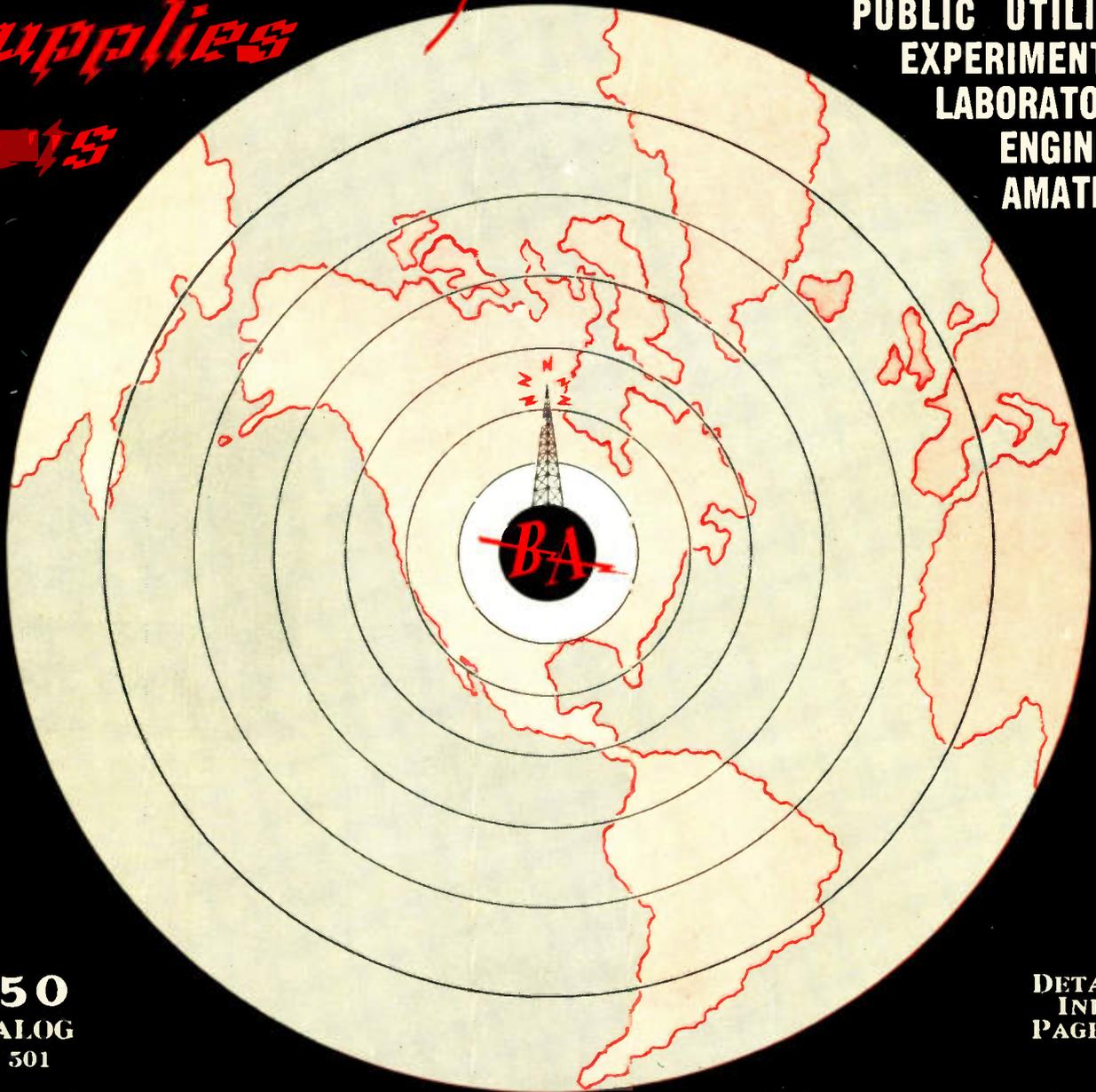


RADIO-TELEVISION-ELECTRONICS

Apparatus
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1950
CATALOG
NO. 501

DETAILED
INDEX
PAGE 135

You Are Days Closer TO BA IN THE Heart of America

BURSTEIN-APPLEBEE
Company

1012-14 MCGEE ST., KANSAS CITY 6, MO.



**16 INCH MODEL 519
145 SQUARE INCH PICTURE**

Big Picture Television without Big Picture Price more sensitivity in fringe signal areas more simplified tuning.

The new Sky Rider 519 provides more of everything desired in television yet at Lower Price Big 145 sq. in. picture with rounded sides and flat top and bottom utilizes full width of the picture tube. Completely normal proportion is maintained between width and height so that the picture appears in its natural form—without distortion. Large 8-inch PM Speaker for rich tone. New simplified tuning—only 4 knobs instead of the usual 7—extra power automatically takes over functions of the eliminated controls as for example, improved circuits pull the picture into synchronization without even minor adjustment of any manual control. The Brightness and Contrast Controls are combined by increased video amplification to give greater picture detail at lower brightness levels.

Other features include improved AF control on the sweep circuit for more stable synchronization; there is horizontal drive to permit use of higher voltage for brighter, sharper pictures with better definition. Audio output has been boosted to allow more favoring of the video signal at point where the audio is taken off. Improved automatic gain control maintains constant brightness and contrast when switching from one channel to another and to reduce such types of interference as "airplane flutter."

CONTROLS: (Front) Picture control regulates brightness and contrast, On/Off switch; Volume; 12-channel Station Selector. Non-operating controls on rear are Focus, Brightness, Horizontal Synchronization, Vertical Synchronization, Height, Vertical Linearity, Horizontal Drive, Width, and Horizontal Linearity.

PHYSICAL DATA: Smartly designed Mahogany Veneer cabinet in simple modern style. Selected striped grain veneers are rubbed to a smooth lustre. Polished brass escutcheon with attractive engine tool design. Size 20 in. wide, 23 1/2 in. high, by 21 1/2 in. deep. Shpg. wt. approximately 80 lbs.

CONNECTIONS: Flat 300-ohm twin-wire lead for connection of any standard television antenna, indoor or outdoor as determined by signal strength in your area. Power cord. For 105-125 volts, 60 cycle AC only.

17 TUBES PLUS PICTURE TUBE AND 2 RECTIFIERS: 6J6 RF Amp., 6J6 Osc., 6J6 Mixer, three 6AU6 IF Amps., 12AU7 2nd Det. and 1st Video Amp., 12AU7 2nd Video Amp. and 1st Sync. Separator, 12AU7 Sync. Separator and Sync. Amp., 12SN7 Vertical Osc. and Vertical Output, 6SN7 Horizontal Osc. and Horizontal Output, 6SN7 6BQ6 Horizontal Output, 6W4 Damper, 6AU6 Sound Limiter, 6AL5 Sound Discriminator, 6AV6 1st AF Amp., 6AQ5 Output, 16AP4 Picture Tube, 1 x 2 high voltage Rect., and 5Y3 low voltage Rect. For 105-125 volts 60 cycle AC.

B-A Stock No. 39A21. \$289.50
Complete as above NET EACH

**MODEL 520—16" CHASSIS
FOR CUSTOM INSTALLATION**

Provides big-picture television from installations to exactly suit individual requirements.

It's the identical chassis with every feature as described in Model 519 complete set above—needs only cabinet or mounting place in wall or built-ins. 8" PM speaker supplied with wood baffle for separate mounting.

Size overall 17 1/2 in. wide, 21 in. high by 22 in. deep. Complete instructions and folder of suggested custom-installations are included.
For 105-125 volt 60 cycle AC. **\$249.50**
No. 39A18. Shpg. wt. 65 lbs. Net Ea.

Complete front panel assembly (see illustration and description of right).

**sky rider
TELEVISION**

... made by a world famous manufacturer whose name you'd recognize immediately if we were permitted to tell you.

It's a name you can depend on—take it from us—for smart precision engineering and dependable performance—for the "know how" that has for over 15 years made it a leader in short wave and television equipment.



**Model 521-12 1/2" CHASSIS
with 92 SQUARE INCH PICTURE
for CUSTOM INSTALLATIONS**

Complete TV Chassis—needs only cabinet or mounting place in wall or built-ins—installs easily "just fit" for the huge demand for television installations "customized" to specific space or requirements.

Has every feature of the Model 520 chassis at left and is Model 519 except the picture tube (12LP4) is 12 1/2" instead of 16". Size overall 14 in. wide, 17 in. high, by 19 1/2 in. deep. 8" PM speaker supplied with wood baffle for separate mounting. Complete instructions and folder of suggested custom installations included. For 105-125 volts 60 cycle AC.

No. 39A17. Shpg. Wt. 60 lbs. \$189.50
NET EACH

Complete front panel, available separately (see below)



**FRONT PANEL FOR MODELS
524, 520 OR 521 CHASSIS**

Complete front panel assembly including safety glass mounted in wood frame of unfinished oak veneer which can be finished in blonde ("limed oak veneer") or stained either Mahogany or Walnut as desired to blend with other furnishings. Frame has holes for tuning knobs and completely covers chassis just like front panel of a regular set—makes it simple for built-ins either wall or cabinets.

For Model 521—16" W., 17 1/4" H. x 1". Wt. 7 lbs. **No. 36A105, NET EACH \$10.95**
For Model 520—20" W., 23" H. x 1". Wt. 7 lbs. **No. 36A106, NET EACH \$19.50**
For Model 524—16" W., 17 1/4" H. x 1". Wt. 7 lbs. **No. 36A107, NET EACH \$9.95**

CABINETS:
For 524 chassis, same as 513 **\$14.95**
For 521, same as 518 **\$14.95**
For 520, same as 519 **\$34.95**



**12 1/2 INCH MODEL 518
IN GLEAMING PLASTIC CABINET
92 SQ. INCH PICTURE**

AN OUTSTANDING TV VALUE! A 12 1/2 inch tube with a top performing chassis in a beautiful sturdy plastic cabinet—priced comparable to that of many 10 inch sets.

Has every feature of the Model 519 described at left except the picture tube (12LP4) is 12 1/2" instead of 16". Sleek plastic cabinet, has smart eye catching beauty. Size 16 in. wide, 17 1/2 in. high by 19 1/4 in. deep. Shpg. wt. approx. 90 lbs.

For 105-125 volts, 60 cycle AC **\$214.50**
No. 39A19. Net Each Complete



**10" PLASTIC CABINET
MODEL 513
EXCEPTIONAL VALUE! LOW PRICE!**

61 square inch picture area with rounded sides and flat top and bottom.

Smart, eye catching dark brown plastic cabinet. Convenient rotary tuner provides instant station selection on any of the 12 pretuned channels.

Chassis features: 19 tubes, plus Picture Tube and 3 Rectifiers—6AG5 RF Amp., 6C4 Osc., 6AG5 Mixer, four 6AU6 IF Amps., 6AL5 Video Det., 6AU6 Video Amp., 6AQ5 Video Amp., 6SN7GT Vertical Osc./Amp., 6SN7GT Horizontal Osc., 6BG6G Horizontal Amp., 6AL5 Sync. Disc., 12AU7 Sync. Separator and Phase Inv., 10BP4 Picture Tube, 6AU6 4.5 Mc Amp., 6A15 FM Dept., 6AU6 AF Amp., 6K6GT Output, 5V4G Rectifier Scanner, 1B3GT High Voltage Rectifier 5U4G Low Voltage Rectifier.

CONNECTIONS: Flat 300-ohm twin-wire lead for using any standard television antenna, indoor or outdoor as determined by the signal strength in your area. Power cord. For 105-125 volts, 60 cycle AC.

Modernly designed plastic cabinet with light green trim. Size 16 in. wide, 17 1/2 in. high, by 19 1/8 in. deep. Shipping weight approximately 98 lbs.

No. 39A15, \$174.50
NET EACH

**10" CHASSIS MODEL 524
FOR CUSTOM INSTALLATION**

It's the identical chassis with every feature as described in Model 513 above—needs only cabinet or mounting place in wall or built-ins.

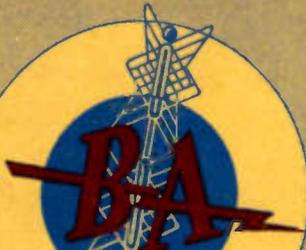
Size 13" W., 15 1/2" H., 20" D. **\$159.50**
No. 39A16. NET EACH

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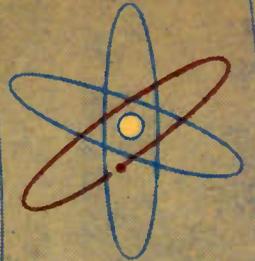
1950

HERE'S YOUR NEW Catalog OF EVERYTHING IN

NO. 501



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1012-14 MCGEE ST., KANSAS CITY 6, MO.



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\$3788
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PHILCO MODEL CR-9 for FORD and MERCURY CARS Also Easy to Install in Other Make Cars and Trucks

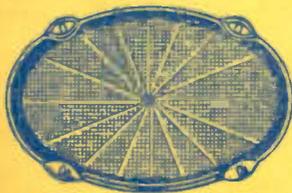
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- Continuously Variable Tone Control—Bass Compensation—Automatic Volume Control.
- Six Push Buttons, for Automatic Tuning of five stations and Manual Tuning.
- Powerful Superhet with five super-efficient Miniature Tubes, plus rectifier.
- Philco Tuning System makes station indexing accurate, positive.
- Three-Gang Permeability Tuner on Manual Tuning.
- Stabilized, Permeability I.F. Transformers.
- New Built-in Interference Filtering.
- Setting of Push Buttons is easily adjusted by merely turning the adjustment screws located under the push-button caps.
- Permeability tuned Oscillator and Antenna Circuits used on five Push-Button positions.



SEPARATE SPEAKER



6x9" Oval Dynamic Speaker, conceals behind instrument panel grille of car, gives wonderful clarity and richness of tone.

Compact chassis is enclosed in protective metal case with shock-cushioned mounting. Control head is an integral part of set.

Custom Fits instrument panels of 1942, 1946, 1947, 1948 Ford and Mercury Cars: Fits 1949 Ford Models by cutting out slight additional portion of instrument panel (template and complete instructions included with set).

Adapts itself for simple under dash mounting in Many Make Trucks. (Speaker can be mounted in simple baffle.) Also can be adapted for in or under dash mounting of many makes passenger cars.

Can be installed in instrument panels of Any Make Car that can provide in its instrument panel an opening size overall 8½" long x 2 5/32" high. Overall depth required behind panel 7½".

Owner Push-Button Adjustment

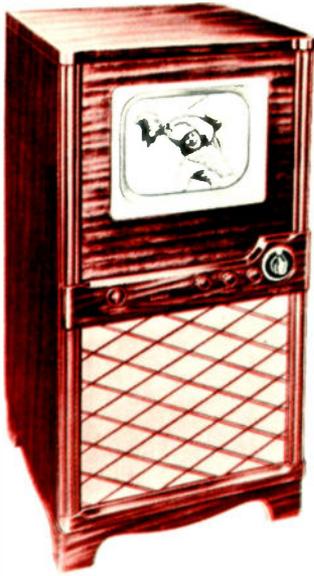
Setting of push-buttons is easily adjusted by owner or service man by merely turning the adjustment screws located under push-button caps.



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THANK YOU.

Custom Built for Ford and Mercury Cars

HURRY! ORDER YOURS TODAY WHILE STILL AVAILABLE



"TOP" VALUE CONSOLETTA WITH 12½ INCH TUBE

A popular large screen model with powerful 22 tube circuit includes 2 rectifiers and damper tube in a beautifully designed modern hand rubbed cabinet in mahogany veneer

Features: All channel coverage, Extra-high brilliance, High fidelity speaker, Balanced 300 ohm input, Improved signal to noise ratio, Tuned RF stage on all channels, Stabilized Lock-in circuit holds picture steady without flickering, Six simple tuning controls, Full FM Audio circuit, Fixed Focus adjustment

Oversize transformer plus many other electronic refinements make this quality consolette a "top" value. Backed by a maker known for quality products since 1922

Size 38½" x 20¼" x 20¾" deep. For 105-125 volts 60 cycle AC
No. 40A77. List Price \$339.95. NET EACH \$264.50



POWERFUL CIRCUIT 16-INCH TUBE CONSOLE

The product of a maker with proven ability in the production of television receivers of outstanding quality.

Here you get 145 square inches of brilliant television together with superb sound reproduction. The licensed RCA 630-Type chassis with 27 tubes plus 3 rectifiers and 16" picture tube is well known for its superiority, particularly so in fringe areas.

Features all channel coverage, Extra high brilliance, High-fidelity speaker, Balanced 300 ohm input, Improved signal-to-noise ratio, Tuned RF Stage on all channels, Simplified Audio-Video adjustment controls, Safety high-voltage supply, Full FM Audio circuit Fixed Focus adjustment, all coils permeability tuned, Illuminated tuning channel indicator. New stabilized synchronous Lock-in circuit holds picture steady without flickering.

The attractive console cabinet of Mahogany veneer is designed to take a minimum of floor space, dimensions 41 x 25¼ x 25¾" deep.

For 105-125 volt 60 cycle AC
No. 40A78, List \$479.95. NET EACH \$379.40



REMINGTON CONTOUR SIX

Improved Blue Streak twin shaving heads on a contour . . . 240 cutting blades Diamond-Honed to a keen edge . . . All whisker openings always in contact with beard. Precision features no other shaving instrument can offer! 110 volt AC-DC. Model 648. Retail for \$23.50.

\$16.45
No. 20B644. Net Each
 See page 122 for other Remington Models also for Electric Mixers, Toasters and other appliances

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 WOOD
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 PLASTICS
 LEATHER
 IT DRILLS!
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 IT SANDS!
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 IT POLISHES!
 IT ETCHES!
 IT GRINDS!
 IT BUFFS!
 IT CUTS!



Tool'N'Rak takes the clutter off a work bench . . . hangs up out of the way with other essential tools. Consists of solid hardware rack 7¾ x 12". Casco 110 volt AC-DC power tool and 38 accessories.

No. 33B44, List Price \$17.95. \$11.67
Dealers Price Each
3 Lots \$10.77
Each

See pages 81 to 91 for more Casco and other popular tools.

THESE 3 ONLY \$3.99



1. Belden 80 watt soldering iron with set screw type extra long ¾" copper tip . . . the regular wholesale price of it alone almost what we price all three.

2. Kraeuter "K" long nose pliers with cutter. Size 6".

3. Kraeuter "K" Diagonals. Size 5".
No. 17A830 \$3.99
Special, All 3

TELEVISION TURNTABLE



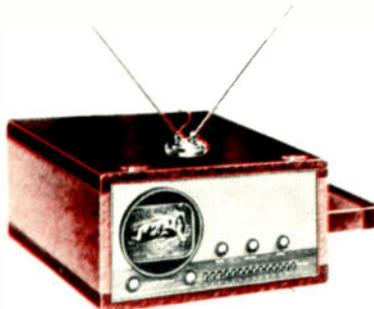
Designed for use on any table or shelf to accommodate from the smallest to the largest TV table set. Rotates noiselessly on 6 ball bearings with only slight touch. Non-skid rubbers protect table top and set. Provides 100% ventilation for set. Sturdily built of metal, nicely finished
No. 37A119. Shpg. Wt. 8 lbs. Net Each \$3.50



ROTATING TOP TABLE

The Ro-Tele-Table has full rotating top floating on a ball bearing unit. Ball bearings run in a captive race which prevents mis-function. Smooth turning through 360 degrees so that television set will face audience wherever they sit.

Shipped knocked-down but easily assembled without tools. Size 24 x 21 x 27" high. Shpg. wt. 26 lbs.
No. 40A80 Mahogany Veneer. NET EACH \$13.50



Skyriders Model 514 7-Inch Portable Television Set

The ideal all purpose television receiver. Carries easily from place to place, operates from its own antenna—no connections required except plugging in power cord. Antenna is adjustable for length and direction for maximum picture brightness.

The chassis is from the popular, proven Skyriders 7-inch models redesigned and improved for increased brightness and clarity and adapted to portable requirements. 18 Tubes plus Picture Tube and 4 Rectifiers. 23 sq. in. rectangular picture on face of the 7-inch tube. The well known push-button tuning provides instant station selection on any of the 12 tuning channels.

Sturdy wood cabinet covered with tan leatherette. Cover with carrying handle hinges and snaps to tuning side. Matched antenna extends from top of cabinet. Size overall 20 in. wide, 10½ in. high by 18¾ in. deep. Shpg. wt. approx. 53 lbs.

For 105-125 volt 60 cycle AC only.
No. 39A20. EACH \$119.50

TELEVISION SIGNAL BOOSTERS



FOR IMPROVED PICTURES IN POOR SIGNAL AREAS

REGENCY MODEL DB-213

The booster bargain of the year! Actually two boosters in one giving peak performance on all channels. Has proper design to receive the full picture and sound channels of each station without distortion.

Uses a separate dual 6J6 triode tube in an iron core tuned, push-pull RF amplifier circuit for both the "low" channels and the "high" channels, giving high stability and high gain with the best signal-to-noise ratio. Single control tuning allows "peaking" of each channel. Internal impedance matching at input and output accommodates either 300 ohm twin lead or 73 ohm coax line. With the booster turned "off", the antenna lead is connected straight through to the TV set.

In a beautiful grey hammertone finished metal cabinet with non-scratching rubber feet. Size 5 1/4" W., 3 1/4" deep, 4" high. Wt. 3 lbs. Operates on 110 V. 60 cycle AC. Complete with simple instructions. **\$17.61**
No. 37A110, Net Each

JERROLD MODEL TV-FM

For improving reception of both television and FM broadcasts. Widely acclaimed for long distance reception. Increases signal strength 20 to 30 times on all TV and FM channels without distortion.

Comes with the new "Match-A-Tran" variable impedance matching transformer assuring that all the gain of the booster is delivered to the TV receiver. Uses a 6AK5 tube in a tuned grid, tuned plate RF amplifier circuit with proper grid and plate inductances switched into the circuit for each channel, achieving top performance in both the "low" and the "high" bands. Can be "peaked" for each channel by means of a thumb operated vernier dial. Either 300 ohm twin lead or coax line may be used. When the booster is "off", the antenna is switched to the television receiver.

The cabinet is walnut molded plastic size 7 1/4" wide, 6 1/2" deep, 4 1/2" high. Wt. 4 lbs. For 110 V. 60 cycle AC. Supplied with instructions. **\$22.05**
No. 33B14, Net Each

ANCHOR MODEL ARC-101-50

Operates with any television receiver to give clearer, brighter, sharper pictures anywhere. Recommended by a leading research organization and accepted by users as one of the best boosters available.

Carefully engineered for uniform high gain in signal strength and full video and audio band width across all channels. The circuit uses a stable 6AK5 RF amplifier with simultaneous tuning of grid and plate for "peaking" each station. Will amplify weak TV signals without generating noise or interference and helps prevent "snow" patterns caused by neon signs, street cars, etc. Also prevents inter-channel interference of other TV, FM, broadcast or amateur stations. A system of impedance matching transfers full output of booster to TV set.

The cabinet is steel, handsomely finished in brown-tone leatherette. Size 8 3/4" wide, 5" deep, 4" high. Wt. 6 lbs. Operates on 110 V. 60 cycle AC. With full instructions. **\$22.05**
No. 33B16, Net Each

MASCO MODEL MTB-13X

Equally effective on "low" and "high" bands due to an exclusive gain and sensitivity "peaking" control for channels 7 to 13. Operates with any television receiver and eliminates need for outdoor antennas in many locations.

Features: Extremely stable, wide-band RF amplifier circuit using 2-6AK5 tubes; Variable tuning for maximum signal on each channel; additional fine tuning control for channels 7 to 13; reduces TV inter-channel interference as well as FM, short wave and broadcast station interference; "off-on" and channel selector switch cuts booster out of circuit for regular reception; pilot light shows when booster is operating; has self-contained power supply using a selenium rectifier.

Furnished in attractive walnut cabinet. Size 5 1/2" wide, 5" deep, 5 1/2" high. Wt. 3 lbs. To be used on 110 V. 60 cy. AC. Installs easily. Complete, simple instructions included.

No. 33B15, Net Each **\$20.58**

THE NEW TELEKITS

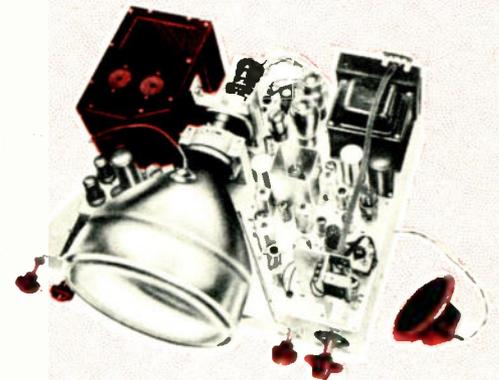
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30 TUBE
PHILMORE
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FOR LONG-RANGE
RECEPTION

CIRCUIT
SIMILAR
TO FAMOUS RCA
630TS AND 830TS



ELECTRO-TECH TELEVISION KITS — LEARN AS YOU BUILD

Top notch receiver kits with instructions so clear and simple that the most inexperienced beginner can assemble them! Expertly designed by outstanding TV engineers around high quality parts and backed by the manufacturer's guarantee of performance. Kits include new pre-assembled and adjusted 13-channel tuner, pre-tuned IF coils, new high voltage transformer, chassis and absolutely all parts and hardware. Sound is high fidelity FM. For 110-volt, 60 cycle AC operation.

MODEL 7B 7-INCH TELEKIT

Employs 18 tubes including 7JP4 picture tube. Circuit uses wide band IF line-up with 6AG5 tubes and RF high voltage supply with 2nd anode potential of 5500 volts. Also provides a bright, clear, 52 square inch picture on 10HP4 10" tube with no changes whatever. Instruction Manual included.

No. 34A163. 7" Telekit. Less Tubes and Cabinet. Shpg. Wt. 30 lbs. **\$59.50**
NET EACH

No. 34A164. Kit of 18 Tubes, including 7JP4. Wt. 10 lbs. **\$40.08**
NET EACH

No. 34A165. Walnut Cabinet for 7" Kit Above. Wt. 11 lbs. **\$24.50**
NET EACH

MODEL 10B 10-INCH TELEKIT

Similar to above with additional circuit refinements including AFC Horizontal Hold Circuit, Horizontal Flyback, 10,000-volt Power Supply, Electronic scanning and focusing. Uses 19 tubes including 10BP4 or 10FP4 picture tube. Simple, easy to follow instruction manual included.

No. 31A234. 10" Telekit. Less Tubes and Cabinet. Shpg. Wt. 40 lbs. **\$82.99**
NET EACH

No. 31A235. Kit of 19 Tubes, including 10BP4. Wt. 15 lbs. **\$55.63**
NET EACH

No. 31A236. Walnut Cabinet for 10" Kit Above. Wt. 16 lbs. **\$24.50**
NET EACH

PRE-ALIGNED 16-INCH TV KIT WITH SIMPLE STEP-BY-STEP INSTRUCTIONS

Turner, video and sound channels are completely wired and pre-aligned. All components are mounted to chassis. When completed, results will be equal to the best custom-built television receiver available. The circuit employed is of the most modern and efficient design, similar to the RCA models 630 and 830TS which are acclaimed as the finest long range sets available today. All major components, including the 12-channel front end tuner are genuine RCA parts.

The KP-30D kit contains the chassis with all components mounted; 30 RCA tubes including rectifiers, 14,000 volt power supply, mounting brackets, plastic rim and sleeve for a 16AP4 16-inch picture tube; 5"x7" oval PM speaker with 3.2 ohm voice coil; all hardware and wire; plus simplified step-by-step instructions. Less picture tube.

No. 39A23, Your Cost... **\$179.95**

CUSTOM-BUILT 16-INCH TV CHASSIS FOR LONG-DISTANCE RECEPTION

Brilliantly lighted, big-picture television and high fidelity FM sound — plus the convenience of a custom installation to exactly suit your requirements — at a big saving in cost!

Wired complete, aligned and tested, and ready to operate except for the 16-inch picture tube. Uses the same high grade components as the KP-30D kit at left and the same famous circuit with all its outstanding features, including AFC horizontal hold and stabilized vertical hold for steady pictures; full 4 mc. band width for picture channel and a reduced hazard high voltage supply to operate a type 16AP4 picture tube at full brilliancy.

Chassis size 19 1/2" wide, 16 3/4" deep. Overall height with 16" tube 20". Wt. 64 lbs. Operates on 115 V. 60 cy. AC. With speaker and all tubes except 16AP4 picture tube. Model CP-30D.

No. 39A22, Your Cost... **\$194.50**

**New STEPHENS "RED LINE"
SUPER CO-SPIRAL SPEAKERS**



**ECONOMY HIGH FIDELITY
2-WAY SPEAKER SYSTEMS**

15-INCH SUPER CO-SPIRAL SPEAKER

Full 20-watts power handling capacity! Provides music reproduction far beyond the range of "ordinary" speakers of any type; brings to the discriminating listener, at surprising low cost, full range high fidelity frequency coverage that assures a **NEW LUXURY IN MUSIC LISTENING PLEASURE!** Highly recommended for modernization of existing Radio-Phono combinations, Record Players, or in a complete new custom built system. FEATURES: Two acoustic sections, one reproducing fundamental bass tones and the other for the most extended high tones! Full frequency range is 30 to 14,000 cps, flat ± 5 db from 50 to 9,500 cps. Top electro-acoustic transfer efficiency is obtained by use of 4-pounds of the new, super-powerful Alnico-V "Orange Streak" magnet material. Seamless, molded curvilinear cone with unusually low resonance of 45 cps. Silver-Spiral diffuser—the secret providing the fine coaxial reproduction—produces 90 high frequency dispersion, perfectly balancing the dispersion of the curvilinear low frequency cone! Other valuable features include cast aluminum speaker frame, holding all parts in perfect alignment; dustproof construction; full 1-year guarantee against defects in material or workmanship! Overall diameter is 15 1/8", depth behind baffle, 8 1/2"; 8-ohm voice coil. Wt. 27 lbs.



No. 40B32; "STEPHENS" 102FR Super Co-Spiral 15" Speaker, Net **\$52.92**

MODEL P-22FR 12-INCH SUPER CO-SPIRAL SPEAKER

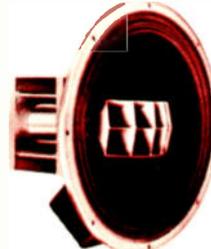
Construction and specifications identical to those above for 15" model, except has 2 1/2-lbs. of Alnico-V super-power magnet material and power capacity of 12-watts. Ideal replacement for many Console Radio-Phono combinations. Overall diameter is 12 1/8"; depth behind baffle, 7 1/2". Mounting holes matches those of standard 12" PM speakers, simple to install and connect. 8-ohm voice coil, wt. 22 lbs.

No. 40A33, "STEPHENS" P-22FR 12-inch Super CoSpiral Speaker **\$41.16**

TRU-SOMIC SUPER COAXIAL 2-WAY SPEAKER SYSTEM

15-INCH; 20-WATT 2-WAY SPEAKER

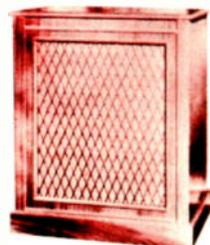
Modern, improved version of the famous P-52A; the new Stephens' Model 106AX is recommended as "best" for FM and Television sound, AM radio, Broadcast Station monitoring, Recording Studios, and the home Radio-Phono or Custom Music System. FEATURES: 6 1/2-pounds of new super-power Alnico-V orange streak magnet material! Special design LX Cone of the low frequency "wafer" section has a new and lower resonance of 41 cps, and an effective area of 127 sq. in., is seamless, moisture resistant, and has 2" diameter voice coil. The high frequency multi-cellular "Tweeter" unit has a 1 1/2" dia. voice coil and diaphragm resonance of 400 cps; special design of the cellular horns provides a dispersion angle of 40° x 60°, the widest of any coaxial speaker! Low cross-over frequency of 1200 cycles relieves the high frequency driver of low frequencies, thus reducing distortion! Frequency response is ± 5 db from 35 to 12,000 cps, usable range 20 to 15,000 cps! Overall diameter is 15 1/8", baffle opening 13 1/2", depth behind mounting panel, 10 1/2". Voice coil, 16-ohms. Wt. 30 lbs.



