P15619 **7.47**
In Lots of 6 **Each 6.72**



G.M. CO. ALL-STEEL HOBBY LATHE OUTFIT

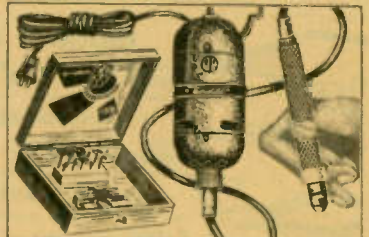
Consists of 8 1/4" high lathe head with 1/2 x 6 3/8" shaft accurately turned and threaded at both ends with two flanges and nuts for grindstones, buffing wheels and scratch brushes. 1/2" capacity chuck with 3 spring controlled jaws hold drill in exact center. All steel unbreakable in exact center. Complete outfit includes: 2-speed pulley; 4" flat face vitrified grinding wheel; 4" wire scratch brush with securely held wires; 4" laminated cotton buffing wheel; oak tanned leather belt complete with coupling; one block of high grade polishing compound. Red enamel finish.

P22399—Shipping weight 6 lbs. **3.75**

FAIRCHILD FLEXIBLE SHAFT TOOL

A versatile engraving, buffing, grinding and polishing tool with a precision 1/20 HP motor. Pencil-size handpiece and 10 standard tools supplied permit fine work of professional quality. Flexible shaft is 3 feet long and covered with plastic. Takes any standard 1/8" or 3/16" shank tool. Complete with accessory tools, two wrenches, flexible shaft, motor and bracket for motor all in sturdy wooden case. Operates on 110-120 volts, AC or DC.

P15645—Shipping weight 7 lbs. **15.95**



GENERAL DRILL GRINDING ATTACHMENT

Precision-built tool designed for accurate re-pointing of twist drills. Adjustable for all popular drill point angles, including countersinks. Correctly resharpen twist drills of the following sizes: 1/8" to 3/8" fractional; 1 to 30 number size; A to Z letter size; and 3.0 to 19.0 millimeter size.

P15769—Shipping weight 2 lbs. **4.80**



NEW! BURGESS ELECTRIC JIG SAW SANDER AND FILER

- Built-in Automatic Blower
- "Every Direction" Saw Blade
- Rotary 3400 RPM Motor
- Sanding Disc with Adjustable Table
- 45-Degree Tilt Saw Table
- Built-in Cooling Fan
- Portable — Use It Anywhere

One of the finest small power tools for the home workshop. Cuts through 1/2" wood and 3/4" light metal. Automatic blower keeps sawing edge free from sawdust and filings. 340 degrees revolving saw blade guide assembly for extra long cuts. Large saw table tilts 45 degrees right or left for beveling. Replaceable garnet sanding disc. Sanding table tilts 45 degrees up or down for bevel sanding. Fast precision filing is accomplished by using a 1/2" shank, 3 1/2" long standard bench machine file. Saw table is 8 x 5 1/2" with 8 1/2" throat capacity. Overall size 8 x 7 1/2 x 11 1/2" high. 115-125-volt, 60-cycle motor with UL approved push button switch and 6-ft. cord and plug.

P22400—Burgess Model JS900. Shpg. wt. 5 1/2 lbs. **12.95**

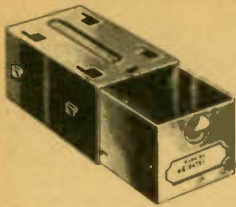


ACCESSORIES FOR BURGESS JIGSAW

P22401—Package of 12 Saw Blades	1.00
P22402—Package of 6 Sanding Discs	.25
P22403—Half-Round File	1.00
P22404—Triangular File	1.00
P22405—Package of 3 Saber Blades	1.00

USE OUR ORDER BLANK FOR FASTEST POSSIBLE SERVICE

PLIERS, SCREW DRIVERS, WRENCH SETS, NUT DRIVERS



ALL-STEEL MULTI DRAWER

Convenient and economical storage for fittings and small parts. Each unit constructed with tongue and slot designed to interlock with other units at top, bottom or side. Units may be fitted and securely locked around existing fixtures for economy of space. Each drawer has handy pull and holder for contents card. Ample drawer depth permits storage of reasonably large parts. Two-tone green finish, all steel construction. Size: 2 1/4 x 2 1/4 x 5". Wt. 10 oz. P22381—10 for 2.70. Ea. **30c**

KRAEUTER STANDARD PLIERS

From Krauter's extra quality "Standard" series—made to stand up under severe strain. Drop forged from extra-high grade steel with "blue temper" finish. These are not the lower-priced "K" tools.



DIAGONAL CUTTING PLIERS

P14942—4 1/2" Length **1.75**
P14944—6" Length **2.29**

WIRE STRIPPING DIAGONAL CUTTER

Narrow head and notched cutters for stripping fine wire .062 in diameter. Spring in handle makes this a very fast cutting tool. Blue temper finish. Length 6 1/2". P14947—Shipping weight 9 oz. **2.58**



LONG NOSE PLIERS

Side-cutting blades with choice of jaws. P14946—5" Length, Short-Jaw **1.87**
P14945—6" Length, Long-Jaw **2.29**



ELECTRICIAN'S CUTTER

Modified fitted lap joint cutters. P14935—6 1/2" Length **2.09**
P14936—8" Length **2.50**

GENUINE KLEIN PLIERS

Made of the finest alloy steel, individually tempered for long-life cutting edges.



OBLIQUE 5" CUTTING PLIERS

Wire stripping notch, lap joint. P15223—Narrow Head **3.00**



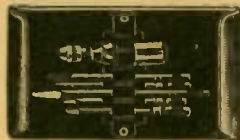
LONG NOSE SIDE CUTTERS

Pointed slender nose. P15221—6" Length **3.15**



LONG CURVED NOSE PLIERS

For work in close quarters. P15224—8" Length **3.25**



SCREW DRIVER SET

Consists of 5 tempered, ground blades and chuck with amber handle. 3 standard screw driver blades: 3 1/4 x 1/4" tip, 3 x 1/2" tip, 3 1/2 x 1/4" tip; 2 Phillips: P1, 3" L, P2, 4" L. Slotted chuck accommodates specially designed blades for positive fit. P14712—in Leatherette roll. **1.05**



RECESSED HEAD SCREWDRIVERS

Made with sure-grip wooden handles and steel blades.

No.	Size	Length	Cost
P15251	Up to 4	6 1/2"	.25
P15252	5 to 9	8"	.25
P15253	10 to 16	11 1/2"	.33



XCELITE SCREWDRIVERS

Polished chrome vanadium blades with accurately ground tips. Tough, shockproof amber handles. Weight 5 oz.

No.	Type	Blade Size	Each	No.	Type	Blade Size	Each
P15240	R-144	4 x 1/4" tip	.59	P15243	R-182	2 x 1/4" tip	.29
P15241	R-146	6 x 1/4" tip	.62	P15244	R-184	4 x 1/4" tip	.32
P15242	R-148	8 x 1/4" tip	.69	P15245	R-186	6 x 1/4" tip	.36
				P15246	R-188	8 x 1/4" tip	.39



TOOL STEEL REAMERS

Made of heat treated steel. Tapered shank has "T" handle for easy hand operation. Enlarges 1/8" to 1/2" holes in wood, bakelite or soft metal. Overall length 5 1/2". Dia. of point 1/8". P16049 **1.05**

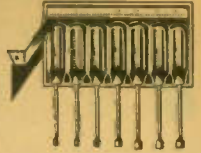


AUTOMATIC PUNCH

Speedy, automatic and adjustable. A singlehand operated punch that gives light or heavy impressions with merely the turn of a screw. Punch has replaceable points. Size: 1/2 x 5". P14991 **2.85**
P14992—Steel replacement point **30c**

XCELITE SUPER NUT DRIVER SET

Contains most popular socket sizes from 3/16" to 3/8" in 1/32" steps. Seven wrenches have plastic handles color coded for easy identification. Made of polished hardened steel. Sockets are deep enough to hold two nuts at one time. Complete in metal holder that can be fastened to wall or work bench by screws which are inaccessible when holder is locked. Size: 7 1/4 x 7 1/4 x 1 1/4". Red wrinkle finish. P15247—Shpg. wt. 2 1/4 lbs. **4.24**



XCELITE SHOCKPROOF NUT DRIVERS

Unbreakable, transparent amber handles insulated against 5000V. Extra-deep sockets for long studs. 6" long.

P15330—for 3/16" hex nut
P15328—for 1/4" hex nut
P15331—for 1/2" hex nut
P15327—for 5/8" hex nut
P15332—for 3/4" hex nut
P15333—for 1 1/2" hex nut
P15334—for 3/8" hex nut
Any Above, Each **47c**

P15335—for 1/2" hex nut
P15336—for 3/4" hex nut
Either Above, Each **73c**



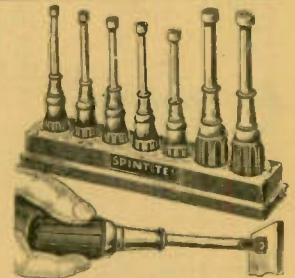
HOLLOW SHAFT TYPE

Permits removal of nuts from volume controls and other panel equipment with shafts up to 5". Ideal for nuts blocked by bolts or studs.

P15344—for 1/2" hex nut **79c**
P15329—for 3/8" hex nut **82c**

STEVENS-WALDEN "SPINTITE" WRENCH SET

Invaluable for radio and electrical servicemen. Well constructed of cadmium plated steel and hardwood handles. Designed to stand up under years of regular use. Set includes seven wrenches in a convenient holder. This set will handle the following size nuts: 1/8", 1/4", 3/8", 1/2", 5/8" and 3/4". Weight 3 lbs. P15570 **4.49**



DELUXE CHUCK TYPE "SPINTITE" KIT

Consists of chuck type handle for use with wrench shanks, screwdrivers and reamer. 3/8", 1/2", 5/8", 1 1/2", 2", 3", 4" and 5" wrench shanks; 1/8", 1/4", 3/8", 1/2", 5/8", 3/4", 1", 1 1/4", 1 1/2", 2", 3", 4" screw drivers; 1/2" to 3/4" ream awl; 7" long nose, 5" diagonal cutting pliers and neutralizing alignment wrench. In leatherette roll. P15572—Wt. 3 lbs. **9.98**
P15571—Less pliers and neutralizer. Wt. 2 lbs. **6.09**



RADIO WRENCH SET

Made entirely of high grade steel and finished in white nickel. Case hardened sockets. Hollow handle holds screwdriver socket and five wrench sockets: 1/4", 3/8", 1/2", 5/8", 3/4", 1". Handle and shank are 7 1/2" long. P15593—Shpg. wt. 1/2 lb. **83c**



TOMAHAWK SOCKET WRENCH SET

Handy, compact little set. Excellent quality. Ideal for hard-to-reach places. Consists of 3 1/2" long handle and six hexagon sockets: 1/8", 1/4", 3/8", 1/2", 5/8" and 3/4". Cadmium plated. P15589—Shipping weight 1 lb. **46c**



5-PIECE WRENCH SET

Sampson small open-end wrench set with 10 different openings: 1/4" to 1 1/2" sizes, marked on shank. No duplication of sizes. Made of drop-forged tool steel, treated and hardened for extra strength. Wing-nut fastened for ease in carrying. P14987—Shipping weight 1 lb. **1.32**



NEW! SYLVANIA SOCKET WRENCH KIT

Every serviceman, hobbyist and home owner will want this clever and efficient tool kit. Eight, chrome plated steel, interchangeable sockets from 1/8" to 1 1/2", snap on to a precision-built ratchet handle. It turns both ways with the fingertip selector. 4-inch socket extension for hard-to-reach work. Also has offset and screwdriver with two-way ratchet action and 3 1/2" handle. Supplied complete in a handsome plastic, pocket-size case. Shipping weight 1/2 lb. P15282 **2.50**



PUNCHES, CUTTERS AND STRIPPERS, HAND DRILLS

PIONEER SCREW ACTION SQUARE HOLE PUNCH



New self-aligning chassis punch with die-bearing action. Operates on screw principle for punching power. Takes several full cuts or nibbles to enlarge first square hole to size desired. Cuts square or angular holes. High grade tool steel. Ar. shpg. wt. 10 oz.

P15078— $\frac{1}{4}$ " Square Hole Punch	2.89
P15077— $\frac{3}{8}$ " Square Hole Punch	3.43
P15461— $\frac{1}{2}$ " Square Hole Punch	3.18
P15462— $\frac{3}{4}$ " Square Hole Punch	3.77
P15463—1" Square Hole Punch	3.87

PIONEER KEYED PUNCH

Keyed $1\frac{1}{4}$ " punch for Amphenol type sockets. P15814



PIONEER ROUND CHASSIS PUNCHES

Quickly cuts accurate, round holes in chassis or front panel. An ordinary wrench serves as turning power for the punch. Holes are smooth and perfect, giving a clean commercial look to the job. No reaming or filing necessary. Ar. shpg. wt. $1\frac{1}{2}$ lbs.

Stock No.	Size	Each	Stock No.	Size	Each
P15800	$\frac{1}{8}$ "	\$1.91	P15807	$1\frac{1}{2}$ "	2.25
P15801	$\frac{1}{4}$ "	1.91	P15808	$1\frac{3}{4}$ "	2.25
P15802	$\frac{3}{8}$ "	1.91	P15809	$1\frac{7}{8}$ "	2.25
P15803	$\frac{1}{2}$ "	1.91	P15810	$1\frac{1}{2}$ "	2.25
P15804	$\frac{3}{4}$ "	1.91	P15811	$1\frac{3}{4}$ "	2.25
P15805	1"	2.11	P15812	$1\frac{1}{2}$ "	2.55
P15806	$1\frac{1}{4}$ "	2.25	P15813	$1\frac{1}{2}$ "	2.88

GENERAL PURPOSE STEEL CIRCLE CUTTERS



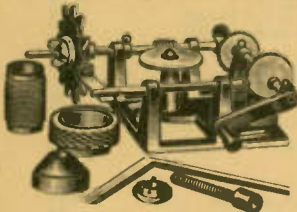
Provides easy, accurate method for cutting clean circular holes in brass, aluminum, steel, wood, bakelite, etc. Use with hand brace or slow speed drill press. Heat-treated steel. Average shpg. wt. $\frac{1}{4}$ lb.

Stock No.	Type	Outs Hole	Shank	Type Work	Cost
P14711	4	$\frac{1}{2}$ to 4"	Round	Medium	1.35
P14713	5	1 to $5\frac{1}{2}$ "	Round	Heavy	1.88
P14715	5	1 to $5\frac{1}{2}$ "	Square	Heavy	1.88
P15089	5	$1\frac{1}{4}$ to 8"	Square	Ex. Heavy	3.88

REPLACEMENT DRILLS, BLADES FOR ABOVE

P14716—Blade for above except P15089 and P14720 45c
 P15070—Blade for use with P15069 66c
 P15068—Drill for use with P15069 49c

DELUXE COIL WINDER WITH ACCESSORIES



Easy-to-use set winds honey-comb, spiderweb and solenoid coils of various widths and diameters — equal in appearance to a factory job. Also suitable for winding chokes, transformers and filter inductors. Indicator counts number of turns on coil. Supplied with accessories including wood spools, metal pegging board and extension for making long solenoid coils. Instructions included, but less coil forms and pegs. Wt. 6 lbs.

P14725 4.95

TAP, DRILL AND DIE SET



Three 1" diameter dies (4-30, 6-32, 8-32) with die stock; three taps (4-30, 6-32, 8-32) and 3 matching tap drills for these taps. With tap holder and mahogany case. P14984—Wt. 3 lbs. 2.70

REPLOGE DRAFTING MACHINE



Cuts drafting time by one-third! Combination 90 angle calibrated scale moves at any angle to any point on the masonite board. Eliminates use of T square, protractor and triangles. Makes drawings up to 16 x 22". Includes steel arms, fittings, rubber feet and $17\frac{1}{2}$ x 23 $\frac{1}{2}$ x $\frac{1}{2}$ " board. P15092—Wt. 8 lbs. 8.50

ALL-PURPOSE HACK SAW



Fits where ordinary hack saws cannot be used. With $7\frac{1}{2}$ " tapering blade. Shpg. wt. 10 oz. P17278 33c
 P17279—Extra blade 15c

HEX AND SPLINE WRENCH KIT



A handy kit containing a complete range of wrench sizes, both hex (Allen) and spline (Bristol) for No. 2 to $\frac{1}{2}$ " screws. Especially useful to radio servicemen. The case is made of durable leatherette with double snap button closure. Shipping weight 8 oz. P15488 1.06

SPEEDX HANDY WIRE STRIPPERS

Fast-acting pocket-size hand tool for stripping insulation easily from all types of wire and cable. Use on ends or center of wire. Will not damage solid or stranded wire. Simple operation. Deluxe models stay open while wire is removed. All blades are interchangeable and easily replaced.