No. 32B37; Model 106AX 2-WAY SPEAKER SYSTEM **\$105.84**

**STEPHENS TRU-SONIC
HIGHEST FIDELITY
COMPLETE 2-WAY
SPEAKER SYSTEMS**

Provides Theatre Quality sound reproduction of AM-FM Radio, TV sound or phonograph records! Engineered to please the most critical listener!



MODEL P-52HF-SD DE LUXE MAHOGANY CABINET MODEL P-52HF-SD 2-WAY SYSTEM

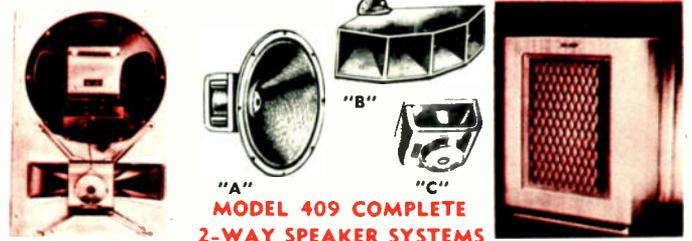
(illus. left above) A complete, ready to use high fidelity music reproduction system, housed in a Mahogany cabinet of exterior design to "fit" in any surroundings in Home, Club, Funeral Parlor, Dance School, Hotel Lounge, Auditorium or any location where only the finest in sound reproduction will suffice! Specifications: Designed to handle up to 20-watts of audio power! Super power low frequency 15" Woofer speaker with 6 1/2 lb. Alnico-V input with frequency response of ± 5 db from 40 to 14,000 cps. Components: magnet; 1-P-15 High Frequency Driver Unit ("Tweeter") coupled to an 8-cell cellular high frequency horn (2x4 configuration), providing 40° x 80° dispersion. "Wafer" and "Tweeter" speakers inter-connected by the required Type 800X low-loss electrical crossover dividing network—all components properly connected with 2-leads brought out to back of cabinet, ready to connect to any 16-ohm audio power source. Cabinet is acoustically treated an interior to bring resonant point to 37 cycles. Size is 28 3/4" w., 36 1/2" h., 19" d., wt. 140 lbs.

No. 40A29/P52HF, Dark Mahogany 2-Way Speaker System **\$258.72**
No. 40A21/P52HF, Bleached Blonde Mahogany 2-Way System

MODEL 411 COMPLETE 2-WAY SPEAKER SYSTEM, UTILITY CABINET

(illus. right above) Designed for custom installations where results must please the most discriminating high fidelity enthusiasts. Acoustically correct cabinet is finished in beautiful Silver Hammetone with wine color flaked grille; provides deluxe appearance, unusually wide frequency range and low intermodulated distortion. Has same components as listed above for Model P52HF-SD. High frequency attenuator on back of cabinet for balance of room acoustics. A 20-Watt speaker system with range of ± 5 db, 35-14,000 cps. Size, 24" w., 36" h., 16 1/2" d. Wt. 140 lbs.

No. 40B26; Model 411 Utility 2-Way Speaker System, Net **\$196.98**



Specifications of component parts of Model 409 2-way speaker systems:—

"A" (illus. center above) 15-Inch, 20-Watt "Woofer" Speaker, powerful generator of deep fundamental bass tones. Has 4-lb. Alnico-V magnet, 2-inch, 16-ohm voice coil and 125 sq. in. effective area of the curvilinear, seamless and moisture resistant cone, promoting an ideal piston-like action of the diaphragm. Flux density of 14,000 lines per sq. inch. Frequency range is flat within 4 db from 50 to 5,000 cps. Dia. 15 1/8", baffle opening is 13 1/2", depth behind baffle, 8 1/2". Wt. 25 lbs. **\$47.04**

No. 40A35; Model P-52LX 15" Woofer Speaker, Net **\$18.37**
"B" (illus. top center above) 1 x 4 configuration cellular horn; for use with P-15 driver unit—provides wide dispersion of high frequency portion of voice or music. Has 4-cells, each 4"x4"x11" deep, with mounting throat for type P-15 driver unit. Wt. 8 lbs.

No. 33C39; Model 814H Cellular Tweeter Horn only, Net **\$41.16**
"C" (illus. lower center above) Type P-15 "Tweeter" PM Driver Unit; has frequency range of 500-15,000 cps; designed for up to 20-watts of audio power input. Voice coil is 16-ohms impedance. Size, 4" x 6" x 3 3/8"; wt. 12 lbs. P-15 MUST be used with Type 800-X2 Crossover Network, type 814H cellular horn, and type P-52XL "Woofer" speaker listed above, or any good PM type speaker with 16-ohm voice coil.

No. 32B204; Model P-15 "Tweeter" Driver Unit only, Net **\$18.37**
MODEL 800X-2 CROSSOVER NETWORK. (not illus.), "divides" frequencies of audio input, routing "highs" to P-15 driver and "lows" to P-52LX, or other good "woofer" low frequency speaker. Wt. 4 lbs.
No. 33C42; Tru-Sonic 800-Cycle Model 800-X2 Crossover, Net **\$18.37**

"ECONOMY" COMPLETE 2-WAY SPEAKER SYSTEMS

(Left above), Model 409-B Assembly, 1-each of ALL the components as listed and described above; mounted on heavy wood baffle size 18" w x 27" h x 14 1/2" d. Tweeter and Woofer speakers are connected to Crossover, ready to connect to any 16-ohm output. An ideal 2-way speaker system for custom mounting in cabinet or wall. Wt. 40 lbs. **\$117.60**
No. 40B5; Model 409-B 2-WAY SPEAKER SYSTEM, Net

(Right above), Model 412 Complete Cabinet Mounted 2-Way Speaker System; Consists of 409-B components listed above, completely installed in a beautiful high-fidelity, acoustically correct cabinet! A complete wide-range, high fidelity speaker system assuring the finest of musical reproduction from AM-FM Radio, Television Sound, or Records. Cabinet is of choice Mahogany veneer 3/4" wood, fully enclosed and with interior "sound conditioned" by proper use of acoustic materials. Resonant frequency of cabinet is 42 cps; release part prevents objectionable "boom." Diamond design, heavy brass plated metal welded grille backed by special old gold grill cloth. Size is 24" w., 32" h., 17" d.; 6 cu. ft. content. Only two simple connections to make to any 16-ohm audio output. Cpt. wt. 100 lbs.

No. 40B6; MAHOGANY 2-Way Speaker System, Choice **\$194.04**
No. 40B7; Bleached BLONDE 2-Way Speaker System, Each

"TRU-SONIC" DE LUXE SPEAKER CABINETS ONLY

The identical cabinet as described in detail above in choice of highly polished Dark Mahogany or Bleached Blonde finishes. Supplied complete with baffle cut for any standard 15-Inch Speaker. Release part in baffle eliminates "boom" from speaker. Recommended as the finest possible cabinet for Model 102FR Co-Spiral and Model 106AX 2-Way Speaker as illustrated and described at left of this page. Wt. 60 lbs.

No. 40A17; Dark Mahogany Cabinet only **\$76.44**
No. 40A16; Bleached Blonde Mahogany Cabinet only, Choice, Net Each

MASCO 12-WATT HI-FIDELITY PHONO AMPLIFIER

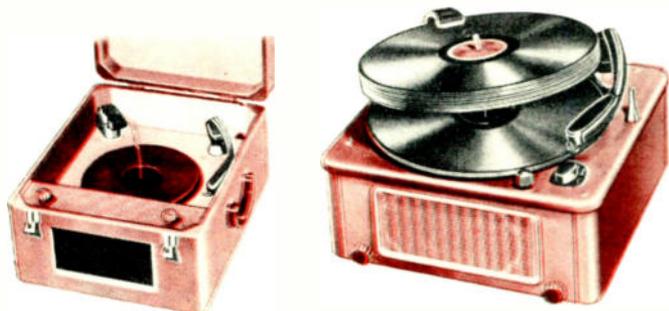
MASCO MODEL MA-12HF—"tops" in Hi-Fidelity amplifiers; for use with any of the speakers or systems on this page—or any good wide-range speaker. The perfect amplifier for home use with Radio or Record Changer—especially adapted for use by Recording Studios and Radio Stations for recording and bridging applications—a fine distribution amplifier for wired music use! Features: Compensated inputs for ALL types of phono pickups—"GE", "Pickering", or crystal—radio Tuner Input. 12-Watts output at less than 5% distortion (9-watts at less than 2%)! Frequency response is ± 2 db 50 to 15,000 cps; tone controls at "normal". Output impedances are 2-4-8-15-500 ohms to match Stephens, Altec, or most any other good speaker! Hum level is 65db below 12-watts output level. Input sensitivity and gain, GE, Pickering or other magnetic reluctance pickups, .008 volts (90db); high level crystal pickup, 1.5 volts (60db); low level crystal pickup .45 volt (70db); Radio Tuner, bridging, .3 volts (75db). Separate Bass and Treble Controls provide: H. F. boost up to 16db and 16db attenuation at 15,000 cps; Bass boost to 14db at 50 cps.—bass and treble controls have little effect at middle register. Tubes: 1-65C7, 2-6SL7GT, 2-6V6GT, 1-5Y3GT (rectifier). Power consumption is 80-watts at 117 volts, for use on 105-125 volt, 60 cy; AC. Steel cabinet is 12" x 8" x 8 3/8" high, finish is 2-tone blue-grey hammetone. Wt. 20 lbs. U/L Approved. Stock No. "MASCO" MODEL MA-12HF **\$55.86**
No. 30C13 Hi-Fidelity Phono-Radio Amplifier, Net



Additional listings of Phono Amplifiers are on Page 11 of this catalog. For Record Changers, F.M. Tuners, Radio Chassis, see Pages 8, 142.

**VM 3-SPEED AUTOMATIC PHONOGRAPHS
PLAYS ALL RECORDS ON THE MARKET**

**Masco "SOUND REEL" Portable
TAPE RECORDER RADIO**



- FEATURES:**
- 3 SPEED MOTOR—78 RPM, 33 1/3 RPM, 45 RPM
 - FOOLPROOF—JAMPROOF CHANGER
 - SIMPLE TO OPERATE
 - SINGLE TONE ARM—PLAYS ALL THE RECORDS
 - ATTRACTIVE—FITS IN ANYWHERE

HERE'S TONE QUALITY comparable only to that of large console Radios and at a Price One Can Afford. In the living room. In the rumpus room. In the summer cottage or winter home they're unexcelled for record entertainment. Complete ready to use. Automatic changer, 3 tube amplifier (Including Rectifier), and 4"x6" Speaker are combined in one unit.

CHANGER PLAYS conventional 78 RPM 10" and 12" records and Columbia 33 1/3 RPM LP 10" and 12" records automatically; 7" Columbia 33 1/3 and RCA 7" 45 RPM Records Manually. A Record adapter is supplied for the RCA 45 RPM Records.

SINGLE TONE ARM with dual-needle reversible Cartridge has finger-tip controlled lever for easy converting to either type record. Speed-selector switch with 4 positions—78 RPM, 33 1/3 RPM, 45 RPM, and "OFF"—adjusts motor to correct speed. Has both tone and volume controls.

PORTABLE MODEL 8025

It's Light-weight—Carry it Anywhere—In Auto, Bus, Train or Plane. In attractive all-weather brown leatherette case, it's tops in appearance as well as performance. **Weight**—only 23 lbs. Overall Size 9 x 15 x 2". Operates on 110 volt 60 cycle AC or DC. List Price \$69.95.

No. 30B125 **COMPLETE, YOUR COST EACH** **\$46.66**

TABLE MODEL 8022

Attractively Styled throughout. It's a natural for any home. It's sturdy, compact, and easy to move around. Perfect also for commercial sound installation such as dance schools, clubs, schoolrooms, etc. List Price \$59.95.

No. 30B53. **YOUR COST EACH** **\$39.99**



School Band



Public Speaking



- Continuous Full Hour of Recording or Playback
- Simple to Operate — Completely Foolproof
- Self-contained AM Radio
- Can be used as PA System

A completely foolproof and dependable magnetic tape recorder with a built-in AM radio. Records from microphone, self-contained radio or phono. Has additional facilities for use as a PA system. An ideal unit for home, school, church — anyplace desiring a good tape recorder combination.

Simple to Operate. Slow tape speed (3.75 inches per second) provides a continuous full hour of recording and playback on a reel rated 1/2 hour when used on other recorders. Tape can be used over and over again — Unit erases previous recordings as it records — Safety feature prevents accidental erasure when in rewind. "Fast forward speed" control permits skipping of unwanted portions of recording during playback or editing. Rewind time for full hour reel — 2 1/2 minutes.

Quality Performance—Records in one direction on a single track. Frequency Response: + 3 db. 100-6000 cps. Heavy flywheel on capstan drive prevents flutter and wow. Heavy duty motor has "Oilite bearings."

Modernly Designed Superhet radio with 6 tubes plus rectifier, 9 x 6" PM speaker. Volume and tone controls; output jacks for use of external speaker and phones

Completely assembled in an attractive two-piece brown simulated alligator covered carrying case. Has storage space for microphone and tape reels. Supplied with Electro Voice No. 915 microphone, 7 1/2 ft. cable and plug. Size 19 3/4" x 16 5/8" x 10 1/4". Wt. 48 lbs. List Price \$218.50.

No. 32A55 Model R3. **NET EACH** **\$142.76**

Masco Model 375 TAPE RECORDER

Has all the features and specs. of Model R3 described above except less the radio. Amplifier consists of 4 tubes plus rectifier. Furnished complete with tubes, mike with cable and plug and built-in speaker as in R3. List Price \$189.50.

No. 31B227 Model 375. **NET EACH** **\$123.80**

PHONOGRAPHS—Triple, or Single Speed—Complete Ready to Play



3-SPEED TABLE MODEL

Plays 33 1/3-45-78 RPM Records
A sleek beauty in its walnut molded plastic cabinet. Plays the new 45 RPM records as well as the 33 1/3 and standard 78 RPM records with its own built-in amplifier and speaker. Pickup arm is equipped with dual needles—one for the standard-groove—the other for the micro-groove records. A flip of the finger changes from one to the other. 3-position lever selects proper speed. It's as simple as that. Bakelite spacer is supplied for the large hole in the 45 RPM records. Size 11" wide, 4" high and 15" deep. Operates on 110 V. 60 cycle AC.
No. 34A187 **EACH** **\$17.95**

SINGLE SPEED TABLE MODEL

Plays Standard 78 RPM Records
Walnut Plastic Cabinet identical to one described in unit above.
No. 30A168 **EACH** **\$14.95**



3-SPEED PORTABLE MODEL

Plays Them All

Low Price, Trouble-free performance and 3-speed operation combine to make this a real value. Plays all records, 7", 10" or 12"—78, 45 or 33 1/3 RPM. Extremely compact for easy portability—carry it anywhere. Simple to operate. Slide switch instantly regulates speed of the precision built motor, while fingertip controlled lever on tone arm selects proper needle for record being played—standard or microgroove. Single tone arm provides dual needle reversible type cartridge for playing all type records.

Smart, sturdy portable case covered in two-tone leatherette. Complete with built-in amplifier and speaker. Overall size 17"x13"x7". Wt. 13 1/2 lbs. List Price \$39.95.
No. 34A188. **Net Each** **\$26.95**

In Lots of 4 or More **\$25.95**



SINGLE-SPEED PORTABLE

"World's Smallest"

Portable in the full sense of the term — only 9 x 10 x 5 1/2"—weighs only 7 1/2 lbs. No bigger than a woman's make up box, yet it contains a full size phonograph to play both 10 and 12 inch standard 78 RPM records with a superb tone-quality, made possible with its balanced amplifier and Alnico No. 5 speaker. Cabinet of sturdy wood covered with an attractive leatherette for pleasing appearance and long life.

No. 31A233 **Your Cost, Each** **\$16.85**

Lots of 3, Each **\$16.05**

3 SPEED PORTABLE

Plays all records 78, 33 1/3 and 45 RPM. Has dual needle reversible cartridge. Smart luggage type cabinet, size 6 1/4" x 12 1/2" x 10 1/2". Wt. 12 lbs.

No. 30B131. Cpte. with 2 needles. **Net Each** **\$19.97**

**"Magnetape" Twin-Trax
TAPE RECORDER CHASSIS**



For use with any existing amplifier by making only minor changes, or with special amplifier easily constructed from designs furnished with unit.

A modern precision built unit that provides a continuous full hour of recording and playback on a standard 7" reel of 1/4" tape. Records on two sound tracks—one forward and one reverse—with automatic switch and solenoid far instantly reversing direction of tape. Tape threads easily. Records at 7 1/2 inches per second, without slippage, flutter or wow. Dynamically and electrically balanced heavy duty motor is quiet and will not overheat. Complete supersonic or DC erasure is provided by twin electronic erase head. One tape channel can be used for compression—expansion control. Can also be used for twin-channel stereophonic recording.

Chassis size, 13 1/2" long, 10 1/8" wide, extends 5" below and 1 1/2" above panel. 110-volt 60 cycle AC. Wt. 19 1/2 lbs.

No. 34A174. Model 808 Chassis with empty tape reel and 32-page instruction book. **NET EACH** **\$89.50**

10-TUBE TWIN-TRAX AMPLIFIER. Far use with above chassis for magnetic recording and playback. With 50 KC supersonic erase and bias oscillator.
No. 34A182. Each with Tubes \$149.50

RECORDERS and RECORDER COMBINATIONS



Portable WIRE RECORDER RADIO & PHONO

A B-A feature value . . . the product of a top flight maker. This versatile unit combines in one compact unit a quality wire recorder, superhet radio and 78 RPM record player with crystal pickup. Ideal for home, school, church or office.

Records up to a full hour on wire direct from microphone, built-in radio or phonograph. Automatically erases as it records—wire can be used over and over again. Simple even for the most inexperienced to operate. Threading is made easy by plastic leaders on end of wire. Automatic shut-off at end of wire on both forward and reverse prevents wire entanglement. Neon bulb indicates proper volume level during recording. Synchronized timing meter indexes recording for quick location of specified parts to be replayed—eliminates guess work. Has a high speed rewind.

The superhet radio uses six tubes plus rectifier . . . features high selectivity and superlative tone. Frequency response: 75 to 7500 cps. Has additional built-in facilities for use as PA; 3 panel jacks provides outlets for extra speaker and amplifier, input for recording from an FM tuner. Smart, sturdy, luggage type carrying case, covered in top quality simulated leather. Complete with tubes, built-in loop antenna, crystal mike with 6 ft. cord, two spools of recording wire, and long-life phono needle. Size 14 5/8 x 19 1/8 x 9 5/8" high. Wt. 35 lbs. Operates on 105-120 V., 60 cycle AC.

No. 31B219
NET EACH

\$149.50



Portable TAPE RECORDER

A top quality make for less . . . that's why we can't mention the maker's name.

Features recording and playback on tape with superb tone quality and excellent operating performance. . . . Ideal for home, church, school, office, etc. Can be used also as a small coverage PA system.

Records up to a full hour on a standard 7" reel of tape direct from microphone, radio or record player. Simple to operate. All controls are clearly marked. The correct volume level for recording is indicated by a neon bulb indicator. Synchronized timing meter indexes all recordings—enables the fast locating of any specific part of recording. Has both fast forward and reverse speeds rated at 4 times the recording or playback speed. Automatically erases as its records—tape can be used over and over again.

Well built tape recorder mechanism with twin track head records on both edges of tape—one edge while operating in forward, the other while in reverse. Tape speed 7 1/2 inches per second. Fly-wheel type capstan drive eliminates "waw" and "flutter". Five tube AC amplifier has a full 6 watts power output for PA use. Outlet jacks are provided for extra speaker and external amplifier. Frequency response—50 to 7000 cps.

Sturdy handsome leatherette covered carrying case. Furnished complete with tubes, built-in speaker, reel of tape take-up reel, high gain crystal microphone with 6 ft. cord. Size 21 3/4" W. x 9 1/2" H. x 12" D. Operates on 105-120 V, 60 cycle AC.

Wt. 35 lbs.
No. 31B17. NET EACH

\$127.50



AIR KING PORTABLE WIRE RECORDER

- Complete with Amplifier
 - Records from Microphone, Radio or Phono
 - Compact—in Smart Luggage Type Carrying Case
- Moderately priced recorder, designed to give dependable long lasting service. Records up to a full hour of voice or music from microphone, radio or phonograph.

Simple to operate. No complicated controls to adjust. Recording at correct volume level assured by neon indicator. Erases old recording as new recording is being made. Safety lock prevents accidental erasure of recording while being played. Rewind speed: six times the forward speed. In handsome leatherette covered carrying case. Complete with crystal mike; plug-in mike card; plug for recording direct from radio or phono; Built-in 5" Alnico V PM Speaker and Amplifier with four tubes plus rectifier. Size 13 3/4" long by 12" wide by 9" high. Wt. 21 1/2 lbs. Operates on 110-125 V. 60 Cy. AC. List Price \$99.95.

No. 31A249. Model A-725. NET EACH **\$68.80**

AIR KING Portable WIRE RECORDER PHONO COMBINATION

Has all the features and specs. of the Model A-725 listed above PLUS provision for playing 78 RPM 10" & 12" records. Also records on wire direct from the disc records.

Leatherette covered luggage type carrying case. Complete with crystal mike and pickup, tubes, speaker. Cable for radio attachment, and two 15 minute spools of wire. Wt. 30 lbs. List Price \$139.50

No. 30B19
Model A-750-1 Net Each. **\$90.81**

MEISSNER

PORTABLE RECORDER RADIO & PHONO

- RECORDS FROM MICROPHONE, RADIO or PHONO
- COMPLETE, IN ONE COMPACT UNIT
- CAN BE USED AS A PA SYSTEM
- FINE RADIO RECEPTION



A four-in-one unit covering a wide variety of uses. Combines rugged construction with operating simplicity. Makes standard recordings up to 10" at 33 1/3 or 78 RPM from microphone, self-contained radio or external phonograph. Neon bulb indicates correct volume level when recording. Plays at either speed. Recordings on Standard discs up to 12". Superhet radio with built-in loop antenna provides smooth radio reception with excellent sensitivity and selectivity.

In attractive luggage type carrying case. Complete with 7 tubes plus rectifier. With connection for extra PA speaker. Has storage compartment for records in lid; and compartment for microphone and cable furnished, in cabinet. Size 19 1/2" x 19 1/2" x 9 1/4" high. Wt. 40 lbs. List Price \$174.50.

Stock No. 30A170
NET EACH

\$111.28

RECORDING TELEPHONE CONVERSATIONS IS NOW POSSIBLE

Both sides of a telephone conversation can be recorded by using "Teleducer" or "Tele-Pickup" in place of microphone. Simple to use—no wiring, or direct connection to phone is required. Must be used in accordance with FCC regulations.

TELEDUCTER—Model 1175—Fits under French type telephones. 12 ft. shielded cable is supplied. **\$10.29**
No. 17B680. YOUR COST



TELE-PICKUP—Model 1125—For wall type or ringer box type telephones. 6 ft. shielded cable is supplied. **\$4.12**
No. 17B681. YOUR COST

RECORDING ACCESSORIES

Recordisc Super Tone RECORDING WIRE



Stainless steel recording wire, designed for superior performance, outstanding durability, ultra-high fidelity, and easy erasing. Spooled on RMA Standard metal spools to fit any standard wire recorder. Plastic leaders are supplied on end of wire—can be snapped off with scissors where not needed. In three convenient lengths.

14A656-1/4 HOUR SPOOL . . . \$1.25
14A657-1/2 HOUR SPOOL . . . 1.88
14A658-1 HOUR SPOOL . . . 3.15

EMPTY RMA STANDARD WIRE SPOOL
Metal spool—fits standard wire recorders.
No. 14A655. NET EACH **48c**

Audiotape RECORDING TAPE



Paper base tape designed for unmatched performance in any magnetic tape recorder. Has high fidelity with freedom from background noise and distortion. Precision developed and made. 1250 ft. of tape on standard 7" aluminum reel gives 33 minutes of recording, time at 7 1/2" per second speed and 1 hours time at 3.75 inches per second.

No. 18A416 **\$3.00**
Each

12 Reels **\$2.70**
Each

For Professional Tape, Webster Recording Wire & other Recording Accessories see Page 25.

Recordisc Quality Home RECORDING DISCS

Record on both sides.

Orange Label—Bond Base
For home and practice use where a low price disc is required. Thick compo base. 6 to Pkg.

Size Disc	No. Stock	Per Pkg.	10 Pkg. Lots @
6 1/2"	18A308	\$.62	\$.53
8"	18A310	1.03	.88
10"	18A311	1.44	1.23

Red Label—Aluminum Base
Made on heavy .021 aluminum, the last word for recording. Compares with those used by broadcasting stations and studios. 5 to Pkg.

Size Disc	Stock No.	Per Pkg.	10 Pkg. Lots @
6 1/2"	18A359	\$1.03	\$.88
8"	18A360	1.37	1.18
10"	18A361	2.06	1.76

THREE SPEED CHANGERS PLAY ALL RECORDS AUTOMATICALLY



(1)



(2)



(3)



(4)

V-M "TRI-O-MATIC" RECORD CHANGERS

PLAYS ALL RECORDS—78, 33 1/3 or 45 RPM.

FEATURES SINGLE TONE ARM

Plays them all automatically. Ten 12", Twelve 10" or any 10 inter-mixed of either the standard 78 RPM or the Columbia 33 1/3 RPM and stacks of 12 of the 7" Columbia 33 1/3 or RCA 45 RPM.

Single Tone Arm has dual-needle reversible cartridge with fingertip controlled lever for adjusting it to correct position for record being played. .001 tipped osmium needle for 33 1/3 and 45 RPM records; .003 for standard 78 RPM records.

Positive Record Protection. Records are lowered, not dropped on spindle shelf and air cushion dropped to turntable assuring positive record protection. Records are changed quickly and quietly. Three-speed heavy-duty motor is controlled by a speed selector switch with 4 positions - 78, 33 1/3, 45 and "Off". **Motor Automatically shuts off** and pickup arm comes to rest position after last record has been played. 12 plastic adapter snap inserts are supplied for playing RCA 45 RPM Records.

(1) MODEL 4060

For quick and simple connection to any Radio or Phono Amplifier. Requires only a single wire (4 ft. shielded lead furnished) to radio. Attractive metal base is of a hammer-tone finish. Fits in anywhere. Size of base 12 1/2 x 10 5/8 x 2 3/4". Wt. 13 lbs. No. 32B40 Each

\$34.99

Also Available with GE Standard & Microgroove Variable Reluctance Cartridges. Mounted in special heads which plug easily into tone arm. No. 30B104. Complete with GE Cartridges

\$38.91

(2) MODEL 406

For mounting in Consoles, Table Model Radio-Phono Combinations, or Built-ins. Modernize Radio-Phono combinations having single or dual speed changers or use in custom installations. Minimum mounting space 12 13/16" W., 12 1/4" L., 7 1/4" H. Wt. 11 lbs. No. 32B39 Each

\$33.22

Also Available with GE Standard & Microgroove Variable Reluctance Cartridges. Mounted in special heads which plug easily into tone arm. No. 31B10. Complete with GE Cartridges

\$37.14

General Instruments



RECORD CHANGER PLAYS THEM ALL AUTOMATICALLY

1. JUST ONE CHANGER UNIT.
2. THREE SPEEDS — 33 1/3, 45 AND 78 RPM
3. PLAYS 7, 10 OR 12" RECORDS—ALL AUTOMATICALLY
4. SIMPLE TO OPERATE.

A quality built low priced changer that plays all records on the market—automatically. Plays at one loading, twelve 10-inch or ten 12-inch, 33 1/3 or 78 RPM records; Fourteen 7", 33 1/3 or 45 RPM records.

Plays them all simply and easily. No complicated controls to adjust—all adjustments are in front area of changer, clearly marked. **Single Tone Arm** with dual needle reversible cartridge plays both Standard and Microgroove records—Can be lifted at any point during play without damaging mechanism. Has a fast change cycle—3 1/2 seconds at 78 RPM; proportionally faster at 33 1/3 and 45 RPM. Utilizes plastic snap inserts for large center hole of 45 RPM records.

Modernly styled. Perfect for custom installations; replacements in consoles, radio-Phono combinations, etc. Size—motor plate 12" x 12 13/16"; Mounting space required: 14 3/4" W. x 13 3/4" D.; 6 1/8" above motor plate 3 3/16" below. Operates on 105-125 volts 60 cycles AC. Wt. 19 1/2 lbs. No. 30B92. EACH

\$30.87

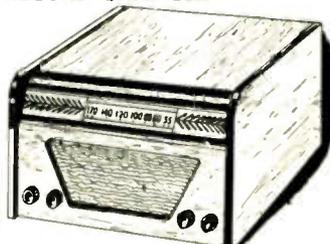
RADIO-PHONO 3 SPEED AUTOMATIC RECORD CHANGER

Radio is an advanced Superhet with 1-125A7GT, 1-125K7GT, 1-125Q7GT, 1-50L6GT, 1-35Z5GT tubes, 2 of which are dual purpose to give 6 tube performance. Has variable tone and automatic volume control and Alnico V PM Speaker. Extra large illuminated slide rule dial. Built in loop antenna.

Webster-Chicago Model 346—3 speed changer provides automatic playing of 7, 10 or 12" records at speeds of 33 1/3, 45 or 78 RPM. Needles for all included.

Cabinet is beautifully styled and finished in select figured mahogany veneer. Size 15" W. x 19 1/2" D. x 9 1/2" H. Shpg. Wt. 35 lbs. Far 110-125 V., 60 cycle AC. Underwriters Lab. Tested. No. 32A59. NET EACH COMPLETE

\$55.88



WEBSTER-CHICAGO TRI-SPEED CHANGERS

- PLAYS ALL TYPE RECORDS - 33 1/3, 45, 78
- PLAYS ALL SIZES - 7", 10", 12" - AUTOMATICALLY
- SIMPLE, FOOLPROOF OPERATION

FEATURES: Long dependable service with superior performance. Automatically plays any 7", 10", or 12" record (not mixed) on the market. Operates at three speeds: 78 RPM for Standard 10" or 12" records; 33 1/3 RPM for Columbia 7, 10, or 12" records; 45 RPM for RCA 7" Records. Record capacity for one loading - up to 1 inch.

SINGLE TONE ARM - Has Special Cartridge with tandem-tip needle which provides dual tips for playing either standard or microgroove records. Simple to adjust - Fingertip lever control on tone arm selects proper tip.

CHANGER IS QUIET, JAMPROOF. Velocity trip mechanism assures smooth handling of all records. Tone arm travels freely in either direction providing accurate tracking. Has "Reject-Manual-Stop" control for automatic or manual play.

SIMPLE TO OPERATE. All controls are clearly marked. Tone arm comes to rest after last 10" or 12" record has been played an "Automatic"—repeats last 7" record. Plastic snap inserts are utilized for playing of 7" 45 RPM Records.

(3) DELUXE MODEL 356

Size: 14 inches square; 9" overall height, 5 5/8" above and 3 1/8" below motor plate. Wt. 16 lbs. No. 34A177. Each

\$32.91

(4) ECONOMY MODEL 346

Size: 12" x 12 7/8"; Overall height 8" 4 5/8" above and 3 1/8" below motor plate. Wt. 15 lbs. No. 34A176. Each

\$29.61

(3) MODEL 356-27

For use with GE Variable Reluctance Pickup Cartridges. Supplied complete with interchangeable plug-in heads for GE Cartridges, both Standard and Microgroove. Size 14" square; 9" overall height, 5 5/8" above, and 3 1/8" below motor plate. Wt. 16 lbs. No. 31B224

\$27.31

WEBSTER-CHICAGO MODEL 77 CHANGER PLAYS 33 1/3 & 45 RPM 7-INCH RECORDS AUTOMATICALLY

- SINGLE TONE ARM
- 3-SECOND CHANGE CYCLE
- SIMPLE, FOOLPROOF

Small—Compact—designed for simple, foolproof operation with superior performance. Plays 8—33 1/3 or 45 RPM 7" Records automatically.



Center action type changer has a 3 second change cycle. Records are dropped by positive acting record release in spindle. **Single Tone Arm** is properly balanced for playing both 33 1/3 and 45 RPM records—May be moved at any time during play without damaging mechanism. Plastic snap inserts are used in large center hole of 45 RPM records.