Size	Standard	Each	Deluxe	Each
14-24 wire	P15538	3.87	P15565	4.85
12-20 wire	P15537		P15566	
10-18 wire	P15539		P15567	
300-ohm Twin-Lead	P15587		P15588	

REPLACEMENT BLADES FOR ABOVE

P15596—12 to 20 Wire Size
 P15597—14 to 24 Wire Size
 P15598—10 to 18 Wire Size 88c ea.
 P15599—Parallel No. 18 POSJ
 P15595—For 300 Ohm Line



SPEEDX WIRE STRIPPER KITS

Contains wire stripper and seven different size blades for No. 8 to No. 30 wire. Complete in specially designed permanent steel box. Shipping weight 3 lbs.

P15568—Deluxe Kit With Blades and Automatic Stripper 10.14
 P15569—Standard Kit With Blades and Standard Stripper 9.17



AMP SHEARITE STRIPPER & CUTTER

New model also crimps solderless terminals and connectors. Three tools in one! Cuts and strips wire from sizes 22 to 10. Cuts brass or steel machine screws without damaging threads; sizes 10-24, 10-32, 8-32, 0-32 and 4-40. Has accurately sized stripping notches and threaded cutter holes plus stud size gauge stamped on tool. Hardened steel, shock-proof plastic handle.



P15592 3.95

300 OHM WIRE STRIPPER AND SLITTER

A quick and easy way of stripping and slitting 300 ohm twin lead. Saves time for every TV serviceman on installations. Sturdy, plated for long use. P15468—Weight $\frac{1}{2}$ lb. 64c



QUICK STRIP INSULATION STRIPPER

Strips all types of insulation from solid or stranded wire sizes No. 12 to No. 22, quickly and cleanly. Also has special slot to clean wire. Constructed of high grade hardened steel. P15059 47c

"CAN'T ROLL" CENTER PUNCH

Tempered steel with large square head and knurled grip. $4\frac{1}{2}$ " long; .325" dia. Wt. 1 lb. P14939 12c



STANDARD HAND DRILL WITH HARDWOOD HANDLE

$\frac{1}{2}$ " capacity chuck with 3 spring-controlled centered jaws. $3\frac{3}{4}$ " gear wheel meshed with small gear at 4:1 ratio. Wt. $1\frac{1}{2}$ lbs. P14727—11" Overall Length 1.59



AUTOMATIC PUSH DRILL

For boring small holes in hard or soft wood and soft metals. Multiple toothed spiral and center nut operating mechanism. Chuck has 4 steel jaws to hold drills securely. With 8 drill sizes: $\frac{1}{16}$ ", $\frac{1}{8}$ ", $\frac{3}{16}$ ", $\frac{1}{4}$ ", $\frac{5}{16}$ ", $\frac{3}{8}$ ", $\frac{7}{16}$ " and $1\frac{1}{4}$ ". Index ring gives number and diameter of drill in each handle compartment. Red plastic handle, nickel and aluminum metal parts. $9\frac{3}{4}$ " L. P17184—Shipping Weight 1 lb. 2.85



CHASSIS & CHANGER CRADLE

Steel framework and cork-padded clamps hold chassis or changer at any angle. Adjustable for any size. Complete with standard clamps for grasping vertical surfaces of chassis or changer. Groove in each clamp accommodates flanged-in bottom edge of chassis. P15085—Shpg. wt. 3 lbs. 4.95



SERVICE TWEEZERS

Made of polished nickel-plated spring steel. Handy in shop or laboratory for starting nuts and screws, holding wires, clamping cemented items, installing dial cords, etc. P15484—Self-Closing Type. $6\frac{1}{2}$ " long, with blunt points 53c
 P15485—Heavy-Duty Type, $6\frac{1}{2}$ " long, with slide lock and blunt points 77c
 P15486—Precision Type, $4\frac{1}{2}$ " L, pointed 35c
 P15487—All 3 above in leatherette case. 2.11



G-C INSPECTION MIRROR

A handy, long-handled inspection mirror that makes it possible to see inside remote corners of the chassis, inspect coils, connections and read part numbers. Weight 8 oz. P15322 32c



WE GUARANTEE SATISFACTION AT ALL TIMES



RIDER MANUALS & PUBLICATIONS

RIDER'S SERVICE MANUALS

Authoritative information on all FM and AM receivers, record changers, recorders and tuners from 1930 to the present day. Includes schematics, voltage and resistance readings, alignment procedures, waveforms and parts lists. Postpaid in U.S.A.

Stock No.	Vol.	Pages	Year	Each
P20152	22	1520	'50-'51	17.64
P20151	21	1648	'49-'50	20.58
P20048	20	1776	1949	20.58
P20040	19	2100	'48-'49	22.05
P20039	18	2036	1948	22.05
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RCA RECEIVING TUBE MANUAL

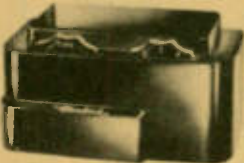
Just off the press, new edition RC16. Bigger and better than ever. Provides complete technical data on more than 480 types of metal and glass receiving tubes as well as television picture tubes. Has new expanded section on theory and operation. Socket diagrams, curves, charts and circuit diagrams. 320 pages.

P19963 — Postpaid in USA **50c**

TELEVISION BOOSTERS



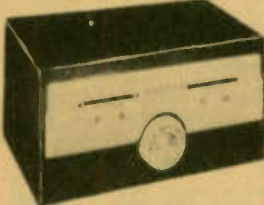
NATIONAL TV BOOSTER
The only booster using turret tuner. Provides extremely high gain and uniform band width on all channels. Uses single 6AK5 for maximum usable gain and selenium rectifier for long life and cool operation. For use with any TV set. Simple, dual purpose operating control. Smart mahogany enamel, modern design cabinet, 7x4x5 1/4" high. Complete with instructions. Shpg. wt. 7 lbs.
P24389—National Model **23.49**
TVB-2



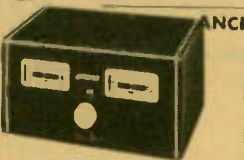
STANDARD TV BOOSTER
Handsomely designed top-flight television tuner features continuous one knob tuning, printed circuits, iron core transformer output and single tube operation. Offers high gain on all channels, low noise factor. Four-purpose switch with fine tuning control for sharper picture or sound reception. Fully shielded, for 300 ohm operation. Housed in attractively styled brown plastic cabinet, 8x4 1/2 x 4 1/4" high. For 117 V., 60 cycle operation. List \$34.95.
P24323—Standard Booster. Shpg. wt. 5 lbs. **NET 20.55**



TV BOOSTER KIT
Build this easy to construct TechMaster booster kit from the simple instructions included, and really save. Kit comes complete with 6AK5 tube, pre-aligned coils, stamped chassis and sturdy cabinet. Finest components are used throughout. The high input coil may be peaked for a desired channel. Thousands of kits now in use. A terrific value.
P24367—Techmaster Kit **9.95**



ANCHOR TV 2-STAGE BOOSTER
Model ARC-101-100. Recommended by national research organization. Incorporates new switching method of tube and circuit components in RF Stage through which maximum gain and band widths are achieved. Single knob control. Two 6AK5 tubes and selenium rectifier. Streamlined plastic escutcheon. Soft mahogany leatherette finish. Illuminated pointer. Measures 4 1/2 x 5 3/4 x 4 3/4". For 108-125 V., 50-60 cycle AC operation. List Price \$49.50. Shpg. wt. 7 lbs.
P24398—Anchor ARC-101-100 **NET 29.10**



ANCHOR SINGLE STAGE BOOSTER
Model ARC 101-75. Similar to above except uses single 6AK5 and selenium rectifier. Increases signal strength approximately three times on all channels. Well suited for low signal areas where interference problems are present. 4 1/2 x 5 3/4 x 4 3/4". List Price \$37.50. Shpg. wt. 6 lbs.
P24438—Anchor ARC 101-75 **NET 22.05**

MASCO SKY-CHIEF TV BOOSTERS



SUPER SKY-CHIEF MODEL
Field tested within 100-mile radius. Eight tuned circuits for well-balanced gradation and good sound amplification. Excellent signal to noise ratio. Uniform high gain on all channels. No matching required. 300 or 75 ohm input. Supplied with twin lead connecting wire. Complete with 4-6J6 tubes and selenium rectifier. Baked hammertone finish, 10x5 1/2 x 5 1/2" high. 117 V., 60 cycle operation. List Price \$75.50.
P24324—Super Sky-Chief. Shpg. wt. 7 lbs. **NET 44.42**



SKY-CHIEF MODEL
A two tube version of the above. Automatically turns itself on or off with set by means of a magnet type relay. Uses two 6J6 tubes and selenium rectifier. Excellent signal to noise ratio, with broad bandwidth. Single control for all channels. 300 or 75 ohm input. Twin lead wire. For 105-125 V., 60 cycle AC operation. Baked mahogany hammertone finished case measures 6 1/2 x 5 3/4 x 5 1/2" high. List \$40.50. Shpg. wt. 7 lbs.
P24350—Sky-Chief **NET 23.85**

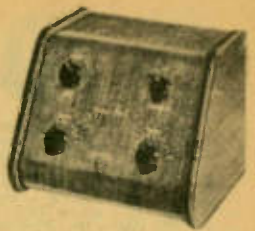


BOGEN TV BOOSTER
Turns on and off as set is operated. Single control covers all channels. Off position disconnects unit but keeps it ready for use without warmup. PP triode provides high gain with broad bandwidth; excellent signal-to-noise ratio. 75 or 300-ohm operation. Has selenium rectifier. With 2-6J6 tubes and twin lead. Mahogany hammertone metal cabinet with tan and ivory trim. 7x4 1/2 x 4 1/4" H. Shpg. wt. 6 lbs. List \$32.50.
P24405—Bogen BB-1 **NET 19.11**
Bogen BB-2. List \$37.00. **NET 21.78**

ASTATIC TV BOOSTERS

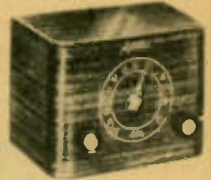
MODEL AT-1

Powerful booster improves TV reception on all channels and brings good results in areas formerly unsatisfactory. Extremely high gain through use of four 6AK5 tubes, equally divided between high and low band circuits. Two tuned and two broad-band circuits provided on all channels. Dual control permits separate tuning for picture and sound with no sacrifice. May be switched in or out of circuit. Handsome mahogany finish cabinet 8 1/4 x 7 1/2 x 6 1/2" high. 115 V., 60 cycle AC operation. List Price \$54.50.
P24395—Model AT-1 Shpg. wt. 6 lbs. **NET 32.04**
P24319—Model AT-1B. Same as above, in blonde finish. **NET 33.22**



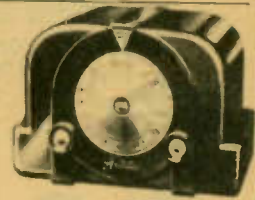
MODEL BT-1

Increases TV signal uniformly on all channels. Uses Mallory Inductuner for continuous variable tuning. Exceptionally high gain on all channels. Single knob control. ON-OFF switch for easy cutting in or out of circuit. 300 or 75-ohm input. Metal cabinet with woodgrain finish. 6 1/2 x 4 3/4 x 4 3/4" H. List \$32.50. With 6AK5 tube and selenium rectifier. Shpg. wt. 5 lbs.
P24379—Model BT-1 **NET 19.10**



MODEL BT-2

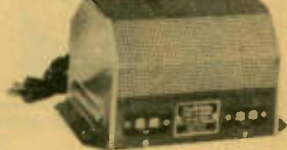
For those who want modern streamlined appearance as well as the ultimate in performance. This new Astatic booster is housed in a handsomely designed dark brown plastic cabinet with an exceptionally beautiful dial treatment. A recessed pilot light shows when the set is on. The circuit is identical to the Model BT-1 described above. Dimensions: 8 3/4" wide, 4 1/2" deep, 5 1/2" high. Shpg. wt. 5 lbs. List \$34.95.
P24380—Model BT-2 **NET 20.55**



ELECTRO-VOICE TV BOOSTERS

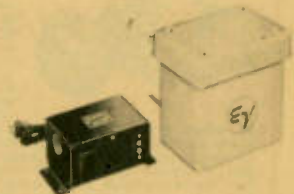
E-V TUNE-O-MATIC

Model 3000. Completely automatic. Requires no extra tuning controls. Adjust your TV set as usual and booster automatically provides desired gain on any channel. Turns on and off with set. With 4-6J6 tubes. Metal case, 7 1/2 x 5 1/4 x 4 3/4". May be mounted inside TV cabinet. 150 or 300-ohm input and output. For 117 V., 60 cycles AC. Shpg. wt. 5 lbs. List \$59.50.
P24322—E-V Tune-O-Matic Model 3000 **NET 34.98**
MODEL 3002. Similar to above except 2 tubes only. P24318—E-V Tune-O-Matic Model 3002 **NET 23.23**



ELECTRO-VOICE TENNA TOP

Mounts on antenna mast. Junction box installed at set separates power from signal voltage. Minimizes local interference, noise and snow. Completely automatic. Uses 2-stage amplifiers in self-tuning circuit (4-6J6 tubes). Uniform high gain on all channels. Booster size: 4 1/2 x 7 1/4 x 4 3/4". Junction box: 6 3/4 x 3 1/2 x 4 1/4". List \$89.50. Shpg. wt. 12 lbs.
P24317—E-V Model 3010 **NET 52.62**



JFD TUCK-AWAY BOOSTER

Single channel booster. Delivers more than 20 db gain with full 6 mc band width. Factory pre-tuned for desired channel. Temperature-compensated thermo-relay power switch operates automatically with set. Wafer-thin construction permits installation out of sight at back of set or on base board or wall. Gold hammertone finished case measures 4 1/2 x 1 3/4 x 4 1/4" high. When ordering specify channel desired. List \$19.95. Shpg. wt. 3 lbs.
P24316—JFD Model VB. **NET 11.73**



GRAYBURNE MODEL TSB-1 TV SIGNAL BOOSTER

Increases video and sound output over 20%. Consists of complete IF stage which easily plugs into any receiver inside the cabinet. Has advantages of external switches and connections. Has advantages of broad band boosters but without separate tuning for each channel. Improves sound quality and is ideal for poor signal areas. Easy to install. Silver plated contact pins. Supplied with instructions. 4" H. excluding tube; bottom dia. 1 1/2"; top dia. 1 1/4". Less tube. Shpg. wt. 2 lbs.
P24315—Grayburne TSB-1 **NET 5.65**



As above but wood mahogany cabinet 7 1/2" x 4 1/2" x 5" H. P24406—Bogen BB-2. List \$37.00. **NET 21.78**

ANTENNA ROTATORS AND MOUNTS

ALLIANCE "TENNA-ROTOR"



Rotates amateur beam and TV antennas directly to signal path. Compact, low cost unit that's easy to install and operate. Provides 360° rotation at 1 RPM. Instant Start-Stop or Reverse at any point. Automatically stops after completion of 360° rotation. Heavy duty AC motor and gear mechanism mounted in waterproof housing. Special clamps attach to masts up to 1 1/2" diameter. Supports up to 20 lbs. System includes Rotor, Remote Control Unit and instructions. Less connecting cable. Shpg. wt. 12 lbs.

P21950 — Model ATR. List \$34.95... **NET 20.55**

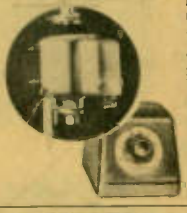
Model DIR — Indicator "Tenna-Rotor". As above, but with Direction Indicator on control box to show instantaneous antenna position. **26.43**

P21952 — List \$44.95... **NET**

P16064 — 4-Conductor Flat Cable for all Alliance "Tenna-Rotors"..... Per ft. 3c

P21953 — Thrust Bearing Bracket for all Alliance "Tenna-Rotors". Handles heaviest antennas to 200 lbs. 2.94

ALLIANCE DE-LUXE "TENNA-ROTOR"



Model MIR — Remote control, de-luxe automatic antenna rotator, which requires only the setting of a pointer on the indicator dial. Antenna turns and stops at exact point set. "Mystic" light moves along dial, showing position while antenna rotates. Heavy duty AC motor, instantly reversible, 1 RPM, lifetime lubrication — rotates through 360°. Moisture sealed rotor mechanism; stainless steel bearing inset. Simple to install — requires no orientation. Completely accessible connections on control box. Uses 4-conductor cable. For 110 volts 60 cycles AC only. Rotates 20 lbs. — up to 200 lbs. with special thrust bearing described above. 14 lbs. List \$44.95

P21912 — De-Luxe Model MIR. **26.43**

AMPHENOL AUTO-DIAL ANTENNA ROTATOR



"With 100 ft. 3-Conductor Control Cable"

Precision control of antenna direction. Designed for greater power and higher torque than usually available in reversible motors by use of new uni-directional motor. To prevent snarled or twisted lines, signal energy transferred through no-loss silver contacts and slip rings within waterproof steel shell. Positive braking action — no backlash or coasting. In-line mounting of both antenna and supporting mast offsets any unbalanced weight condition. All gears and bearings are of precision tooled steel. Attractive, versatile control box features dual-pilot light, logging pad, compass points, and rubber feet to protect your fine furniture. Audible clicks announce each of the sixty, six degree steps as your antenna makes one complete rotation. 115V AC operation. Shpg. wt. 15 lbs. List \$59.75

P21997 — Model 509 Rotator **35.13**

DUMONT MODEL T3C1 INPUTUNER



Covers standard FM broadcast band (88 to 108 mc) as well as all TV channels (2 to 13). Highly selective and sensitive. Ideal for modernization of dual-channel type television receivers. For circuits using 21.25 MC sound IF and 26.75 MC video IF (direct replacement for most switch-type tuners now in use including all RCA 650 chassis). "Quick location" detent mechanism for TV switching. Incorporates antenna tuning plus the new, unique 3-gang Mallory Inductuner, which reduces tuning motion to any channel from maximum of six to four turns. No loss of bandspread on high frequency channels. Sound i-f system of TV set is employed as the FM receiver. Mechanically interchangeable with all tuner types it is designed to replace. "Push-on" dial and tuning knob assembly provide true single control station selector action. TV channels are indicated on large dial. FM calibration in maximum of any position with the turn of a bolt. Patented tongue gives firm support for masts 3/4" to 1 1/2". Shipping weight 2 pounds.

P22900 — Penn BMA-136... **2.09**

P22902 — Cast aluminum peak roof mount with a patented bearing to adjust and lock at any angle and to any pitch of roof peak. Patented tongue for firm support to masts from 3/4" to 2". Special alloy for extra strength. Shpg. wt. 2 pounds. **3.09**

PRA-150 — Similar to above but larger and stronger to support masts from 3/4" to 2". **4.09**

P22901

GUY WIRE RING AND COLLAR

GRA-140 — Cast aluminum floating guy wire ring and collar that will permit permanent fastening of guy wires, yet permit complete orientation of the mast. Will fit masts up to 1 1/2". Shpg. Wt. 1 lb. **1.06**

P22903

GRA-141 — Same as above but will take masts up to 1 3/4". **1.12**

P22904

PENN CAST ALUMINUM MOUNTS



Heavy cast aluminum universal roof mount of special alloy for extra strength. The patented bearing permits locking in any position with the turn of a bolt. Patented tongue gives firm support for masts 3/4" to 1 1/2". Shipping weight 2 pounds.

UNIVERSAL PEAK MOUNTS



PRA-148 — Cast aluminum peak roof mount with a patented bearing to adjust and lock at any angle and to any pitch of roof peak. Patented tongue for firm support to masts from 3/4" to 2". Special alloy for extra strength. Shpg. wt. 2 pounds. **3.09**

P22902

PRA-150 — Similar to above but larger and stronger to support masts from 3/4" to 2". **4.09**

P22901

GUY WIRE RING AND COLLAR



GRA-140 — Cast aluminum floating guy wire ring and collar that will permit permanent fastening of guy wires, yet permit complete orientation of the mast. Will fit masts up to 1 1/2". Shpg. Wt. 1 lb. **1.06**

P22903

GRA-141 — Same as above but will take masts up to 1 3/4". **1.12**

P22904

C-D TELE-ROTOR



Powerful — handles up to 150 pound loads and masts 3/4" to 2" in diameter. Heavy duty motor and precision steel gears — reverses instantly, positive stop at end of rotation. Moves on twelve heavy duty ball bearings in two 8 1/2" diameter races. Streamlined, completely weather-proof housing, factory lubricated for life. Compass type control box with fingertip control gives instant indication of antenna position, shown on illuminated dial face. All-purpose design for mast, tower or platform mounting 110V., 60 cycle AC. With compass type control box. Shpg. wt. 15 lbs. List \$40.95

P21914 — Model TR2 TELE-ROTOR... **NET 29.37**

P16058 — ATX-8, 8 Conductor Cable for above. Per ft. 8c

C-D TELE-ROTOR CUB

The fastest, easiest rotator to install with finger-tip control of mast arrays, including double-stacks. Takes as much as 20 lbs. Features true in-line thrust between antenna and mast—the 3/4" steel shaft rotates on a case hardened steel ball. In-line reamed oilless bearings keep the shaft in perfect alignment and assure smooth, trouble-free rotation. Control cabinet has compass type indicating motor for "hairline" tuning. Easily accessible terminal board. 110V AC. Shpg. wt. 12 lbs.

Complete with indicator type control box. List \$44.95.

P21899 — Model 502B... **NET 26.43**

5 conductor cable for above.

P16059..... Per ft. 4 1/2c

C-D TELE-ROTOR SUPERSTRUCTURE

A vital accessory when above rotators are attached to multiple-stacks and abnormally heavy antennas. Carefully engineered to offer maximum support for "extraordinary" installations beyond normal double-stacked TV antennas. Fits any mast up to 2 inches OD. Quickly installed with the Tele-Rotor, the top floating collar allows smooth rotation of the upper mast. Complete with 3 guy wire thimbles. Absolutely weatherproof, will not freeze up.

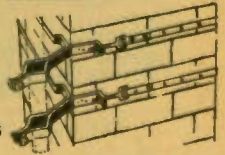
P22780 — Model TA3. Shpg. wt. 10 lbs. **NET 11.73**

ICA ALL-POSITION MAST MOUNT

Adjusts to any position on roof, wall or corner. Mast fastens to mount before installation. Heavy gauge cast-inuminum plated steel. Pre-assembled, except braces. For masts up to 1 1/2" dia. 8" offset.

P22794 — Shpg. wt. 5 lbs. **4.73**

CHIMNEY AND WALL MOUNTS



Adjustable mounting brackets to fit any chimney. Can be installed without tools in 5 to 10 minutes. Over 30,000 pounds tensile strength. Complete with strapping.

(A) Made of corrosion-resistant alloy. **3.30**

P21940 — Shpg. Wt. 4 lbs.

(B) Made of heavy plated steel. **1.45**

P22046 — Shpg. Wt. 3 lbs.

STEEL WALL MOUNT

This wall mount holds poles from 1" to 1 1/2" in diameter, and provides a 6-inch clearance between the mast and the wall. Heavily plated steel construction. The wall mount is supplied complete with all necessary instructions and the hardware required to mount it. Shipping weight 3 pounds.

P21942..... **98c**

LARGE STEEL MAST MOUNT

This is one of the finest antenna mast mounts made today. It is entirely constructed of heavy galvanized steel and will provide a clearance of twelve and one-half inches from the mast to the wall. It will hold a mast ranging from one inch to one and one-half inches in diameter. This wall mount is supplied complete with all instructions for mounting and the necessary hardware. Shpg. Wt. 3 lbs.

P21943..... **1.95**

CHIMNEY MOUNT MT-408

Single strap chimney mount. Easily installed in a matter of minutes by one man! Sturdily constructed of heavy gauge material. Provides 4 inch clearance from chimney. Shpg. wt. 6 lbs.

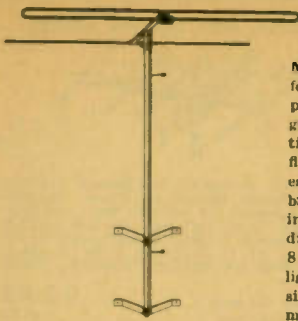
P22781 — MT408 mount... **2.19**

MAST GUY CLAMP

The mast guy clamp is practically a must for all television installers and repairmen. Has 6 curving points. A handy thing to keep in the tool kit for emergencies. Will accommodate masts up to one and one-half inches in diameter. Shpg. Wt. 1/2 lb.

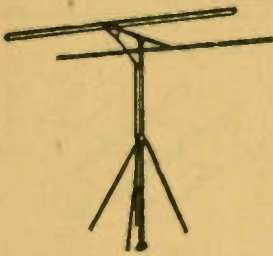
P22782 — Model SRG-01... **21c**

FM AND AUTOMOBILE ANTENNAS



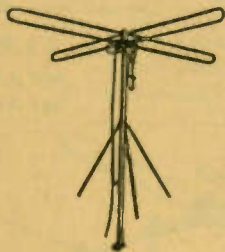
RCA FOLDED DI-POLE ANTENNA AND REFLECTOR

MODEL 229A1. Specially designed for FM receivers with 300-ohm inputs Built for high gain, resulting in greater distant reception of FM stations. This antenna gives unusually flat signal response, with the strongest signals received from a direction broadside to the antenna—minimizing interference from the opposite direction. Uni-directional. Covers the 88-108 megacycle wave ratio. Sturdy, lightweight aluminum construction resists wear and damage. Supplied less mast. List \$7.50. Wt. 5 lbs.
P21816—RCA 229A1 . . . 4.41



AMPHENOL FOLDED DIPOLE AND REFLECTOR

Ideal for suburban and long distance, wide band, trouble free reception from all directions. Two matched folded dipoles form a circular radiation pattern. Quarter-wave phasing stub. Special rigid low-loss insulators prevent loss of signal. A swivel bracket permits installation on flat or peaked roofs. Supplied with 75 ft. 300 ohm twin-lead line and complete installation instructions.
 Shpg. wt. 5 lbs.
P21998—Amphenol . . . 9.55

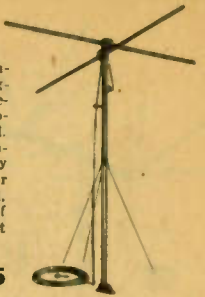


AMPHENOL DOUBLE FOLDED DIPOLE

Receive FM from all directions. Does not require rotation and will give crystal clear reception over the entire FM band. Quarter phasing stub. Two folded dipoles are matched to give a complete circular radiation pattern. Sturdy lightweight aluminum construction resists wear and damage. Special swivel mounting permits installation of antenna on flat or sloping roofs. Supplied complete with 75 ft. of 300 ohm twin-lead line and installation instructions. Shpg. wt. 5 lbs.
P21998—Amphenol 9.55

BELDEN FM POLLY-POINT ANTENNA

Double-folded dipole that provides an essentially circular radiation pattern. It receives signals from all directions without turning. Carefully matched quarter wave phasing stub provides high efficiency over the entire FM band. Strong lightweight aluminum construction withstands severe ice loading and high winds. Easy to install. Special adjustable mounting base for flat or sloping surfaces. Factory assembled, ready for mounting. Complete with 65-feet of Belden 300 ohm Transmission line, 5 ft. mast and 4 three-inch Standoff Insulators.
 Shpg. wt. 5 lbs.
P21815—Belden Model 8322 7.35



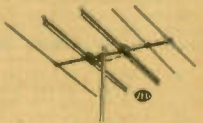
FLEXIBLE FM DIPOLE

Two folded dipole elements spliced to 300 ohm twin lead line. Flattened end insulators permit use indoors under carpet, on room molding, etc. Line loss only .85 db per 100 ft. at 100 mc.
 Shpg. wt. 1 lb.
P22038 1.64



JFD FM "YAGI" ANTENNA

A scientifically designed and engineered antenna with a five element array. Performs well in fringe areas and wherever poor reception is encountered. Highly directional and extremely efficient. Sturdy aluminum construction resists wear and damage.
 List Price \$22.00
P22778—JFD Model FA210 12.94



TACO TRANSFORMER FOR FM ANTENNA

Permits use of FM antenna on either FM or AM without switching. Matches either band to antenna.
P5968—Shpg. wt. 1 1/2 lbs. 1.85



SEE PAGE 59 FOR FM WAVETRAPS AND FILTERS

AUTOMOBILE ANTENNAS

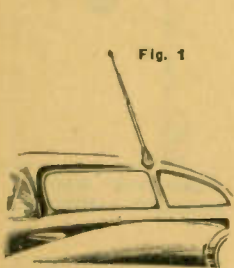


Fig. 1



Fig. 2



Fig. 3

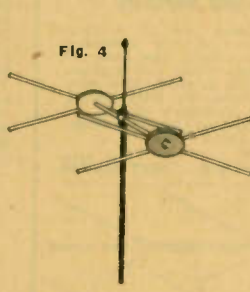


Fig. 4



Fig. 5

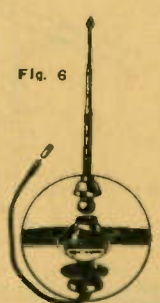


Fig. 6

WINDSHIELD ANTENNA RODS

Fig. 1. For Buicks, Fords and other cars using similar windshield type mount antennas. Handsome tripple chrome plate, durable Admiralty brass for lasting service. Buick type, 3-section, extends to 36 inches. Ford type, 2-section, extends to 54 inches.
 Shpg. wt. 1 lb.
P21997—For Buicks 1.50
P21967—For Fords 1.50

STANDARD SIDE COWL ANTENNA

Fig. 2. 4-section telescopic side cowl antenna for late model streamlined cars as well as older types. Extends from 36 to 100 inches. Rattle-proof construction. Admiralty brass, equipped with 36-inch, high "Q" insulated shielded loom. Requires two holes for mounting. Shpg. wt. 1 1/2 lbs.
P22001 3.23
 3-section version of the above. Extends from 29 to 63 inches. Shpg. wt. 1 lb.
P22000 1.79

EXTENSION LEADS

For adding needed length. Shield leads.
P22858—18-inch extension 60¢
P22859—24-inch extension 83¢

"SPEEDEE" FENDER & COWL ANTENNA

Fig. 3. Three "Speedee" steps and this exceptional antenna is mounted. Simply insert, set and secure on fender or cowl. Chrome-plated brass; rustproof and rattle-proof. Equipped with Delco and Motorola fittings. 36" weather-proof, shielded loom cable. Three sections, extends to 60 inches. Noise free reception. Shpg. wt. 1 1/2 lbs.
P22854 2.97

"AUTO-CON" AUTO AERIAL BOOSTER

Fig. 4. Miniature conical-type auxiliary auto aerial, quickly attached to your present aerial. Perks up appearance of car and adds about 50 inches of additional antenna to give you studio clearness even at great distances from broadcast stations. Polished chrome-plated Admiralty brass with red fluorescent plastic ornaments. Shpg. wt. 1 lb.
P22850 1.47

DISAPPEARING AUTO ANTENNA

Fig. 5. Antenna collapses until only 5 inches are exposed. Extends to 56 inches. Swivel base permits easy adjustment in wide range of angle mounts to fit any model car. Designed to match car contour. Shpg. wt 1 1/2 lbs.
P22851 3.45

FENDER OR COWL MOUNT ANTENNA

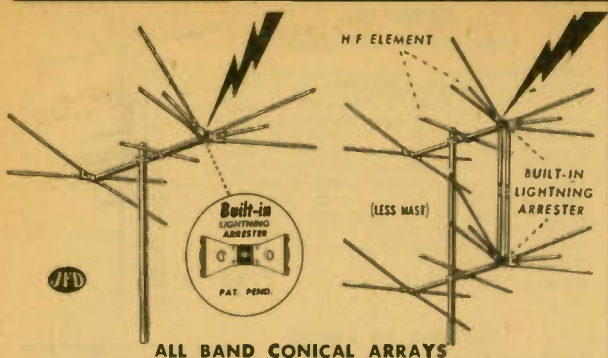
Fig. 6. Variable angle mounting fits fender or cowl of any car. Especially designed for newest streamlined models. Easy installation. Hi-Q, low-loss 36-inch long cable; polyethylene insulation with vinylite jacket.
 Shpg. wt. 1 1/2 lbs.
P22852—3-section. Extends to 62" 2.97
P22853—2 section. Extends to 40" 2.40

REPLACEMENT ANTENNA LEADS

Shielded leads for all auto antennas. For single station and all side mount cowl antennas except Stock Number P22001. 36" long.
P22855 75¢
P22856—For No. 22001 Side Cowl Antenna, 36" 75¢
P22857—For all fender & cowl mounts, 48" 88¢

INQUIRIES WELCOMED ON ITEMS NOT IN CATALOG

JFD TELEVISION ANTENNAS



ALL BAND CONICAL ARRAYS

(A) TA160. Fine biconical all band array for excellent broadband and high gain response on all TV channels and FM. Features separate high frequency elements. Lightweight all aluminum construction; non-corrosive. Sturdy 1/2" diameter tubing. Designed for 20° broadside tuning angle and high front-to-back ratio on all frequencies. Low standing wave ratio permits direct coupling to 72, 150 or 300-ohm transmission line with maximum energy transfer. Element bracket securely grips 3 dipoles and reflectors, and comes partially pre-assembled for speedy installation. New cross-arm clamp pipes 4-point support to cross-arm and mast; permits easy counterbalancing for antenna rotors. Less mast. List \$14.65.