Its **Extreme Small Size** makes it ideal for adding to existing equipment—mount in record storage compartment of consoles, in built-ins, record cabinets, etc. Base Plate: 10 1/8" x 7 5/16"; Height above base plate 3 1/2", below 3 5/16"

For 115 volts 60 cycle AC.

No. 33A101. EACH

\$17.52

Attractive Brawn finish metal mounting base when purchased with above changer. No. 31A100, EACH

\$1.98

PLASTIC SNAP INSERTS FOR 45 RPM RECORDS

Snaps in the large hole of a 45 RPM Record to adapt it for use on standard spindles of Three Speed changers or other players that have been adapted for 45 RPM operation. No. 17A814. TEN FOR

25c

Webster-Chicago ACCESSORIES

REPLACEMENT CARTRIDGES			REPLACEMENT NEEDLES		
Stk. No.	For Changers	Type	Each	Stk. No.	Each
20B80	246, 256, 346, 356	Special	\$3.53	16A802	\$2.40
14A590	*256-27, 356-27	GERPX040 (Std.)	5.85	18A378	2.06
20A781		GERPX041 (Micr)	5.85	18A379	2.06

*With Plug-in Heads for use of GE Variable Reluctance Cartridges.

ADAPTOR ARMS—For Use of GE VARIABLE RELUCTANCE PICKUP CARTRIDGES in Webster Changers (Less Cartridges)

Stk. No.	Model Changer	Each
14A699	56, 156	\$1.18
14A698	70	1.18
15A495	*246, 256	4.85

*3 Piece Pickup Arm consisting of Pickup and Two Interchangeable Plug-in heads, one designed for Standard GE Cartridge, the other for the GE Microgroove Cartridge.

CONVERSION KIT

Contains necessary parts to convert old models 256-1 and 256-27 for automatic playing of 7-inch 33 1/3 and 45 RPM records. Includes instructions, 10 snap adapters for large hole of 45 RPM records, and motor shaft drive for furnishing a steady 45 RPM turntable speed, quickly and easily.

No. 15A511.

Complete Kit

\$2.28

Kit for Manual Playing of 7" 45 RPM records on models 246 and 256. No. 17A791. EACH

24c

this is your B-A 1950 Catalog No. 501

Everything in RADIO-TELEVISION-ELECTRONICS

For Dealers, Servicemen, Broadcasters, Schools, Factories, Public Utilities,
Laboratories, Engineers, Amateurs, Experimenters.

144 pages, a complete guide to the very latest products of the top makers in Radio, Video, Sound and Recording fields . . . complete units, kits, components . . . test apparatus, books, tools, supplies for the Shop or Lab . . . everything, on down to the little things usually too troublesome for others to list and stock—B-A is in the full sense of the term . . . a “One Stop” source for any Radio and Electronic need.

Saves you time—takes only minutes, at times most convenient to you . . . as needs occur, select from your B-A catalog, the items and quantities you alone decide on . . . no waiting for salesmen . . . no breaking into your busy hours . . . no pressure to sell you more or other than your needs.

Saves you money—B-A volume sales permit big buying at savings passed on to you. *Check every page for many special big money saving values made possible only by huge B-A special purchases.* Net prices are shown in this catalog so you can see at a glance what each item costs you. Price reductions after this catalog is printed will be automatically passed on to you, even tho’ you order at the higher price. You can count on it . . . the lowest prevailing price always at B-A.

Prompt, Speedy Service is assured because of always adequate stocks and the B-A “Know How” acquired in 22 years experience in the mail order Radio Electronic distribution field. The location of Kansas City, a foremost transportation “hub” . . . in the exact “Center of America” . . . days closer to Everywhere . . . is more reason why you will get faster delivery from B-A.

You Can Depend on It! Everything in this or any B-A Catalog or bulletin, is the quality and value that is represented . . . conforms exactly to the illustration and description . . . performs in the manner and gives the service intended for such apparatus.

The B-A reputation . . . 22 years of honest, dependable and friendly dealings protect your every purchase.

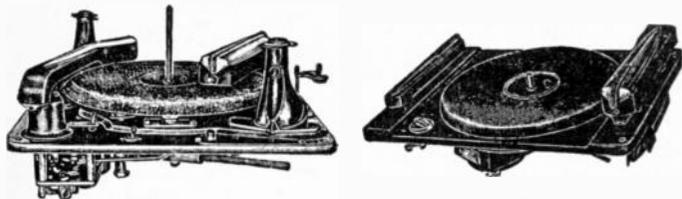
Detailed Index and “How to Order” information on Pages 134, 135.



Kansas City, Mo.

PHONE BA-1155

General Industries RECORDERS and PLAYBACK UNITS



① Recorder and record changer combination in a single unit. Crystal recording head cuts up to 10" diameter records at 110 lines per inch. Plays up to 12" manually and automatically 12 10" or 10 12" records. Dynamically balanced motor drives 10" weighted rim drive turntable at 78 RPM. Low pressure crystal cartridge for standard replaceable needles. Base plate 14x14", 5 7/16" above and 2 3/4" below base plate. Brown iridescent finish. With hardware and switch. 110-volt, 60-cycle AC. Weight, 25 lbs. **\$43.50**
No. 30A95. Model G1-RC130L. NET

② Dual Speed Recorder and Playback cuts records up to 10" diameter; plays up to 12" diameter at 78 or 33 1/3 RPM with crystal cutter and pickup with standard recording needles. Quick speed change dial. Lowering of cutting arm over disc starts recording at 120 lines per inch. Cut depth adjustment; Dynamically balanced rim drive, induction motor, recessed 10" weighted turntable, pickup and cutter arm rests. Steel base plate finished in walnut grain, plastic trim on pickup and cutter arms. 15x11 1/2", extends 2 3/4" above and 3 7/8" below base plate. 110-volt, 60-cycle AC. Weight, 17 lbs. **\$28.95**
No. 30A110. Model G1-R90L. NET

NEW! "G.I." DUAL SPEED RIM DRIVE PHONO MOTORS



① New "G.I." Model "TS" Three-Speed Phono Motor. 33 1/3, 45, 78 RPM for playing any brand of records. 78 RPM direct from motor shaft; Neoprene belt drive for 33 1/3 and 45 RPM. Simple speed indicator lever changes speeds instantly on 8" turntable. Affords top reproduction of the new 33 1/3 and 45 RPM records with minimum of "wow" and rumble. Mounting plate 3 1/8 x 2 1/4", extends 2 9/16" below. Weight, 4 lbs. **\$6.51**
No. 32B234. Model TS. NET

② Model "DM" Dual Speed Phono Motor. For playing 78 RPM and "LP" records; choice of 33 1/3 RPM for "LP" or 78 RPM for standard 10" or 12" discs on 9" turntable. Mounting plate 3 1/8 x 2 1/4", extends 2 5/8" below. Weight, 4 lbs. AC motor leads for 110-volt, 60-cycle AC. **\$6.75**
No. 34A166. "G.I." Model DM Turntable. NET

③ 78 and 33 1/3 RPM Recording-Playback Motors. Extra quiet, rim drive, heavy duty motor, 10" weighted turntable, rubber cushion installed on plate 3 3/8" square, requires 3" below. For 115-volt AC. Wt., 9 lbs. **\$9.90**
No. 34A178. "G.I." Model RM-4 78 RPM. NET
\$10.80
No. 34A179. "G.I." Model RM-4-3 33 1/3 RPM. NET

④ Green Flyer "D" 2-Speed Motor, 33 1/3 and 78 RPM governor controlled speeds for recording of "LP" or standard 10" or 12" records on 10" weighted turntable. Has speed change lever and regulator. **\$15.90**
No. 31A59. Model "D" Motor with 10" turntable. NET
\$16.82
No. 31A97. Model "D" Motor with 12" turntable. NET
No. 16A593. Automatic Stop for above motor. **87c**
NET

ALLIANCE 45 RPM PHONO MOTOR

Ideal low cost way for adding a 45 RPM player to existing equipment. 6 1/2" turntable, rim driven by heavy duty motor. Shock mounted on rubber bushings; extends 2" below motor board. 110/120-volt, 60-cycle AC. **\$4.64**
No. 33A102. Weight, 2 lbs. NET

"BALLENTINE" PHONO MOTOR

Quiet 78 RPM heavy duty, single speed phono motor, quality construction; rubber cushion motor mounting; fan cooled; sealed bearings. Positive friction drive on 9" turntable. Mounting space 6" square; depth 2 1/4". 110-volt, 60-cycle AC. Weight, 3 1/2 lbs. **\$4.29**
No. 5A144. "Ballentine" Quiet Phono Motor. NET

ASTATIC Replacement Recording Heads



Astatic Model M-41-8 Magnetic. Driving voltage, 3 V. RMS; upper frequency limit, 7,000 cps; wt. 3 1/2 oz; size 1 3/8 x 1 1/16 x 3 3/4". Oxidized finish. Imped. 8 ohms. Not interchangeable with crystal types. Illus. Fig. A above. **\$7.53**
No. 14A568. Your Cost...
Astatic Model X-26 Crystal. Driving voltage, 75 V. RMS; upper frequency limit, 5,000 cps; wt. 5 1/2 oz; size 1 3/8 x 5/8 x 3 1/4". Oxidized finish. Illus. Fig. B above. **\$7.53**
No. 14A532. Your Cost...

BRUSH MODEL "RC-20" CRYSTAL CUTTER



For high quality, low cost recordings in the home, school and studio. Cuts lateral type records in virtually all hard or soft disc materials. Design is simple and compact and readily adaptable to all types of transcription equipment. A 3-watt amplifier furnishes sufficient drive. Frequency response—flat within plus or minus 3 db. from 50 to 9,000 cps. Cuts "Constant Amplitude" without equalization, and "Constant Velocity" or other desired frequency characteristics with suitable equalization. **\$14.70**
No. 14A593. Cutter (less stylus) Net Each..

REK-O-KUT Professional RECORDING EQUIPMENT

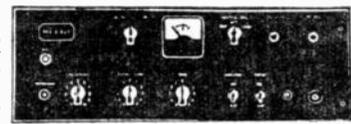


REK-O-KUT "CHALLENGER"

12" PROFESSIONAL Portable Recorder. QUALITY performance at the "Challenger" moderate price is assured by these QUALITY SPECIFICATIONS: Dual Speed 12" turntable, driven by quiet, long life motor. Speed change from 78 to 33 1/3 RPM in a "jiffy". Overhead Feed Cutting Mechanism, has stainless steel lead screw with constant mesh feednut—cutter raises automatically when feednut reaches end of lead screw; Magnetic Cutter, 8-ohm, is flat from 40 to 7,000 cps. Leadscrew cuts outside-in at 108 lines per inch. Cast Aluminum, precision lathe turned Turntable. High Fidelity 6-Tube Recording and Playback Amplifier, push-pull 6V6GT outputs; provide Microphone Gain 125 db.; Output wired for 8-ohm cutter and speaker, changeable internally to 4, 15 or 500 ohms. 3-position Output Selector for Recording, Playback and Public Address. Hi-impedance Phono or Radio Input. Recording Level Meter for monitoring recordings. Treble and bass equalizer. Monitor Switch provides two monitoring levels. "Challenger" will play 16" platters; standard 10" and 12" records, or record up to 13 1/4" recordings. Housed in heavy duty carrying case with 8" PM Dynamic Speaker mounted in removable cover. Size, 27x24x15". Weight, 80 lbs. 115-volt, 60-cycle AC. **\$329.95**
No. 36A83. "Challenger" Standard Recorder-Amplifier. NET
No. 50A289. Type M12-192 Micro-Groove Lead Screw. **\$17.95**
NET EACH

"REK-O-KUT" MODEL R5A RECORDING AMPLIFIER

Moderate cost; professional type facilities for making the finest disc, wire or tape recordings. 6 TUBES provide 12 watts power output at less than 3% distortion into resistive load. Frequency Response ±1 db. 50 to 15,000 cps. 3 Input channels, Microphone, Phono, and Radio. Output, 8 ohms for cutter and speaker, may be manually changed internally to 4, 15, 500 ohms. Output selector has positions for "Recording", "Playback" and "Public Address." 2-position monitor switch. Recording Level Meter. Treble and bass equalizer switch type, provides 14 db. attenuation at 50 cps. TUBES: 1 6J57, 2 6SL7, 2 6V6GT, 1 5Y3GT (rectifier). 80 watts at 105/125 volts, 50/60 cps. AC. Size, 17x8 3/4"; panel, 19x6 1/4". Weight, 16 lbs. Complete. **\$89.95**
No. 31A71. "Rek-O-Kut" R5A Recording Amplifier. NET



"REK-O-KUT" RECORDING TURNTABLES

Model "MV" 16" Standard 33 1/3 and 78 RPM professional recording turntable. Designed to meet all requirements for a 16" table. **\$140.00**
No. 50A287. Weight, 28 lbs. NET
Model "V" DeLuxe 16" 33 1/3 and 78 RPM professional recording turntable with "Mastermatic" speed control. The best in recording tables, meets all "NAB" requirements. Weight, 28 lbs. **\$195.45**
No. 30B62. NET
Model "TR12". A 12" dual speed professional type table for those who do not need to record 16" discs. Perfect for use with the M-12 recording cutter as listed below. Weight, 13 lbs. **\$89.50**
No. 31A69. NET

"REK-O-KUT" OVERHEAD CUTTERS

Model "M5-S" MASTER-PRO deluxe 16" overhead recording mechanism with 8-ohm magnetic cutter. Cuts 120 lines per inch, outside-in. **\$215.00**
No. 30B109-M. Weight, 11 lbs. NET
Model "M16" Overhead cutter for 16" discs. Gives professional results at a price within the reach of the average user. Cuts 120 lines per inch, outside-in. Weight, 10 lbs. **\$119.50**
No. 50A288. NET
Model "M12" Overhead cutter for 12" discs. Same specifications as "M16" listed above. **\$89.50**
No. 31A68. NET

"REK-O-KUT" TRANSCRIPTION TURNTABLES

Model "G2" Professional 16" Transcription turntable designed for playback of all 33 1/3 and 78 RPM records with instant starting heavy duty constant speed induction motor. Weight, 26 lbs. **\$125.00**
No. 30A115. NET
Model "G2" Deluxe. The best in 16" Transcription tables for 33 1/3 and 78 RPM records. Meets all NAB standards, having a speed regulation less than 1/2 of 1% and "wow" content less than 1/10 of 1%. Equipped with hysteresis synchronous motor and "Mastermatic" speed shift. **\$165.45**
No. 31A88. NET
MODEL LP-743 THREE-SPEED TURNTABLE. Instantaneous speed selector, 33 1/3, 45, or 78 RPM. 12" Cast aluminum turntable driven by a 4-pole induction type motor. Noise level, —30 db. Length, 15", width 12". Weight, 10 lbs. **\$49.95**
No. 31B53. MODEL LP-743. NET EACH
MODEL LP-12 DUAL-SPEED 78/33 1/3 RPM Turntable with instantaneous speed shift. Length 15", width 12", 1 3/8" above motor panel and 5" below. Weight, 10 lbs. **\$39.95**
No. 31C54. MODEL LP-12. NET EACH
For complete information on all "Rek-O-Kut" recording equipment please write for catalog and prices.

We can supply on fast delivery any Rek-O-Kut product including new micro-groove lead screws for their cutters and 45 RPM idlers for any turntable.



TRANSCRIPTION PLAYERS—PORTABLE DISC RECORDERS—NEW "LP" TYPES
TRUE HIGH FIDELITY PHONO AMPLIFIERS FOR ALL TYPES OF PICKUPS

25-WATT MA-25EX HIGH FIDELITY AMPLIFIER

THE ULTIMATE IN "HI-FI" AMPLIFIERS! Critically engineered to assure the finest High Fidelity Amplifier for the "critical" music lover as a Radio-Phono Amplifier—or for the Broadcast and Recording Studio as a top-notch bridging, Monitoring or Transcription Playback Amplifier!

FEATURES: Four inputs, separately controlled for G.E., Pickering, High and Low Output Crystal Pick-ups, Magnetic Pickups, Radio Tuner, and High Impedance Microphone—separate controls allow individual or simultaneous use of microphone with either Radio or Phono! **Controlled Expander Circuit** performs true expander function in allowing expansion on only "above average" passages of a record—expander is variable zero to 15 db., is entirely free from time lag, thump, microphonics! **Output Impedances** provided for Stephens, Altec, Jensen and all other hi-fidelity coaxial speakers!

SPECIFICATIONS: Power output of 25 watts at less than 5%; 20 watts at less than 2% RMS harmonic content over frequency range of 30/20,000 cps. Frequency response (tone controls at normal) is ± 1 db. 30 to 20,000 cps. **Input sensitivity and gains:** Magnetic pickup, .008 volts (90 db.); High Level Crystal, 1.5 volts (60 db.); Low Level Crystal, .45-volt (70 db.); Radio Tuner, bridging .3 volts (175 db.); Microphone, .005 volts (120 db.). Hum Level: 80 db. below output level of 25 watts! Output Impedances are 4, 8, 16, 250 and 500 ohms. **Expander circuit and control; separate Gain-Mixing controls** for Microphone-Magnetic pickup; Radio-Crystal Pickup; Bass Control provides low frequency boost of 11 db. at 50 cps; Treble Control provides high frequency boost of 10 db. with attenuation of 18 db. at 15,000 cps. Tubes are: 1 12SC7, 1 12SJ7, 2 6SN7GT, 2 6SL7GT, 2 6L6G, 1 5V4G (rectifier). In Blue-Grey Hammettone enameled steel cabinet, size 14x10x8 $\frac{3}{8}$ " high. Weight, 34 lbs. Power required is 140 watts at 115/125 volts, 60-cycle AC. **U/L Approved!**

No. 30B11. Masco Model MA-25EX Controlled Expander Amplifier. NET EACH..... \$99.08



SUPER VALUE 10-WATT HI-FI PHONO AMPLIFIER

10 watts power output at less than 5% distortion; frequency response, ± 1 db. 40/15,000 cps. Inputs for Crystal Pickup or Radio Tuner; voltage supply socket for external pre-amplifier; power supply socket on chassis for record changer. **4-way Tone Compensator provides Deep Bass, Medium Bass, Normal, Treble boost.** Response is flat, with tone control on No. 3 position, from 40 to 15,000 cps. Gain and sensitivity, .9 volts, 70 db. Combination On-Off switch and volume control. Overall negative feedback. Safety fused. Tubes: 1 6SL7GT, 2 6V6GT, 1 5Y3GT (rectifier). Hum Level 80 db. below output of 10 watts. Peak power, 14 watts. Gray Hammettone chassis is 10x5 $\frac{1}{2}$ x2 $\frac{1}{2}$ " high. Weight, 9 lbs. Complete with tubes and instructions, 115/125-volt, 60-cycle AC.

No. 34A190. Masco Model MHP-110 Phono Amplifier. NET... \$28.65



MODEL MHP-110-RC REMOTE CONTROL PHONO AMPLIFIER

Same as above with controls on 4 ft. extension cables.
No. 34A191. Masco Model MHP-110-RC. NET..... \$32.71

SUPER FEATURE 10-WATT HI-FI PHONO AMPLIFIER

10 WATTS OF HUM-FREE POWER! Provides EVERY feature desired by the "critical" lover of recorded music—Built-in compensated Pre-Amplifier for G.E., Pickering and other magnetic and reluctance type pickups! **4 Inputs:** No. 1, Magnetic, .01 volts 92 db. at 1000 cps.; No. 2, Magnetic, .08 volts 78 db. at 1000 cps.; No. 3, Crystal Input, .5 volts, 70 db. gain; No. 4, Radio Input, .5 volts, 70 db. gain. **Frequency Response, ± 1 db. 40/20,000 cps.** Response is flat, ± 1 db. over entire frequency range with control at "normal". **Four-way individual tone compensator provides:** No. 1, Deep bass with high cut; No. 2, Medium bass; No. 3, Normal; No. 4, Treble (normal bass with treble boost). **Variable Expander Control, manually controlled from zero to +10 db.; instantaneous—no chopping—no time lag!** Heavy duty output transformer with impedance taps of 2, 4, 8, 16, 500 ohms for most any type of Coaxial or Hi-Fidelity speaker. Hum Level is 70 db. below rated output of 10 watts! AC power receptacle on chassis for plug-in of Record Changer or Radio Tuner. **Tubes are:** 1 6SC7, 3 6SL7GT, 2 6V6GT, 1 5Y3GT (rectifier) for power output of 10 watts at less than 5% distortion; peak power is 14 watts! Heavy steel chassis base is 12x7x2 $\frac{1}{2}$ " high, gray Hammettone enamel with two-tone dials. **U/L Approved!** With tubes and instructions. Weight, 12 lbs. Power required is 75 watts at 117 volts, 60-cycle AC.

No. 32B48. Masco Model MA-10EX Phono Amplifier. NET... \$49.95

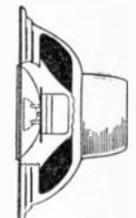
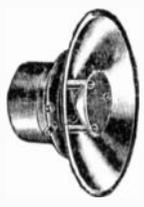


MODEL MA-10EXC. For cabinet mounting. Identical in all features to the model described above, except is provided with 6" extensions on all control shafts to permit out-of-sight installation.
No. 32B49. Masco Model MA-10EXC Remote Control Amplifier \$51.42

MASCO UNIVERSAL HI-FREQ. TWEETER SPEAKER

MASCO MODEL HFT-100 TWEETER. Quickly converts ANY 12" "PM" type speaker into a High Fidelity, 2-way speaker system! Extends frequency range from a "normal" of about 6,000 cps. to beyond 15,000 cps. Installs with a minimum of effort and no additional space; fits in front of the cone and actually becomes a part of the existing 12" speaker! Supplied complete with a quick-mounting screen grille to which the HFT-100 Tweeter (as shown at left) is mounted; then the entire assembly is merely placed over the front rim of the existing 12" speaker (as shown in diagram at right above), two simple connections are made, and the 12" speaker is returned to its original position! **Specifications of HFT-100 High Frequency (Tweeter) Unit:** Power rating, 8 watts; Frequency Response, to beyond 15,000 cps.; Impedance, 6/8 ohms; Dispersion angles, (hor. and vert.) 70°. Doubles the enjoyment of musical programs, whether by radio or records! Size, 5 $\frac{1}{4}$ " diameter x 2 $\frac{3}{8}$ " overall depth. Complete with mounting screen and instructions. Weight, 4 lbs.

No. 34B120. Masco Model HFT-100 Tweeter Speaker. NET... \$14.40



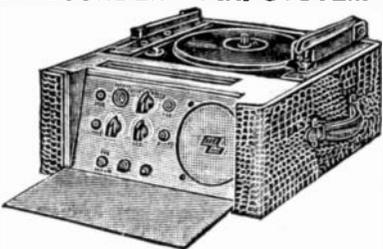
"MASCO" DUAL SPEED RECORDER—P.A. SYSTEM

Complete, self-contained, portable 33 $\frac{1}{3}$ and 78 rpm. Disc Recorder and Playback with built-in Amplifier and 6-Inch "PM" speaker.

SCHOOLS, COLLEGES, TEACHERS, LECTURERS, ACTORS, MINISTERS—ALL will find these FEATURES to their liking!

*Electronic "dubbing"—or electronic recording from any electric phono—permits exact copies of choice records! *Direct recording from radio to record disc on recorder, through input jack on panel. *Direct recording from any microphone. **DUAL SPEEDS** permit a 12-minute recording on a 10-inch disc at 33 $\frac{1}{3}$ rpm. speed! "Dubbing" at same speed permits recording of a standard 12-inch record on a 10-inch blank! **Separate Volume and Tone Controls** permit any desired volume or tone setting—Volume Indicator Neon Eye assures accurate recording level. **Separate Input Channels** for "Mike", Phono and Radio—any standard radio set may be used and adjusted for direct electronic radio recordings. High quality Crystal Cutting Head for recording and low pressure Crystal Pick-up for playing back recordings—or playing any make of standard record up to 12-inch. Complete with 5 TUBES in handsome Portable Case, drop front lid over controls, covered with Brown alligator fabricoid. Size, 16x19 $\frac{1}{4}$ x8 $\frac{1}{2}$ " high. Weight, 40 lbs. For 110/125-volt, 60-cycle AC.

No. 30B37. "Masco" Model RK-5 Portable Recorder. Net Each \$94.20



MASCO 16-INCH TRANSCRIPTION PLAYER—TLS-16

*** TRANSCRIPTION PLAYER-PA AMPLIFIER!**
*** DUAL PICKUP ARMS — DUAL SPEED!**
*** "G.E." VARIABLE RELUCTANCE PICKUPS!**
*** BUILT-IN PRE-AMPLIFIER!**
*** PLAYS "LP" RECORDS—ULTRA MODERN!**

Specially designed for Audio-Visual Education needs of Schools; ideal for Lecturers, Theatrical Agencies, Broadcast Studios, Advertising Agencies, Sales Executives. Plays these records: 16" Transcription, 33 $\frac{1}{3}$ RPM; 12" and 10" Microgroove "LPs" at 33 $\frac{1}{3}$ RPM; and 10" or 12" "standard" 78 RPM. Separate pickups, each with "G.E." Variable Reluctance Cartridge and Sapphire Stylus provide for "LP" records requiring .001 stylus, and standard records requiring .003 stylus! High impedance Microphone Input and Phono Input have individual gain controls. **5-Watt, wide frequency range amplifier** provides ample power. Separate Bass and Treble Tone Controls.

Heavy duty dual speed phono motor has lever speed control and Speed Shift Lever for choice of 33 $\frac{1}{3}$ or 78 RPM. 10" PM heavy duty speaker is mounted in removable carrying case cover and provided with 12 ft. cable and plug. Microphone connector, speaker jack, Motor and Amplifier power switches, Bass and Treble controls and Microphone and Phono Gain controls on sloping front panel. **Tubes are:** 1 6SC7, 2 6SL7GT, 1 6V6GT, 1 5Y3GT (rectifier). Deluxe Brown Alligator Fabricoid covered case is 17 $\frac{3}{4}$ x22x10 $\frac{3}{4}$ " high. With Tubes, instructions, less microphone. Requires 80 watts at 115-volt, 60-cycle AC. Weight, 43 lbs. **U/L Approved!**

No. 30B88. Masco TLS-16 Transcription Player. NET..... \$119.29



MASCO TP-16A STANDARD TRANSCRIPTION PLAYER

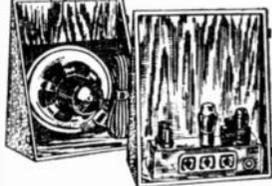
Plays 16" or smaller "professional" recordings at 33 $\frac{1}{3}$ RPM and any 12" or 10" standard record at 78 RPM. Pickup is Astatic 400 with QT Cartridge and Sapphire stylus with .003 point. 5-watt amplifier uses 2 6SL7GT, 1 6V6GT, 1 5Y3GT (rectifier). Case, speaker, motor and other features are as described above for Model TLS-16. Weight, 43 lbs.

No. 30B15. Masco Model TP-16A Transcription Player. NET... \$97.34

8-WATT "BALLYHOO" PORTABLE SOUND SYSTEM

Low in cost! Complete "Ballyhoo" sound with 8 watts of undistorted power output! Needed by Orchestras, Carnivals, Window Salesmen, Auctioneers, Churches! Electronic mixing of Microphone and Phono inputs; variable tone control; hum level is 25 db. below rated output. Frequency response is ± 2 db. 50/10,000 cps. 4 Tubes are, 1 each 6SJ7, 6SF5, 6L6G and 5Y3GT (rectifier). Output impedances of 3.2 and 8 ohms. Split type carrying case houses amplifier in one half and 10" PM speaker with 25 ft. cable and plug baffled in other half; speaker may be set at a distance from amplifier. Entire system in case is only 13x7x15" high; weighs only 18 lbs. Supplied with "Turner" Model 20X hand type crystal microphone, 7 ft. cord and plug. 115-volt, 60-cycle AC.

No. 31C4. Masco MAS-808 Ballyhoo Sound System. NET... \$51.51





Public Address Amplifiers AND COMPLETE SOUND SYSTEMS



★ U/L APPROVED ★ "DIALGLO" LIGHTED RECESSED PANELS ★ FUSE PROTECTED ★ FULL RATED POWER

25-WATT AC AMPLIFIERS AND PORTABLE SYSTEMS

Fills the majority of all amplifier requirements. Area coverage up to 8000 sq. ft. for auditoriums, ballrooms, churches, outdoor meetings, night clubs, orchestras and sales meetings.



25-WATT MA-25N AMPLIFIER



25-WATT PORTABLE SYSTEM

25-WATT AMPLIFIER SPECIFICATIONS

Class AB1—Four inputs: Three microphone, gain 133 db. and one phono, 79 db. Response, ± 2 db. 50/15,000 cps. Hum level, 64 db. below rated output. 8 tubes: 4 6J7, 2 6SC7, 2 6L6G and 1 5V4G. Output impedances, 4, 8, 15, 125, 250, 500 ohms. Separate bass and treble equalizer. Power requirement 145 watts. 115-volt, 60-cycle. Blue and grey hammertone steel case. Lighted recessed panel.

DE LUXE 25-WATT AMPLIFIERS—With or Without Phono

Model MA-25N. 25-watt amplifier without Phono Top, as shown in illustration at left above. Size, 15x8 1/2 x 8 3/4". Complete with instructions, matched set of tubes, speaker plugs and AC cord. For 115-volt, 60-cycle AC. Weight, 30 lbs.

No. 30B50. MASCO Model MA-25N Amplifier Only. Complete. **\$68.24**

Model MA-25PN. 25-watt Phono-Amplifier Combination. All circuit features as described above in "Specifications" with the addition of constant speed 78 RPM phono motor and featherweight crystal phono pickup; has additional switch on front panel for phono motor. With matched tubes and speaker plug, AC cord, for 115-volt, 60-cycle AC. Size, 14x11x8 3/4". Weight, 32 lbs. No. 32A271. "MASCO" Model MA-25PN Phono Amplifier.

(As shown in Portable System at right above.) Net. **\$80.85**

"MASCO" 25-Watt Complete Public Address Systems

Model MAS-25PN. Complete 25-Watt Deluxe Portable P.A. System, with Phono. As shown in illustration above. Includes MA-25PN Amplifier, Tubes, TWO 12" PM speakers with 25-ft. cables and mounted in DeLuxe carrying case with "Slide-Easy" mounting board for amplifier; Astatic JT-30 crystal microphone with cable and plugs. Overall case size, 17 1/4 x 17 3/8 x 22 1/8" high. Weight complete, 61 lbs. For 115-volt, 60-cycle AC. **\$139.62**

No. 39A13. MAS-25PN Complete Phono Top Amplifier System. **\$139.62**

Model MAS-25N. Complete 25-watt Deluxe Portable P.A. System, less Phono. Consists of Model MA-25N Amplifier, with speakers and Deluxe Portable carrying case, with all connecting cables, plugs, tubes, Astatic JT-30 Microphone, instructions. For 115-volt, 60-cycle AC. Wt., 60 lbs. **\$126.39**

No. 39A14. Masco Model MAS-25N P.A. System. Net. **\$126.39**

17-WATT AC AMPLIFIERS AND PORTABLE SYSTEMS



Deluxe Amplifiers, Models MA-17N and MA-17PN. Specifications: 17 Watts class A output; 6 tubes, 1 each, types 6SC7, 6SJ7, 6SL7GT, 5V4C, 2 6L6G; 2 Mike inputs, 132 db. gain; 1 Phono input, 78 db. gain; Frequency Range, 50/12,000 cps. ± 2 db.; hum level, 62 db. below rated output. Tapped output impedances of 4, 8, 15, 125, 250, 500 ohms; separate Bass and Treble controls. Less than 5% distortion at full 17 watts output—peak, 26 watts! Two-tone blue hammertone steel cabinet, 13x8x8 3/4". Weight, 20 lbs. 125 watts required at 117-volt AC.