P21828—JFD Model TA160. Shpg wt. 6 1/2 lbs. NET **8.61**
 C660—All-aluminum antenna similar to above, less separate high-frequency elements. Smaller diameter elements. 5 1/2 lbs. List \$10.10
 P22761—JFD Model C660. NET **5.94**

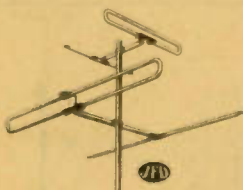
(B) TA161. Double stacking of TA160 high-frequency TV array for exceptionally high db gain. Especially designed for fringe area operation. Conical arrangement minimizes noise interference, reduces multi-path reflections and prevents picture fading. 20° broadside reducing angle. In addition of TA160 features described above, this unit includes a 1/4 wavelength aluminum jumper bar. Elements are all 1/4" diameter. Separate high frequency elements included. Less mast. List \$30.70.

P21830—JFD Model TA161. Shpg. wt. 11 1/4 lbs. NET **18.05**
 C661—All-aluminum antenna similar to above, less separate high-frequency elements. Smaller diameter elements. List \$21.30.
 P22762—JFD Model C661. NET **12.52**

TA164. Double stacking of TA161 arrays for unsurpassed db gain; pulls in weakest signals at great distance from TV stations. 1/4 wavelength stacked bays; 1/4 wavelength stacked sections. All elements are 1/4" diameter. Equipment includes dipole and reflector brackets, crossarm clamps, jumper harness and aluminum jumper bars. Separate high frequency elements. Less Mast. List \$64.90.

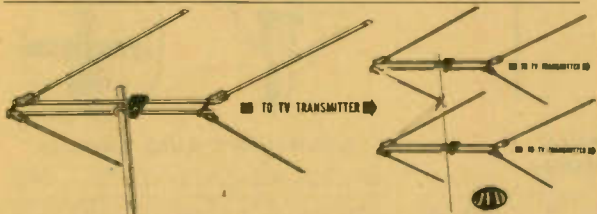
P21831—JFD Model TA164. Shpg wt. 25 lbs. NET **38.15**

MODEL PL-5 PLUG-IN DUO-ORIENTING HIGH-LOW FOLDED DIPOLES



Here's a great new TV antenna that comes completely assembled from top to bottom. Just push the elements into place and tighten, for immediate assembly in a matter of moments. No tools needed. Sturdy 1/2" aluminum tubing. All channel reception. Less Mast. Shpg. wt. 10 lbs. List \$11.40.

P22754—JFD Model PL-5 . . . NET **6.70**

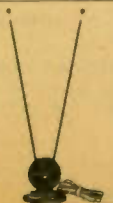


"VEE-BEAM" ALL-BAND TV ARRAYS

High gain and sharp directivity—up to 10 db gain. Plug-in elements for lightning quick installations. Combines all modern TV antenna features for maximum signal pickup with minimum noise, interference and reflections. Single stack gain to 10 db, 7 db on upper channels; double stack gain to 11 db. 3/4" O.D. aircraft aluminum alloy tubing. Tight wing-nut assembly, no tools required. Heavy U-bolts for clamping to masts up to 1 1/2" diameter. Supplied less mast. Shpg. wt. 4 lbs.

P22755—JFD Single Vee Beam. List \$9.65 NET **5.65**
 P22756—JFD Double Vee Beam. List \$23.70. NET **13.94**

INDOOR TV-FM ANTENNA

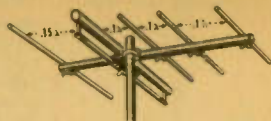


MODEL TA135—This sturdy, absolutely tip-proof indoor TV-FM antenna has a weighted base of satin-finish mahogany plastic to match the finest furniture. All-channel reception with 3-section, triple-chrome plated brass telescopic dipoles. Complete with 300-ohm twin lead. Ratchet holds elements in place. Shpg. wt. 5 lbs. List \$6.05.

P21833—JFD Model TA135. Shpg. wt. 1 1/4 lbs. NET **4.09**

YAGI ANTENNAS FOR FRINGE AND REMOTE AREAS

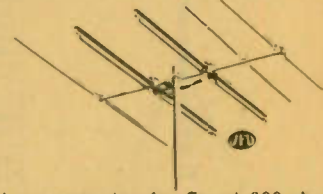
A remarkably effective TV antenna for fringe and poor signal areas. Brings in signals impossible to get otherwise! These 5-element Yagis, custom-cut for each individual channel from 2 to 13, provide a forward gain of approximately 14 db on high bands, and 7 to 8 db on low bands. High front-to-back ratio rejects co-channel interference. Matches 300 ohm line. Rugged corrosion-resistant aircraft aluminum. Collector element and crossarm of 1" OD aluminum for strength and durability. Completely pre-assembled. Just swing "Quik-Rig" elements into position and tighten wing nuts for instant assembly. Jumper harness available for stacking of bays where necessary. Shpg. wt: Channels 2-5, 3 lbs.; 6 and 7, 5 lbs.; 8-13, 2 lbs. Less mast. ORDER BY STOCK NUMBER, SPECIFY CHANNEL.



P22757—JFD 5-Element Yagi. For channels 2, 3, 4. NET **10.35**
 P22763—JFD 5-Element Yagi. For channel 5. NET **8.79**
 P22764—JFD 5-Element Yagi. For channel 6. NET **9.32**
 P22758—JFD 5-Element Yagi. For channels 7 thru 13. NET **6.59**
 P22759—JFD Jumper Harness. For channels 2 thru 6 (specify) NET **2.08**
 P22760—JFD Jumper Harness. For channels 7 thru 13 (specify) NET **8.66**

NEW! TWO-CHANNEL YAGI ANTENNAS

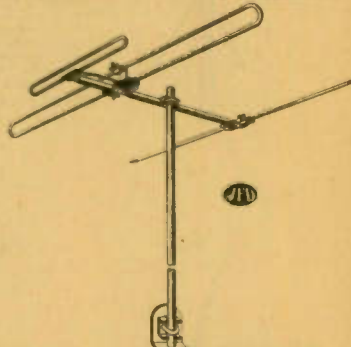
Yes! ONE 5-Element YAGI for TWO CHANNELS (4-5, 7-9, or 12-13), specifically designed for the most important reception areas across the country. Delivers up to 10 db gain—the equal of any two individual Yagis. 5 element beam really 10 points distant stations. Matched, twin-driven high impedance collectors. Pre-assembled "Quik-Rig" design. Durable all aluminum construction. Special coupling between collectors for maximum energy transfer. Correct 300 ohm impedance match. Can be stacked for extra gain. Less mast. Shpg. wts.: Channels 4 & 5, 8 lbs.; 7 & 9, 4 lbs.; 12 & 13, 2 lbs.



P22765—JFD 5Y45, 5 element Yagi, Channels 4 and 5. List \$22.00 NET **12.94**
 P22766—JFD 5Y79, 5 element Yagi, Channels 7 and 9. List \$11.60 NET **6.76**
 P2767—JFD 5Y1213, 5 element Yagi, Channels 12 and 13. List \$11.60 NET **6.76**

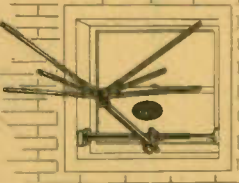
IN-LINE PLUG-IN TV ARRAYS

Plug in the elements, tighten the wing nuts, and this marvelous new In-Line TV antenna is assembled. Ruggedly constructed of 1/2" O.D. tubing. Aircraft aluminum elements and cross arms. No rivets, no holes, no screws to weaken elements. High front-to-back and front-to-side gain ratio on all channels; TV and FM. Stacked In-Line includes aluminum jumper bars. Less mast. Shpg. wt. 12 lbs.



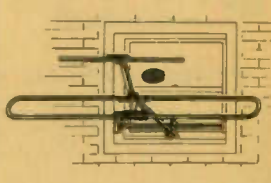
P22762—JFD PL-150. List \$12.85 NET **7.26**
 P22763—JFD PL-151. Stacked. List \$26.50. NET **15.58**

"QUIK-RIG" CONICAL WINDOW ANTENNA



Ideal for locations where roof antennas are prohibited. 4 full-sized conical elements, plus 2 high frequency dipoles, deliver powerful all-channel performance. Installs simply and swiftly by placing ends of base against window frame and tightening wing nuts. Easily adjustable base spans up to 44 inches to fit most wood or casement window frames. Durable, constructed of lightweight, weather-resistant seamless aluminum elements. Direct match to 72, 150 or 300 ohm lead-in. Adjustable in all directions for maximum signal pick-up. Shpg. wt. 3 lbs. List \$12.35.
 P22768—JFD No. Q119 NET **7.26**

"QUIK-RIG" HI-LO WINDOW ANTENNA

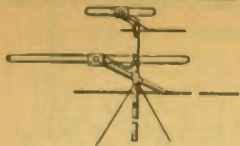


A highly directive array for locations where roof antennas cannot be installed. Uniquely engineered—straight-high folded-low dipole design for powerful reception on all 12 channels. Designed to twist, fold, bend or turn in any direction for maximum signal pick-up. High band dipoles adjustable to V-cone shape for extra gain. Instantly installed, just set in place and tighten wing nuts. Base extends to 44 inches to fit most window frames. Durable, corrosion-proof seamless aluminum elements. Will match 72, 150 or 300 ohm lead-in. Shpg. wt. 3 lbs. List \$12.35.
 P22768—No. C120 NET **7.26**

EXTENSION BARS FOR WINDOW ANTENNAS

P22761—No. EX119. Extension for 5-foot windows. NET **1.47**
 P22769—No. EX30. Extension for 8-foot windows. NET **2.08**

FINE QUALITY TELEVISION ANTENNAS

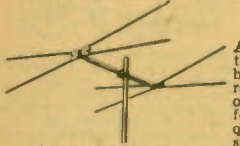


TRUTEST HI-LO ALL CHANNEL

An excellently designed 2-band array TV antenna with matched, separate folded dipole and reflector for high and low bands. Receives all channels plus FM band with good response. Range on low frequency array: 44-108 mc; 174-220 mc on high frequency array. Average gain above tuned dipole, 2.5 db on low band maximum signal strength. Strong construction. Supplied less mast. Shpg. wt. 8 lbs.

and 1.5 db on high band. Each unit can be rotated independently for maximum signal strength. Strong construction. Supplied less mast. Shpg. wt. 8 lbs.

P22770 **4.15**

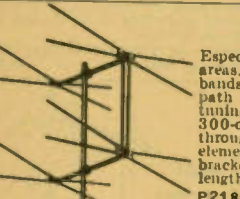


TRUTEST ALL-BAND CONICAL

A low cost conical antenna with good front-to-back ratio on all TV channels. 20° broadside tuning angle. Low standing wave ratio permits direct coupling to 72, 150 or 300-ohm transmission line. Fast rig feature and rapid assembly design assure quick, easy installation. Ruggedly constructed, heavy-gauge crossarms and electrical elements. Extra rigidity obtained with new crossarm clamp. Supplied less mast.

ment brackets with aluminum elements. Extra rigidity obtained with new crossarm clamp. Supplied less mast.

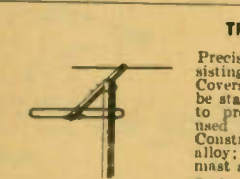
P21860—Shpg. wt. 7½ lbs. **3.95**



TRUTEST STACKED CONICAL

Especially adaptable to fringe and weak signal areas. Provides high db gain on low and high bands. Conical design cuts down fading, multipath reflection and noise. Has 20° broadside tuning angle. Direct coupling to 72, 150 or 300-ohm transmission lines made possible through low standing wave ratio. Aluminum elements, corrosion-resistant crossarms and brackets of fast rig design. Includes ¼ wavelength jumper bar. Less mast.

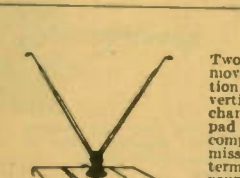
P21861—Shpg. wt. 13 lbs. **8.45**



TRUTEST HIGH BAND ADAPTOR

Precision engineered high frequency array consisting of a folded dipole, reflector and mast. Covers TV channels 7-13 (174-220 mc). Can be stacked with your present low band antenna to provide improved all-channel coverage, or used independently as a high band antenna. Constructed of durable tempered aluminum alloy; resists corrosion. Supplied with a 15" mast and clamp to attach to your present mast.

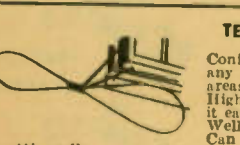
P21994—Shpg. wt. 4 lbs. **1.85**



TRUTEST INDOOR ANTENNA

Two, 3-section dipoles mounted in a free-moving swivel base for multi-channel reception. Each element telescopes and pivots in vertical plane to assure best signal on any channel. Sturdy construction. Has felt base pad to prevent marring of furniture. Supplied complete with a length of 300-ohm transmission line for connection to the antenna terminals. Easily and quickly attached to your TV set.

P21978—Shpg. wt. 2 lbs. **2.25**

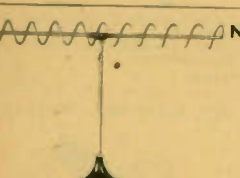


TELREX TV WINDOW ANTENNA

Conical-V beam antenna easily mounted on any window sill. Designed for primary signal areas where roof antennas are prohibited. Highly concentrated reception lobes make it easier to minimize ghosts due to reflections. Well constructed of high quality materials. Can also be mounted indoors, in closets or

on attic walls.

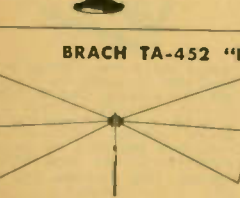
P21862—Shpg. wt. 2 lbs. **1.59**



NEW HI-LO TV SPIRAL ANTENNA

For superior indoor reception on all channels. Aluminum bars anodized in gleaming gold and mounted on a stable bakelite base. Tuned to high and low TV channels. No switches or rods to adjust. High signal gain, 20" high, 32" wide. Fast, simple installation. Shpg. wt. 2 lbs.

P22771—Hi-Lo Model 101 Antenna... **5.85**



BRACH TA-452 "BOW-TIE" V ANTENNA

Closed circuit V construction in which three antenna rods of the same electrical length are attached to each side of a non-hygroscopic insulator. The ends are joined by shorting bars. No directors or reflectors required. Shorting bars raise the gain of the antenna. Seamless tubing and a high impact insulator used. Can withstand high winds and ice loading. The complete antenna can be assembled in less than one minute. Shpg. wt. 6½ lbs.