No. 30B35. MASCO Model MA-17N Deluxe Amplifier (Less Phono). With tubes, connectors, instructions, as shown. Net. **\$54.65**

MASCO Model MA-17PN Deluxe 17-Watt Phono-Amplifier. Specifications exactly as above for Model MA-17N, except includes heavy duty, quiet running 78 RPM phono motor and crystal pickup. 14x10x8 3/4". Weight, 28 lbs. No. 30B48. MA-17PN Complete Deluxe Phono-Amplifier. **\$71.38**

NET EACH. **\$71.38**

17-WATT PORTABLE SYSTEMS



Deluxe complete systems—ready to plug in. Choice of 17-watt regular or Phono-Top amplifiers as listed below—together with 2 Jensen 10" PM Speakers in deluxe carrying case with space for amplifier, and accessories. Complete with two 25-ft. speakers, cables and plugs; Astatic JT-30 microphone and cable. Case is 17x15 3/8 x 18 1/8" high, blue deluxe fabricoid covered with slide-out board for amplifier! Weight, 45 lbs. No. 39A10. Model MAS-17N, 17-Watt System, Without Phono. NET. **\$108.72**

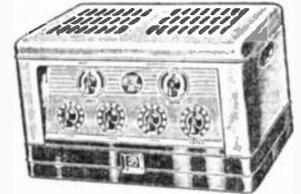
"MASCO" Model MAS-17PN. Complete 17-Watt Portable Phono-Amplifier System. Includes MA-17PN amplifier, tubes, 2 12" PM Speakers, Microphone, cables and deluxe carrying case. Weight, 56 lbs. No. 39A12. Model MAS-17PN Portable Sound System. Net. **\$130.51**

MASCO DELUXE AMPLIFIERS feature heavy duty components for long periods of continuous use; full rated power output at 5% or less distortion; simple, fool-proof operation, ease of installation and ONE YEAR guarantee against defective component parts! All are U/L Approved!

35-WATT DE LUXE ALL-PURPOSE AMPLIFIER

Provides ample coverage for 1500 to 4000 sq. ft. of bleacher or grandstand Stadium seating, or 4000 to 12000 sq. ft. of Indoor Auditorium or Dance Hall; drives 2 to 4 12" PM wall speakers or 2 to 4 Re-entrant horns!

SPECIFICATIONS, 35-Watt Amplifier: 35 Watts Class AB-2 output at response of ± 2 db., 50/15,000 cps., at less than 5% distortion! 3 Mike inputs at gain of 135 db.; one Phono at 80.5 db. gain. Hum level is 65 db. below output level of 35 watts; peak power is 50 watts. Tapped output impedances of 4, 8, 15, 125, 250, 500 ohms. Individual gain controls for 4 Input Channels with Electronic Mixing overall. Individual Bass and Treble equalizers. Overall negative feedback! 11 Tubes include: 1 6SC7, 3 6J7, 3 6SN7GT, 2 6L6G, 1 5U4G, 1 6X5GT. Safety fused; power required, 190 watts at 117-volt AC. Dial-Glo indirect lighting, U/L Approved!



No. 30C6. MASCO Model MA-35N Deluxe 35-Watt Amplifier. Complete with Tubes, Connectors, Instructions. NET. **\$93.23**

MA-50N 50-WATT DE LUXE HI-POWER AMPLIFIER

Masco Model MA-50N 50-Watt Amplifier. Specifications: Full 50 Watts Class AB1 power output at less than 5% distortion! Peak power, 70 watts! Five inputs, 4 Microphone at 136.5 db. and Phono at 82 db. gain; Frequency Response is ± 2 db. 50/15,000 cps. Individual panel controls for 4 Microphone and Phono inputs plus Bass, Treble controls. Electronic mixing of all channels! Hum level is 67 db. below rated output; Tapped output impedances, choice of 4, 8, 15, 125, 250, 500 ohms; standard plug-in speaker sockets, with selector switch on rear terminal panel of amplifier. 13 Tubes used are: 1 6SJ7, 4 6J7, 2 6SC7, 4 6L6G, 2 5V4G (rectifiers). Negative feedback circuit, fully fused, U/L approved throughout! Ideal for Auditoriums, Banquet, Ball Rooms (7000/24000 sq. ft.); will "drive" 4 to 6 heavy duty 12" PM speakers in wall baffles, or the equal number of re-entrant trumpets! Power consumption, 190 watts at 117 volts, for 105/125-volt, 60-cycle AC. In heavy steel cabinet, two-tone blue hammeroid enamel finish. Size, 16x11x8 3/4" high. Weight, 41 lbs.

No. 30C28. MASCO Model MA-50N 50-Watt Amplifier. Complete with Tubes, Connectors, Instructions. NET. **\$111.60**

Model MA-75N has same appearance as MA-50N shown at left above. Features full 75 WATTS, CLASS AB-2 pure power output at less than 5% distortion! Overall electronic mixing of 4 Microphone and 1 Phono channels; separate plate and screen power supplies, separate controls for each input! Provides ample power to drive 4 to 10 PM outdoor trumpets or an equal number of 12" PM speakers in wall baffles to thoroughly cover areas from 10,000 to 50,000 sq. ft., Indoors or Outdoors! Specification features: 15 Tubes in Class AB-2 circuit are: 4 6J7, 2 6SC7, 2 6V6GT, 4 6L6G, and 1 5Y3GT, 2 5V4C rectifiers. 4 Mike inputs at 138 db. gain each, 1 Phono input at 83.5 db. gain. Frequency response, ± 2 db. from 50/15,000 cps. Selective output impedances of 8, 15, 60, 125, 250 ohms. Hum level is 68 db. below rated output of 75 watts; peak output is 125 watts! Power required is 260 watts at 117-volt AC, for operation on any standard 105/125-volt, 60-cycle AC line. U/L Approved. Fused, "Dial-Glo" illuminated sloping control panel in two-tone blue-grey hammeroid enamel finished cabinet. Size, 17x12x8 3/4" high. Weight, 63 lbs. Complete with matched tubes, speaker connector plugs, easily understood instructions.

No. 30B2. MASCO Model MA-75N Super-Power Amplifier. **\$135.12**

75-WATT DE LUXE SUPER-POWER AMPLIFIER

Model MA-75N has same appearance as MA-50N shown at left above. Features full 75 WATTS, CLASS AB-2 pure power output at less than 5% distortion! Overall electronic mixing of 4 Microphone and 1 Phono channels; separate plate and screen power supplies, separate controls for each input! Provides ample power to drive 4 to 10 PM outdoor trumpets or an equal number of 12" PM speakers in wall baffles to thoroughly cover areas from 10,000 to 50,000 sq. ft., Indoors or Outdoors! Specification features: 15 Tubes in Class AB-2 circuit are: 4 6J7, 2 6SC7, 2 6V6GT, 4 6L6G, and 1 5Y3GT, 2 5V4C rectifiers. 4 Mike inputs at 138 db. gain each, 1 Phono input at 83.5 db. gain. Frequency response, ± 2 db. from 50/15,000 cps. Selective output impedances of 8, 15, 60, 125, 250 ohms. Hum level is 68 db. below rated output of 75 watts; peak output is 125 watts! Power required is 260 watts at 117-volt AC, for operation on any standard 105/125-volt, 60-cycle AC line. U/L Approved. Fused, "Dial-Glo" illuminated sloping control panel in two-tone blue-grey hammeroid enamel finished cabinet. Size, 17x12x8 3/4" high. Weight, 63 lbs. Complete with matched tubes, speaker connector plugs, easily understood instructions.

No. 30B2. MASCO Model MA-75N Super-Power Amplifier. **\$135.12**

MM-4 MICROPHONE MIXER



Four channel, high impedance Microphone Mixer, simply connect cable to hi-impedance Mike input of ANY amplifier and presto! . . . you have FOUR MIKE INPUTS that may be mixed and faded at will! Four independent gain controls and 4 microphone connectors allow for overall mixing and fading! Has 4-ft. cable and connector, completely shielded all metal cabinet, size 7 1/2 x 5 4/2" high. Weight, 4 lbs. No. 34A144. Model MM-4 Microphone Mixer. NET. **\$14.70**

LOW IMPEDANCE INPUT FOR ANY MASCO AMPLIFIER

Converts any hi-impedance input to low impedance (50 ohms unbalanced line) for use of long mike cable runs. Multi-alloy shielded, swivel mount for 1-hole mounting on chassis. Rotates and tilts to attain hum-free operation. Will convert hi-impedance to low-impedance on any standard amplifier. No. 37A9. Model 1N-525 Low Impedance Transformer. NET EACH. **\$12.35**

COMPLETE FIXED P.A. SYSTEMS FOR SCHOOLS, HALLS, CLUBS

All models of Masco Deluxe Amplifiers, 17-watt to 75-watt, as listed on this page are ideally suited for installation as a Fixed System of either Indoor or Outdoor Stadium type with the addition of PM Speakers and Baffles, Outdoor Trumpets and Microphones of your choice—all of these accessories are listed on pages 16 to 22 of this catalog.

"B-A" SOUND ENGINEERING SERVICE—For detailed information and prices on a complete sound system designed for your particular needs, merely address your letter giving basic details to our "Dept. SR."



Mobile P-A Amplifiers

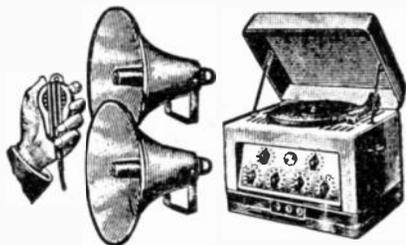
SCHOOL SOUND SYSTEMS STRINGED INSTRUMENT AMPLIFIERS

DUAL-POWER 6-VOLT DC OR 110-VOLT AC OUTSTANDING MOBILE EQUIPMENT

U/L Approved—Low Battery Drain—"Stand-by" Switches!

DE LUXE 25-WATT MOBILE AMPLIFIER SPECIFICATIONS: 25-Watts Power Output Class AB-1, peak power, 40-watts, 3-Microphone Inputs at 133.5db gain, 1-Phono Input at 79db gain. Frequency response 50-15,000 cps. ± 2 db.; Hum level on AC Power is 64 db. below rated output of 25-watts, on DC Battery Power, ripple-free! Battery-saver switch, shuts off vibrators during intermissions—saves battery power—Dual Vibrators maintain steady voltage and frequency for both amplifier and heavy duty, constant speed phono motor, Light pressure Crystal Phono Pickup; selective output impedances of 4, 8, 15, 125, 250, 500 ohms. Controls, 3-Microphone Gain, Phono Gain, separate Bass and Treble attenuators; Panel Switches for Phono Motor, Amplifier Power and "Battery-Saver". Power Consumption, 145 watts at 117 volts AC, or 23-amperes on 6-volt battery power, including phono motor! Tube complement: 4/6J7, 2/6SC7, 2/6L6G, 2/7Z4 rectifiers. Separate cables with heavy duty plugs and receptacles for AC and Battery Power. Available in choice of heavy steel cases, with or without locking hinged cover as listed below; blue-grey Hammeroid enamel finished.

25-WATT MOBILE OUTDOOR SOUND SYSTEM



For Sound Truck use or any Outdoor Service — includes Model MC-25PC 25-Watt Mobile 6-Volt DC and 115-volt AC Amplifier as per specifications above, plus TWO "University" 3 1/2-ft. weatherproof trumpets complete with 25-watt Driver Units; each with 25-ft. cable and plug; "Turner" Hand-D Dynamic hand microphone with 7-ft. cable and plugs. Phono-Amplifier has locking hinged lid. An ideal, trouble free, heavy-duty 6-volt DC-115-volt AC Mobile Sound System for Sound Trucks, Carnivals, Stadiums.

No. 50A221. MCO-25PN Mobile Outdoor Sound System, Net **\$199.60**

MODEL MC-25PN MOBILE AMPLIFIER ONLY—without hinged cover: The identical amplifier as used in our No. 39A11 Portable System, with specifications exactly as described at top of this column. Case size is 14x11x8 3/8" high. Weight, 44 lbs. Complete with Battery and AC cables, heavy duty connector plug, speaker plugs.

No. 30B49. "MASCO" Model MC-25PN Mobile Amplifier Only **\$107.31**

Model MC-25PC Mobile Amplifier only, Hinged Lid Case: Allows playing of 10" or 12" records with lid closed, "stay" holds lid open, snug fitting draw bolts hold lid in place when closed. Case size, 14"x11"x10 1/8" high with lid closed. Complete as above described, wt. 46 lbs.

No. 30C12. Masco MC25-PC Mobile Amplifier only, Net **\$119.07**

DE LUXE CASED 25-WATT MOBILE SOUND SYSTEM



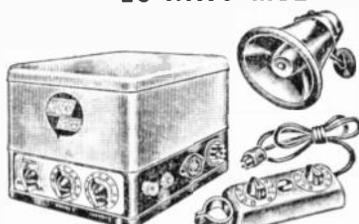
Has universal application indoors or outdoors. Can be quickly set up for use on 6-volt DC or 115-volt AC power source easily changed from one to the other with no delay. Entire system packs securely in the attractive DeLuxe carrying case for easy portability. Well suited for traveling shows, athletic events, large auditoriums and skating rinks where music and voice are both used. For detailed amplifier specifications see above.

COMPLETE MOBILE PORTABLE AMPLIFIER SYSTEM

Consists of Model MC-25PN Amplifier and tubes; heavy duty TWIN SPEAKER carrying case with TWO 12" PM SPEAKERS complete with 25-ft. cables and plugs and "Turner" Model 9-D Dynamic Hand Microphone with 7-ft. detachable cable and plug. Case size, 17 1/4 x 17 5/8 x 22 1/8" high. Weight, 72 lbs. 6-volt DC; 115-volt AC.

No. 39A11. Model MAC-25PN, Complete Mobile System. Net **\$173.74**

10-WATT MOBILE SOUND SYSTEM



6-Volt Battery or 117 Volt AC! Compact, single-hole mounted amplifier easily installed under the dash of any car or truck—and just as easily removable for use in other locations on EITHER 6-Volt battery or 115-volt AC power! MC-10 SPECIFICATIONS: 10-watts Class A power output at less than 5% distortion at frequency response of ± 3 db. 100-8000 cps.; hum level is 60 db. below full output of 10-watts. Two Inputs, Microphone at gain of 110db, and

Phono at gain of 75 db.; Tubes are, 1 6SF5, 1 6SL7GT, 2 6V6GT, 1 7Z4. Separate Gain Controls for Mike and Phono, Stand-by Battery Saver Switch, On-Off switch. Output impedances of 3.2, 8 and 15 ohms. Power consumption, 8-Amps. on battery, 60-watts on AC. Steel case size, 7 1/2"x6"x6"; wt. 16 lbs.

No. 34A142; Masco Model MC-10 Mobile Amplifier only, Net **\$42.63**

No. 34A143; Model RCM Remote Control Unit Only, Net **\$8.82**

10-WATT MOBILE SOUND SYSTEM, exactly as shown above, Amplifier, Remote Control, University 1B8 Speaker, No. 50A223, Net **\$71.33**

MASCO DE LUXE STRINGED INSTRUMENT AMPLIFIERS



5-WATT



15-WATT



18-WATT

5-WATT MODEL MAP-105N STRING-INSTRUMENT AMPLIFIER

(Illus. left above.) Features: 5 Watts power output at less than 5% harmonic distortion; frequency response is ± 2 db 100-8,000cps; low hum level, 60db below 5-watt output level. TWO INPUTS, for Microphone or Musical-Instrument Pickup, each with 105db gain. Dual channel input permits mixing of stringed instrument and voice or orchestra. Tubes are, 1 ea. types 6SL7GT, 6V6GT and 6X5GT (rectifier). Power used is 30 watts at 117 volts, 60 cy. AC. Carrying case is 2-tone blue-grey fabricoid covered with matching flocked speaker grille on front. 8-Inch PM speaker. Ideal low-cost amplifier for Singer, Stringed Instrument Players, or for low-power P.A. "Ballyhoo" system. U/L Approved, complete with power cord, instructions, tubes; size, 11 3/4 x 8 1/2 x 13" high. Weight, 15 lbs.

No. 30C8. Masco Model MAP-105N Stringed Inst. Amplifier. Net **\$32.34**

15-WATT MODEL MAP-15 STRING-INSTRUMENT AMPLIFIER

For realistic reproduction of reeds and strings—inputs for 3 Instruments, or for 2 Instruments and Microphone! Suitable for instrumental solos and for combination of voice and instruments. Output variable from 15 watts full power to lowest volume without distortion. Acoustically engineered case, finished in Brown alligator fabricoid with tan saddle strap and musical insignia on speaker grille, houses amplifier and 12", heavy duty P.M. Speaker; sloping panel back has controls and ventilators for amplifier. Note these additional features: Frequency response, plus or minus 3 db. 50 to 12,000 cps. Power Gain, 110 db.; Tubes, 2 6SL7GT, 2 6L6G, 1 5Y3CT (rectifier). Two controls for Master Volume and Tone, plus "On-Off" AC switch on sloping control panel. Power Rating, 15 watts Class "A" power output at less than 5% distortion. Power consumption, 95 watts at 117 volts, 60-cycle AC. Size, 15 3/4" wide, 18 1/4" high, 8 1/2" deep; weight, 25 lbs.

No. 33A71. Model MAP-15 Stringed Instrument Amplifier, Net **\$58.50**

18-WATT MODEL MAP-18 STRING-INSTRUMENT AMPLIFIER

Three instruments or microphones, or any combination may be used separately or simultaneously; separate Input Controls, Individual Bass and Treble Tone Controls—finest stringed instrument reproduction through massive, built-in 12" P.M. Dynamic Speaker! Improved, exclusive circuit provides full 18 WATTS power output at less than 5% distortion. Hum level 62 db. below output level of 18 watts. TUBES—3 6SF5, 1 6SJ7, 1 6SL7GT, 2 6L6G, 1 5V4G (rectifier). Frequency Response, plus or minus 2 db. at 50/12,000 cps. Power Gain, all inputs, 110 db. Sloping control panel, protected by hinged cover, permits adjustment of controls by playing artist. Voice and instrument may be combined with bass and treble controls varying the overtones from crisp, clear melody, to rich, mellow bass! U/L Approved throughout! In ventilated, heavy duty carrying case. Blue-Gray with heavy flocked speaker grille. Size, 15 3/4 x 9 5/8 x 18 3/4" high. Weight, 36 lbs. 140 watts at 117 volts, 60-cycle AC. Safety fused.

No. 30B9. Model MAP-18 Stringed Instrument Amplifier. Net **\$95.55**

B-A Super-Value Stringed Instrument Pick-Ups

"Musical Contact Microphones"—top quality and results at a new low in price! Operate with all instruments and all makes of amplifiers—easy to install and will not mar finest surfaces; require no special strings or changes in instrument. Provide brilliance of tone exceeding the power of the instrument alone! 8-ft. flexible cable.

No. 20A616. Contact Microphone, with Volume Control. Special, Each **\$6.71**

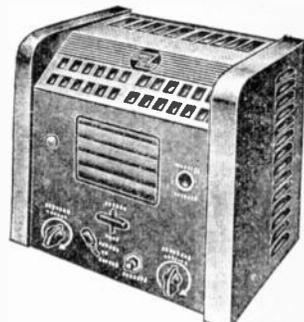
No. 20A617. Contact Microphone, without Volume Control. Each **\$5.14**

MS-24 SCHOOL SYSTEM

All Models U/L Approved!

Provides 2-way communication and facilities for "Broadcasting" by means of Microphone, Radio or Record Player or Changer to ANY PART OR ALL Rooms or Speakers connected to the Master Console! For Schools, Offices, Industrial Plants or Hospitals, "Masco" Model MS Systems are the Low Cost answer to communications problems—add to the efficiency of any School, Hospital, Office, or Industrial Plant. Available in capacities of 6, 12, 18 or 24 rooms! Easy to install, requires only twisted, non-shielded 2-conductor cable for connections between Console and each speaker in system. Speakers may vary in size from 6" to 12" P.M. type, or University Type 1B-8 Speakers may be used in outdoor locations, each speaker requiring a multiple line to V.C. transformer. Constant Voltage Output plus efficient circuit with 15 db. feedback in output stage assures non-varying volume at all speakers. Features: 28-watt Class AB-1 output; frequency response, ± 2 db. 50/15,000 cps. Hum level, —64 db. at output level of 28 watts; power gain, 130 db. on Microphone, 85 db. on Phono. 3 Inputs, Hi-Imped. Mike, Phono, Radio. Monitor speaker for 2-way conversations and monitoring of radio or phono music. Push-button room selector switches. Separate incoming and outgoing volume controls, Magic Eye level indicator. With 7 tubes and instructions, in steel cabinet 16 9/16 x 13" high. Weight, 37 lbs. 145 watts at 117 volts, 60-cycle AC. Four room capacities as listed below:

Strk. No.	Model	Facilities for	Complete with Tubes	List Price	Net Each
50A224	M5-24-1	6 Rooms	Complete with Tubes	\$184.50	\$108.49
50A225	M5-24-2	12 Rooms	Complete with Tubes	189.50	111.42
50A226	M5-24-3	18 Rooms	Complete with Tubes	194.50	114.36
50A227	M5-24-4	24 Rooms	Complete with Tubes	199.50	117.30



ECONOMY 6-V. DC/115-V. AC MOBILE AMPLIFIERS

Proven QUALITY AT LOW COST. Model MC-25P provides coverage for audiences up to 2,000 persons in areas up to 10,000 sq. ft. indoors or 7,500 sq. ft. outdoors—available in AMPLIFIER ONLY or in choice of SOUND TRUCK or PORTABLE MOBILE systems as listed and priced below. 25-Watt Model MC-25P Amplifier features are: Universal service, instant operation on either 6-volt battery or 115-volt AC power; constant speed, heavy duty Phono Motor and Crystal pickup, riple free in operation on either power source! Battery saver Stand-by Switch, Heavy duty cables and plugs for BOTH power sources, all component parts designed for continuous service without breakdown or heating.

Output 25 watts. Frequency response, 50/10,000 cps. **Hum level,** 55 db. below output. **Input,** two microphone and one phono. Gain microphone 125 db., phono 78 db. Standard tone control. **6 Tubes,** plus rectifier: 2 7N7, 2 6SF5, 2 6L6G, 1 5V4G. Hum free operation. **Output** tapped 2, 4, 8, 15, 500 ohms. **Power Requirements,** 120 watts, 117-volt AC, 60-cycle; 22 amps. 6-volt DC. Heavy gray ripple case 12x10x8". Wt., 40 lbs.



MODEL MC-25P AMPLIFIER AND TUBES ONLY

Has all features described above. Will operate any type of PM Speaker or weatherproof trumpet. **No. 30A1. MASCO MODEL MC-25P AMPLIFIER. NET..... \$88.79**

25-Watt COMPLETE MOBILE SOUND TRUCK SYSTEM

Consists of MC-25P Amplifier described above, two University 3 1/2-ft. Trumpets and two 25-watt drivers, 25-ft. speaker cables and plugs. Turner Model 9D Microphone with 7-ft. cord and connector. **No. 50A269. COMPLETE SYSTEM..... \$170.07**

COMPLETE 25-WATT MOBILE PORTABLE SYSTEM

25-Watt portable system for universal use on sound Truck or Automobiles where 6 volts DC is the only source of power or in any location where 115-volt AC power is available. Can be quickly set up either way. Entirely contained in a leatherette covered carrying case for convenient handling. Case is divided and serves as speaker baffles when system is in use. An ideal combination for orchestras, camp meetings, carnivals, speech making, churches, etc. The complete 25-watt system consists of MC-25P Amplifier and tubes, sturdy twin speaker carrying case, two heavy duty PM speakers complete with 25-ft. cables and plugs. JT-30 Astatic Microphone with cord and connector. Case dimensions, 23x15x18 1/2". Weight, 72 lbs.



No. 32A294. NET EACH..... \$123.63

LOW COST 25-WATT AC AMPLIFIER OR SYSTEM AMPLIFIER SPECIFICATIONS

Three inputs, 2 microphone and 1 phono. 6 tubes: 2 7N7, 2 6SF5, 2 6L6G, and 1 5U4G (Rectifier). Power Gain, 125 db, on Microphone inputs, 78 db, on phono. Tapped output impedance of 2, 4, 8, 15, 500 ohms. **HUM LEVEL,** 55 db. below output. Frequency Response, 50/10,000 cps. 3 gain controls, tone and on-off switch. 120 watts at 117 volts, 60 cycles AC. Housed in heavy steel case, size 15x8x8".



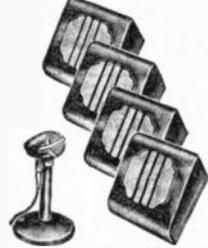
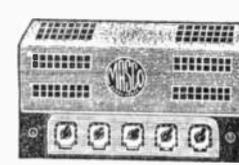
Masco Model MA-25 Amplifier. Complete as described above. **No. 30A4. "MASCO" Model MA-25 Amplifier, with Tubes. Net \$47.63**

COMPLETE 25-WATT PORTABLE P.A. SYSTEM

A complete portable-packaged P.A. system. Ample power for audiences to 2,000 persons! Consists of Model MA-25 Amplifier as described above, complete in rugged dual speaker baffle carrying case with TWO mounted heavy duty 12" PM Speakers, each with 25-ft. cable and plug; Astatic JT-30 crystal Microphone with 15-ft. cable and plug. Case size is 18 1/2 x 15 x 23" high. Sturdy leatherette covering. Weight, 55 lbs.

No. 31B225. Masco MAS-25 Portable P.A. System. NET.... \$94.81

ECONOMY 50-WATT AMPLIFIERS & FIXED SYSTEMS



**MA-50 AMPLIFIER!
QUALITY HI-POWER
AT VERY LOW COST!**

MA-50, 50-WATT AMPLIFIER SPECIFICATIONS

50 watts undistorted output for driving from 2 to 6 SPEAKERS to satisfactorily cover to 15,000 sq. ft. indoor area, or up to 10,000 sq. ft. of Stadium Bleacher or Grandstand seating! Peak Output is 64 Watts! FEATURES: Exclusive MASCO circuit; Inverse Feedback; full electronic mixing of all channels—2 Microphone channels at 130 db. gain, 1 Phono channel at 80 db. gain; Frequency response is 50/10,000 cps., ±2 db.; Hum level below zero level —22 db.; Individual gain controls for all channels, Bass and Treble controls; Tapped output impedances of 2, 4, 8, 15, 500 ohms. 4 6L6G's in push-pull parallel—Tubes used are 2 12T3, 1 7F7, 1 7N7, 4 6L6G, 2 5U4G (rectifiers). Completely fused, designed to provide high quality, high volume and long hour usage! In ventilated steel cabinet, 16x10x10". 240 watts, 117 volts, 60-cycle AC. Weight, 40 lbs. **No. 30C16. Masco Model MA-50 Hi-Power AC Amplifier Only \$75.85**

50-WATT COMPLETE AUDITORIUM SOUND SYSTEM

Consists of MA-50 amplifier described above, 4 heavy duty 12" PM Speakers, 4 Walnut Wall Baffles, Astatic JT-30 Microphone and desk stand with connector (wiring from amplifier to speakers need be only simple 2-conductor unshielded telephone wire or equal). Weight, 100 lbs. A fine system capable of covering most any indoor area up to 15,000 sq. ft. **No. 50B7. MA-50CA, Complete Auditorium System. NET... \$122.82**

50-WATT COMPLETE OUTDOOR SOUND SYSTEM

Consists of MA-50 amplifier described above, THREE University 3 1/2-ft. Weatherproof Trumpets and 25-watt Driver Units; Turner Model 9-D "Han-D" Dynamic Microphone with built-in "On-Off" switch with 7-ft. cable and connector. (Wiring to Trumpets of this system may be ordinary 2-conductor weatherproof telephone wire.) Weight complete, 110 lbs. This system will easily cover Stadium or other outdoor audiences to 3,000 persons! **No. 50B8. MA-50CS, Complete Outdoor Sound System. \$187.30 NET EACH.....**

ECONOMY 35-WATT MEDIUM POWER AMPLIFIER

Ample power to cover audiences up to 2,500 persons indoors, or 2,000 outdoors—will handle 2 to 4 PM type 12" Speakers in wall baffles, or 2 3 1/2-ft. Outdoor Trumpets! FEATURES: 35 watts power output with hum level —20 db. below zero level; Frequency response is 50/10,000 cps. ±2 db.; 2 Mike inputs at gain of 125 db.; Phono Input gain, 78 db. Separate Gain Controls for all inputs, Dual-tone control; selective outputs tapped at 2, 4, 8, 15, 500 ohms; Tubes are: 4 6SJ7, 1 7N7, 2 6L6G, 1 5U4G (rectifier). Overall Electronic Mixing; power consumption is 130 watts at 117 volts, 60-cycle AC. Steel cabinet is 15x8x8". Weight, 30 lbs.



No. 33B88. Masco Economy Model MA-35 Amplifier and Tubes \$54.45

17-WATT AMPLIFIERS & COMPLETE P.A. SYSTEMS



Specifications of 17-Watt AC Amplifiers, Models MA-17 and MA-17P (Phono Top): FEATURES: Full 17 watts output, Beam Power using 2 6L6G's; inverse feedback circuit; Microphone Input Gain 118 db.; plug-in Phono Input Gain 74 db.; 2 Gain and 1 Tone controls; electronic mixing overall; tapped outputs of 2, 4, 8, 15, 500 ohms; hum level, —22 db. below zero level; frequency response, ±2 db. 50/10,000 cps.; 90 watts, 117 volts, 60-cycle AC. Phono or plain models as listed.

MODEL MA-17. 17-Watt AC Amplifier, Less Phono Top. Complete with 5 tubes in grey crackle steel case 12x6 3/4 x 7 3/4". Weight, 18 lbs. No. 30A86. Model MA-17. NET EACH..... \$36.78

MODEL MA-17P. 17-Watt AC Amplifier, With Phono Top. Complete with Phono, 5 tubes, steel case 12x10x8". Weight, 28 lbs. No. 30A3. Masco Model MA-17P Amplifier. NET EACH.... \$43.25

17-WATT PORTABLE-CASED SYSTEMS (With or Without Phono)

Complete, ready to use. Has sufficient power for indoor audience coverage of up to 1,000 persons and outdoor area coverage of up to 3,000 sq. ft. Ideal for Small Orchestras, Lecturers, Clubs, and Ballrooms.

Illustrated above. Consists of Amplifier and Two 10" PM Speakers each with 25-ft. cable and plug mounted in heavy-duty carrying case; Astatic JT-30 Microphone with 15-ft. cable and plug. Overall size, 14 1/2 x 13 x 18". Weight, 55 lbs. **No. 31B226. MAS-17 Complete Less Phono Top..... \$77.94**

No. 31B221. MAS-17P Complete as Above But With Phono Top... \$84.41

17-WATT FIXED SYSTEM (With Speakers in Wall Baffles)

Amplifier as above; Two Jensen P10S 10" PM Speakers each with 25-ft. cable and plugs; Two 10" wall baffles; Astatic JT-30 Microphone with 15-ft. cable and connector.

No. 50A267. Complete With Phono Top..... \$80.09
No. 50A268. Complete as Above But Less Phono Top..... \$73.51



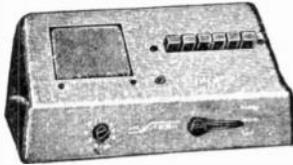
TREMENDOUS SAVINGS ON THIS FAMOUS NAME—U/L APPROVED RECORD CHANGER-AMPLIFIER!
25 WATTS, 115-VOLT, 60-CYCLE AC!
★4 Inputs: 2 Microphone, 2 Phono. Selector-Switch Outputs. 7 TUBES including rectifier. Automatic Changer plays 10 12" or 12 10" 78 RPM records! (Complete description, Page 137)
No. 32A56. NET EACH.....\$57.50



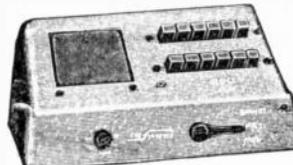
CON-FER-PHONE

**MODERN - STREAMLINED - U/L APPROVED!
COMPLETELY FLEXIBLE - MANY FEATURES!**

**THE ONLY SIX AND TWELVE STATION CAPACITY MASTER INTERCOM STATIONS FOR UNIVERSAL USE IN
● MASTER-TO-REMOTE ● MASTER-TO-MASTER ● MASTER-TO-MASTER-TO-REMOTE INTERMIX SYSTEMS**



Six Station Master



Twelve Station Master

**CAST ALUMINUM CABINETS
PUSH-BUTTON STATION SELECTION**



JL Remote



JS Remote



JS-6 Remote



Junction Box

"CON-FER-PHONE" MASTER STATION FEATURES:

- ★ 6-Station Master permits from one to six other stations (7-Station total).
- ★ 12-Station Master permits one to twelve other stations (13-Station total).
- ★ Push-button station selectors, finger-fitting, easy operating.
- ★ Press-to-talk switch has dictating position.
- ★ Individual or group conversations available at will.
- ★ 117-volt AC or DC operation; 2 1/2 Watts Power Output; 1 each 14F7, 50L6, 50Y6.
- ★ Volume Control with On-Off Switch; Indicating Pilot Light!
- ★ 4" "Alnico-V" PM Speakers, 13-ohm voice coils.
- ★ Cast Aluminum cabinets, size 12 5/8 x 7 1/2 x 5 1/4"; weight, only 8 lbs.
- ★ All cabinets finished in pleasing Walnut Hammertone baked enamel.
- ★ All "Con-fer-phone" Master and Remote units are U/L APPROVED!