P22772—Brach TA-452 "Bow-Tie" V Antenna... **5.34**

Same as above except stacked array. Shpg. wt. 11½ lbs. P22773—Brach TA-453 **11.45**

AMPHENOL BROADBAND TV ANTENNAS

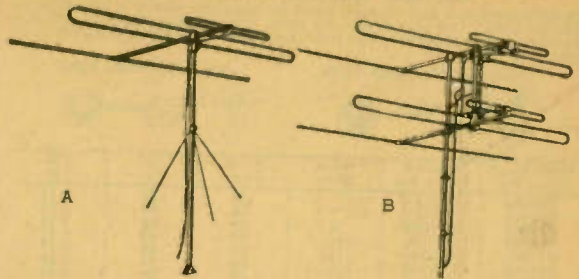


Fig. A. Provide higher, more uniform gain and broader response on all channels. Give excellent picture brightness and assure the best TV enjoyment. Single direction radiation pattern throughout entire TV spectrum. High front-to-back and front-to-side ratios. Matches 300-ohm input. All aluminum construction except for heavy, rust-resisting mast. With swivel mounting plate, guy clamp, standoff insulators. Less twin-lead. Shpg. wt. 9 lbs.

P21817—Amphenol 114-009. List \$17.00 **NET 10.00**

AMPHENOL TWO-BAY ANTENNA

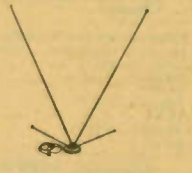
Fig. B. Provides added high forward directive gain and a single directional pattern over both upper and lower TV channels. High front-to-back and front-to-side ratios. Efficient operation on all channels. Strong aluminum and aluminum alloy construction with rust-resistant steel mast. Complete with top and bottom bay connecting rods and two 5-ft lengths of 1¼" mast. Without lead-in. Shpg. wt. 17 lbs. List \$25.00.

P21818—Amphenol Model 114-302 Antenna **NET 20.58**

AMPHENOL "TELESTAR" INDOOR TV ANTENNA

Unique, all-channel indoor TV antenna. Lightweight aluminum rods are cut to pre-tuned lengths. Long rods for low band, short rods for high band. Low-loss polystyrene base is weighted against tipping and has rubber feet to protect furniture. Supplied with five feet of natural color polyethylene 300-ohm twin lead. Shpg. wt. 4 lbs. List \$4.95.

P21819—NET **2.91**



ICA ALL CHANNEL INDOOR TV ANTENNA

An inexpensive antenna that can be placed under carpet or other convenient location. Flexible folded dipole elements fixed to 10 feet of standard 300-ohm twin lead. Polyethylene insulation. Shpg. wt. 4 lbs.

P21984—ICA No. 6012 Antenna **2.03**

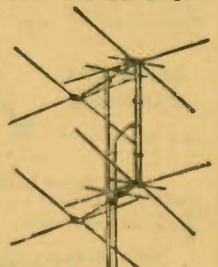


ICA "BI-CON" TELEVISION ANTENNAS

TYPE 6481 STACKED "BI-CON"

All channel, all metal TV antenna array gives greater overall gain and stable impedance over entire range. Minimizes ghosts and gives better, brighter pictures with less snow. Uni-directional with effective front-to-back ratio. Includes conical beam array, a stacked high band dipole array and separate high and low frequency dipole reflectors. Heavy duty ¼" aluminum tubing used for all antenna elements. Designed for use with either, 72, 150 or 300-ohm line. Pre-assembled for fast, easy installation; soldering eliminated. With instructions. Less mast and transmission line. Shpg. wt. 15 lbs.

P22774—IOA 6481 Stacked "Bi-Con".... **21.23**



TYPE 6472 SINGLE "BI-CON" ANTENNA

Same as Model 6481 described above except single high and low band elements. Less mast and transmission line. Shpg. wt. 6 lbs.

P22775—IOA Type 6472 Single "Bi-Con" Antenna **9.80**

TYPE 6550 PHASING SECTION

For stacking two Type 6481 "Bi-Con" antennas to make a quadruple array. Includes four phasing rods, 2 spacing insulators and a center harness insulator. Shpg. wt. 2 lbs.

P22776—IOA Type 6550 Phasing Section Kit **5.88**

TRUTEST 300-OHM TRANSMISSION LINE

For connecting antenna to set. Polyethylene insulation.

P17140 Per Ft. **3¢**
Per 100 Ft. **2.35**

HEAVY DUTY 300-OHM LINE

Extra high quality. Heavier gauge wire and thicker insulation.

P17142 Per Ft. **3½¢**
Per 100 Ft. **2.95**

NOTE: See wire pages for other television cables.

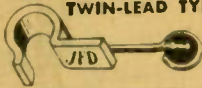
COMPLETE TEST EQUIPMENT FOR ALL YOUR SERVICING NEEDS

JFD TV-FM ANTENNA ACCESSORIES

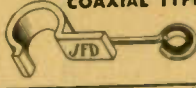
"CLIP-ON" STANDOFF INSULATORS

These economical and effective stand-off insulators attach to the mast instantly. Click! and they're on—for good. Heavy gauge corrosion resistant steel with low-loss polyethylene inserts keep lead or cable well anchored at all times. 3 1/2" long.

TWIN-LEAD TYPE



COAXIAL TYPE



Twin Lead Stock No.	Coaxial Stock No.	Mast Size	Price Each	10 For	100 For
P16992	P17041	1"	.06	.54	5.13
P16996	P17042	1 1/8"	.06	.54	5.13
P16993	P17043	1 1/4"	.07	.65	5.17
P16997	P17044	1 3/8"	.07	.65	5.17
P16989	P17046	1 3/4"	.08	.70	6.65
P16988	P17046	1 3/4"	.08	.70	6.65
P16987	P17047	1 7/8"	.08	.70	6.65
P16986	P17048	2"	.08	.70	6.65
P16984	P17049	2"	.09	.75	7.12

*1' EMT Conduit.



DOUBLE CLIP-ON INSULATOR FOR DUAL TWIN-LEAD

Stock No.	Mast Size	Each	10 For	50 For
P17009	1"	.12	1.08	5.13
P17010	1 1/8"	.12	1.08	5.13
P17011	1 1/4"	.15	1.35	6.41
P17012	1 3/8"	.16	1.35	6.41
P17013	1 3/4"	.16	1.46	6.94

COAXIAL STAND-OFF



Single screw eye for coaxial cable up to 1/2" diameter. Anchors cable lines securely. P16959—3 1/2" Ea. 3¢
10 for 25
P16991—5 1/2" Ea. 5¢
10 for 45
P16961—7 1/2" Ea. 5¢
10 for 54

DOUBLE SCREW EYE STAND-OFFS



Weather resistant polyethylene inserts keep lead-in lines 6" apart. P21860—3" Ea. 14¢
10 for 1.26
P21852—7 1/2" Ea. 17¢
10 for 1.53

ADJUSTABLE STAND-OFFS

Fit any size mast.

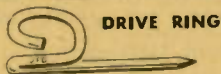


FOR TWIN LEAD

P16927—UT350, 3 1/2" Ea. 11¢
10 for 99¢
P16928—UT750, 7 1/2" Ea. 15¢
10 for 1.35

FOR COAXIAL CABLE

P16929—UR350, 3 1/2" Ea. 11¢
10 for 99¢
P16930—UR750, 7 1/2" Ea. 15¢
10 for 1.35



DRIVE RING

Acts as dependable anchor for guy wire when hammered in at an angle. Made of galvanized steel. P21930 Ea. 5¢
10 for 46¢



MAST CLAMP

Notched retaining clamp holds 2 masts firmly together in sturdy U-bolt. Made of galvanized steel. P21922 Ea. 24¢
10 for 2.16

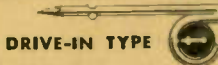
U-BOLT

Made of galvanized steel. Supplied with nuts and washers in place. P21931 Ea. 15¢
10 for 1.35

TWIN LEAD STAND-OFF



First choice for fast, secure anchoring of transmission lines. Single screw eye. P16957—3 1/2" Ea. 3¢
10 for 25¢
P16990—5 1/2" Ea. 5¢
10 for 45¢
P16960—7 1/2" Ea. 5¢
10 for 54¢

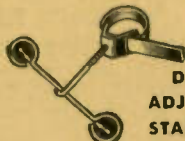


DRIVE-IN TYPE

Made of galvanized steel. For Twin Lead. P16994—3 1/2" Ea. 5¢
10 for 46¢

FOR COAXIAL CABLE

P16995—3 1/2" Ea. 5¢
10 for 46¢



DOUBLE ADJUSTABLE STAND-OFFS

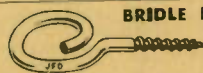
Firmly grip dual lead-ins.

FOR DUAL TWIN LEADS

P16931—DUT350, 3 1/2" Ea. 21¢
10 for 1.89
P16932—DUT750, 7 1/2" Ea. 24¢
10 for 2.16

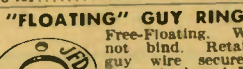
FOR DUAL COAXIAL CABLES

P16933—DUR350, 3 1/2" Ea. 21¢
10 for 1.89
P16934—DUR750, 7 1/2" Ea. 24¢
10 for 2.16



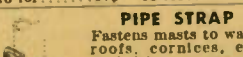
BRIDLE RING

Anchors guy wire securely and permanently. Made of galvanized steel. P21923 Ea. 5¢
10 for 46¢



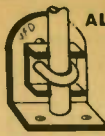
"FLOATING" GUY RING

Free-floating. Will not bind. Retains guy wire securely. Galvanized steel. For 1" Mast. P21919 Ea. 9¢
10 for 81¢
For 1 1/2" Mast. P21921 Ea. 12¢
10 for 81¢



PIPE STRAP

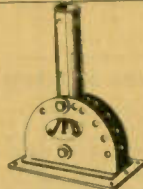
Fastens masts to walls, roofs, cornices, etc. Quickly, securely. Made of galvanized steel. P21938 Ea. 5¢
10 for 46¢



ALL-ANGLE MOUNT

Permits setting of 1/2" to 1 1/2" masts at most suitable angle for maximum reception. Made of rust-resistant steel. With all mounting hardware. P21842 Dozen 3.78 Ea. 35¢

MOUNT MASTER



Solves almost all antenna mast mounting problems. Perforated flange permits setting of mast at any angle. Mounts anywhere—on walls, flat or slanted roofs. Pre-assembled with hardware in place. Heavy gauge steel. P21843—Type BR. For masts up to 1 1/2" diameter 4.41
P21844—Type BR-2. For masts up to 2" diameter 6.00



VENT PIPE MOUNT

Fits snug on round-shaped objects. Firmly grips 1/2" to 1 1/2" masts. Rust resistant steel. Supplied with hardware. P21841 Pr. 2.12

U-BOLT BRACKET



One of the most popular and practical antenna mounts. Sturdy U-bolt securely grips all masts from 1" to 2" O.D. Made of rust-resistant steel. Supplied with hardware. P21837—3" size Pr. 1.17
P21838—4" size Pr. 1.36
P21839—7" size Pr. 1.63

MAST CONNECTOR



Joins masts quickly and securely. Made of rust-resistant steel. For 1" to 1 1/2" masts. P21915 59¢
For 1 1/2" to 1 3/4" masts. P21916 59¢



RING CLAMPS

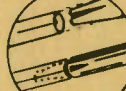
Ruggedly constructed; easily adjusted. Made of corrosion resistant steel. For 1/2" to 1" masts. P21917 Ea. 7¢
For 1 1/2" to 1 3/4" masts. P21918 Ea. 7¢
10 for 53¢ 10 for 63¢



FLEXIBLE STRAPPING

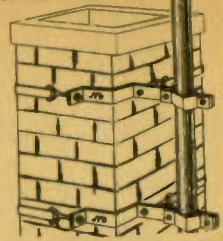
Serves many uses in antenna installation work. Good for mounting masts on chimneys, posts, etc. Perforated steel. P21947—12 Ft. 42¢
P21948—25 Ft. 87¢
P21949—100 Ft. 3.25

5 AND 10 FT. ANTENNA MASTS



New corrosion-resistant 5 ft. steel mast made to fit all antennas. One end is tapered with specially designed "Jam Fit" connects with locking key, so 2 masts fit into each other. 1 1/2" O.D. P21978 1.03
P21968—10 FOOT MAST—Similar to above but single 10 ft. length 2.06
P22779—M101 Antenna Mast. Same as above except seamless steel construction 2.29

CHIMNEY MOUNT



Can be erected in minutes; without special tools or drilling. Adjustable, two-section design permits unlimited spacing between brackets for maximum support of masts 1/2" to 1 1/2" O.D. Complete with two 12-ft. lengths of 1/2" galvanized steel bands and hardware. P21834 2.35

Type BR6 Snap-On

Masts snap into the U-type groove instead of having to be slipped in through the top.

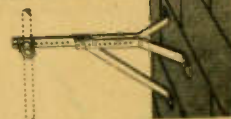
P22910—JFD Type BR6 Snap-On Chimney Mount 2.32

WALL BRACKET



Anchors 1/2" to 1 1/2" masts safely and securely. Adjustable 6" to 15" from walls. Heavy gauge rust-resistant steel. P21835 4.41

EXTENSION BAR



Extension bar for above wall bracket. Extends range of wall clearance to 24 inches. P21836 1.76



VERTICAL BRACKET

Extends masts 6" from wall. Grips masts 1/2" to 1 1/2" O.D. Made of corrosion resistant galvanized steel. With hardware. P21840 2.12

JFD ANTENNA COUPLERS



Makes one antenna operate for 2 or more sets. Each unit has a built-in lightning arrester. Can be screwed to wall, baseboard, or back of set. Complete instructions and mounting screws included with each unit. Grounding terminals are mounted directly on the case. Shpg. Wt. 1 lb. P22790—JFD TT2-300. For 2 sets Less Arrester 3.50
P22791—JFD TC2L-300. For coupling 2 sets; 300 ohm 7.03
P22792—JFD TC4L-300. For coupling 4 sets; 300 ohm 7.61
P22793—JFD TC4L-72. For 4 set coupling; 72 ohm 7.61

TELEVISION ACCESSORIES

GENERAL ELECTRIC

HORIZONTAL OUTPUT TRANSFORMERS

RTO-085—Ferrite core, with tertiary winding. Filament winding for 1X2. Tapped secondary for connecting width control. For use with 66-70 degree tubes as 14CP4, 16CP4, 19AP4 and 24AP4. Maximum high voltage 15 KV; nominal 12-13 KV. P7649—Shipping Wt. 1 lb. Net. **6.91**

RTP-092—For general replacement use in TV sets employing kick-back high voltage systems. Long leads eliminate splicing. Electrically exact replacement for many sets. P7648—Shipping Wt. 1 lb. Net. **6.70**

VERTICAL SWEEP OUTPUT TRANSFORMER

RTO-064—A vertical sweep output transformer especially designed for use in magnetic deflection circuits from 50 to 70 degrees. Matches the vertical output tube to the deflection yoke. The turns ratio is 10:1. Open shell, upright mounting, leads attached. Shipping Wt. 1 lb. P7647—RTO-064, Net. **3.53**

WIDTH AND LINEARITY CONTROL

RLD-014—Wide range, variable inductance coil. Ferrite core with screwdriver adjustment. Requires 415° mounting hole. Shpg. Wt. 1/4 lb. P7641—Net. **76¢**

WAVE TRAPS

RLW-006—FM Wave Trap. Reduces or eliminates interference from FM stations operating in 88 to 108 MC channels. P7644—Net. **2.50**

RLW-006—IF wave trap. Reduces or eliminates interference from external signals at IF freq. 41-47MC. P7643—Net. **2.35**

RCA REPLACEMENT TV CONTROLS

Stock No.	RCA No.	Seet. 1	Seet. 2	Each
P5883	71443	20	10*	.97
P5884	71446	10,000	1 Meg.	1.41
P5885	71784	500,000	10,000	2.53
P5886	71971	1,000	50,000	1.47
P5887	72758	1 Meg.	50,000	1.47
P5890	73193	10,000	500,000	1.82

*Single tapped control.