"CON-FER-PHONE" SYSTEM SELECTION GUIDE

For Master-Remote Systems: Minimum system, 1 each Master and Remote, or 1 Master JMP-6 and as many as six JL, JS or JS-6 Remotes, or 1 Master JMP-12 and as many as twelve JL, JS or JS-6 Remotes. Remotes connected to Master station by 2-wire twisted unshielded cable, plus an additional 2-wire twisted shielded cable for each JS Remote used in system.

For All-Master Systems: Minimum system, 2 JMP-6 Masters. Seven Masters may be used in a JMP-6 System, 13 Masters in a JMP-12 System. All connected in parallel by a cable with twisted pairs of conductors equal to total number of Master Units in system.

Combination Master-to-Master-to-Remote Systems: Any combination of Masters and Remotes from two to seven for a JMP-6 System, or two to thirteen for a JMP-12 System. Wiring requires 1 pair unshielded twisted for each Master in system, the same for each Remote to Master; plus a shielded twisted pair from each Master to each type JS or JS-6 Remote connected to it in system. (2 Masters require two unshielded twisted pairs, PLUS cables described above to connect them to their private or shared-with-other-Master Remotes.)

"CON-FER-PHONE" 6 AND 12 STATION MASTERS

MODEL JMP-6. For use with SIX or less other stations to complete any of the systems described under "System Selection Guide" above. Complete with tubes, installation chart, instructions; ample power for operation of stations hundreds of feet apart!

No. 32B229. Masco Model JMP-6 "Con-Fer-Phone" Master. **\$34.07**

MODEL JMP-12. For use with TWELVE or less other stations to complete any of the systems described under "System Selection Guide" above. Complete with tubes, installation chart, instructions. Has all features described above under "Master Station Features".

No. 32C223. Masco Model JMP-12 "Con-Fer-Phone" Master. **\$39.95**

"CON-FER-PHONE" REMOTE STATION FEATURES:

- ★ All have 4" "Alnico-V" magnet PM Speakers.
 - ★ All have Cast Aluminum cabinets, size 6 5/8 x 7 1/8 x 5 1/4"; weight, 3 1/4 lbs.
 - ★ All may be used in any combination with JMP-6 or JMP-12 Masters.
 - ★ Model JL Remotes connect to one Master by 2-wire twisted unshielded cable! Can answer Masters from a distance; cannot initiate calls.
 - ★ Model JS Remotes connect to one Master by 2-wire unshielded cable and a common 2-wire shielded cable connecting all JS Remotes in system to Masters; have press-to-talk switch permitting initiation of calls to one Master.
 - ★ Model JS-6 Remotes connect to and may initiate calls to as many as six Masters; require a 2-wire shielded cable to each Master to be called, plus a 2-wire unshielded cable to each Master for privacy talking circuit.
- NOTE:** JL Remotes may be "listened-in" on by Masters; JS and JS-6 Remotes can be wired for "privacy" or "non-privacy" to their Master Stations.

REMOTE STATIONS FOR JMP-6; JMP-12 MASTERS

(None of the Remotes listed below require connection to power line)

MODEL JL REMOTE. Less call switch, with installation instructions. **\$7.50**
No. 32B236. Masco Model JL Remote Station. Net Each.

MODEL JS REMOTE. With call switch and installation instructions. **\$8.23**
No. 32B250. Masco Model JS Remote Station. Net Each.

MODEL JS-6 REMOTE. With 6-position Master Station Selector and Call Switch, complete with installation inst. and wiring diagram. **\$11.73**
No. 32B256. Masco Model JS-6 Remote Station. Net Each.
(Note: The JS-6 Remote may be connected to more than one Master Station)

JUNCTION BOX: (Illustrated at right above.) **MODEL BJ-12 JUNCTION BOX** has 14 pairs of terminal lugs mounted on metal chassis, with dust cover; simplifies wiring of systems and eliminates "splice troubles" and inconvenience. One BJ-12 should be used with each Master Station and each JS-6 Remote Station in system. **\$4.25**
No. 32B205. Masco Model BJ-12 Junction Box. Net Each.

WIRING CABLES FOR "CON-FER-PHONE" SYSTEMS

	Per Ft.
No. 2A94. 2-wire, unshielded twisted, with braid overall.	2c
No. 2A89. 2-wire, shielded twisted, with braid overall.	4c
No. 2A95. 2 2-wire twisted pairs, cotton braid covering overall.	4c
No. 2A96. 3 2-wire twisted pairs, braid covering overall.	5c
No. 2A97. 6 2-wire twisted pairs, cotton braid covering overall.	7c
No. 2A98. 9 2-wire twisted pairs, braided covering overall.	9c
No. 2A99. 13 2-wire twisted pairs, braided covering overall.	15c

★ ★ ★ MASCO "ECONOMY"—STAR VALUE 6-STATION CAPACITY INTERCOM SYSTEMS ★ ★ ★ 117-VOLT AC/DC . . . WALNUT HAMMERTONE CAST ALUMINUM CABINET . . . U/L APPROVED

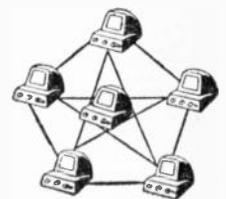
MASTER-REMOTE SYSTEM.
See Connection Diagram at Left.

Cabinet Size, 6 5/8 x 7 1/8 x 5 1/4"



ALL MASTER SYSTEM.
See Connection Diagram at Right.

Cabinet Size, 6 5/8 x 7 1/8 x 5 1/4"



JM5 MASTER REMOTE SYSTEM

Consists of one JM5 Master unit and one to five "JR." Remote units. Provides instant communication from Master to any remote or to all at once. Remote stations may call Master. 2 1/2 watts power provides ample volume even at long distance to remote. Selector switch has one position for each remote, all call position to contact all remotes at once and stand-by position to insure quiet at Master. Combined volume control and off-on switch and talk-listen switch. Remote has "press to talk" switch for originating calls. Weight, Master, 6 lbs.; Remote, 3 1/4 lbs. Requires three conductor unshielded cable from Master to each Remote. Complete with instructions.

No. 36A47. Model JM5 Master. EACH. **\$22.05**

No. 36A48. Model JR Remote. EACH. **\$7.50**

IM5 ALL MASTER SYSTEM

Consists of identical units. Any number from two to six. May be used in a system. Provides communication between any two units with complete privacy and no cross talk or interference. The "all call" position of selector switch permits talking to all stations at once. Has volume control and "press to talk" switch. With three tubes this unit has 2 1/2 watts output, a clear natural tone and permits long distance operation between units with good volume. Connecting cable required is total distance between each unit in the system. Requires cable with one more conductor than number of units. Complete with instructions.

No. 36A49. IM5 UNITS. **\$22.05**

← "MASCO" 2-WAY STEP-SAVER INTERCOM SYSTEM →

Complete, ready to install! Supplies instant, two-way communication between any two points up to 500 ft. apart! Life-like tone quality, ample power to make voices heard easily at least 25 feet from "slave" or remote station! Tailor-made for Physician, Dentist, Lawyer, Restaurant, HOMES. MASTER UNIT features heavy duty 2 1/2-watt amplifier using 14F7, 50L6 and 50Y6 tubes. "On-Off" switch, combined with Volume Control, permits adjustment of volume to suit location. Both Master and Remote Units have "Press-to-Talk" switches; Remote may initiate calls to Master Unit; Remote Station can be used for two-way conversation WITHOUT use of press-to-talk switch. Both Units housed in Cast Aluminum cases, size 6 5/8 x 7 1/8 x 5 1/4"; BOTH have 4" Alnico-V speakers with 13-ohm voice coil impedance. Complete system with 50 ft. of cable and instruction. Weight, 9 1/4 lbs.

No. 31A61. MODEL JMR COMPLETE STEP-SAVER TWO-WAY INTERCOM SYSTEM. EACH **\$24.99**





Reflex TRUMPETS and HIGH POWER DRIVER UNITS

HIGH EFFICIENCY REFLEX TRUMPETS

All metal, weather-proof projector. Famous rubber rim eliminates rattles and resonant vibrations. When used with University hermetically sealed driver; a continuous, long life operation outdoor speaker is assured. All metal non-corrosive finish limits possibilities of deterioration. "U" Brackets permit mounting in any position.



①

① MODEL "CH" SUPER REFLEX TRUMPET—6-FOOT AIR COLUMN; 30" diameter bell, low frequency cut-off of 85 cps.; for finest music and voice reproduction. Made of Aluminum; 25" long (without driver). Weight, 22 lbs. 90° dispersion. Stock No. 40A37. MODEL "CH" TRUMPET ONLY. NET. . . . \$35.28



②

① MODEL "LH" REFLEX TRUMPET—4½-FOOT AIR COLUMN; very satisfactory for BOTH VOICE AND MUSIC; low frequency cut-off, 120 cps. Bell dia., 25½"; length 18½". Heavy steel finished in gray enamel. Wt., 15 lbs. 90° dispersion. Stock No. 40A24. MODEL "LH" TRUMPET ONLY. YOUR COST \$26.16

① MODEL "PH" REFLEX TRUMPET—3½-FOOT AIR COLUMN; ideal for voice, low frequency cut-off, 150 cps. Bell dia. 20"; length 15". Heavy steel, gray enamel finish. Wt. 10 lbs. 80° dispersion. Stock No. 40A23. MODEL "PH" TRUMPET ONLY. NET. . . . \$17.05

① MODEL "SMH" REFLEX TRUMPET—2½-FOOT AIR COLUMN; made of aluminum with 15½" diameter bell, 12" long; wt. 6 lbs. Low frequency cut-off is 200 cps. 75° dispersion. Stock No. 40A22. MODEL "SMH" TRUMPET ONLY. NET. . . . \$14.41

④ "University" RADIAL REFLEX Projectors—of exceptional merit for reproduction of CHIMES IN CHURCH TOWERS, and widely used in all installations requiring clear sound dispersion in ALL DIRECTIONS! For use with ANY of the University Driver Units listed at right above. Two Driver Units may be used on a single projector by the addition of "2YC" dual trumpet connector.

② MODEL "RLH" RADIAL REFLEX PROJECTOR. Low frequency cut-off, 120 cps.; Air Column, 5 ft.; Dia. 28¼"; height, 25¼". Weight, 21 lbs. With "U" bracket mounting. LESS Driver Unit. Stock No. 40A31. "RLH" Radial Reflex Projector. Net. . . . \$34.69

③ MODEL "RPH" RADIAL REFLEX PROJECTOR, designed for BOTH speech and music. Low frequency cut-off, 150 cps.; 4 ft. Air Column; dia. 24¾"; height, 19½"; weight, 18 lbs. LESS Driver Unit. Stock No. 40A8. "RPH" Radial Reflex Projector. Net. . . . \$26.46

NEW UNIVERSITY POWRMIKE

For the first time a complete sound system without an amplifier operating direct from mike to speaker. Ideal for use as a compact, portable, economical sound system for Ballyhoo from autos, auctions, announcing, police and fire vehicles. The system draws no current until the press-to-talk switch is operated then it will actually deliver 1.5 watts of audio power which cannot be overloaded under any conditions. It requires no 110-volt source of power and can be operated from any 6-volt battery. Where wider sound pattern is desired two PS4 speakers may be connected in parallel.



Model PC60 Kit. Complete with Powrmike, PS4 Speaker. Hot Shot battery adapter plate, Cigarette lighter adapter plug. Battery drain ⅜-amp. Output impedance 2-4 ohms. Frequency 100/5000 cps. Weight, 6 lbs. (Less battery). Stock No. 34A184. NET. . . . \$35.28

Model PC66. Completely assembled and wired with Powrmike, PS4 speaker, volume control, hot shot battery adapter plate. (Less battery.) Stock No. 34A185. Model PC66. NET. . . . \$38.81

Eveready Battery. For both models. Stock No. 37A84. Eveready No. 1461. NET. . . . \$2.50

UNIVERSITY PAGING and TALK BACK SPEAKERS



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②



③

① MODEL "IBR" 12-Watt, 8-Ohm Voice coil, 360° dispersion complete Radial Reflex Speaker. Frequency response, 300/6,000 cps. Useful with P.A. amplifiers for music and voice reproduction. Hermetically sealed Driver Unit. Waterproof construction and finish with rubber "damping" ring. Diameter, 9"; height, 11"; weight, 5 lbs. Stock No. 34A133. Net. . . . \$22.93

② MODEL "MIL" Complete 3-Watt Reflex Paging and Intercomm Speaker. Permits "Talk-back" at distances to 50 ft. Adjustable wall bracket mounting. Frequency response is 400/9,000 cps.; 8-Ohm V.C. Diameter, 6"; depth, 7"; weight, 3½ lbs. Stock No. 34A106. Model "MIL" Reflex Speaker. Net. . . . \$14.70

③ MODEL IB8 12-Watt Directional Reflex Speaker. Dispersion angle, 90°; Frequency Response, 300/6,000 cps.; 8-Ohm V.C.; adjustable wall bracket mounting. For continuous duty at 12 watts power input. Stock No. 34A132. Dia., 9"; depth, 9"; weight, 5 lbs. Net. . . . \$19.11

"UNIVERSITY" DRIVER UNITS

ALNICO-V PM 25-WATT UNITS

BREAKDOWN PROOF! 1-YEAR GUARANTEE
Dural Voice Coil Suspension
Bakelite Diaphragm
Completely Weatherproof!



MODEL SA-HF 25-Watt Wide Frequency Range Driver Unit. Ideal for combination voice-music use due to extended frequency range of 90/10,000 cps. Will "stand up" under continuous 25-watt input; completely weatherproof; 16-Ohm V.C. Size, 4½" dia.; 4¾" high; weight, 5 lbs. A brand NEW unit scheduled for wide usage in P.A. work! (Illus. right above.) Stock No. 34B134. University Model SA-HF Driver Unit. Net. . . . \$21.76



MODEL MA-25. NEW LOW-COST 25-WATT DRIVER UNIT. Similar in appearance to Illus. at right above, this new unit has ALL the fine features of "University" Drivers. Continuous service; Breakdown proof construction; Frequency Range is 90/6,000 cps. for Voice or Music work; Voice Coil Imped., 16-ohms. Size, 4½" dia.; 3¾" high. Stock No. 31B25. University Model MA-25 Driver Unit. Net. . . . \$14.70

NEW! PA-30 HEAVY DUTY, COMPLETELY WATERPROOF 30-WATT DRIVER

The FIRST Hi-power continuous duty driver capable of handling full 30-watts undistorted output without blasting or overloading with the ADDITIONAL FEATURE OF BUILT-IN line matching transformer providing taps for 165, 250, 500, 1000, and 1500 ohms at voltages of 30, 20, 10, 5, 2½ watts plus standard 16 ohm V.C. tap. Tops in electrical design, efficiency and mechanical strength—has complete immunity to temperature and humidity change—unaffected by chemical fumes. Constant voltage taps permit approx. 3 db. change in volume level at each step—eliminating complicated figuring when used with 70 volt constant voltage outputs. NEW "W" ALNICO-5 PM MAGNET provides freq. resp. of 80-10,000 cps. on Model PA-30 and 70-60,000 cps. on Model PA-30C. Either Driver unit delivers clean, undistorted clear reproduction of high signal level low frequencies—and faithful reproduction over its entire rated range at continuous full loading of 30 watts.

Model PA-30. ALL-PURPOSE; DRIVER Range 80-10,000 cps. Size : 6¾"x 6¾". Wt. 6 lbs. No. 37A85. NET. . . . \$29.40

Model PA-30C. Tailored for Chime and Carillon use. Range 70/6000 cycles. For high impact passages encountered in Chime reproduction. Size and wt. as above. No. 37A86. NET. . . . \$32.34

NEW UNIVERSITY COBRA REFLEX SPEAKERS

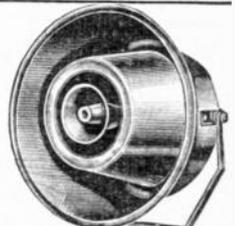
Recommended for wide range music systems, theatres, concert halls, airports, etc. For maximum horizontal dispersion of voice with startling realism, articulation and a maximum of volume without feedback. It provides a uniform sound pattern in both frequency and intensity over a horizontal angle of 120° and a vertical angle of only 60°. Comparatively little energy is dissipated in the vertical plane. Sound can be directed with almost mathematical precision to exactly where it is needed. Will effect more satisfactory coverage than a greater number of conventionally designed speakers. Used advantageously as a wide range tweeter in conjunction with a low frequency cone speaker in a suitable baffle. Trouble-free, completely weatherproof, gunmetal finish and supplied with a "U" bracket for tilting and locking in any vertical plane. Frequency range 300/10,000 cycles, 12 watts output, 8-ohm voice coil. Size, 20½" wide; 8" high; 16" deep. Weight, 5½ lbs. Stock No. 34A183. Cobra 12. NET. . . . \$26.46



CO-AXIAL TRUMPETS

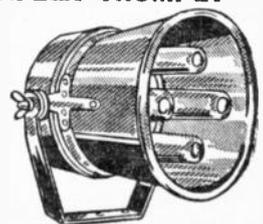
"UNIVERSITY" MODEL WLC

25-Watt, High Fidelity, Completely Weather-proof Co-Axial Speaker. Consists of a highly efficient 12" Cone (Woofer) speaker in combination with a unit-driven 25-Watt "Tweeter" unit, coupled by built-in Crossover network at frequency of 1,000 cps. Frequency response is essentially flat from 50/10,000 cps. FEATURES: Sturdy, corrosion resistant construction, Moisture-proof cone 12" Woofer Speaker in large volume, sealed enclosure, re-entrant design of housing assuring maximum protection to cone. Adjustable "U" bracket allows WLC to be swung in all directions, adjusted and locked. 90° dispersion for wide-angle coverage of large areas. For fine, high quality reproduction of Voice and Music, Model WLC is "IT" for use in Band Shells, Auditoriums—any outdoor or indoor installation where high quality reproduction of music and voice are essential! Will "Carry" full 25 watts continuously without a trace of blasting or overloading. Size, diameter, 33"; depth, 18"; weight, 70 lbs. 8-ohm V.C. No. 40A30. Model WLC Complete Coaxial Trumpet. Net. . . . \$117.60



LOW COST 100-WATT QUADRAFLEX TRUMPET

Model 4A4 "University" Super-Power Reflex Trumpet—accommodates FOUR standard 25-watt Driver Units, each feeding into individual reflexed air columns, adapted to broadcasting from aeroplanes, or transmission of Chime and Organ music from church towers. When equipped with Four type SA-HF 25-watt wide frequency range driver units Model 4A4 will provide clear projection for ONE MILE at 80° dispersion! Size, 16" in diameter; 17" long; weight, 23 lbs. LESS Driver Units. Sturdily constructed, oven baked finish to stand continuous exposure in any weather. Adjustable "U" bracket may be locked in any position. Stock No. 40B38. Model 4A4 Reflex Trumpet Only. NET. . . . \$54.68





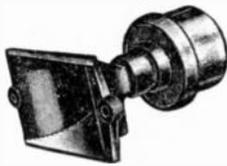
HIGH FIDELITY "TWEETER" UNITS

Extend the high frequency response of existing equipment to approximately 15,000 cycles. Easily installed and connected through Model 4405, a simple, inexpensive high pass filter which includes a high frequency volume control for balance of lows and highs.

WIDE RANGE HI-FREQUENCY "TWEETER" UNITS FOR USE WITH ANY GOOD CONE SPEAKER.

PROVIDES TRUE HIGH FIDELITY AT LOW COST.

Frequency response, 2,000/15,000 cycles; Input impedance 12 ohms; Power rating 6 watts. Ideal for installation in Console Radio Cabinets or radio-phonograph combinations in conjunction with existing cone speaker for full Hi-Fidelity music and voice reproduction. Size, 4 1/2" wide, 2 5/8" high and 5" deep.



No. 34A151. MODEL 4401. NET **\$11.76**

QUICK-ADAPTER TWEETER FOR 12-IN. SPEAKERS

Ready-made modernization Tweeter Speaker, complete with steel adapter ring to fit ANY 12" PM speaker frame. Consists of Model 4401 Single Tweeter Unit with ALL necessary screws, bolts, etc., for mounting to the frame of speaker. Merely remove speaker from baffle-board, attach steel ring to speaker, and re-mount entire assembly to baffle board; requires only 3 1/2" additional depth space! Requires Model 4405 Hi-Pass Filter Unit listed below. Simple installation instructions supplied.



No. 34A156. Single Unit Tweeter Speaker. Complete With Mounting Ring. NET **\$14.70**

HIGH PASS FILTER AND VOLUME CONTROL UNIT—MUST be installed with ANY of the above "Tweeter" units; "routes" hi-frequencies to Tweeter Unit and bass or low frequencies to cone speaker. Volume control permits "building up" or suppression of high frequencies as desired. Easily connected to Tweeter Unit and Cone Speaker by merely attaching two wires to existing speaker.

Stock No. 34A152. Model 4405 High Pass Filter Unit. NET **\$5.88**

NEW UNIVERSITY TWEETER

University tweeters, 4408 and 4409 are designed for wide range reproduction requiring a low cut-off of 600 cycles. Particularly recommended for those who insist on the highest quality for concert halls, theatres and auditoriums. The bakelite diaphragms and Alnico 5 magnet account for the wide range and power handling capacity of these units.

Model 4408. This compact design 6-watt tweeter unit was perfected for use in the home, Consoles, speaker cabinets, sound movies and other systems where high fidelity is essential. Frequency response 600/15,000 cycles; impedance 16 ohms. Size, 5 3/4" high, 7 3/8" wide, 1 1/8" deep.

Stock No. 37A87. MODEL 4408. NET **\$16.17**

Model 4409 has same characteristics as above unit except for power handling capacity of 25 watts. Size, 5 3/4" high, 7 3/8" wide, 1 1/8" deep.

Stock No. 37A88. MODEL 4409. NET **\$23.52**

Model 4410. Compact 600-cycle cross over for either of above.

Stock No. 37A89. NET **\$26.46**



"UNIVERSITY" LINE MATCHING TRANSFORMER

Housed in rubber gasketed, water-tight housing; for use with "University" Speakers in outdoor or indoor locations. Model 5402 has bracket for direct mounting to "U" brackets of any University trumpet. 25-watt; primary imp., 250, 500, 1000, 1500, 2000; Secondary imp., 4, 8, 16 ohms.

No. 33A93. NET EACH **\$11.76**



360° Radial Cone Projector

"UNIVERSITY" MODEL RBP-12. RICH TONE QUALITY equal to large wall speaker enclosures! Large acoustic chamber with rubber cushioned opening correctly loads rear of cone speaker for FULL RANGE reproduction of VOICE or MUSIC! Frequency uniform down to 50 cycles. Diameter 26"; height, 14"; weight, 19 lbs.

Stock No. 32A22. MODEL RBP-12 PROJECTOR ONLY FOR 12-INCH CONE SPEAKERS; YOUR COST **\$20.58**

MODEL RBP-8; SAME AS ABOVE FOR 8" CONE SPEAKERS. 17" diameter x 10 3/8" high; weight, 9 lbs.

Stock No. 32A23. YOUR COST **\$11.52**

REFLEX TRUMPET ADAPTERS

illus. "A": "University" PMA Adapter — Bolts securely to "U" bracket of trumpets and has 1/2-inch I.P.T. female threaded socket for secure fastening to 1/2" pipe; 5 1/2" wide, 2 3/4" high; wt. 12 oz.

No. 31A26. "PMA" Adapter. Net. **88c**

illus. "B": "University" 2YC DUAL DRIVER UNIT CONNECTOR. Heavy threaded casting with acoustically correct design, permitting use of TWO driver units on a single Reflex Trumpet. Male threads fit all trumpets, female threads fit all driver units. Size, 4 1/8 x 2 1/2 x 2"; wt. 8 oz.

Stock No. 31A48. "University" Model 2YC Dual Adapter. Net. **\$5.88**

PARABOLIC BAFFLE



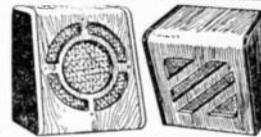
For 12-Inch Speaker 20" Bell Heavy Steel

Vibration and WEATHER-PROOF for most severe field service; NEW interlocking WATER-TIGHT SEAL between sections. Mounting holes drilled fit any 12" speaker—mounting bolts supplied. Hanging loops supplied to support baffle in position desired. Baked BLUE-GRAY weather resistant enamel finish.

Stock No. 32A24. Model SM-12. Your Cost. **\$9.11**

Quality BAFFLES & CABINETS

illus. A: Super DeLuxe Wall Baffle. The finest baffle possible to build! "Spot Welded" Construction by Electronic Heat—no parting at seams! Genuine Walnut, beautifully rolled front (not veneered), with sides of solid 5/8" thick gum-wood; reinforced by 1/2 x 1 1/4" braces top and bottom! Front drilled for speaker mounting bolts, decorative head mounting bolts furnished, together with hook and bolt for wall mount.



Stk. No.	For Speaker	High	Wide	Deep	Weight	Your Cost
32B43	12"	16"	15"	9 1/2"	6 1/2 lbs.	7.20

illus. B: "B-A Plus Value Wall Baffles". Beautifully designed, rugged construction reinforced corners and finished with heavy two-tone walnut veneer.

Stk. No.	For Speaker	High	Wide	Deep	Weight	Your Cost
33B11	5"	7 1/2"	5 1/2"	4 1/2"	1 lb.	\$1.95
34A103	6"	8 1/2"	7 1/2"	5"	1 1/4 lbs.	2.40
34A102	8"	10 1/2"	9 1/4"	6"	1 1/2 lbs.	2.70
34A101	10"	11 3/4"	10 1/2"	7"	2 1/4 lbs.	3.15
34A100	12"	13 3/4"	14"	9"	3 lbs.	4.25

DE LUXE STEEL SPEAKER CABINETS

Ideal for portable "PA" speakers; NON-RATTLE construction in streamline design, rounded corners, ornamental grille, carrying handle; well baffled. Gray wrinkle enamel finish.



Stk. No.	Dimensions	For Speaker	Hole Size	Net Ea.
5A127	10x10x6"	6-Inch	4 3/4"	\$3.00
5A128	12x12x7"	8-Inch	6 1/2"	3.69
5A129	16x16x8"	12-Inch	11"	6.32

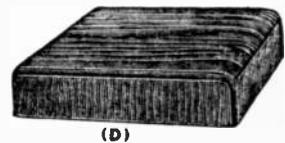
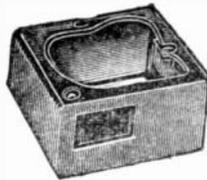
HI-FIDELITY BASS-ACOUSTIC SPEAKER CABINETS



Rugged plywood BASS-REFLEX CABINETS, engineered for Hi-Fidelity reproduction with any GOOD speaker; Ideal for Co-axial speakers, or "Tweeter"- "Woofer"; wide range speaker systems. Rich Leatherette covered, complete with all necessary hardware. FINE CABINETS AT EXTREMELY LOW COST!

Stk. No.	For Speaker	Dimensions	Wt.	Net Each
40A14	12"	27x21x11 1/2"	37#	\$18.28
40A15	15"	32x24x14"	43#	22.50

RECORD CHANGER AND PHONO MOTOR BASES



illus. A: "Webster" Record Changer Base. FOR MODELS 156, 256 or 356 CHANGERS —provides room for 5" or 6" speaker and small Phono Amplifier. Solidly built of heavy plywood, covered with good quality Leatherette, matching speaker grille cloth. Size, 16x15 1/8 x 7 3/8" high. Wt. 7 lbs.

Stock No. 34A104. "WEBSTER" CHANGER-AMPLIFIER BASE. Net Each **\$5.65**

illus. B: "Webster" Record Changer Base (Without Speaker Grille). EXACTLY CUT TO FIT MODEL 156, 256 OR 356 CHANGERS—sturdily made of heavy plywood with durable Leatherette covering. Size 16x15 1/8 x 4 1/2". Wt. 5 lbs.

No. 34A105. "WEBSTER" RECORD CHANGER BASE. Net Ea. **\$4.18**

illus. C: POLISHED VENEER RECORD CHANGER BASE. Easily cut to fit ANY Record Changer—sturdy plywood has highly polished finish; pleasing Waterfall design. Room for phono oscillator, or may be used with single record phono motor and amplifier. Size 17x14 1/2 x 4" high. Wt. 4 1/2 lbs.

Stock No. 30A133. Walnut Veneer Record Changer Base. Net Each **\$4.18**

illus. D: Polished Veneer PHONO MOTOR BASE. Neat, Waterfall WALNUT veneer LOW COST base for ANY PHONO MOTOR—sturdy construction of plywood; size, 12 1/2 x 10 7/8 x 3 7/8" high. Wt. 2 1/2 lbs.

Stock No. 30A132. Walnut Veneer Phono Motor Base. Net Each **\$2.86**

PORTABLE RECORD CHANGER CARRYING CASE

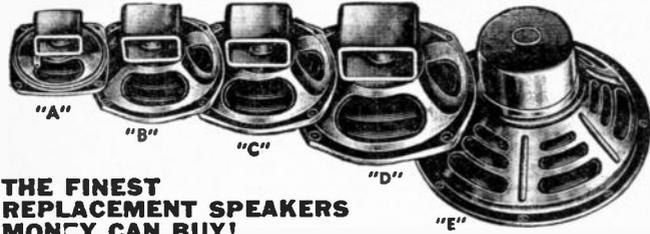


Accommodates ANY make of Record Changer; plywood construction with quality Leatherette covering, double clasps and carrying handle. Motor mounting board is 15 3/4" square, inside lid depth 6 1/4"; depth below motor board is 4 3/4". Overall size is 16 1/2" square, 11 3/4" deep. Weight, 16 1/2 lbs.

Stock No. 30A90. Record Changer Carrying Case. NET EACH **\$10.21**

Jensen "Standard Series" SPEAKERS

"ALNICO-5" Replacement "PM" Dynamic Speakers



THE FINEST REPLACEMENT SPEAKERS MONEY CAN BUY!

"Tops" in performance—long magnet life—DUSTPROOF. "Less Transformer"

Speaker Size	Dimensions		Voice Coil			Jensen Model	Stock No.	Your Cost
	O. D.	Depth	Diam.	Ohms.	Watts			
4-inch	5"	2"	3/8"	3-4	2.0	P4-X	14B600	\$2.44
5-inch	5"	2 1/2"	3/8"	3-4	2.5	P5-X	14B601	2.53
5 1/4-inch	5 1/4"	2 1/2"	3/8"	3-4	4.0	P525-V	14C619	3.23
6-inch	6 1/4"	3"	3/8"	3-4	3.0	P6-X	14B602	2.94
6 3/8-inch	6 3/8"	3 1/4"	3/8"	3-4	5.0	P69-V	34A116	4.65
7-inch	7 1/4"	3 1/4"	3/8"	3-4	5.5	P7-U	34A117	4.67
8-inch	8 1/4"	3 1/4"	3/8"	3-4	7.0	P8-T	34A108	5.59
8-inch	8 1/4"	3 1/4"	3/8"	6-8	8.0	P8-S	34B115	7.20
10-inch	10 3/8"	5 1/4"	1 1/8"	6-8	8.0	P10-T	34A109	6.26
10-inch	10 3/8"	5 1/4"	1 1/8"	6-8	9.0	P10-S	34A131	8.97
12-inch	12 3/8"	6 1/4"	1 1/8"	6-8	9.0	P-12T	34A110	6.97
12-inch	12 3/8"	6 1/4"	1 1/8"	6-8	10.0	P12-S	30A23	9.70

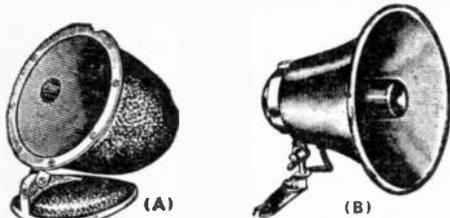
Jensen Standard Series Field Coil Dynamics

These NEW and MODERN DESIGN Speakers are of the highest possible quality; DUSTPROOF; and all have bucking coils. 3 to 4 Ohm Voice Coil.