DETENT SWITCH CONTROLS



Replacement detents complete with locating plate, except where specified. For use in Emerson, DeWald, Fuda, Garod, Techmaster, and many other sets originally supplied with the RCA 201E1 front end tuner.

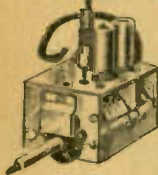
LESS Locator Plate	Each	WITH Plate	Each	Replaces
P10132	1.18	P10140	2.44	Admiral 746B14
P10130	.89	P10137	1.65	RCA 71483
P10131	.89	P10138	1.85	RCA 72743
		P10139	2.79	RCA 73440

HIGH-VOLTAGE CERAMICONS



High-voltage ceramicons especially designed for TV power supply, filter and by-pass applications. Their special body design gives extra-long creepage path. Low-loss molded case 1 1/4" diameter by 1/2" long. 20 KV, 500 mmd. Both ends tapped for 6/32" screw. P2303—Each. **98¢**
10 for. **8.50**

STANDARD COIL TUNER



Used in over 5 million TV sets and chassis, this TV tuner is a marvel of precision engineering and craftsmanship. Uses a pentode R.F. amplifier and a dual-triode mixer-oscillator. 25.75 PIX IF and 21.25 Mc sound. May be used with either "Split-Sound" or inter-carrier as desired. Covers all channels from 2 to 13, and uses easily interchangeable coils on strips which may later be used for UHF work. Cleaning and maintenance are quick and simple. Each channel has individual oscillator adjustment screw, which may be reached from the rear of panel for alignment of picture brilliance, definition and sound. Has balanced 300-ohm input. Control shafts are concentric, for channel selection and fine tuning. Size: 4 3/4" x 3 3/4" x 6 1/4". Included with 636 and 6AG5, and instruction sheet for replacement or new use. P24656—Supp. Wt. 4 lbs. **22.95**

BARKHAUSEN OSCILLATION ELIMINATOR



Remove those vertical black bars (Barkhausen Oscillation) from your TV screen with this Perfection B.O. Eliminator. Simply slip the B.O. Eliminator over the horizontal sweep output tube and adjust like an ion trap magnet until the interference disappears. P7606—Shpg. Wt. 1/4 lb. Net **73¢**

ION TRAP MAGNETS

High quality ion trap magnets for kinescopes of all sizes and types. Check with a kinescope type chart or request information on the proper type to use with your kinescope. P6057—Single Magnet, 35 Gauss, each. **44¢**
P6056—Single Magnet, 63 Gauss. **47¢**
P6056—Double Magnet Type. **69¢**

SPECIAL VALUES

TV POWER TRANSFORMER

A top quality, precision made television power transformer with a rating of 2200 volts at 2 MA. Filament voltages are: 6.3 volts at 1 amp, and 2.5 volts at 2 amps. Upright mounting. The transformer is completely enclosed and has four brackets for simplified and permanent mounting. Overall dimensions are: 3 1/4" high by 3" wide by 2 1/4" deep. Shipping weight 2 1/4 lbs. P1601 **3.75**



HIGH-VOLTAGE FLYBACK

Similar to RCA type 211T1. Horizontal deflection output transformer used with deflecting yoke 201D1 or 201D3. Provides approximately 9 KV. Filament winding included. Secondary tapped for connecting tube 201R1 width control. Powdered iron core. P6889 **4.15**



16-INCH FLYBACK

Similar to RCA type 211T5. Designed for use in pulse-operated power supplies with no load kinescope anode potentials up to 13.5 KV. Ideal for conversion of 10" and 12" sets to 16". P5888 **4.95**

16"-19" GE FLYBACK

General Electric type T771, for use with 16" rectangular TV tubes, as well as with 19" round and short neck 16" round picture tubes. This flyback may be used with a 6BG6 or 6CD6, and provides 12 to 14.5 KV. Unusually high efficiency allows economical sweep output stage design and assures adequate safety margin in both sweep size and high voltage using conventional circuits. Size 4 1/4" x 2 1/4" x 2". P6054 **3.95**



DEFLECTION YOKES



Listed below are the five most generally used deflection yokes. All are precision made and come complete with long leads and have full networks already wired. Stocking all five types will enable you to handle ninety-eight percent of all replacement calls.



Stock No.	Deflection Angle	Inductance	RCA Type	Type	Price
P7601	53 degrees	8.3 MH	201D1	Wire	2.94
P5895	63 degrees	8.3 MH		Wire	3.53
P5894	70 degrees	8.3 MH		Wire	4.41
P7602	70 degrees	10.5 MH	206D1	Powd. Iron	4.85
P7603	70 degrees	8.3 MH		Ferrite	4.85

PM FOCUS COILS

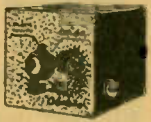
Require no wiring or connections of any kind. They are simply placed on the tube behind the deflection yoke. Adjusts for sharp focus with flexible shaft. These PM focus coils also adjust the vertical and horizontal centering by a simple mechanical adjustment. P6052—For 60 degree tubes to 16". **4.05**
P6053—For 70 degree tubes to 19". **4.05**



COLORTONE TV COLOR ADAPTER

A necessary unit for millions of television set owners to receive the recently-approved field sequential color system. With this adapter, any black and white receiver will be made capable of receiving 405-line 144-field color broadcasts, so that they will appear as a black and white image. Can be installed in a matter of minutes. Compact unit features individual focus, height and linearity controls for simple adjustment. Complete instructions with each unit. Available in three models.

P24288—For 630 syncro-lock receiver. **13.39**
P24289—For horizontal syncroguide receiver. **13.39**
P24290—For horizontal Multivibrator receiver. **13.39**



NEW! BEAMAJUSTER

With this amazing new Beamajuster you can center your TV picture in 3 seconds instead of many minutes. Fits all tubes. Snaps on back cover of any standard yoke. Beamajuster is rotated for approximate centering of picture, then final adjustment is made by sliding outer plate vertically or horizontally. Once set, picture will not drift. No wiring necessary. P6058—Beamajuster. Wt. 1 lb. **98¢**



IMAGE FOCALIZER

New Quam Alnico V PM Focalizer provides better, sharper focus of the TV image, yet is unaffected by operating temperature and voltage fluctuations. Replaces wire-wound focus coil. Requires no wiring into the circuit. A slight turn of the adjusting screw—and it stays that way. Supplied with aluminum supporting bracket and instructions. Shpg. Wt. 3 lbs. P7602—For 12KV Kines. **2.79**
P7604—For Kines 12KV up. **3.50**



PERFECTION KINE-CENTER

Remarkable new picture centering device designed for use with the new electrostatic tubes which use no focus coil. Mounts quickly, stays in place without wobbling. Consists of two metal rings which rotate independently to adjust the picture in the tube and center it. Its design permits placing the rings closer to the deflection yoke, the most effective operating area. P7607—Kine-Center. **1.03**



SERVING THE RADIO WORLD FOR OVER 30 YEARS

TELEVISION ACCESSORIES

JFD AT 102

LIGHTNING ARRESTER

For regular twin lead. Underwriters Laboratories approved. Grounds lightning and all other static charges. No wire stripping necessary. Strap furnished for most of grounded pipe mounting; ground wire furnished for wall and window sill mounting. Made of high quality glazed porcelain.

P24433—JFD AT 102.....1.32
Lots of 12, Each.....1.19
No. AT 103. For Tubular and Oval Jumbo Twin Lead. Similar to above but for oval jumbo twin lead. Underwriters Lab approved.
P24352—JFD AT 103.....1.32
Lots of 12, Each.....1.19

JFD AT 104 4-WIRE 8-CONTACT

LIGHTNING ARRESTER

Designed especially for antenna rotor installations. Eight precision-spaced teeth maintain perfect contact with lead-in wires. No guesswork required. Does not affect signal strength or 300-ohm line impedance. No wire cutting, stripping or spreading of wires necessary. Without strap.....

P24312 JFD No. AT 104.....88¢

JFD "LITTLE GIANT" TWIN LEAD

LIGHTNING ARRESTER

For Regular or Oval Jumbo Twin Lead. Underwriters Laboratories Approved. No wire stripping or spreading of line necessary. Small size permits easy mounting anywhere—inside or outside. Completes with ground lug and screws for wall or window sill mounting. Special high dielectric, flame-retarding plastic construction does not vary line impedance. Insures maximum signal transfer.

P24313 AT 105—Without strap.....73¢

RCA LIGHTNING

ARRESTER

Especially designed for the protection of TV and FM receivers. Attaches to the 300-ohm twin lead without cutting or stripping. Easily mounted on any mast or pipe from 1/2" to 2" diameter. Shipping weight 5 ounces.

P24443—TYPE 214X1.....65¢

RCA OUTDOOR LIGHTING ARRESTER

Approved by Underwriters Laboratories for outdoor as well as indoor installations. No special tools are needed for direct mounting on wood. Weatherproof and non-corrosive. Will not affect line impedance. Easily installed on cement or stone surfaces.

P24314—TYPE 215X1.....73¢

VEE-D-X LIGHTNING ARRESTER

RW-300 For Twin Lead on TV and FM sets. High Frequency low-loss unit does not affect impedance. No need to change spacing or cut lead. Low-loss plastic. Shipping weight 1 lb.

P24442.....1.18

4-WIRE ARRESTER

Model RW204. Chisel point contact eliminates stripping; tightening wing nut completes installation. Low-loss polystyrene case. Also usable with standard TV FM ribbon. Shpg. wt. 1 lb.

P24353.....88¢

VEE-D-X ANTENNA SWITCH

Here's the solution to using two or three antennas for your set at the flick of a knob. Special design prevents leakage. May also be used in show-rooms to connect three sets to one antenna, with instant switching. Leads attach to the rear, out of view. Furnished in attractive ivory plastic case, with satin finished aluminum face. Shipping weight 2 pounds.

P24351.....2.91

JFD ANTENNA SWITCHES

A simple, effective way of getting the most signal in fringe areas. Ideal where individual Xagi antennas are used for maximum gain. Simply connect each antenna lead to terminals at back of switch and one lead from switch to the set and operate each antenna independently. Can also be used to switch one antenna to several different sets, as in stores or service shops, or it can be used to switch one home antenna to two different sets in separate rooms in the home.

P22786—3 way antenna switch.....2.91

P22787—4 way antenna switch.....3.50

UNIVERSAL TV LEAD-IN SOCKET

An ultra-compact, truly universal constant impedance socket that servicemen and TV installers have been waiting for. Ideal for TV antenna lead-in, test bench, dealer display, etc. The new universal lead-in socket is so designed that standard 300-ohm transmission line may enter from sides or back or line may pass straight through. Thus the unit can serve as a line tap or terminal socket and the wiring may be hidden within the wall or brought along the baseboard. Socket is molded of low loss polystyrene in brown or ivory.

P16900—Brown.....47¢

P16901—Ivory.....47¢

UNIVERSAL TWIN-LEAD PLUG

The plug of one thousand uses. Fits all transmission line sockets as well as 1/4" crystal holder and octal tube sockets. Low-loss acrylic plastic. solderless.

P16903.....28¢

TWIN LEAD SOCKET

Mates with transmission line plug above for constant impedance solderless connection of 300-ohm line. Designed for use where a mounted socket is not feasible.

P16902.....28¢

4 AND 5-CONDUCTOR PLUGS AND SOCKETS

Sturdy polarized plugs and sockets for 3, 4, or 5 wire rotor control cable or other low voltage installations. Large set screws hold cable wires firmly.

P16904—4-conductor plug.....49¢

P16905—4-conductor socket.....49¢

P16906—5-conductor plug.....63¢

P16907—5-conductor socket.....63¢

CINCH-JONES WALL PLATES

These new Cinch-Jones wall plates provide a convenient junction between the antenna lead-in terminal and the receiver. Available for lead-in alone or combined with socket for any antenna rotor. All wall plates are chromium finished. Can be used with any rotor installation, up to and including an eight wire rotor plus lead-in.

S302WPC—For antenna lead-in only.....97¢

S3024WPC—For lead-in & 4-wire rotor.....1.18

S3028WPC—Lead-in & up to 8-wire rotor.....1.28

CINCH-JONES WALL PLUGS

For use with above wall sockets.

P302CCT.....34¢ P308CCT.....49¢

P304CCT.....49¢

PLASTIC INSULATOR

Low-loss polystyrene insulator for use with 300-ohm twin-lead. Holds line securely without pinching and changing impedance. Attaches with single wood or metal screw.

P16958—100 for.....4.50

Each.....5¢

LITTELFUSE TV FUSE KIT

10 of the most popular assorted fuses for all TV receivers. In handy kit—for your pocket.

P12340.....96¢

LITTELFUSE TV FUSE CLIP

Snap-on Holder snaps on to blown pigtail fuse; regular replacement fuse goes on second side.

P12341.....18¢

DRIVE-IN INSULATOR

An unusual new nail with polyethylene standoff. Firmly secures parallel wire or coaxial lead with a few hammer strokes. Cadmium plated high-carbon steel nail has patented "step-lock" teeth that hold tight in wood, mortar, iron, aluminum, etc. 2 3/4" long.

P16926—Each.....3 1/2¢

10 for.....33¢ 100 for.....2.95

TV MAST COUPLER BRACKET

Aluminum unit for adjusting antenna poles. Fits all poles to 1 1/2", also any 2 poles of different diameter. With hardware.

P21946—Per pair.....90¢

TV SECOND ANODE CONNECTOR

For TV picture tubes. Silver plated snap button. 1 1/2" diameter rubber protected cap. Supplied with 12" wire leads.

P24412.....32¢

ANODE EXTENSION CORD

For connecting picture tube while outside of set when testing. 30" long.

P22784.....88¢

TV & CRT EXTENSION CORD

Permits testing of picture tube outside of chassis. Fits any duodecal based tube. 5 color coded leads. 40" long. Male and female bakelite sections.

P22783.....1.32

TWIN LEAD SPLICE

Speeds splicing without need for twisting or soldering.

P16954.....12¢

10 for.....1.03

TWIN-LEAD POLARIZED CONNECTORS

Polystyrene blocks, keep leads properly polarized no matter how often disconnected. For standard 300-ohm line. Each half measures 1/4" x 3/4" x 3/4".

P16951—per set.....29¢

DIPOLE CONNECTOR

For center connecting of 300-ohm line type folded dipole. Positive connection without soldering. Necessary hardware included. Shipping weight 2 ounces.

P16953.....34¢

MOST EXTENDER BRACKET

The vise-type clamp on this most extender bracket will hold any two masts of equal or unequal diameter ranging from 3/8 inches to 2 1/4 inches. The height of the bracket arms permit a bite of four inches in either direction on each mast. Manufactured of long-life solid steel with guying points.

P21945.....90¢

5 for.....4.25

STEEL GUY WIRE

Six strands of number 20 high-tensile strength galvanized steel wire. Can be used for any guying problem. This is one of the highest quality guying wires your money can buy. In 50, 100 and 500-foot rolls.

P21927—50 ft. roll.....39¢

P21928—100 ft. roll.....65¢

P21929—500 ft. roll.....3.25

INTERLOCK LINE CORD - A

Replacement cord for RCA, Philco, GE, Admiral, and others. It has regular molded plug on one end and special rubber plug on the other to fit TV sets. Underwriter's Laboratories approved. A very handy thing to have in your service kit or on the workbench.

P13319—6 ft. brown cord.....36¢

INTERLOCK TV LINE SOCKET - B

Conventional male interlock socket. Standard type used on all television receivers. Heavily plated contact pins. 1 1/4" mounting centers.

P13315.....12¢

HOODS & RINGS FOR 16"-17"-19"-21"-24"

Made of heavy durable plastic for use with all metal cone kinescopes. Eliminate shock hazard, aid in mounting, provide 2nd anode connection for high voltage on hood.

Tube Type HOOD RING

Tube Type	HOOD No.	Each	RING No.	Each
16AP4	P24410	1.87	P24411	2.13
10GP4	P24426	1.87	P24411	2.13
17CP4	P24420	1.95	P24421	2.24
19AP4	P24408	1.98	P24409	2.49
21	P24284	1.97	P24285	2.49
24	P24286	2.91	P24287	4.33

TELEVISION TUBE MASKS

Highest quality masks of crystal clear plastic. Gives you and your picture tube protection. Gold bronze border adds greatly to the rich appearance of your cabinet.