Speaker Size	Dimensions		V.C. Dia.	Field Res.	Power, Watts	Jensen Model	Stock No.	Your Cost
	O.D.	Depth						
4-inch	5"	2 1/4"	3/8"	450	2.0	F4-X	14A718	\$3.03
4-inch	5"	2 1/4"	3/8"	1000	2.0	F4-X	14B603	3.09
5-inch	5"	2 1/2"	3/8"	1000	2.5	F5-X	14B604	3.18
5-inch	5"	2 1/2"	3/8"	450	2.5	F5-X	14B605	3.14
6-inch	6 1/4"	2 1/2"	3/8"	1000	3.0	F6-X	14B606	3.32
6-inch	6 1/4"	2 1/2"	3/8"	450	3.0	F6-X	14A689	3.26
8-inch	8 1/4"	3 1/4"	3/8"	1000	4.0	F8-W	34A124	3.91
10-inch	10 3/8"	5 3/8"	1 1/8"	1500	9.0	F10-S	34B123	7.47
12-inch	12 3/8"	6 3/8"	1 1/8"	1500	10.0	F12-S	34A129	8.58
12-inch	12 3/8"	6 3/8"	1 1/8"	1000	10.0	F12-S	34B128	8.73

"Professional Series" SPEAKERS

JENSEN SPEECHMASTER PROJECTORS



Wall, desk or rack mounting, recommended for paging, intercom, ham, police and aviation fields. Peridynamic design, dust-proof construction.

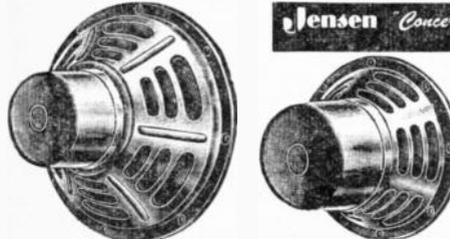
(A) Jensen Model AP-10 Speechmaster Projector. Beautiful gray, chrome, streamline speakers insure crisp speech reproduction, tone better than the average small radio,

sturdy construction, fitted to mount transformer internally. Size, 6 3/4" high, 5 1/8" deep, 5" diameter bell. Weight, 5 1/4 lbs. No. 34A119. 4-Ohm. Complete with tilt adjustment. NET... \$9.70

(A) MODEL AP-11 SPEECHMASTER PROJECTOR. Identical to AP-10 described above except WITHOUT base or swivel and designed for PANEL MOUNTING. Front rim has eyelets for mounting screws, fits 4 27/64" cut-out. Depth from front panel 4 1/2"; with screws and drilling template. Weight, 3 1/4 lbs. 4-OHM VOICE COIL—a dandy for rack mounting; gray with chrome trim. No. 34A118. PANEL MOUNT PROJECTOR. Your Cost... \$8.17

(B) MODEL VH-91 HYPEX SPEECHMASTER PROJECTOR. Delivers CLEAR, intelligible speech with plenty of "punch". 15 WATTS power capacity. V.C. impedance is 8 ohms; provides useful output over a 100-degree total angle—clever MTG. BRACKET points projector in ANY direction, securely LOCKS into position with a single wing nut. Two-wire R.C. cable for connections. Bell diameter, 8 7/8"; bell length, 7 3/8". Wt., 4 1/2 lbs. No. 34A138. VH-91 HYPEX PROJECTOR. Your Cost... \$19.11

Jensen "Concert Series" SPEAKERS

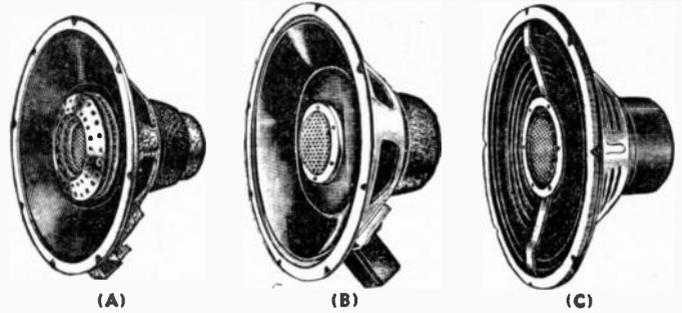


These famous "PM" speakers all have Alnico-5 magnets—are heavy duty, highly efficient speakers for public address or finest quality radio or phono uses. They are designed for use with BASS REFLEX CABINETS.

(Note: Transformers are NOT included in prices quoted below.)

Speaker Size	Dimensions		Voice Coil			Jensen Model	Stock No.	Your Cost
	O. D.	Depth	Diam.	Imped.	Watts			
8-inch	8 3/4"	4 1/4"	1"	6-8	9.0	P8-R	34B125	\$8.97
10-inch	10 3/8"	5 1/4"	1 1/8"	6-8	10.0	P10-R	34B126	10.88
12-inch	12 3/8"	6 1/4"	1 1/8"	8	14.0	P12-Q	30A24	16.32
12-inch	12 3/8"	6 1/4"	1 1/8"	8	18.0	P12-N	30A25	28.80
15-inch	15 3/8"	7 3/8"	1 3/8"	8	20.0	P15-N	32A44	32.34

Jensen "Coaxial Series" SPEAKERS



JENSEN HI-FIDELITY COAXIAL LOUDSPEAKERS

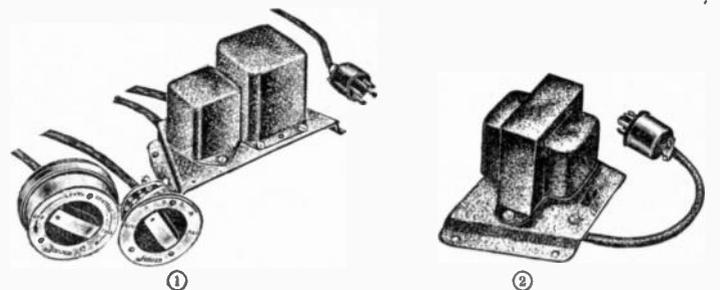
Created for superior reproduction and even distribution of sound over the entire room, a new "acoustic lens" in conjunction with the H-F horn disperses the high register for proper balance and brilliance of highs and lows. Smoothness of response, high power rating, Alnico V PM, and efficiency due to advance design, make a better two-way speaker than ever before offered at any price. Recommended for custom home systems and broadcast monitoring.

Illus. (A) JENSEN H-510. Unusual clearness and thrilling realism of reproduction in the 15" coaxial speaker makes it a pleasure for your listening. Features built-in divider network, 30-watt maximum signal input, 16-ohm impedance to assure the best in the coaxial speaker line. Size, 15 1/8" O.D., 9 9/16" deep. Weight, 22 lbs. List, \$135.00. No. 34B154. Model H-510. NET EACH... \$79.38

Illus. (B) JENSEN K-310. For custom installation at the lowest cost, yet the quality of reproduction is excellent. This 15" coaxial speaker with built-in divider network, 20-watt input and 16-ohm impedance will out perform many higher priced speakers. Size, 15 1/8" O.D., 8 7/8" deep. Weight, 12 lbs. List, \$56.25. No. 34A121. Model K-310. NET EACH... \$33.08

Illus. (C) JENSEN K-210. Provides a compact, low cost, 12" two-way speaker system of high fidelity, ideal for modernization of radio, phono or television. Equipped with single radiator cone and new high frequency unit, has 8-ohm impedance, built-in divider network and power handling capacity of 12 watts. Size, 12 1/8" O.D., 6 5/16" deep. Weight, 7 lbs. List, \$33.40. No. 34B155. Model K-210. NET EACH... \$19.64

CONTROL NETWORK and TRANSFORMERS



① JENSEN MODEL A-110. CONTROL NETWORK. Adjustable level and high frequency control for H-510 and K-310 speakers. Mounts directly to speaker frame, plug in connections, 16-ohm impedance. Complete with escutcheon, knobs, hardware and 30" cable for panel mounting of controls. No. 37A98. Model A-110. NET... \$15.58

② JENSEN IMPEDANCE-ADJUSTING TRANSFORMERS. To provide varied input impedance for model H-510 and K-310 speakers. Ideal performance and efficiency for high fidelity. Complete with plug-in connections and mounts directly to speaker frame, choice of impedance by switch, may be used with A-110 Control network. No. 13B64. Model T-101. 4/8 Ohms. No. 13B59. Model T-102. 250/500/600 Ohms. No. 13B63. Model T-103. 10,000/5000 Ohms C.T. } NET EACH... \$7.06

"Special Series" SPEAKERS

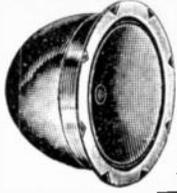
NEW EXTENDED RANGE . . . HIGH FIDELITY SPEAKERS

"Special Series" high fidelity speakers provide excellent response up to 10,000 cps.—from a single radiator PM Speaker. They are ideal for "FM"; WIRED MUSIC; RADIO-PHONO COMBINATIONS; and are highly qualified for BROADCAST STATION monitors. Used with Boss Reflex Cabinets they provide HIGHEST QUALITY reproduction!

All the following are "Alnico-5" PM Dynamics; priced LESS transformer.

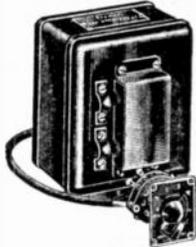
Speaker Size	Dimensions		Coil Voice			Jensen Model	Stock No.	Your Cost
	O. D.	Depth	Diam.	Imp.	Watts			
6-inch	6 1/4"	3 1/4"	3/8"	3-4	4.5	P6-TX	34A112	\$ 6.29
8-inch	8 1/4"	3 1/4"	3/8"	6-8	7.5	P8-SX	34B130	8.39
10-inch	10 3/8"	5 1/4"	1 1/8"	6-8	8.0	P10-SX	34A186	9.85
12-inch	12 3/8"	6 1/4"	1 1/8"	6-8	12.0	P12-QX	34B137	17.20
15-inch	15 3/8"	7 3/8"	1 3/8"	8	14.0	P15-QX	34C136	21.75

"Jensen" H-F Speaker and 2-Channel Network



MODEL Q8P Frequency Speaker Unit; for use with A40-1 Network below together with a suitable low (standard) frequency speaker of 12" or 15" size as found in most console model radio sets or radio-phonograph combinations. Reproduces frequencies from 2,000 to 15,000 cps.; voice coil impedance, 16-ohms. "PM" design. Over-all diameter, 5 1/2", depth, 3 5/8". Wt. 3 1/2 lbs.

No. 34A111. Model Q8P H.F. Speaker Unit. Your Cost **\$7.64**



Model A40-1 Frequency Dividing Network provides the means of converting the speaker of any Radio or Phono (having a good 12" or 15" standard speaker) to a modern 2-way speaker system; combining LOW and HIGH frequency speakers to produce WIDE RANGE tonal response, with 4-position control of the high frequencies. A40-1 Network frequency division is at 3,500 cps. with attenuation of 10-12 db. per octave outside of pass band on each filter. L.F. Channel for any good 8-ohm, 12" or 15" speaker. H.F. Channel will take 1 to 4 Q8P H.F. Speakers; using 16, 8 or 4-ohm taps. INPUT 500-600 ohms. Unit-built in heavy steel case, complete with H-F Range Control, escutcheon and knob. Wt. 6 lbs.

Stock No. 33A94. "JENSEN" MODEL A40-1. Two-Channel Network. Your Cost **\$20.58**

"L" PADS



"JENSEN" H-F LEVEL CONTROL, Model ST-606; a simplified system of fidelity control easily added to any 8-ohm coaxial speakers to control the level of the H-F section or may be used as a general purpose 16-ohm, 15-watt level control. 3/8" bushing, 1" long; with Bronze escutcheon plate and bakelite knob.

No. 13A193. NET **\$1.76**

L-PAD, Model ST411; 8-ohms res., for up to 15-watts power. Complete with dial plate and knob. **\$1.76**

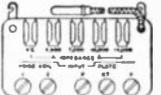
No. 14A518. NET **\$1.29**

L-PAD, Model ST276; 6-ohms, 5-watts. **\$2.06**

No. 14A517. NET **\$2.06**

Stock No. 14B515. L-PAD ST-761; 500-600 Ohms, 15 watts. Net Each.....

Impedance Matching TRANSFORMERS



Pin adjustment Types "ZY" and "ZX" transformers have clearly marked impedance values opposite each jack on bakelite terminal board on top of transformer; pin plug and flexible lead permits quick, easy adjustment to impedance value desired. Mounting centers fit Jensen speakers. HIGH QUALITY, moisture protected.

Type "ZX" Plate Matching Transformers, Impedance values: Voice Coil, 4,500, 7,000, 10,000 and 14,000 ohms, all except voice coil C.T.

Stock No.	Jensen No.	Core	V. C.	For Jensen Speakers	Net Each
13B185	ZX1007	1"x1"	8	P15N, P15NH, P12N	\$5.73
13A183	ZX1005	7/8"x7/8"	6-8	P12Q; P12QH; P10R; JCP40	4.23
13B188	ZX1002	3/4"x3/4"	6-8	P12T; P10S; P10T; P8R; P8SH; P8T	2.94

Type "ZY" Line Matching Transformers, Same style as "ZX" above except have "Line" impedances of 500, 1,000, 1,500, 2,000 ohms and Voice Coil.

Stock No.	Jensen No.	Core	V. C.	For Jensen Speakers'	Net Each
13B189	ZY2005	1"x1"	8	P15N, P15NH, P12N	\$5.73
13A186	ZY2003	7/8"x7/8"	6-8	P12Q, P12QH, P12S, P10R, JCP40	4.23
13B187	ZY4004	3/4"x3/4"	3-4	P8T	2.94
13A182	ZY2002	7/8"x7/8"	6-8	P12T, P10T, P8R, P8S, P8SH	2.94
13A303	ZY4002	3/4"x3/4"	3-4	P6T, P6TH	1.97
13A291	ZY4005	7/8"x7/8"	6-8	VH91 "Hypex"	1.97

Solder Terminal Types "ZP" and "ZL"; LOW COST, high quality Adjustable Impedance Transformers, similar in design to Pin Adjustment types "ZX" and "ZY". EXCEPT, instead of pin and jack adjustment, have SOLDER connections to terminals. ALL TYPES are mountable on speaker, and have terminal boards clearly marked with impedance values.

Type "ZP" Plate Matching Transformers; Models ZP1023, ZP1024, and ZP1026 have impedances of 4,500, 7,000, 10,000, 14,000 ohms and Voice Coil. Model ZP1025 for 50L6, 25L6, 25B6, etc., tubes have impedances of 1,500, 2,000, 2,500 ohms and Voice Coil. Models ZP1024 and ZP1026 have Center Tapped primaries.

Stock No.	Jensen No.	Core Size	V. C.	For Speakers	Net Each
13B178	ZP1023	1/2"x1/2"	3-4	P6X, P5X; P4X	\$1.26
13B179	ZP1024	3/8"x3/8"	3-4	P6T, P6TH	1.47
13B180	ZP1026	3/8"x3/8"	6-8	VH-91 "Hypex"	1.47
13B181	ZP1025	1/2"x1/2"	3-4	P6X; P5X; P4X	1.26

Type "ZL" Line Matching Transformers; All have selective LINE impedances of 500, 1,000, 1,500 and 2,000 ohms.

Stock No.	Jensen No.	Core Size	V. C.	For Speakers	Net Each
13B182	ZL2021	3/8"x3/8"	3-4	P6X; P5X P4X	\$1.26
13B184	ZL2022	3/8"x3/8"	6-8	VH-91 "Hypex"	1.47

UTC UNIVERSAL INTERSTAGE EQUALIZER

Designed for connection between two audio stages or will match 10,000 ohms to grid. Features independent drop or boost of highs and lows, hum shielded. Continuous equalization 15 db. up to 15 db. down. Circuit insertion loss, 6 db. plus combined low and high frequency settings. 2 3/8"x4" panel.

No. 20A610. Type CCE-1 NET. **\$14.70**



Jensen Bass Reflex CABINETS



① "CUSTOMODE" Model M-252 Bass Reflex Cabinet for 15" Speakers—New, modern design, of selected veneered woods over a 3/4" thick base combine strength and beauty in a striking, yet dignified decorative touch. Fully effective BASS REFLEX performance with ANY good 15" speaker is assured by acoustically coordinated design and baffling. Symmetrical, modern design allows cabinet to be used either in horizontal or vertical position—base rails are supplied unattached to permit choice of positions. FOUR concealed cut-outs in front cross bars are easily removed for installation of Coaxial speaker "level" controls. Size, 36" high, 24" wide, 18" deep, highly polished natural BLONDE finish. Shipping weight, 75 lbs.

Stock No. 40A12. Bass Reflex Speaker Cabinet. **\$74.48**

"Customode" Model M-252. NET EACH..... **\$74.48**

Stock No. 40A73. CORDOVAN MAHOGANY Bass Reflex Speaker Cabinet. Model M-352. NET EACH..... **\$74.48**

② MODEL "D" Imperial Bass Reflex Cabinets for 12" and 15" Speakers—Handsome styling and solid construction of heavy backed, beautiful veneers, PLUS "sound" engineered design for full range reproduction of the output of ANY GOOD 15" or 12" SPEAKER — especially recommended for use with COAXIALS. Choice of Blonde or Walnut finishes. Overall sizes are 31 1/4" high, 27 3/4" wide, 13 3/8" deep. Shipping weight, 50 lbs.

No. 40A11. Model D221 BLONDE Cabinet for 12" Speakers. Choice **\$51.94**

No. 40A10. Model D251 BLONDE Cabinet for 15" Speakers. Each **\$51.94**

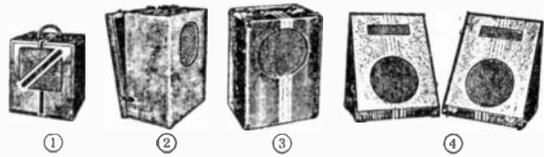
No. 40A3. Model D121 WALNUT Cabinet for 12" Speakers. Choice **\$50.63**

No. 40A4. Model D151 WALNUT Cabinet for 15" Speakers. Each **\$50.63**

③ MODEL "B" Utility Bass Reflex Cabinets for 8", 12" or 15" Speakers—All the benefits of the BASS REFLEX principle of construction in which exact acoustical balance of port and cabinet volume provides extended l.f. response by controlled use of speaker energy otherwise wasted. Solidly constructed of impregnated composition board finished in hammered brown lacquer—grille openings trimmed in aluminum, removable aluminum finished base feet.

Jensen Model	For Speaker	Dimensions—High	Wide	Deep	Shipping Weight	Stock No.	Your Cost
B 81	8"	22 3/4"	18 "	9 "	10 lbs.	32A35	\$20.58
B121	12"	28 1/2"	22 3/4"	11 3/8"	13 lbs.	40A1	29.06
B151	15"	30 3/4"	27 1/4"	12 1/4"	14 lbs.	40A2	34.47

PORTABLE SPEAKER BAFFLE-CARRYING CASES



① PORTABLE DUAL SPEAKER-AMPLIFIER CASE. Divided case, each half with carrying handle, for TWO 12" speakers and amplifier space of 14x8x8" deep; overall size, 16x14 1/2x20" high; weight, 16 lbs. Heavy reinforced plywood with quality leatherette covering.

Stock No. 30A127. Dual Speaker-Amplifier Case. Net Each. **\$14.99**

② Portable Dual Speaker-Amplifier Case. For TWO 12" speakers and amplifier space of 15x9 1/4x8" high. Weight, 17 lbs.

Stock No. 30A128. Speaker-Amplifier Case. Net Each..... **\$14.99**

③ PORTABLE SINGLE SPEAKER-AMPLIFIER CASE. Designed for the smaller P.A. or Phono amplifiers and mounting baffle for ONE 10" or 12" speaker. Outside dimensions are, 18 3/4" high, 14 7/8" wide, 9 7/8" deep.

Stock No. 30A136. AMPLIFIER-SPEAKER CASE. NET EACH..... **\$9.92**

④ PORTABLE SPEAKER BAFFLE. Strong, 3/8" plywood DUAL 12" SPEAKER BAFFLE, divided diagonally—each section serving as a baffle assuring GOOD TONE QUALITY. Grills protected by strong screen; rattle-proof snap locks; strong leather handle—metal corners and bumper feet. Size overall, 24" high, 16" wide, 10" deep.

Stock No. 30A137. PORTABLE DUAL SPEAKER BAFFLE. EACH **\$12.79**

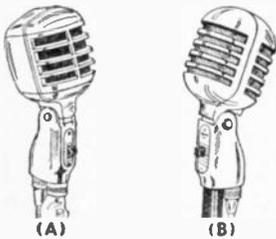
⑤ DELUXE DUAL 12" SPEAKER BAFFLE. COMPLETELY ENCLOSED, designed for HEAVY DUTY SPEAKERS and will contribute considerably to the quality of reproduction of ANY sound system! Acting as "Infinite" baffles, they have a special GRILL VENT above speaker grill to eliminate "boominess" or cavity resonance. Built of heavy 3/8" plywood with reinforced corners, rubber bumper feet, and NON-RATTLE safety catches. 2-TONE leatherette covering. Outside dimensions, closed, 22 1/2" high, 18" wide, 12 1/2" deep.

Stock No. 30A138. DELUXE DUAL SPEAKER BAFFLE. EACH..... **\$18.67**

For VALUABLE INFORMATION on Church Tower, P.A. or Intercomm installations—AT NO COST—write us for: No. 60A1. "Design Bulletins on Sound Installations" — Free On Request!



ELECTRO-VOICE MICROPHONES



(A) MODEL 611 "MERCURY" DYNAMIC

A great new value! Gives the most in quality features at this price. Features smooth response over a wide range, 50/8000 cps.; and high output, —53 db. The exclusive Electro-voice acoustalloy diaphragm withstands high humidity and temperature and mechanical shock. "ON-OFF" sliding switch shorts mike in "OFF" position but can be connected for relay control. Tilt adjustment is firm and smooth. Case size, 2 3/8 x 3 1/8 x 6 1/4", including stud. Finish, satin chrome. With 20-ft. detachable cable. High impedance. Standard 5/8"/27-thread. Weight, 3 lbs.

No. 20B885. Net Each. **\$18.23**

(A) MODEL 911 "MERCURY" CRYSTAL

Same mechanical features as Model 611 except equipped with moisture protected crystal cartridge and spun glass cartridge grille. Diaphragm is duralumin. Range 50/8000 cps. High output, —50 db. With removable 8-ft. cable. Weight, 3 lbs.

No. 20B887. Net Each. **\$13.23**

(B) MODEL 950 CARDIOID CRYSTAL CARDAX

Dual frequency response for high fidelity sound or extra crisp speech—selector on back adjusted with screw driver. "In" position for wide and rising response—"Out" position for wide and flat response with full, natural reproduction. An ideal "Mike" for soloist or orchestra, single speaker or group work—Indoors or Out! Output —57 db. in Out position, —48 db. on In position; wide range, wide angle pick-up at front—dead at rear; tilting head. Satin Chrome finish. Size, 2 1/2 x 2 7/8 x 6 1/4". Weight, 3 lbs. Standard 5/8"/27-thread. "ON-OFF" switch, 20-ft. cable. Hi-Imp.

Stock No. 20A100. YOUR COST **\$23.23**

MODEL 630 DYNAMIC

Versatile high fidelity all purpose microphone, ruggedly built for heavy duty service; unusually high output for speech and music, indoors or outdoors; grille design minimizes wind noise. Frequency response is 40/9,000 cps. with output level rating of 53 db.; 90° arc tilting head for directional or non-directional pick-up; "On-Off" slide switch. Standard 5/8"/27-thread. Satin Chromium finish. Size 2 x 4 3/4 x 4 1/2". Weight, 2 lbs. Complete with 20-ft. cable. Hi-impedance.

No. 20A895. Your Cost **\$21.46**

MODEL V-1 VELOCITY MICROPHONE

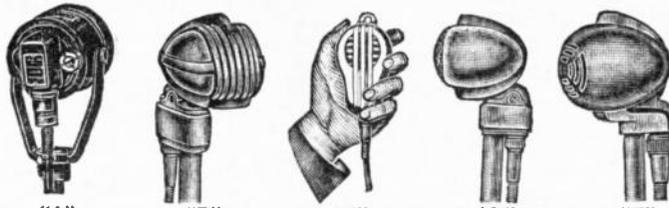
Small size. Provides superb bi-directional pick-up of voice and music for indoor public address and recording. Response 40/9000 cps. Output —65 db. Cradle allows 90° tilt. Supplied with ON-OFF slide switch in housing, built-in shock absorber and detachable 20-foot shielded cable. High impedance output. Case, 2 3/4 x 2 1/8 x 6 1/2" overall. Satin Chrome finish.

No. 20A897. Your Cost **\$21.46**



TURNER CRYSTAL AND DYNAMIC MICROPHONES

For "certified performance", modern design, ruggedness and dependability in recording, public address, call systems, amateur and commercial work.



"A":—MODEL U-95 VARIABLE IMPEDANCE DYNAMIC—ONE MICROPHONE FOR ALL NEEDS; impedances of 50-200-500 OHMS or HIGH IMPEDANCE available by the twist of a switch on the back! ADJUSTABLE for semi or non-directional use, Model U-95 is completely free from peaks and holes over its frequency range of 40-9,000 cycles. Output level at high impedance is minus 52db. Professional in construction and appearance, tilting head, complete with 20 ft. detachable cable; gun metal finish. Stock No. 20A888. MODEL U-95 DYNAMIC. YOUR COST **\$23.52**

"B":—MODEL 33-D DYNAMIC; LOW IN COST and built to withstand hard usage and bad climatic conditions. Smooth, high level dynamic cartridge with FREQUENCY RANGE of 30-9,000 C.P.S. with OUTPUT LEVEL of minus 54db. Tilting head, satin chrome finish, with 20 ft. shielded cable set. High Impedance. Stock No. 20A884. MODEL 33-D DYNAMIC. YOUR COST **\$15.88**

"B":—MODEL 33-X CRYSTAL; IDEAL LOW COST "MIKE" FOR RECORDING, PUBLIC ADDRESS, OR COMMUNICATIONS USE. High capacity crystal has response of 50-9,000 C.P.S., free from peaks, output level of minus 52db; low feedback. Crystal impregnated against moisture; blastproofed. Ruggedly built, tilting head, satin chrome finish. Complete with 20 ft. shielded cable set. Stock No. 20A883. MODEL 33-X CRYSTAL. YOUR COST **\$14.41**

"C":—MODEL 9-D "Han-D" MIKE DYNAMIC hand microphone. HANG IT—HOLD IT—OR FIT IT to any standard microphone stand—engineered for maximum voice response, and natural music pick-up; specially recommended for bad climatic conditions, intense heat and rough handling uses. "ON-OFF" SWITCH; response of 60-7,000 cycles with output level of minus 52db. Satin Chrome finish with 7 ft. detachable cable. High Impedance. Stock No. 20A886. MODEL 9-D "Han-D". YOUR COST **\$15.88**

"D":—MODEL 22X HIGH IMPEDANCE CRYSTAL; TOPS in performance at very low cost—clear, clean, sharp reproduction with feedback held to absolute minimum. Built-in wind gap permits outdoor operation; IMPREGNATED CRYSTAL guards against moisture; automatic barometric compensator. High level minus 52db. RANGE 50-9,000 cycles. 90° tilting head permits any position from horizontal to vertical. With 7 ft. cable set. Stock No. 20A881. MODEL 22-X CRYSTAL MIKE. YOUR COST **\$11.76**

"D":—MODEL 22-D HIGH IMPEDANCE DYNAMIC; Identical in appearance and case construction to Model 22-X; has HIGH LEVEL dynamic unit for SMOOTH reproduction indoors or out at all frequencies. RANGE, 50-9,000 cycles; Output minus 54db. Complete with 7 ft. cable set. Stock No. 20A882. MODEL 22-D DYNAMIC MIKE. YOUR COST **\$14.99**

"E":—"CHALLENGER" MODEL BX LOW COST CRYSTAL MIKE—ideal for home recording, AMATEURS, and PUBLIC ADDRESS. HIGH IMPEDANCE with range of 50-6,000 cycles, OUTPUT minus 52db. Shock and moisture-proof cartridge, wind gag. Bronze enamel finish, complete with 7 ft. attached shielded cable. Stock No. 20A878. MODEL "BX" CRYSTAL MIKE. YOUR COST **\$6.38**

"E":—"CHALLENGER" MODEL CD HIGH IMPEDANCE DYNAMIC; rugged and dependable for all uses on voice or music—clear cut reproduction; RANGE, 50-7,000 cycles; OUTPUT, minus 52db. Chrome type finish; 7 ft. removable cable set. Stock No. 20A880. MODEL "CD" DYNAMIC SPEAKER. COST **\$11.47**

HEARING AID CRYSTAL MICROPHONE MODEL HA125

A small crystal cartridge, light in weight, designed for flush mounting. Use for replacement in hearing aids and microphones or in experimental sound or vibration pick-up devices. Output level, minus 50db., Frequency response 40-9,000 C.P.S. Humidity sealed. Case 1 3/8" dia. over all x 1/4" thick. Mounts in 1/4" hole has connecting leads. Stock No. 20A160. Net Each **\$4.70**

ELECTRO-VOICE "CENTURY" SERIES MIKES FOR ALL LOW-COST APPLICATIONS

Brilliantly engineered and styled. Can be used in any position—stands by itself on table, rests on its back, can be comfortably hand held or mounted on any stand or fitting with 5/8"/27-thread. Unmatched for low-cost PA, paging, recording and communications work. Case size, 3x2 3/16x1". Lustrous gray-brown finish.

Model 915 Century Crystal. Frequency response, 60/7500 cps. Output —50 db. Has moisture sealed crystal and 7 1/2-ft. attached cable. High impedance output. Stock No. 14B621. Less Stand. **\$5.88**

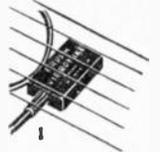
ON 415 STAND Model 615 Century Dynamic. Recommended where temperature and humidity are higher than normal. Will withstand severe service. Equipped with exclusive acoustalloy diaphragm. Frequency response, 55/7500 cps. Output, —57 db., high impedance. With 7 1/2-ft. attached cable. Stock No. 14B622. Less Stand. YOUR COST **\$9.70**

MODEL 415 RECLINING DESK STAND Mounts Century Mike at 15° tilt (see illustration). Stock No. 14B623. YOUR COST **88c**



VM-1 VIBRO-MIKE

Highly sensitive, high impedance, miniature, contact type crystal pick-up for musical instruments and industrial applications requiring detection and faithful reproduction of any type mechanical vibration within 30/6000 cps. Output voltage from .05 to .1 volt or higher. Hermetically sealed in black rubber case. Size, 7/8 x 3/4 x 5/8". With mounting clamp and 25-foot cable. Weight, 6 ozs. **\$11.47**
No. 14B529. NET EACH



SPECIAL VALUE CONTACT MIKES



Fig. 2 MUSICAL INSTRUMENT PICK-UP. Operates with special music amplifier or public address types. Brilliant tone, range 80-5000 cps. Easy to install without defacing instrument. Up to 12 may be connected to one high impedance amplifier input. Size 2x1x3/4". With 8 ft. cable. Less volume control. List \$10.50. No. 20A617. **\$5.14**

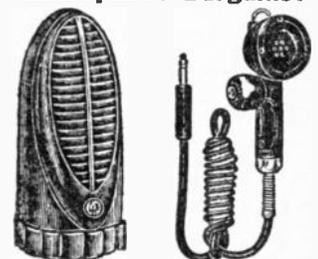
Fig. 3 MUSICAL INSTRUMENT PICK-UP WITH VOLUME CONTROL. Up to 5 may be connected to one high impedance amplifier input. Size 3 1/16 x 1 3/4". Otherwise same as above. With 8-ft. cable. List \$13.75. No. 20A616. Special Net Each **\$6.71**

BRUSH CRYSTAL MICROPHONE

MODEL BA-106. Unexcelled for home recording, public address systems, ham shacks and monitoring. Pickup is uniform in all directions. Response is flat from 40 to 6000 cps. Output level—52 db. With 8 ft. shielded cable and desk stand with removable base. No. 14A668. Net Each **\$11.61**



Microphone Bargains!



"VERSATEX" "T17B"

SHURE VERSATEX HALF PRICE!

A truly versatile crystal mike to be used "as is" on a desk, on a regular stand or hand-held. Rich maroon plastic case. Output, —53 db. With 7-ft. cable attached. Thousands were sold at Regular Net Price of \$6.76. No. 20A657. While **\$3.38**

They Last. Each **\$3.38**

CARBON HAND MIKE Type T17B. 200-Ohm. Has press-to-talk switch in handle. Sturdy good looking bakelite case. Has 5-ft. rubber cord with PL68 plug. Can be connected to most radio sets for home entertainment and ideal for PA, mobile and amateur needs. No. 18A368. EACH... **\$1.59**

Lots of 10. Each... **\$1.45**



**KONTAK MIKE
MUSICAL
INSTRUMENT
PICK-UPS**



Easily attached to the instrument. Magnetic induction principle. Gives full, rich, distortion-free reproduction. For use with any musical instrument amplifier and all regular high gain amplifiers. Up to 5 mikes may be attached to one input. High impedance. Frequency response 40/9000 cps. —40 db. Has soft rubber case and 25-ft. cord attached.

- (A) Model SKH Mike without volume control. No. 20A874. Net Each. **\$7.06**
- (B) Model KKH Mike complete with volume control. No. 20A875. Net Each. **\$10.58**



Model KF

Foot pedal volume connects to Model SKH mike to vary

volume by foot pressure on the pedal. No. 17A724. **\$10.58**
No. 17A725. Kontak Strap for Flat Guitars. **59c**



**AMPERITE
DYNAMIC
MICROPHONE**

Brings studio quality to ordinary PA jobs—you can HEAR the difference! UNIDIRECTIONAL pick-up pattern HIGH OUTPUT of minus 60 db., RESPONSE of 70/8000 cps.; FLAT and FREE of peaks. REDUCES FEEDBACK to lowest point of all diaphragm microphones. IDEAL FOR EITHER SPEECH OR MUSIC! TILTING HEAD, ON-OFF SWITCH! True dynamic ruggedness; not affected by temperature, altitude, or humidity. HI-IMPEDANCE, 12-ft. cord and cable connector. "PCA" Dynamic.

No. 20A900. **\$14.70**
YOUR COST

**SENSATIONAL VALUE
DYNAMIC NOISE
CANCELLING HANDSET**

A TERRIFIC BARGAIN! Made possible by a B-A Special Purchase from a railroad equipment manufacturer. Specially designed for clear speech communications in railroads, marine, industrial and other high noise fields. Standard equipment on leading railroads. Average discrimination against noise 100 to 1. Ear phone is moving coil type, range 200 to 4,000 cps., rated 3 watts maximum, impedance 10 ohms. Microphone high impedance. Response to sounds of close origin, 200 to 4,000 cps. Output level —53 db. Case of tough gray plastic with press-to-talk button. Furnished with rubber ear cushion and special shielded 6-ft. cord.

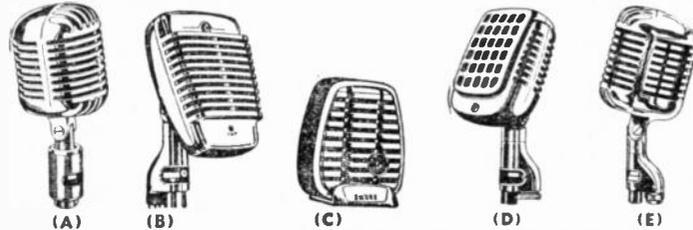


No. 22A30. Electro-Voice Model 660. While a Limited Quantity Lasts. \$70.00 List **\$14.95**
Value. ONLY



**CARDIOID DYNAMIC and
CRYSTAL MICROPHONES**

Known the world over for the finest performance. A specific design for every application to give the best possible service.



(A) **MODEL 556 SUPER CARDIOID.** Broadcast Dynamic. Engineered to meet exacting requirements of the broadcast and recording studio. Recommended as the best microphone available for quality public address installations. Held to very close tolerances in frequency response and directivity. Equipped with built-in vibration isolation unit which greatly minimizes reproduction of vibration pick-up from the stand.

*Multi-Impedance selector, a three-point screw driver operated switch providing output taps at 35/50, 150/250 ohms and high impedance. Output level is —55 db. Shure Uniphase principle of acoustic design reduces back pick-up by 15 db. and has a wide angle front pick-up. This feature reduces feedback difficulties.

Frequency Response free of peaks 40/15,000 cycles. Has a double wind screen for noise-free outdoor use. Attractive satin chrome finish. Size, 4 1/2" high, 3 1/4" wide and 3 1/2" deep. Equipped with 7-ft. two-conductor shielded cord detachable by removing two set screws. Fits 5/8"/27-thread stand. Weight, 5 lbs.

No. 20B894. NET EACH **\$54.39**

(B) **MODEL 51.** New Sonodyne dynamic. A rugged, general purpose, high output microphone, especially suited to public address, recording and communication service. Features new "Multi-Impedance" selector. (See Model 556.) One microphone matches all impedance requirements. Frequency response 60/10,000 cps. Semi-directional pick-up. Attractive pearl gray case of modern design. Fits 5/8"/27 stand. Complete with 20-ft. detachable cord. No. 20B890.

NET EACH **\$23.37**

(C) **MODEL 510C HERCULES MICROPHONE.** A "tough" microphone designed to stand up under rough treatment. Magnetic unit utilizes revolutionary new controlled reluctance principle. Provides ruggedness, clear reproduction and high output long needed in PA, communications and home recording. Especially recommended for tropical and coastal areas and regular outdoor service. Practically unaffected by heat and moisture. Furnished in metallic green metal case that may be hand-held or stand mounted. Frequency response 100/7000 cps. Output —52.5 db. High impedance. With 7-ft. cable. Weight, 2 lbs.

No. 20A562. NET EACH **\$7.61**

(D) **MODEL 737A NEW MONOPLEX SUPER CARDIOID CRYSTAL.** A high output crystal microphone of uniphase acoustic principle. It is practically unaffected by noise from the rear and permits more volume without feedback. A sensitive microphone for public address and recording work. Smooth frequency response, 60/10,000 cps. Output 53 db. below 1-volt. High impedance type. Long life crystal metal sealed. Stunning new modern designed head, pearl gray finish. Tilts to 90°. Fits 5/8"/27 stands. Complete with 20-ft. detachable cord. Weight, 4 lbs.

No. 20A163. NET EACH **\$23.37**

(E) **MODEL 55 UNIDYNE DYNAMIC.** Has the best acceptance of any microphone for quality recording, public address and remote broadcasting. Includes many of the desirable features of Model 556 listed above, such as "Multi-Impedance selector (see above) Uniphase, wide range pick-up at front, high attenuation (15 db.) at rear, reducing feedback problems. Smooth frequency response, 40/15,000 cycles. Output level —55 db. Has 25-ft. detachable cord. Fits 5/8"/27 stands. Weight, 5 lbs.

No. 20B892. NET EACH **\$39.69**

SHURE MODEL R5 MICROPHONE UNIT



The same unique high impedance magnetic unit used in the revolutionary Hercules Microphone listed above. Can be used as a high impedance replacement mike cartridge or for building special sound pick-up devices. Can even be used as a "soft" speaker. Equipped with rubber mounting ring, overall diameter 2 1/4", ring thickness 3/16", overall depth 7/8". Shipping weight, 4 oz.

No. 20A563. YOUR COST **\$5.29**

**SHURE MODEL 76-B
CRYSTAL LAPEL MICROPHONE**



Only 1 7/8" diameter, weighing 1 1/2 oz. Especially designed for speech reproduction. Simply clips onto lapel, is inconspicuous, and allows user to move freely about. Response 40/6,000 cps., output 57db. below 1 volt bar. Grey finish case with clip and attached 25' cable. Moisture-sealed crystal. High impedance.

Stock No. 20A652. **\$15.88**
Net Each



ASTATIC JT30 CRYSTAL MICROPHONE

The Top Favorite Mike for Amateur, Home Recording and Public Address Service. It is low in cost and excellent in performance. Response 30/10,000 cps., output level —52 db. Comes complete with two-piece desk stand; handle may be removed and mike used on floor stand. Overall height 8", has detachable 15-ft. shielded cable. Attractive gray finish with chrome grille.

No. 20A877. Complete with Stand. Your Cost **\$9.97**



CRYSTAL

DYNAMIC MICROPHONES



① **MODEL 200 CRYSTAL "VELVET VOICE".** A general purpose microphone and stand with detachable base to use for recording, PA, etc. Beautiful rich gold finish with chrome grille. High impedance, smooth frequency response 30/10,000 cps. —50 db. Threaded for 5/8"/27 stand. Overall height, 8". 15-ft. shielded cord attached.

No. 20A611. NET EACH **\$8.20**

② **MODEL N-30 HIGH IMPEDANCE CRYSTAL. HIGH FIDELITY; WIDE RANGE.** Response, 30/10,000 cps., substantially flat and free from peaks. OUTPUT —52 db. Tilting head is gray with chrome grille. Size, 5 1/16" high, 2 1/8" diameter and 3 1/16" deep. Weight, 2 lbs. 15-ft. cable.

No. 20A648. Model N-30 Crystal Mike. **\$11.26**
YOUR COST

**MODEL DN-HZ
DYNAMIC
MICROPHONE**



Withstands high temperature and humidity. Widely used by amateurs and for communications. Semi-directional and substantially flat from 50 to 7000 cps. Output level, —55 db. Finished in beautiful opalescent gray and bright chrome. Supplied with 15-ft. cord and adapter to fit 5/8"/27 threaded stand or plugs directly into Astatic Grip-to-talk Desk Stand.

No. 20A618. With Cord and Adapter Less Stand. **\$14.46**
EACH

MODEL DN-HZ. With type G grip-to-talk stand and 8-ft. shielded cable attached.

No. 33A104. Your Cost **\$17.70**

**THE AMATEUR
FAVORITE**



Model D104. The first practical crystal microphone ever developed—and still the Amateur's favorite the world over. Crystal element is shock-proof mounted and has a high output level of —48 db. Possesses definitely reduced RF feedback tendencies. Chrome plated overall. With 7-ft. shielded cable and adapter to fit 5/8"/27 threaded stand, or plugs directly into Astatic Grip-to-talk Desk Stand.

No. 20A619. Astatic D104 with Cord and Adapter. Less **\$14.46**
Stand. NET EACH

Model D104. With type G grip-to-talk stand and 8-ft. shielded cable attached.

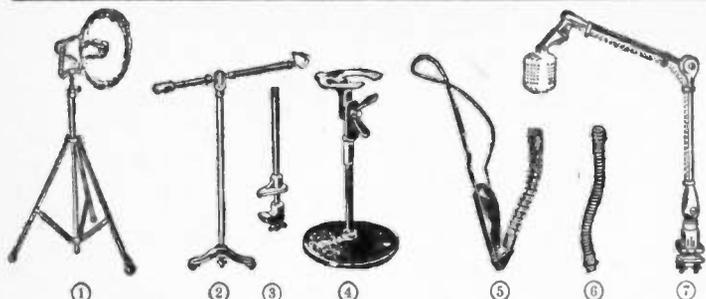
No. 33A105. Your Cost **\$17.70**

**GRIP-TO-TALK
DESK STAND**

Grip bar operates ON-OFF switch for control of transmitter. Socket in top of stem fits plug-in connector on type D104 and DN-HZ Astatic microphones. Tube and grip bar finished in chrome with gray wrinkle base. Supplied with 8-ft. two-conductor shielded rubber covered cable. Overall height, 8 1/4".

No. 31A58. Astatic Model C Stand. Net **\$6.44**

MICROPHONE STANDS & P.A. ACCESSORIES FOR EVERY NEED



① **Atlas Model SS-2 Heavy Duty TRIPOD TRUMPET STAND**
Provides quick, convenient and reliable means of trumpet speaker placement especially in outdoor locations! Adjustable from 5 to 10 ft. in height—and easily and quickly collapsible. Solidly constructed, all parts accurately machined; Cadmium Plated Steel Tubes and tripod legs. Two-way telescoping locking device. Upper tube threaded $\frac{3}{4}$ " I.P.T.—Universal fittings supplied permit use of stand with ANY Trumpet having "U" bracket mounting, regardless of make! Weight, 24 lbs. complete.
No. 32B18. ATLAS Model SS-2 Trumpet Tripod Stand. Net Each **\$20.58**

② **American HB-3 BOOM FLOOR MICROPHONE STAND**, for Recording and Orchestra pickup. Silent, positive adjustment of "mike" at any position in 180° arc from straight up to straight down; boom extends "mike" 34" out from stand, easily positioned by dual leather cushioned locks; positive locking, finger-tip control angle adjustment. Boom assembly mounts on 1" iron pipe with sleeve fit to 12 lb. heavy iron tripod base. 34" boom tube Chrome plated, $\frac{3}{8}$ "-27 thread; lower assembly satin black. Weight, 16 lbs.
Stock No. 32A19-2. Model HB-3 Floor Boom Stand. Net Each. **\$14.41**

③ **Atlas Bracket Clamp, Model BC-1**. For quick, easy attachment of "mike" to any flat surface 2" thick or less; may be clamped or permanently bolted. Chrome tube section, 6" long has $\frac{3}{8}$ "-27 thread for any microphone, goose-neck, boom or other adapter. Weight, 2 lbs. List, \$3.00.
No. 20A601. Net Each. **\$1.76**

④ **Atlas Model ST-8 PARABOLIC BAFFLE Adjustable Mounting Fixture**. For mounting parabolic baffles on sound trucks, walls, etc., 12" high with 8" dia. base; locking thumb-nut adjustment of saddle angle. Has $\frac{1}{2}$ " iron pipe stem. Black crackle finish. Weight, 5 lbs.
Stock No. 34A113. Parabolic Baffle Adjustable Bracket. Net Each. **\$3.09**

⑤ **TURNER "THIRD HAND"**. Holds "mike" in ANY position, flexible goose-neck has $\frac{3}{8}$ "-27 thread; slips over neck.
Stock No. 32A213. TURNER 3-H "THIRD HAND". NET. **\$2.94**

⑥ **SUPER-CHROME, 13" FLEXIBLE GOOSE NECK**. $\frac{5}{8}$ " threads, male and female. For ALL types of stands.
Stock No. 31A57. MODEL GN-13 GOOSE NECK. NET. **\$1.47**

⑦ **"FLEXO" MIKESTER Clamp-On Desk or Pulpit Boom Stand**. Has same features as described for "Mikester" floor stand in column at right (Fig. ⑥); clamps to any desk or pulpit; positions microphone in 36" arc in any direction—the BEST Pulpit or Desk Stand! Weight, 6 lbs.
Stock No. 31A50. "FLEXO" MIKESTER Pulpit or Desk Stand. Net Each **\$7.06**

DESK MICROPHONE STANDS

★ BASE FLANGES
★ STEMS
★ HOOKS



① **SNAP-ON MICROPHONE TO STAND ATTACHMENT**. A convenient two-piece device for quick attachment or removal of a mike from its stand. Parts slide together and are equipped with ball bearing friction lock and standard $\frac{5}{8}$ "-27 male and female thread to fit mike and stand. Chrome plated brass.
Stock No. 19B635. Atlas SO-1 Connector. NET. **\$1.47**

② **"Velvet Action" BANQUET STAND**. Adjustable 18" to 32"; same size BRASS tubes and type clutch as MS-11C; 5 lb. base is 8" in diameter, has rubber bumpers. Super Chrome finish tubes with red lined gun-metal base. $\frac{5}{8}$ "-27 thread.
Stock No. 31A56. MODEL TS-6 BANQUET STAND. NET. **\$4.41**

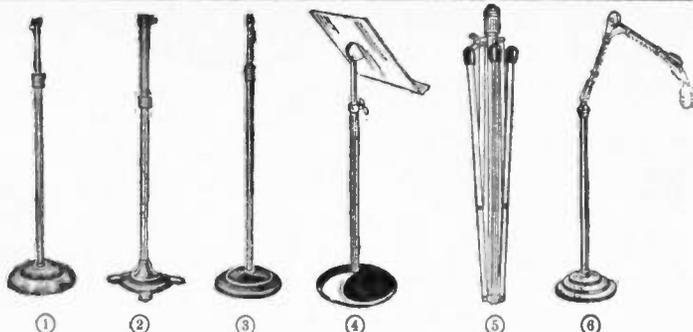
③ **TRIPLE CHROME-BRASS TUBE DESK STAND**. 7" high with 6" dia. felt padded base in gun-metal finish. $\frac{5}{8}$ "-27 thread.
Stock No. 32A214. MODEL DS-5 DESK STAND. NET. **\$1.62**

④ **"B-A" LEADER VALUE DESK STAND**. A "red-hot" value! 6" Chrome stem with $\frac{5}{8}$ "-27 clean threads to fit any "mike"—6" dia. weighted base with felt pad; base, black wrinkle enamel. Weight, 3 lbs. List, \$2.75.
Stock No. 33A103. "B-A" Leader Value Desk Stand. Net Each. **\$1.38**

⑤ **TAKE-APART DESK STAND**. For Desk or Hand use. One twist of hardwood handle locks it securely to $\frac{1}{2}$ " dia. metal base. Handle has $\frac{5}{8}$ "-27 metal threads. Handle, 6" long. Weight complete, 2 lbs.
Stock No. 20A104. 2-Piece Take-Apart Desk Stand. Net Each. **\$1.47**

No. 20A622. Wood Handle ONLY of Above Take-Apart Stand. Each. **59c**

- ⑥ No. 17A586. Chrome Plated Brass Male Base Flange. $1\frac{1}{4}$ " base dia. with 3 mounting holes. $\frac{3}{8}$ "-27 thread for microphone. **44c**
- ⑦ 17A587. Chrome Plated Brass Female Base Flange. $\frac{3}{8}$ "-27 threads. **Each 44c**
- ⑧ 17A588. 6" Solid Aluminum Extension Rod. $\frac{3}{8}$ "-27 male threads. **Each 44c**
- ⑨ 17A589. 12" Solid Aluminum Extension Rod. $\frac{3}{8}$ "-27 threads. **Each 59c**
- ⑩ 17A1073. Suspension Hook, Brass, Chrome plated. $\frac{3}{8}$ "-27 threads. **Each 71c**



① **"ATLAS" AUTOMATIC SLEEVE-ACTION STAND**. Cannot "creep" or change position without deliberate pressure on the "Sleeve-Action" control—slight downward pressure LOWERS telescoping section; to RAISE stand, telescoping tube is grasped at ANY point and simply extended. Model MS-11S—De Luxe All Chrome with 10" weighted base with $\frac{7}{8}$ " lower tube and $\frac{3}{8}$ " upper section—height adjustment is 35" to 65". Wt. 12 lbs.
Stock No. 32B5. "Atlas" Sleeve-Action De Luxe Floor Stand. Net Each. **\$10.58**

"ATLAS" FULL-GRIP VELVET ACTION MICROPHONE STANDS

② **"Velvet Action" 24-POUND, STUDIO DE LUXE FLOOR STAND**. Adjustable 42" to 72"—BRASS TRIPLE CHROME PLATED oversize tubes, $1\frac{1}{8}$ " outer and $\frac{7}{8}$ " inner. 4-INCH CLUTCH with bakelite collet defies wear. Rubber cushioned semi-tripod base, 17" dia. $\frac{5}{8}$ "-27 thread.
Stock No. 32A2. "MS-24" DE LUXE FLOOR STAND. NET. **\$11.17**

③ **Professional Floor Stand, Model MS-20**. Cast base, 12" dia. with Triple Chrome oversize telescoping tubes, adjustable from 42" to 72" height; lower tube $1\frac{1}{8}$ " dia., upper tube $\frac{7}{8}$ " dia. $\frac{5}{8}$ "-27 thread. Weight, 15 lbs.
Stock No. 32A1. Professional Floor Stand Model MS-20. Net Each **\$7.94**

④ **"Velvet Action" ALL CHROME ADJUSTABLE FLOOR STAND**. NON-TIP BASE has "anti-tip" points between rubber leveling pads! BRASS TUBES are TRIPLE CHROME plated, outer tube $\frac{7}{8}$ " and inner tube $\frac{5}{8}$ " in diameter. Bakelite "collet" clutch mechanism—easily adjusted with ONE HAND after setting to weight of mike. Adjusts 35" to 65" in height—10" base. Stand-ard $\frac{5}{8}$ "-27 thread.
Stock No. 34A8. MODEL MS-11C FLOOR STAND. NET. **\$6.47**

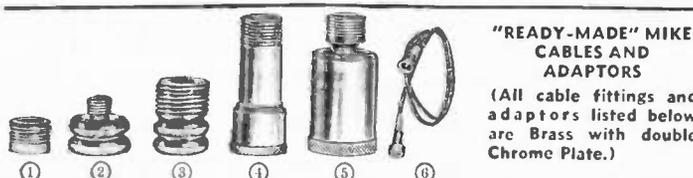
⑤ **"B-A LEADER VALUE FLOOR STAND"**. A top-notch quality stand with heavy high-gloss double chrome plated Brass Tubes. Easily adjustable from 35" to 68" in height by simple, damage-proof one-hand clutch, without mar or scratch on the chrome tubes! Weighted 10" dia. base is finished in baked wrinkle enamel, has pads to prevent floor mars. Clean $\frac{5}{8}$ "-27 threads.
Stock No. 32A3. Leader Value Floor Stand. Wt., $11\frac{1}{2}$ lbs. Net Each. **\$4.90**

⑥ **SPEAKER'S OR ORCHESTRA "DESK-RACK"**. Metal and Fibre "Rack" is 15" wide x 20" long with bottom "lip" for holding music or Speaker's notes—locking tilt device positions rack quickly. $\frac{3}{8}$ "-27 thread on Rack fits ANY standard floor or desk type microphone stand! COMPLETE unit as shown consists of Rack PLUS high quality 2-piece adjustable floor stand with double Chrome Plated Brass Tubes and 10" dia. weighted base; stand adjustable from 35" to 68". Weight Complete, 16 lbs.
No. 32A17. Orchestra Music Rack and Stand, Complete. Net Each. **\$10.95**

⑦ **SPEAKER'S OR ORCHESTRA "DESK-RACK" ONLY**. 15x20" Rack with locking adjustable tilt device, $\frac{5}{8}$ "-27 thread collar for quick attachment to any standard microphone stand. Model DA-1. Weight, 5 lbs.
Stock No. 32B36. Desk-Rack Attachment Only. Net Each. **\$5.88**

⑧ **COLLAPSIBLE TRIPOD TYPE MICROPHONE STAND**. Dandy portable but substantial stand that folds up to a mere 23" overall length. Two Chrome Plated brass tube sections adjust in height to 62". Tripod Base is of cadmium plated steel, has locking device. Weight, 5 lbs. $\frac{5}{8}$ "-27 thread.
Stock No. 32A16. Collapsible Tripod Type Stand. Net Each. **\$10.00**

⑨ **"FLEXO" MIKESTER FLOOR STAND**. Consists of 40" high floor stand with $1\frac{1}{2}$ " dia. base "topped" by the NEW "Flexo" Mikester Universally adjustable Patented "Flexo" spring controlled floating arms—each arm is 18" long, allowing a finger-touch adjustment to countless positions within an arc of 36" in any direction! "Stays-put" in any position, without loosening and tightening screws—carries up to a 4-lb. microphone. Built for heavy service of shock-proof, noise-reducing materials throughout—finished in beautiful Royale Gray. Weight, 23 lbs. Model No. 3.
Stock No. 32B9. "FLEXO" Floor Mikester Stand. Net Each. **\$11.91**



- "READY-MADE" MIKE CABLES AND ADAPTORS**
(All cable fittings and adaptors listed below are Brass with double Chrome Plate.)
- ① 20A609. Adaptor. $\frac{5}{8}$ "-27 Male to $\frac{1}{8}$ " I.P.T. Female (RCA) **Each 29c**
 - ② 20A608. Adaptor. $\frac{1}{8}$ " I.P.T. Male to $\frac{5}{8}$ "-27 Female (RCA) **Each 45c**
 - ③ 20A607. Adaptor. $\frac{1}{2}$ " I.P.T. Male to $\frac{5}{8}$ "-27 Female. **Each 59c**
 - ④ 20A606. Adaptor. $\frac{5}{8}$ "-27 Male to $\frac{1}{2}$ " I.P.T. Female. **Each 59c**
 - ⑤ 20A605. Shock Absorber. $\frac{5}{8}$ "-27 Male to $\frac{5}{8}$ "-27 Female. **Each \$1.47**
 - ⑥ 20A604. 25-ft. Std. Microphone Cable. $\frac{5}{8}$ "-27 M.G.F. Connectors. **Each \$3.23**
 - ⑦ 20A603. 25-ft. Mike Ext. Cable. 2 $\frac{5}{8}$ "-27 Female Connectors. **Each \$3.23**

Selected PHONO PICKUPS for BROADCAST; P.A. or HOME

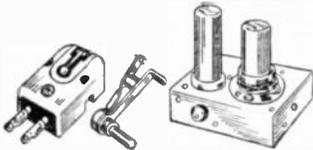


NEW PICKUP ARMS AND VARIABLE RELUCTANCE CARTRIDGES



① UPA-004 Arm for records up to 12". Equipped with the famous G.E. variable reluctance cartridge with replaceable sapphire tipped stylus. Provides noise free high fidelity reproduction. Adjustable stylus pressure preset at one ounce, minimum tracking error no undesirable resonance. Blue gray hammertone finish. Complete with template, arm rest and 24" shielded lead.
 No. 14A715. Your Cost... **\$9.38**
 ② UPX-004 Tone Arm specifically designed for long playing (Micro-groove) records. Tracking pressure, 6 to 8 grams. Uses RPX-041 removable stylus cartridge. Other details as described with arm above.
 No. 18A380. Your Cost... **\$9.38**

PICKUP CARTRIDGES



① VARIABLE RELUCTANCE CARTRIDGE

Two new improved types with removable stylus are small, light in weight. Feature very low mechanical impedance due to high stylus arm compliance and low stylus mass. Size and appearance of the two types are identical, the only difference being in the stylus. Frequency response is uniform over entire usable range. Unaffected by temperature or humidity conditions. Mounting centers 1/2".

MODEL RPX-040 with replaceable Jewel Stylus for Standard 78 RPM Records.

No. 14A590. NET EACH. **\$5.85**

MODEL RPX-041 with replaceable Jewel Stylus for Microgroove 33 1/3 RPM and 45 RPM Records.

No. 20A781. NET EACH. **\$5.85**

② REPLACEABLE NEEDLES

No. 18A378. For Standard Cartridge RPX-040. .003-Sapphire. EACH. **\$2.06**

No. 18A379. For Microgroove Cartridge RPX-041. .001-Sapphire. EACH. **\$2.06**

③ PHONO PRE-AMPLIFIER

Matches the variable reluctance pickup to ordinary radio or phono amplifier and compensates to provide the most desirable tone. Takes power from radio or amplifier. With tube. **\$5.82**

No. 14A591. Net Each. **\$5.82**

G.E. AC Powered Phono-Pre-Amplifier. Serves same purpose as standard model above. With 6SC7.

No. 20B35. Net Each. **\$9.38**

NEW PROFESSIONAL MODEL CARTRIDGE

① RPX-046. Designed for Broadcast and Professional users. Has wide range frequency response. Light weight and high compliance, minimum surface noise. Supplied less stylus assembly. Uses any G.E. replacement stylus. Diamond Tipped units listed below are recommended. Finished in beautiful chrome.

No. 20A559. Net Each. **\$6.73**

② DIAMOND TIPPED STYLUS RPJ-002. Diamond .0025 stylus for conventional recordings. **\$16.17**

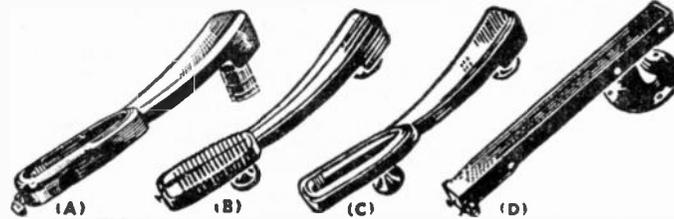
No. 20A560. Each. **\$16.17**

PPJ-004. Diamond .001 stylus for Microgroove LP records. **\$16.17**

No. 20A561. Each. **\$16.17**



QUALITY PICKUPS FOR LONG PLAYING AND STANDARD RECORDS UP TO 12 INCHES



(A) ASTATIC TURNOVER PICKUP PLAYS ALL TYPES RECORDS. 6D. Has double needle crystal cartridge. Switches from long playing to standard 78 RPM with a simple turn of the knob at front end of tone arm. Requires no weight adjustment. Plays all records at 8 grams needle pressure with excellent frequency response. Uses LQD-1J cartridge which has separate replaceable needles. Frequency response 50/7000 cps. Mounts 7" from turntable center. Brown Hammerlin finish.

No. 20A550. Your Cost... **\$9.35**

(B) HIGH OUTPUT "510". For 78 RPM. Ideal for portable or compact equipment because of the short mounting center of only 7". Employs the L-72A replaceable needle type crystal cartridge with 3.5 volts output. Response 50 to 4000 cycles per second. Needle pressure, 1 1/2 oz.

No. 14A564. Your Cost, Each. **\$4.41**

(C) ECONOMY MODEL "507". For 78 RPM. A low-price, yet carefully engineered crystal pickup extremely popular for replacements to improve existing equipment. Employs the L-40 cartridge. Correctly curved for needle tracking. Light brown enamel finish. Covers 50 to 4500 cps. Needle pressure, 1 1/2 oz. Output, 0.6-volt.

No. 14A563. Your Cost, Each. **\$3.23**

(D) A FAVORITE with all who KNOW pickups! Frequency, 50/4000 cps.; 2 3/4 oz. needle pressure. B-2 bakelite enclosed cartridge! Vibration insulated arm, ball bearing swivel base. Distortion-free, WIDE RANGE reproduction with high output of 2.5 volts. 12" lead. Black wrinkle finish. Has 8" mounting center, 9 1/2" long.

No. 32A211. Model S-8, for 10" and 12" 78 RPM Records... **\$6.56**

THE FINEST IN TRANSCRIPTION PICKUPS



GRAY PROFESSIONAL PICKUP ARM

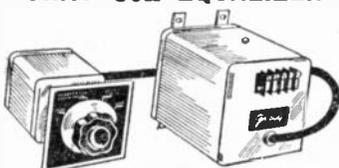
(A) The 1065P Tone Arm designed for highest quality reproduction of both LP and Standard recordings. Has removable plug-in cartridge clip for a simple, quick change from LP to Standard cartridges. Uses a precise stylus pressure adjustment easily set for LP or Standard records. May be used with any turntable. The fine balance, low vertical inertia with low pivot friction assures perfect tracking. For use with G.E. or Pickering cartridges.

No. 37A99. Less Cartridge. Your Cost... **\$45.15**

ASTATIC STUDIO MASTER PLAYS ALL TYPES RECORDINGS (B) 400LQD Transcription Pickup equipped with the Turn-over LQD double-needle crystal cartridge. Any type recording, long playing or standard, can be played by simply turning the knob at the end of the arm to proper position, no further adjustment is necessary. Precision made base with curved arm assembly design assures perfect tracking and absence of arm resonance. Has adjustable mounting height. Frequency range 50/7000 cps. Output approximately 1-volt. Gray Hammerlin finish.

No. 20A554. Your Cost... **\$14.70**

GRAY 602 EQUALIZER



The 602 equalizer is for both LP and Standard recordings. When used with G.E. cartridge, position No. 1 is flat, No. 2 provides Columbia's recommended equalization for LP records. Other positions for NAB transcriptions and high frequency roll off for noisy records. Insertion type, loss 20 db. Output level —67 VU. Output impedance 250 ohms.