No.	Fits	Each
P24415	10" Tube	3.58
P24416	12 1/2" Tube	4.15
P24354	14" Rect.	4.17
P24419	16" Glass	5.45
P24421	16" Metal	5.45
P24381	16" Rect.	5.23
P24325	17" Rect.	5.72
P24382	19" Metal	7.85
P24326	20" Rect.	7.85
P24332	21" Rect.	7.95
P24345	24" Round	13.25

STEEL TURNBUCKLES

Takes up guy-wire slack. Rustproof galvanized steel. Size: 7/8" open, 5/8" closed.

P21939.....13¢

10 for.....1.17

ALUMINUM GROUND WIRE

Heavy gauge, high tensile strength aluminum ground wire for use with lightning arresters and similar purposes.

P21926—100 ft. coil.....1.65

P21935—500 ft. coil.....7.50

ANTENNA AND AUTO RADIO ACCESSORIES



TV CABLE GUN TACKER

Makes a cable and wire installation an almost effortless job. Shoots a staple almost anywhere. Heavy duty double lever. All-steel, chrome finish. P15606—Shpg. wt. 3 lbs. **7.95**
P15607— $\frac{1}{4}$ " deep staples, Box 5000 **1.75**
P15608— $\frac{1}{2}$ " deep staples, Box 5000 **1.88**



ICA 15,000 VOLT TEST LEADS

Designed especially for high voltage TV measurements. Thick walled bakelite handles with finger guards. Will withstand 15,000 volts D.C. 48" heavy cable connected to plugs. P15238—Per set **2.94**

TV GRID CAP CLIPS

P14735—Envelope of 5, for 1X2 and 6BQ6GT **26¢ Ea.**
P14736—Envelope of 5, for 6BG6G and 1B3GT **26¢ Ea.**



LOW-COST AERIAL KIT

Has 100-ft. $\frac{1}{4}$ " aerial wire, 40 ft. insulated lead-in, 25 ft. ground wires, arrester, ground clamp, lead-in strip, 2 insulators, nail knobs. P16476—Shpg. wt. 2 lbs. **1.09**
ECONOMY KIT: 100 ft. $\frac{1}{4}$ " aerial wire, 25 ft. lead-in, lead-in strip, ground clamp, 2 insulators, nail knobs. P16478—Shpg. wt. 2 lbs. **.81¢**



ICA TENNA-SCOPE

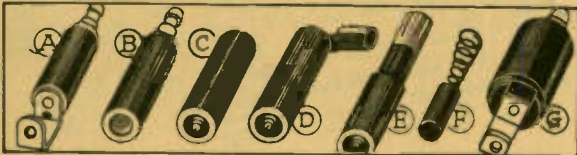
New, built-in tuned radio antenna eliminates the use of an outside aerial and ground. Gives better selectivity and higher signal-to-noise ratio. May be connected to any radio without the necessity of making any circuit changes. P16452—Shpg. wt. 1 lb. **1.96**



ANTENNA LOOP

For battery and midget sets. Replaces antenna coil. High inductance permits removal of turns for adjustment. 4" x 8". P16450 **48¢**
Lots of 10 **3.95**

RELIANCE AUTO RADIO SUPPRESSORS



Quality black molded cases.

No.	Type	Description
P5283	A	Standard Spark Plug
P5246	A	Special for Ford V8
P5278	B	Compact Spark Plug
P5247	B	Compact Spark Plug Type for Ford V8
P5253	C	Cable Type for Buick
P5285	D	Elbow Cable Type
P5279	E	Standard Distributor
P5293	F	Distributor Type for Ford 1936 and earlier
P5277	F	Distributor Type for Ford 1937-38-39-40
P5256	*	Elbow Type for 1938 Plymouth

Any Above **18¢**
Each **1.62**
Per 10 Assorted **1.62**
* Like "A" with "L" connector.

WHEEL STATIC ELIMINATOR



Eliminates front wheel noise. Easy to install. Place in each hub cap. Rust-proof. P5294—Each **8¢**
10 for **72¢**

WIRE WOUND UNITS

Fig. G—Efficient type; do not impair motor efficiency. Low d.c. resistance, high inductance. Acts as r.f. choke. Extra rugged. P5296—Spark Plug Type. P5297—Distributor Type. 10 for 3.40. Each **38¢**

MASTER DISTRIBUTOR UNITS

Hermetically sealed; impervious to moisture and heat. D.C. resistance 10,000 ohms. P5284 Each **47¢**
5 for **2.12**

ANTENNA CONNECTOR



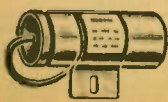
Two piece metal container with fibre insulation. P18714 Each **7¢**
10 for **63¢**

ICA ADAPTERS



A. P18715—No. 2372 Lead-in Adapter. Converts Delco to Motorola Fitting. **20¢**
B. P18716—No. 2375 Motorola Pin Plug. **8¢**
C. P18717—No. 2378 Motorola Shielded Jack. **12¢**
D. P18718—No. 2396 Adapter. Converts Motorola Pin Plug to Delco Type. **8¢**

GENERATOR CONDENSERS



Standard auto radio condensers designed to eliminate generator noise. Fully shielded. Dirt and oil proof.

Stock No.	Mfd.	Each	10 For
P14220	.25	.35	3.35
P14215	.5	.37	3.30
P14216	1.0	.53	4.95

WHEELER SOUND-POWERED PHONE

Requires no battery or line voltage. A whisper can operate this self-powered, self-contained telephone. Excellent speech fidelity. Unsurpassed for use in erecting TV antennas. Ideal for home or office room inter-communication. Effective over distances to 25 miles with No. 16 twisted wire; up to 15 miles with No. 19 twisted wire. 12 units can be connected in parallel. Usable with single wire and ground return. Attractive black, molded phenolic handset. Complete, ready-to-operate. With 3 $\frac{1}{2}$ ft. 2-conductor cable, test clips and rubber insulators. Less extension wire. Shpg. wt. 1 $\frac{1}{2}$ lbs. List \$13.75.
P14015—WHEELER SPT-102 HANDSET, Per Phone, NET **9.62**



WHEELER SPS205 PAIR SOUND-POWERED INTERCOM

Two wall-mounted sound-powered handsets, with bell feature for ringing the called party! Completely self-powered; voice pressure supplies all energy needed for operation. Bell gives sharp, clear signal. Operates successfully over a distance of 20 miles. Impact-resistant plastic with corrosion-proof metal parts. Retractable cord is neoprene sheathed. Double palladium switch contacts. Installed instantly—no batteries required. Less 2-conductor connecting cable. Shpg. wt. 7 lbs. List \$73.15.
P14016—WHEELER PAIRED INTERCOM Set of 2 NET **43.89**
RC Twisted Pair Cable, Rubber covered, #18 stranded wire for use with above, $\frac{1}{2}$ " insul. Shpg. wt. 100 ft., 3 lbs.
P20896—100 Ft. **3.15** Per Foot. **3 1/2¢**



ICA 3-IN-1 RADIO TUNER

Antenna tuner, wave trap, aerial eliminator all in one instrument, depending on the manner of its connections to the radio set. Operates on any make or model set, and improves performance. P12678 Each **59¢**
10 for **5.31**



MINIATURE ANTENNA LOOP

Where space is at a premium, this ultra-compact loop is just what you need. Litz-wire wound, has an inductance of about 320 microhenries, and covers the broadcast band with midrange variable. 5" x 3 $\frac{1}{2}$ ", with four-inch wire leads. Shpg. wt. 1 lb.
P16454—10 for 8.50. Each **40¢**



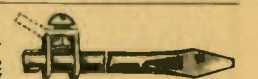
FERRI-LOOPSTICK

The hottest antenna development in broadcast radio since crystal sets. Only 2 inches long, yet improves reception over the entire broadcast band. Cuts down noise, gives a loud clear signal on weak stations that normally can't be heard with ordinary loop antennas. Omni-directional! No more turning or moving receiver to get better reception. List 75¢
P12680 NET **44¢**



3/8" PLATED GROUND RODS

For use where pipe ground is not available. Heavy steel yoke for lead.
P17187—4 ft. 56¢, 10 for 4.32
P17188—6 ft. 66¢, 10 for 6.27



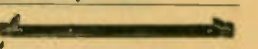
MUELLER TWIN LEAD ANTENNA CLAMP

Standoff type insulator clamps on masts crossarms, beams, etc. up to 1 $\frac{1}{2}$ " thick. Ridgedly supports twin lead 2 $\frac{1}{2}$ " from mast or pipe. Weatherproofed. Shpg. wt. 4 oz.
P17102—10 for 88¢. Each **13¢**



SINGLE LEAD-IN STRIP

Clip terminal each end.
P17101—10 for 86¢. Each **8¢**



"GRIP" GROUND CLAMP

Makes vise-like grip on pipe. Sharp pointed screw makes perfect contact.
P17105 **10¢**
10 for **88¢**



PIPE GROUND STRIPS

Broad ground clamp adjustable to fit any size pipe up to 2" in diameter. Provided with clip for attaching ground lead.
P17102 Each **8¢**
10 for **72¢**



PORCELAIN ARRESTER

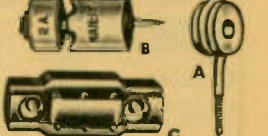
Housed in brown glazed porcelain; approved type.
P16753 Each **19¢**
10 for **1.70**



AERIAL INSULATORS

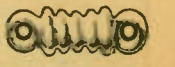
Dependable porcelain insulators. "A" is screw in type for bolting lead-ins or grounds off walls; "B" is standard nail-knob; "E" is strain insulator.

No.	Type	Size	Each	10	100
P16972	A	3"	.06	.55	4.95
P16986	A	7"	.07	.65	5.85
P16977	B	2"	.04	.35	3.15
P16802	C	2 $\frac{1}{2}$ "	.07	.63	5.65



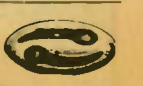
GLASS INSULATOR

Special tempered glass, unaffected by heat or cold. Has a high tensile strength and gives long, dependable service. Choice of 2 sizes, 3" and 3 $\frac{1}{2}$ " long.
P18850—3" long Each **5¢**
10 for **45¢** 100 for **4.05**



STRAIN INSULATOR

1 $\frac{1}{4}$ " glazed porcelain insulator for antenna guy wires.
P17175 **7¢**
10 for **83¢**



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GO
WRONG**

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**WITH
THESE
BUYS**

**TRAV-LER
3-Way Portable**

Smart, luggage style personal portable radio that plays anywhere—AC, DC or batteries. Convenient change-over switch on front panel permits easy selection of desired power source. Superhet circuit features dual purpose tubes that give superb performance. Excellent tone from powerful PM dynamic speaker.

16.95
Each 1.93

Built-in loop antenna. Beautifully finished mahogany veneer cabinet, 5 1/4" H., 8 3/4" W., 4 3/4" D. Quantity limited. Shipping weight 5 lbs.

1P431—Less batteries. Special.
No. XX45—Battery.
No. 2 Call (2 required)

CAVITY RESONATOR

Every experimenter wants at least one of these! Designed as a test oscillator by the Navy, it's a natural for the VHF bug. A gold plated cavity resonator is the heart of the unit. One 955 is the oscillator, another is a modulator at R.F. The range is 234 to 258 mcs.—right in the middle of the ham band! (235 to 240). Heavy aluminum shield divides case, allowing space for batteries. Best of all is the beautiful 1/16" aluminum case, with handle, which may be stripped of components and used as foundation for test instrument, transceiver, etc. Completely wired—with tubes.

1.95

P21114—Limited quantity. Special.

**TABLE AUTOMATIC
PHONO-RADIO
With Webster Three-Speed
Changer**

Here's a sparkling jewel of an automatic phono-radio combination in a beautifully finished mahogany veneer cabinet. Featuring a Webster three-speed automatic changer with dual needle crystal pickup and the broadest band radio. It is a combination of all you'd want in a table model phono-radio; and at a price that is startlingly low. Four tubes plus rectifier. Two IF transformers in advanced superhet circuit. Tunes from 550 to 1650 Kc. and has sensitive built-in loop and a full size Alnico V PM speaker. The Webster changer plays all sizes and speeds—33 1/3, 45 and 78 RPM. Webster changer plays all sizes with positive speed control. Dual needle cartridge for standard and L.P. records. In hand rubbed mahogany cabinet, 10" H., 16" W., 20" D. For 110-120 volts 60 cycles AC operation. Underwriters Lab approved. Quantity limited.

P663—Shpg. wt. 36 lbs. **69.50**

STOP-GO SESSIONS TIMER

The timer that's almost human. Just set this marvelous Sessions Model W-31 electric timer mechanism to switch on or off your television, or any electrical appliance, radio in the morning or at any desired time. Has miracle "Sleep-Switch" so that you can play your radio when you go to bed and it turns it off automatically at a pre-set time, allowing it to 90 minutes to elapse. 3 1/2" dia. ring and bracket, less case. With mounting screws. P15720—Switch Alarm Timer. For 117 volts. Model W-26—As above, less "Sleep-Switch". P15721—W-31, 3 1/2" Square Face with "Sleep Switch". P15718—W-31, 3 1/2" Square Face with "Sleep Switch". P15719—W-26, 3 1/2" Square Face less "Sleep Switch".

6.50

5.50

6.50

5.50

MERCURY SWITCH

One ampere switch; makes and breaks s. p. contact with small rotary movement. 1/2" diam. 1 3/4" long. 15" insulated leads. Limited quantity.

P12819—10 for 1.90. Each **22¢**

PLASTIC MOLDED TUBULARS

Famous name, all new, plastic cased tubular capacitors—made for toughest service, for TV, home and auto radios, and compact electronic equipment. Small in size (.001/600V, 5/16x1"; .05/600V, 1/2x1"), yet capable of withstanding the most severe conditions of temperature, humidity and physical stresses. Tested at twice voltage rating. Tinned leads, readily soldered. ORDER BY CAPACITY AND VOLTAGE—SPECIFY TYPE RSTC. Limited quantity.

Mfd.	Each	Mfd.	Each	Mfd.	Each
200 VOLTS DC		400 VOLTS DC		600 VOLTS DC	
.1	.13	1.0	.32	.02	.11
.25	.16	600 VOLTS DC	.025	.13	
.5	.22	.0005	.09	.03	.13
1.0	.32	.001	.09	.04	.13
400 VOLTS DC		.002	.09	.05	.13
.01	.09	.003	.09	.06	.14
.02	.09	.004	.09	.1	.16
.05	.11	.005	.09	.15	.20
.1	.13	.006	.09	.25	.29
.25	.16	.01	.11	.5	.29
.5	.22	.015	.11		

10-WATT WIRE WOUND RESISTORS

Tolerance Within 5% All nichrome on ceramic core. Tinned copper leads and lugs for easy soldering. Specify sizes desired. Limited quantity.

OHMS: 750 3000 7000 15000
1250 4000 10000 25000 **12¢**
P4439—10-Watt Resistors, Each
10 Assorted for **98¢**

KIT 100 ASSORTED RESISTORS

We still have 'em—so stock up at this low price! 100 popular carbon resistors. Approximately 60, 1-watt, 25 1/2-watt, and 25 1/4-watt types. All standard RMA color coded. Shpg. wt. 2 lbs. Limited quantity.

P3816—Kit of 100 Resistors **1.98**



**SPECIAL
FEATURE!**

VOLUME CONTROLS

Less Switch	With Switch	Resistance Ohms	Taper
	P8123	25,000	Linear
	P8119	50,000	Linear
P8114		100,000	Linear
P8116	P8120	250,000	Linear
P8117	P8121	500,000	Linear
P8113	P8126	500,000	Audio
P8118		1 megohm	Linear
P8105	P8127	1 megohm	Audio
P8111		2 megohms	Audio

Quantities Limited. **37¢**
Less Switch—Each
With Switch—Each **44¢**

KIT 25 TUBULAR CONDENSERS



Top quality brand condensers at a real bargain price! Wax-impregnated non-inductively wound. Standard working voltages and capacities range from 200 to 600 volts. With long flexible pigta leads. Meet RMA standards. **79¢**

P3816—Shpg. wt. 1 1/4 lbs.

KIT 25 CERAMICON CONDENSERS



25 popular sizes. All condensers color coded. Flexible pigtail leads. Limited quantity. Shpg. wt. 1 lb. P3817—Kit of 25 **69¢**

BAKELITE KNIFE SWITCH



Excellent for TV antenna switching. Heavy metal parts mounted on bakelite base. Double pole, double throw. 2 1/2" long. Quantity limited. **33¢**
P16823

25 POWER MICROSCOPE



A valuable pocket companion for experimenters, hobbyists, mechanics, gardeners, mineralogists, jewelers, technicians, students, etc. Works under normal light—no extra illumination needed. Limited quantity. **49¢**

P12839—Shpg. wt. 6 oz.



COAXIAL CABLE

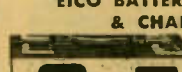
72 Ohm. No. 22, copper stranded. For use with TV antenna. Polyethylene plastic insulation. Tinned copper braid shield. Brown vinyl plastic jacket. Break-down voltage, 2000. Quantity limited. **6¢**

P16210—Per Foot. **6¢**
In Hundred foot lengths **6.25**

**SPECIAL BUY
12" PM SPEAKER**

Excellent replacement for your radio. 4-ohm voice coil. Quantity limited. **3.75**

EICO BATTERY ELIMINATOR & CHARGER KIT



This brand new 6-volt power supply was EICO Service-Engineered for extra reserve electrical power for ALL auto radio testing. Latest type full wave bridge circuit, extra heavy-duty 4-stake manganese copper-oxide rectifiers.

Latest varlac type transformer: 0-15 volts output. Continuous operation: 5-8 volts, 10 amps; intermittent, 20 amps. 10000 mfd. filter capacitor. Rugged meter measures current and voltage output. In handsome, sturdy, hammertone finish steel cabinet, 10 1/2"x7 1/2"x8 1/2". **25.95**

Model 1040 K—Kit **25.95**
Model 1040—Factory wired **34.95**

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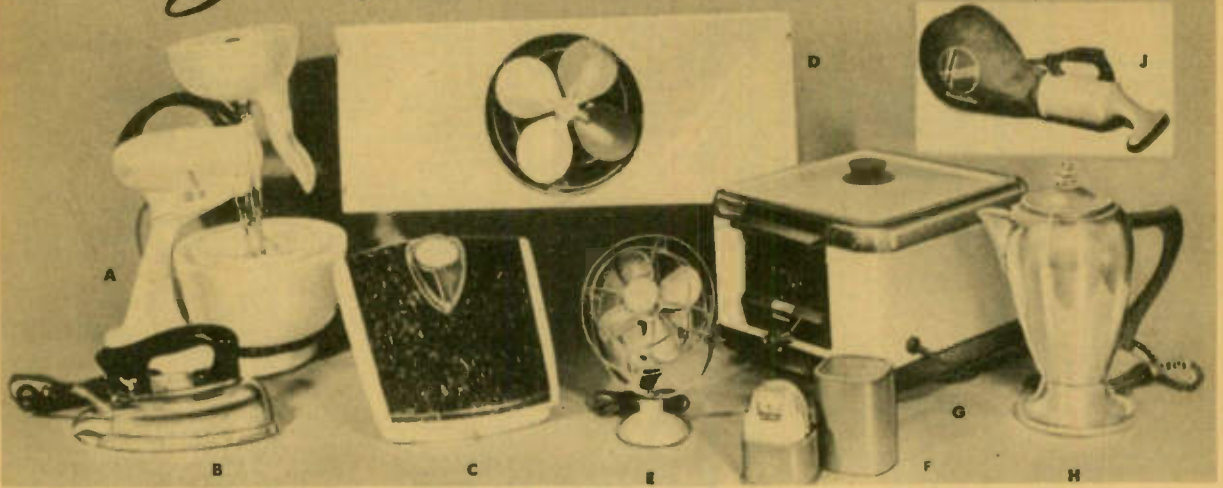
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NATIONALLY FAMOUS BRANDS HOUSEHOLD APPLIANCES



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Make and Model	Lbs.	Lafayette List	Special
Dormeyer No. 4200 With Chopper	25	46.50	33.95
GE M9 Mixer	22	39.95	28.96
Hamilton Beach G (Fig. A)	23	42.00	29.40
Hamilton Beach Hand Mixer	8	18.75	13.75
Kitchen Aid No. 3C Mixer	22	59.50	42.95
Kitchen Aid No. K4B Mixer	26	92.50	64.75
Oster No. 400 Hand Mixer	8	16.95	12.48

IRONS

GE F23 Iron (L)	6	12.95	9.29
GE F40 Steam Iron	6	18.95	13.95
American Beauty No. 79	6	13.95	10.95
Durabilt 401 Travel Iron	5	7.95	5.87
Hoover O10 Travel Iron	6	13.95	10.37
Proctor 991 Iron	6	14.95	10.95
Presto S10 Steam Iron	7	19.95	14.74
Steam-O-Matic R500 (B)	7	19.95	14.45
Westinghouse LPC941 Iron	6	10.95	7.98

SCALES

Borg 8124C (Fig. C)	8	7.95	5.86
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FANS

Kord Window Exhaust Fan (D)	10	13.95	8.75
Handy Fan (E)	8	7.95	3.95
GE 10S03 Osc. Fan	9	16.95	12.45
GE 12V43 Osc. Fan	22	44.95	32.75

ROASTERS

Make and Model	Lbs.	Lafayette List	Special
Nesco 1209 Auto. Roaster-Broiler	55	92.95	67.45
Nesco 7013 6 Qt. Oval Roaster	40	10.95	14.95
Nesco 118 Roaster	40	39.95	28.95
Westinghouse R091 Roaster	40	39.95	28.95

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Fleck No. 2 Broiler	20	37.95	27.45
Mercury Rotisserie	23	49.50	34.79
Rotiss-O-Mat	22	54.95	39.95
Ritz "Black Angus" Broiler	19	34.95	25.47
Roto-Broil Rotisserie	22	49.50	34.79

FRYERS

Make and Model	Lbs.	Lafayette List	Special
Presto S40 (G)	22	37.95	27.45
Dormeyer No. 5800	18	29.95	21.75
Fryrite F4	18	28.95	20.69

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Universal Coffeeomatic Camfield P100 Auto. Percolator	8	29.95	21.95
Cory EAB Auto. Coffee Maker	8	28.95	21.45
Mirro 9122M Percolator (H)	6	7.95	5.98
Nicro No. 500 Coffee Slix	6	11.95	8.75

COFFEE MILLS

Cory DEG Coffee Mill	18	29.95	21.45
Kitchenaid A9 Coffee Mill	18	24.50	17.97

TOASTERS

Make and Model	Lbs.	Lafayette List	Special
GE T81 Toaster (M)	10	22.95	16.95
Camfield C3 Toaster	10	23.95	17.65
Proctor 1469 Toaster	9	16.95	12.45
Toastmaster 1B14	10	23.00	16.75
Universal EA2825	10	22.95	16.85
Westinghouse TO 501	10	22.95	16.85

VACUUM CLEANERS

GE AVT 160D Portable Tank	20	44.95	32.25
GE AVT 813A Tank	30	59.95	42.98
GE AVT 173 Tank	40	89.95	60.95
GE AVC 815 Swivel-Top Hoover Hand Vacuum (J)	11	26.95	18.86
GE AVF 807 Upright	35	89.95	62.95
GE AVF 801 Upright	35	69.95	48.95
Royal 290A Tank	40	89.95	58.95
Royal 240 Upright	30	68.00	46.80
Universal 6702 Tank	40	84.95	58.97
Westinghouse H9 Hand Vacuum	11	24.95	17.97

CAN OPENERS

Can-O-Mat DL 145	3	4.98	3.59
Can-O-Mat DL 245 With Magnet	3	5.98	4.29

WAFFLE MAKERS — GRILLS

GE G40 Grill & Waffle Iron	11	21.95	16.25
GE G10 Waffle Iron	10	12.95	9.29
Universal EA3802 Grill & Waffle Iron	11	16.95	12.45

HEATING PADS & BLANKETS

GE PS4A4	3	5.95	4.71
GE PS8A3	4	8.95	6.71
Everhot Electric Blanket 941	20	44.95	32.75
Universal Elect. Blanket 7613	20	44.95	32.75

FLOOR POLISHERS

Make and Model	Lbs.	Lafayette List	Special
Hoover 021 Floor Polisher	63	74.95	52.50
General Floor Polisher	65	79.50	58.21

PRESSURE COOKERS

Presto 4-Quart	11	12.95	9.45
Mirro-Matic 4-Quart	11	12.95	9.45

BLENDERS

Waring FC2 (K)	17	42.50	30.75
Universal EA6404—2 speed	17	37.95	27.85
Oster 10W	17	39.95	28.73

HAIR DRYERS

Handy Hanna 995C	9	9.95	7.25
Oster No. 202	10	19.95	13.95
Solis 4-Heat	10	14.95	10.95

FAMOUS MAKE APPLIANCES ALWAYS IN STOCK AT LOWEST PRICES!

We always carry a complete stock of popular brand household appliances. Limited space permits listing only a few of the many items available at real bargain prices. Shop Lafayette FIRST, or write for our Special Price on anything in standard household appliances. You'll always save at Lafayette!



MISCELLANEOUS

Make and Model	Lbs.	Lafayette List	Special
Wagner "Victoria" Carpet Sweeper	10	9.95	7.25
Universal Cook-A-Matic EA3801	22	34.95	25.95
Schick No. 20 Shaver (F)	3	24.50	17.15
Sunkist No. 2700 Electric Juicer	17	14.95	10.95
Rival AK347 Ice Crusher	6	8.95	6.37
GE PL4A1 Infra Red Heat Lamp	5	6.95	4.99
GE PH2A1 Sun Bowl Heater	10	9.95	7.34
Gilbert No. 7 Vitolator	5	13.95	10.50
General Slicing Machine	12	17.95	12.95
Electreestem Portable Radiator	40	37.95	27.95
Electreestem Vaporizer 1951	8	8.85	5.11
Deodor-Lite Ozonator	4	9.60	6.95
Cory DKS2 Knife Sharpener	5	14.95	10.95

NC-183

Professional type communications receiver gives maximum reception under all operating conditions.



CONTINUOUS TUNING 540 KC TO 31 MC

Latest engineering design and radio circuit development, combined with superb construction features make this famous communications receiver an outstanding performer under the most adverse operating conditions. It gives complete frequency coverage from 540 kc to 31 mc, and includes the 48-56 mc band for 6-meter reception.

HIGH SENSITIVITY AND SELECTIVITY

Two tuned RF stages provide extremely high sensitivity and image rejection. Voltage regulated oscillator and BFO assure minimum drift on phone and CW. Separate main tuning and bandspread dials calibrated for tuning ease. Main dial covers five continuous bands with bandspread calibrated for amateur 80, 40, 20, 11-10 and 6-meter bands. 6-position crystal filter provides any selectivity from very broad to extremely sharp. New type noise filter effectively minimizes electrical interference.

PUSH-PULL AUDIO OUTPUT

High fidelity push-pull audio output circuit uses 2-6V6 tubes to give 8 watts undistorted power. The receiver is equipped with phono input jack for high impedance record player pickup, front-of-panel Radio-Phono switch and 8-ohm and 500-ohm output terminals. An accessory socket permits the use of the NFM-83 adaptor or a crystal calibrator. Also has input for external power supply.

TUBE COMPLEMENT

2-6SG7 RF, 1-6SA7 1st detector, 1-6J5 oscillator, 2-6SG7 IF, 1-6H6 2nd detector, 1-6SJ7 BFO, 1-6AC7 AVC, 1-6H6 noise limiter, 1-6SJ7 1st audio, 1-6J5 phase inverter, 2-6V6GT audio output. Also has 1-YR150 voltage regulator and 1-5V4G rectifier. Operates on 110-120 or 220-240 volts, 50/60 cycles AC. Receiver is housed in a smooth, gray enamel steel cabinet measuring 19 $\frac{1}{2}$ x10 $\frac{1}{8}$ x15". Supplied less speaker but with tubes. Shpg. wt. 70 lbs.

National Model NC-183T Communications Receivers..... **279.00**
MODEL NFM-83, Plug-in narrow band FM adaptor for NC-183 receiver described above. Easy to install. Shpg. wt. 3 lbs.
 National Model NFM-83..... **17.95**
 National Model NC-183TS-
 10" speaker for NC-183..... **16.00**



NC-125

New, moderately priced communications receiver packed with big set features.



550 KC TO 36 MC IN FOUR BANDS

This latest National communications receiver is truly an amazing piece of precision engineering incorporating all the important features you want at a remarkably low price. It covers a range of 550 kc to 36 mc in four bands with calibrated electrical bandspread on all amateur bands, including 15 meters.

BUILT-IN AUDIO FILTER

The model NC-125 has a built-in Select-O-Ject filter circuit which gives 45 db rejection, variable over the audio range from 100 to 12,000 cycles. Provides 38 db overall boost for CW operation. Minimizes noise and unwanted signals. Sensitivity of receiver is 3 microvolts for 10 db signal-to-noise ratio on 10 meter band. "S" meter on panel reads S9 on a 50 millivolt signal.

WIDE RANGE FREQUENCY RESPONSE

The audio amplifier is essentially flat to 10,000 cycles and is excellent for use as a phono amplifier. Provides 3 watts of audio output. Up-to-the-minute features include AVC, automatic noise limiter, antenna trimmer, variable CW pitch control, separate RF and audio gain controls, edge-lighted, direct reading scale, jack for phono or NFM-73B adaptor, and built-in voltage regulator for stabilized oscillator.

TUBE COMPLEMENT

1-6SG7 RF amplifier, 1-6SB7Y converter, 2-6SG7 IF amplifiers, 1-6H6 detector, AVC and ANL, 1-6SN7 BFO and 1st audio amplifier, 2-6SL7 Select-O-Ject audio, 1-6V6GT audio amplifier. Also has a 5Y3GT rectifier and YR-150 voltage regulator. Operates on 105-125 volts, 50/60 cycles AC. Attractive, gray enamel steel cabinet measures 16 $\frac{1}{2}$ x11 $\frac{1}{4}$ x8 $\frac{1}{4}$ ". Supplied with tubes and instructions. Shpg. wt. 40 lbs.

National Model NC-125T Communications Receiver..... **149.50**
MODEL NC-125TS, 6" PM speaker in matching cabinet for NC-125 receiver described above. Shpg. wt. 10 lbs.
 National Model NC-125TS Speaker..... **11.00**
 NFM-73B, Plug-in NBFM adaptor for NC-125 receiver.
 National NFM-73B Adaptor—Shpg. wt. 2 lbs..... **18.95**



Another National first!

NATIONAL MODEL HFS VHF RECEIVER-CONVERTER



Compact, versatile design permits use as a complete receiver in itself or as a VHF converter with any other receiver tuning to 10.7 mc. Covers 27-250 mc and receives AM, FM and CW with remarkable selectivity and sensitivity. Two-gang main tuning capacitor, panel-controlled antenna trimmer capacitor and 6 sets of plug-in coils tune the receiver in 6 bands. Tube complement: 6AK5 1st detector, 9002 HF oscillator, 6SG7 IF amplifier, 6SK7 2nd detector, 6J5 1st audio, 6V6GT audio output, 6J5 converter output. Supplied with 5" PM speaker, tubes and coils. Gray enamel steel case measures 16x8x8 $\frac{1}{2}$ ". Shpg. wt. 25 lbs. Less power supply (see listing below).
 National Model HFS VHF Receiver-Converter..... **142.00**

Most popular and versatile VHF design in the entire communications receiver field.

POWER SUPPLIES FOR MODEL HFS RECEIVER

MODEL 5886, Designed especially for use with the HFS communications receiver described on the left, in fixed station installations. Operates on 105-125 or 210-230 volts, 50/60 cycles AC. Rectifier included. Shpg. wt. 15 lbs.
 National Model 5886 Power Supply..... **22.43**
MODEL 686S, Vibrator power supply designed to operate the HFS receiver from a 6-volt DC power source.
 National Model 686S Power Supply..... **52.50**

NOTE: LAFAYETTE can supply any model National Receiver. Write for literature and price information indicating the model numbers of the receivers you are interested in.