No. 37A100. Your Cost **\$49.50**

VIBROMASTER TYPE K PROFESSIONAL ARM



For any lateral recording up to and including 16 inch, 78 or 33 1/3 R.P.M. 22 grams pressure when used with the G.E. cartridge. Universal "one hole" mount permits installation in any turntable with hairline height adjustment. Precision made, finished in brushed aluminum and black to match existing turntables. Also works with Pickering cartridge.

No. 14A592. Less Cartridge. Net Each... **\$33.82**

PROFESSIONAL PICKERING CARTRIDGE

Accepted as the top performing reproducer in the industry. Has permanent stylus-response ±2 db. 40 to 10,000 cps. Output 70 millivolts. 1/2-oz. needle pressure. Mounts 1/2" spacing.

Model S-120M Cartridge with sapphire .0027" stylus for standard recordings. **\$9.90**

No. 14B527. NET EACH. **\$9.90**

Model S-140S with .001" Sapphire stylus for microgroove recordings. No. 14B21. EACH. **\$15.00**

Model D-120M Cartridge with .0025" diamond stylus wears 10 times longer than sapphire tip. **\$24.90**

No. 20B22. NET EACH. **\$24.90**

Model D-140S with .001" diamond stylus for microgroove recordings. No. 20A782. NET EACH. **\$36.00**



VERTICAL DRIVE CRYSTAL PICKUP



(A) 901D TURNOVER TYPE For the critical listener where true fidelity is necessary. Will track standard records at 7 grams as well as the new fine groove LP types. Knob at end of arm positions needles. Has .0027" osmium tip for standard and .001" sapphire tip for LP types. Both needles are replaceable. Output level 1-volt. Frequency to 6,000 cps. Arm is light weight curved design with single hole mounting.

No. 20A556. Your Cost... **\$9.56**

(A) 901MG PICKUP ARM The same type arm described above, except with single vertical drive cartridge using .001" sapphire tipped replaceable needle. Plays new 33 1/3 and 45 RPM long playing records. Frequency range to 10,000 cps. Output level 1-volt.

No. 20A555. Your Cost... **\$7.50**

901A PICKUP ARM Plays standard 78 RPM records. The arm is described under 901D. Uses vertical drive single crystal cartridge with .0027" sapphire tipped replaceable needle. Response to 6500 cps. Output level 1.1-volt.

No. 20A557. Your Cost... **\$6.90**

ECONOMY PICKUP FOR STANDARD RECORDS (B) Model 93A. Extremely light weight, needle pressure only 1 1/8-oz. Frequency response 60 to 6000 cps. Output 1.6 volts. Has curved accurately balanced aluminum tone arm. For records up to 12".

No. 20A866. Net Each... **\$4.41**

LIVINGSTON ADJUSTABLE PICKUP ARM



For Microgroove and conventional 12" and 16" recordings. Excellent tracking, due to curved construction, ball bearing pivots and two adjustable, removable counterweights. Stylus pressures range from 6 to 30 grams. For G.E., Pickering and other cartridges with 1/2" centers. Height is adjustable. Finished in durable gray.

No. 32B210. Your Cost **\$14.95**

Model A-16. A straight arm with all other features the same as curved arm above.

No. 32B206. **\$12.95**

Less Cartridge... **\$12.95**

AUDAX MICRODYNE MAGNETIC PICKUPS



Moving inductor principle for smooth frequency response 50 to 6500 cps. Needle pressure 1 3/4 oz. Black with silver finish.

No. 32A200. Model L-17. FOR RECORDS TO 12". Over-all length, 11"; HIGH IMPEDANCE. **\$16.50**

Net Each **\$16.50**

No. 32A201. Model L-18. FOR RECORDS TO 18". Over-all length, 13 1/2"; HIGH IMPEDANCE. **\$23.70**

Net Each **\$23.70**

We can supply all Audax products—Send us your inquiries.

Recording Discs—Phono and Recording Needles

WALCO "400" SERIES LONG LASTING PHONO-NEEDLES



By the originator of the first jewel tipped needle to be marketed commercially. Scientifically designed to reproduce with the highest fidelity, screening out hiss and scratch noise—treating records gently. Packaged individually in a plastic case.

WS-400 FLOATING JEWEL SAPPHIRE NEEDLE

10,000 Plays—Retail for \$2.50 Made for replacement in 78 RPM record players and changers using standard needles. Sapphire tip is accurately ground and polished to fit record groove (.003" radius). Assures true reproduction with a minimum of needle attention.

No. 18A329. NET EACH...\$1.50
No. 18A330. Display of 12...\$15.00

MGS-400 SAPPHIRE NEEDLE

For Microgroove L.P. Records Same as above except sapphire tip is ground and polished for grooves of Columbia 33 1/3 RPM or RCA 45 RPM records (.001" tip radius).

No. 18A414. NET EACH...\$1.50
No. 18A415. Display of 12...\$15.00

WR-400 RUBY JEWEL NEEDLE

Up to 6,000 Plays—Retail for \$2.00 Made of Ruby, slightly less durable than sapphire. Precision ground, highly polished. For standard 78 RPM records (.003" radius tip).

No. 18A496. NET EACH...\$1.20
No. 18A497. Display of 12...\$12.00

WA-400 PRECIOUS METAL NEEDLE

Up to 4,000 Plays—Retail for \$1.50 Has all "extra" features of jewel tipped needles above, except shorter life. For playing standard 78 RPM records (.003" radius tip).

No. 18A498. NET EACH...90c
No. 18A499. Display of 12...\$9.00

WALCO "Groove Master"

A newly developed high-fidelity needle, tipped with precious metal alloy rated at 1,000 record plays. Filter type shank screens out surface noise and scratch. Hand polished micro-inspected point rides lightly in the groove. A fine needle for all-purpose use.

No. 18B335. Each...\$3.35
No. 16A495. Card of 24...\$6.37

WALCO "Encore"

4,000 Plays—Retail at \$1.00 Precious metal rounded point with the usual Walco shank bend—resulting in needles that track exactly with negligible friction... does not fight the groove, reduces needle talk and scratch.

No. 16A491. Net Each...70c
No. 16A492. Card of 12...\$5.88

FOR COIN MACHINES Sapphire Model WS-900

AT LAST—A sapphire designed especially for use in the new coin phonographs. Tested and approved by leading coin machine makers, this needle provides the ultimate in tone fidelity and record treatment. Rated at 5,000 plays when used in the new light weight tone arms.

No. 16A489. Pkg. of 5...\$2.95
100 Lots, Each...\$3c

Precious Metal Tipped WA700

A superior all-purpose, long-life, high fidelity coin needle. Has exceptional wearing quality with a minimum of wear on records. Priced to give operators substantial savings on their needle costs.

No. 16A490. Pkg. of 5...\$1.50
100 Lots, Ea...\$28c



AUDIODISCS

Highest quality aluminum base recording blanks, uniformly coated with exclusive Audiodisc recording lacquer having brilliant frequency response, easy cutting characteristics and permanent resistance to humidity. Sold only in case lots.

MASTER DISCS—DOUBLE FACE

The choice where quality pressings are desired. .065" thickness. Packed 25 to the case.

4A3. 13 1/4". Net Price Each...\$1.83
4A4. 17 1/4". Net Price Each...3.08

"RED LABEL"—DOUBLE FACE

The "standard" throughout the recording profession. Quality fully meets the demands of broadcasting stations, sound and movie studios. Packed 25 to the case.

Stock No.	Size Dia.	Thickness	Net Price Each
18A301	8"	.040"	\$0.48
18A302	10"	.040"	.69
4A1	12"	.050"	1.11
4A2	16"	.050"	2.04

"RED LABEL"—SINGLE FACE

Both sides coated, recordable side identified by label. Packed 25 to case.

Stock No.	Size Dia.	Thickness	Net Price Each
4A11	10"	.040"	\$0.51
4A12	12"	.050"	.84
4A13	16"	.050"	1.41

"YEL. LABEL"—DOUBLE FACE

The popular choice for commercial studios, broadcasters, educational work, quality home recording, etc. Packed 25 to the case.

Stock No.	Size Dia.	Thickness	Net Price Each
18A304	8"	.040"	\$0.42
18A305	10"	.040"	.54
4A5	12"	.050"	.90
4A6	16"	.050"	1.62

"BLUE LABEL"—DOUBLE FACE

For schools, demonstration work, home recording. Same materials as professional Audiodiscs—except .027" aluminum base. Supplied in multiples of 10 only.

Stock No.	Size Dia.	10 Lots Each	50 Lots Each
18A389	6 1/2"	23c	21c
16B318	8"	33c	30c
16B319	10"	50c	45c

WILCOX-GAY "RECORDIO" PAPER BASE DISCS

Give excellent reproduction. Light and flexible. Can be mailed. Record on both sides.

No. 18A307. 6 1/2" Disc. Package of 6...60c
No. 18A309. 8" Disc. Package of 6...\$1.00

QUANTITY USERS OF WILCOX-GAY

RECORDING AND PLAYBACK NEEDLES

Audio Recording Needles

18A348. Sapphire type 14-87", short dural shank. Net Each, \$4.35; 3 Lots, Ea. \$3.63

18A349. Sapphire type 14-87", long dural shank. Net Each, \$4.35; 3 Lots, Ea. \$3.63

20B46. Sapphire type 202, short brass shank. Net Each, \$3.15; 3 Lots, Ea. \$2.63

18A352. Stellite type 34, short dural shank. Net Each, \$1.05; 12 Lots, Ea. 88c

18A376. Stellite type 34, long dural shank. Net Each, \$1.05; 12 Lots, Ea. 88c

18A355. Steel type 50. Net Package of 3...60c
12 Package Lots, Each...50c

Audio Playback Needles

18A336. Sapphire type 113, dural shank. For original recordings and transcriptions. Each...\$3.90; 2 Lots, Ea...\$3.25

20B44. Red Circle Sapphire type 103, straight dural shank. All purpose. Each...\$1.20; 12 Lots, Ea...\$1.00

20B45. Red Circle Sapphire type 303, bent dural shank. Useful in heavy pickups. Each...\$1.20; 12 Lots, Ea...\$1.00

FAMOUS MAKE RECORDING DISCS For Professional, Home, or Commercial Needs

SOUNDCRAFT DISCS

Aluminum bases of mirror-like quality specially processed for flatness and uniformly coated with as near perfect recording lacquer as the state of the art provides. Sold only in case lots.

"PLAYBACK"—DOUBLE FACE

For average broadcasting standards. Packed 20 to case.

Stock No.	Size Dia.	Thickness	Net Price Each
15A2038	8"	.025	\$0.48
15A2039	10"	.025	.69
15A2040	12"	.032	1.14
4B9	16"	.040	2.07

"AUDITION"—DOUBLE FACE

Packing, 8" size, 10 to case; 10", 12" and 16", 20 to case.

Stock No.	Size Dia.	Thickness	Net Price Each
15A2041	8"	.025	\$0.42
15A2042	10"	.025	.60
15A2043	12"	.032	.93
4B10	16"	.040	1.59

RECORDISC

Home Recording Discs

Coated with cellulose nitrate—proven best for high fidelity, life-like reproduction, long wearing qualities, to withstand age and playback without cracking or peeling. All types listed record both sides.

ORANGE LABEL—BOND BASE

For home and practice use where low price is required. Thick compo base. Six to package.

Stock No.	Size Disc.	Per Pkg.	10 Pkg. Lots @
18A308	6 1/2"	\$0.62	\$0.53
18A310	8"	1.03	.88
18A311	10"	1.44	1.23

RED LABEL—ALUMINUM BASE

Made on heavy .021 aluminum, the last word for recording and compare with those used by broadcasting stations and studios. All sizes packed 5 to package.

Stock No.	Size Disc.	Per Pkg.	10 Pkg. Lots @
18A359	6 1/2"	\$1.03	\$0.88
18A360	8"	1.37	1.18
18A361	10"	2.06	1.76
16B320	12"	2.66	2.40

HOME RECORDING DISCS

LIGHT ALUMINUM BASE DISCS

The tops in metal base discs for home recording. Record on both sides. Six to paper album.

No. 18A313. 8" Disc. Album of 6...\$1.75
No. 18A315. 10" Disc. Album of 6...\$2.50

DISCS PLEASE WRITE FOR PRICES.

Jensen PHONO NEEDLES



ROYAL JEWEL SAPPHIRE

Shock absorber spring action minimizes scratch, assures longer record life. Flat construction reduces needle talk. Natural Sapphire Tip gives permanence, extra smoothness, protects records. For playing standard 78 RPM recordings. Retail at \$2.50 each.

No. 18A327. Net Each...\$1.50
No. 18A328. Card of 12...\$15.00

"LP" ROYAL JEWEL SAPPHIRE

For Columbia and RCA long playing records. Has precision sized 1 mil radius tip. Otherwise same as described above.

No. 14B561. Net Each...\$1.50
No. 14B562. Card of 12...\$15.00

JENSEN "CONCERT"

PRECIOUS METAL 5000 PLAY

Has famous Jensen "shock-absorber" spring action and other features of "Royal Jewel" above except has osmium precious metal tip. Minimizes scratch and provides clear undistorted reproduction. For standard 78 RPM records. Retail for \$1.00.

No. 18A331. Net Each...70c
No. 18A332. 12 For...\$6.00

JENSEN "SWEET"

Precious Metal

5,000 play retails 75c. Quality at low price. Beryllium alloy shank with an extremely long life precious metal tip.

No. 16A493. Net Each...50c
No. 16A494. Card of 24...\$8.82

Service Men's Packet

Contains 6 JENSEN needles. 3 each of the \$1.00 and \$2.50, in a handy folder for pocket or kit. Handy to carry along on service calls. \$10.50 Retail Value.

No. 18A364. Per Kit...\$5.25

Gerett Miracle Point

Especially recommended for coin operated changers. Long wearing precious metal point, accurately tapered, ground and polished to fit record groove. Life, 2,000 or more plays.

18A334. Ea...40c 12 Lots...\$3c

Shadograph Steel Needles

Straight Shank for light pick-ups. No. 18A338. Pkg. of 100...75c

WALCO WD-90

Diamond Playing Needle

The first professional broadcast-type diamond needle at this low price. Once installed in today's pickup, the needle problem is ended. May be removed and replaced as often as desired without fear of injuring record surfaces. Full frequency range reproduction is obtainable while surface noise and scratch are held to a minimum. Packaged in deluxe lucite container with outer gold-stamped gift box. RETAILS FOR \$12.50.

No. 14A666. Net Each...\$8.45

PRESTO RECORDING NEEDLES

18A344. Sapphire, short dural shank. Net Each...\$4.80

18A345. Sapphire, long dural shank. Net Each...\$4.80

18A346. Sapphire, short brass shank. Net Each...\$3.60

18A347. Sapphire, long brass shank. Net E-ch...\$3.60

18A351. Stellite, short shank. Net Each...\$1.20

18A354. Steel, short shank. Pkg. of 3...\$1.00
12 Pkgs. for...\$7.20

PRESTO PLAYBACK NEEDLE

No. 18A337. Sapphire, average life, 500 hours. Each...\$1.25
6 Lots, Each...75c

POPULAR PRICED Recording Needles

No. 18B357. Wilcox Gay steel recording needle. Pkg. of 2...35c

No. 18A356. Walco steel recording needle. Pkg. of 5...85c

No. 18A350. Walco Sapphire semi-professional short shank. Net Each...\$3.38

Phono Accessories - RECORDING WIRE and TAPE

PUT IN A NU-HOLE!



THE AMAZING, EASY WAY TO INSERT NEW SPINDLE HOLES IN WORN PHONOGRAPH RECORDS. Kit includes NU-HOLE cutting tool and centering base for removing the damaged or enlarged spindle hole area of record, 3 fibre NU-HOLE inserts, 6 NU-HOLE labels and instruction sheet.

No. 16A562. **YOUR COST... \$1.40**
Additional NU-HOLE inserts. Packet of 5 inserts and 10 labels. **35c**
No. 16A563. **YOUR COST... 35c**

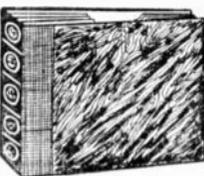
SAV-A-DISC KIT



A tough vinylite transparent plastic disc to cement over label of phonograph record. Repairs records with worn holes. Protects new or undamaged records. Kit contains 10 plastic discs, tube of special cement and simple instructions.

No. 16A796. Kit Each... **79c**
Counter Display Carton of 24 Kits. Per Kit... **69c**

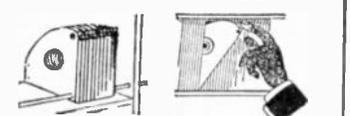
RECORD ALBUMS



Sturdy chip-board front and back with leatherette covering and cloth binding. Gold embossed in dignified design. Heavy kraft envelopes hold 12 records.

No. 36A24. 10". **EACH... 75c**
10 LOTS. EACH... 70c
No. 36A25. 12". **EACH... \$1.15**
10 LOTS. EACH... \$1.00

CLASSOPHONE POCKETS



STORE - PROTECT - CLASSIFY 10" or 12" phonograph records for **INSTANT** use! Individual record pockets hinge on wooden dowel in perfectly upright position. A flip of the finger brings the record out or replaces it. Easily installed in book shelves, cases or special cabinets. Set of 25 pockets occupies space 6" wide, 14" deep, 1 1/4" high. With gummed labels for making index, mounting dowel and instructions. **5A160. Kit of 25 Pockets \$5.15**

PHONO NEEDLE CUP

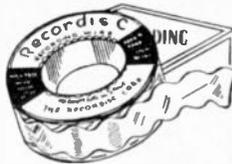
Nickel-plated with snap spring cover. Hole in center of base. Diameter 1 1/2", can be set into 1 1/4" hole. No. 18A375. **Net Each... 10c**

G.C. Turntable Lubricant
The proper oil for turntables. Made with graphite, clings to surface of parts. 2-oz. bottle. **35c**
No. 18A320. **Each... 35c**

G.C. Record Cleaning Pad
Will not harm records. Specially treated for removing dust and accumulation. Size 6x6". **27c**
No. 16A561. **Each... 27c**

Rek-O-Dope. Cleans, lubricates, hardens, renews old and preserves new records and recordings. **44c**
No. 18A321. 4-oz. bottle. **Each 44c**

RECORDISC SUPER-TONE RECORDING WIRE



Precision drawn stainless steel (.004" diameter), wound on RMA standard spools that fit all types of wire recorders (except magazine loading). Super-tone wire produces outstanding results—records with wide-range fidelity, erases easily when desired and has high durability—the result of months of research and study by skilled specialists. Each spool comes in a sturdy storage box with a helpful booklet containing expert hints for making better recordings and is supplied with both nylon and serrated plastic leaders—at no extra cost.

No. 14A656. 1/4-Hour Spool... **\$1.25** No. 14A658. 1-Hour Spool... **\$3.15**
No. 14A657. 1/2-Hour Spool... **1.88** No. 14A655. Empty Spool... **.48**

GENUINE WEBSTER-CHICAGO RECORDING WIRE

Flexible, pre-tested stainless steel. Has high tensile strength and carefully controlled magnetic properties, essential to good wire recording. Wound on RMA standard metal spools that fit all types of wire recorders (except magazine loading).

No. 14A587. 1/4-Hour Spool. EACH... **\$2.00** 10 @ Each... **\$1.30**
No. 14A588. 1/2-Hour Spool. EACH... **3.00** 10 @ Each... **1.95**
No. 14A589. 1-Hour Spool. EACH... **5.00** 10 @ Each... **3.25**

AUDIOTAPE PAPER BASE RECORDING TAPE

Developed after 2 1/2 years of exhaustive research and continuously improved until it now can be offered with complete confidence for professional and amateur use. The oxide coating material is finely milled and uniformly dispersed over a specially developed, extremely smooth paper base—contributing to wide range reproduction and freedom from background noise and distortion.

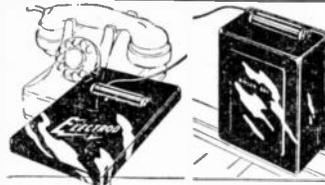


BLACK OXIDE AUDIOTAPE NO. 1201. For home recording, schools, studios, etc. 1250 ft. on 7" standard all-aluminum reel, wound with coating inside. **10. 12 EACH... \$3.00**

RED OXIDE AUDIOTAPE NO. 1221. For use on recorders capable of wide-range reproduction. Recommended for broadcast stations and studios requiring the best. 1250 ft on 7" standard all-aluminum reel, wound with coating inside. **10. 12 EACH... \$3.00**

RECORDING TELEPHONE CONVERSATIONS, IS NOW POSSIBLE...

With the Electro Teleducer or the Electro Tele-Pickup—inductive pickup devices that attach to your recorder in place of the microphone. Both sides of the conversation are reproduced. There is no "wiring" or direct connection to your telephone and its regular operation is not affected in any way. All you need do is place which ever style of pickup unit you choose in close proximity to the induction coil of the telephone instrument. Output of the pickup is approximately —50 db., sufficient for any recorder using a common high impedance crystal or dynamic type microphone. Must be used in accordance with latest FCC regulations.



Model 1175 Teleducer. Fits under French type telephones. Has 12-foot Shielded Cable. **10. 12 EACH... \$10.29**
Model 1125 Tele-Pickup. For wall type or ringer box type telephones. Has 6-foot Shielded Cable. **10. 12 EACH... \$4.12**

AUDIODISC CHIP-CHASER



Brushes recording thread out of way of stylus automatically, infallibly, winding it up on overhead post or drive pin. Fits any machine or turntable. Weighted base holds unit in place. Flexible joints position wiper blade. Tips up out of way when not in use. Cannot scratch or damage recording.

No. 5A151 For up to 12" turntable... **\$3.50**
No. 5A152 For 16" turntable... **\$4.38**

Phono Set Screws
No. 18A343 10 Ass't. **97c**



Assortment of 10 most popular sizes.

Book "HOW TO MAKE GOOD RECORDINGS". New revised edition. Contains 140 pages. Illustrated. **1.20**
No. 18A318. **Each... 1.20**

FAMOUS WEBSTER-CHICAGO PHONO NEEDLES

NE-33 SAPPHIRE NYLON. Has ivory nylon "knee-action" shoe, aluminum shank and long-lasting sapphire jewel tip for standard records. Practically no needle scratch. List Price, \$3.50 each.

No. 18A377. **EACH... \$2.10**
LOTS OF 10. EACH... \$1.75

NE-34 PRECIOUS ALLOY NYLON. With black nylon "knee-action" shoe. One of the most popular needles for standard records. List Price, \$2.50 each.

No. 16A800. **EACH... \$1.50**
LOTS OF 10. EACH... \$1.25

NE-37 ROSE JEWEL. Tear drop nylon shank and precious "rose" jewel tip give brilliant reproduction and minimum record wear. For standard records. List Price, \$1.75 each.

No. 16A801. **EACH... \$1.00**
LOTS OF 10. EACH... 88c

NE-44 MICRO-NYL. Nylon shank with accurately ground osmium alloy tip for long play records. List Price, \$3.00 each.

No. 20A787. **EACH... \$1.80**
LOTS OF 10. EACH... \$1.50

NE-215 TANDEM TIP. For Webster-Chicago record changers. Has special double tip of precious metal for standard and microgroove records. List Price, \$4.00 each.

No. 16A802. **EACH... \$2.40**
LOTS OF 10. EACH... \$2.00

SPECIAL VALUE MILLER "CARILLON DYNAMIC" PHONO NEEDLES

High quality playing needles—made by one of the largest manufacturers... offered at real savings.

\$2.50 Retail Value
Nylon. Softer tone with very low scratch. Osmium tip for standard records. A very popular needle.

16A791. **\$1.25**
Each... **25 @ Each... \$1.00**



\$2.00 Retail Value
Sapphire Point. Good for 10,000 plays. No finer jeweled standard needle available.

No. 16A789. **85c**
Each... **25 @ Each... 70c**



Microgroove Sapphire. Precision jewel tip, 3/16" offset shank. For fine groove long playing records.

No. 16A790. **89c**
Each... **25 @ Each... 79c**

\$1.50 Retail Value
Osmium Alloy. Precision tip and 1/8" shank offset give high fidelity and low scratch. For standard records.

No. 16A788. **69c**
Each... **25 @ Each... 59c**



50c Retail Value
Aluminum Shank. Osmium-alloy tip. Shank reduces needle-talk, scratch. A new type needle for standard records.

No. 16A787. **35c**
Each... **25 @ Each... 30c**



MILLER COIN MACHINE NEEDLES

\$1.00 Retail Value
Osmium Tip. Flexible shank. Rating 5000 plays on std. records.

No. 16A792. **39c**
Each... **12 @ Each... 35c**
100 @ Each... 31c



\$1.50 Retail Value
Sapphire Tip. Straight shank. Full tone. 10,000 plays on standard records. Especially designed for light weight pickups.

No. 16A793. **52c**
Each... **12 @ Each... 49c**
100 @ Each... 45c



MILLER RECORDING NEEDLES

Alloy Steel. Diamond polished. Each needle will cut approximately 25 6" records. Card of 3 needles.

No. 16A794. **45c**
Card... **25 Cards @ Ea. 39c**



Stellite. Diamond polished. Cuts quiet, smooth groove. Good for approximately 500 6" discs.

No. 16A795. **98c**
Each... **25 @ Each... 89c**



PICK-UP CARTRIDGES, RECORDING HEADS, Accessories



Universal Replacement Crystal Cartridges



FOR STANDARD RECORDS
 ① Type L12. Packed with universal mounting hardware and replaceable needle.

WITH SAPPHIRE NEEDLE

No.	Model	Volts	List	Each
20B36	L-12S	0.75	\$8.50	\$5.00
20B37	M-12S	1.50	8.50	5.00
20B38	H-12S	3.00	8.50	5.00

Sapphire needle for 78 RPM.
 20B39 2.50 **1.47**

WITH OSMIUM NEEDLE

No.	Model	Volts	List	Each
20B40	L-120	0.75	7.50	4.41
20B41	M-120	1.50	7.50	4.41
20B42	H-120	3.00	7.50	4.41

Osmium needle for 78 RPM.
 20B43 1.50 **.88**

FOR MICROGROOVE RECORDS

① Series 14 crystal cartridges. For 45 and 33 1/3 RPM records. Widely used as original equipment in many changers. Tracks at 5 grams, output 1 volt. Uses replaceable .001" needle.

20A783. Model 14-A with Osmium needle. Each **\$4.41**

20A784. Replacement Osmium needle .001" Each **.88c**

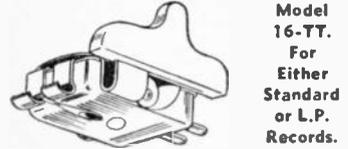
20A785. Model 14-AS with Sapphire needle. Each **\$5.00**

20A786. Replacement Sapphire needle .001" Each **\$1.47**

② 16A813. Model 34 cartridge for RCA and similar 45 RPM players. With Osmium .001" needle. Mounts 3/8 to 1/2 inch. **\$3.82**

Use 20A784 or 20A786 needles above for replacement.

Electro-Voice TWIN-TILT Phono Pickup Cartridge



Has a double tipped replaceable needle. Tilts forward for standard records (78 RPM), and back to normal position for L.P. (33 1/3 or 45 RPM) records. Fits any standard arm that can be adjusted to 6 grams needle pressure. Supplied with needle and instructions. No. 16A814.

Your Cost **\$7.06**

5013 replacement twin needle for above. Has .001" sapphire and .003" osmium tips.

No. 16A815. Your Cost **\$1.76**

POPULAR REPLACEMENT CARTRIDGES



GENUINE RCA "MAGIC TONE CELL"
 Fig. A RCA Part No. 9890. For modernizing 69 different RCA Victor radio-phonographs and record players, 1938 and later. Greatly improves record reproduction, reduces record wear and needle noise. With permanent sapphire stylus and needle guard. Output 1 1/2 V. Complete with assorted mtg. hardware, technical and installation data. List Price \$7.00
 No. 20B23. Net Each **\$4.12**

(B) RCA No. 38610. With stylus. No. 14A566. Net Each **\$3.26**

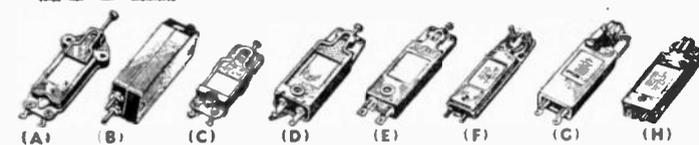
(C) RCA No. 37158. Top loading. No. 14A571. Net Each **\$2.79**

(D) Webster C2. Flat, 2-hole flange. No. 14A575. Net Each **\$2.35**

(D) Webster C3. Clamp mount, no flange. No. 14A576. Net Ea. **\$2.65**



PICK-UP CARTRIDGES FOR PLAYING ALL TYPES RECORDS

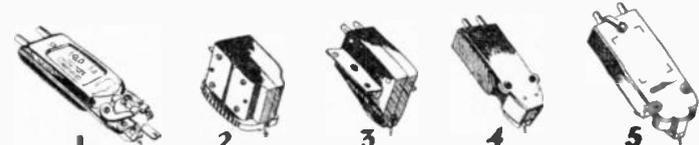


Stock No.	Fact. Model	Illus. Fig.	Needle Pressure	*Needle Type	Output Voltage	Range Cps.	List Price	Net Each
14A530	B-2	B	2 3/4 oz.	Optional	2.50	50-4,000	\$5.55	\$3.26
14A528	M-22	C	2 3/4 oz.	Optional	2.90	50-6,500	5.55	3.26
14A521	L-26A	D	2 3/4 oz.	Optional	1.40	50-4,500	4.45	2.82
14A523	L-40A	D	1 1/4 oz.	Optional	0.60	50-4,500	4.45	2.82
14A556	L-70A	E	1 1/4 oz.	Optional	1.00	50-4,000	5.55	3.26
14A558	L-71A	E	1 oz.	Optional	1.00	50-8,000	6.65	3.91
14A559	L-72A	E	1 1/4 oz.	Optional	3.50	50-4,000	6.65	3.91
14B534	LT3-MA	F	3/4 oz.	"T"	1.00	50-10,000	7.00	4.12
14A555	NYLON 1-J	G	1 1/4 oz.	"NYLON"	1.00	50-10,000	7.75	4.66
14A596	QT3-JA	H	1 oz.	"Q"	0.85	50-10,000	8.90	5.23

Fig. A (Astatic #401A)—REPLACES cartridge in RCA MODELS 31050, 31156, 32632, 33122, 33217, 34225, 34207. 2 3/4 oz., 1.4 V., 50-4500 cps. Stock No. 14A531. Net Each **\$2.82**

*Any standard needle will fit cartridges marked "Optional"—Needle not furnished. LT, Nylon and QT furnished with special needles illustrated below.

CARTRIDGES FOR L.P. SLOW SPEED RECORDS



① **LQD-1J Dual Turnover Cartridge.** Fits Astatic 6D arm and also the VM and Oak Changers. Provides excellent reproduction of the new L.P. slow speed records as well as the standard 78 RPM types. Has very low surface noise or needle talk. Uses two replaceable needles (listing below).
 No. 20A551. YOUR COST **\$5.59**

② **UJ Universal L.P. Cartridge.** Has improved housing design and features replaceable needle (listing below). Interchangeable with Philco Columbia L.P. players and Astatic FL series. Provides top quality performance on all three record types 33 1/3, 45 and 78 RPM.
 No. 16A816. YOUR COST **\$5.23**

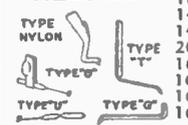
③ **GCJ Ceramic Cartridge.** Has replaceable needle. The Ceramic element is impervious to moisture and temperature effects. Tracks with only 6 grams needle pressure and has .55 volts output on 33 1/3 and 45 RPM records. Frequency response 50 to 10,000 cps. Uses type C 1 mill needle listed below.
 No. 16A817. YOUR COST **\$4.35**

④ **Model CQJ Crystal Cartridge.** For replacement in RCA and other 45 RPM players. Requires 1/2" mounting. Needle pressure 5 grams. Response 50-10,000 cps. output .7-volt. Replaceable needle listed below.
 No. 16A818. YOUR COST **\$4.41**

Model PT Crystal (Not illus.). Replaces Philco parts 35-2671 and 35-2671-1.
 No. 16A819. YOUR COST **\$2.94**

⑤ **QCJ Glennite Ceramic Cartridge** for standard 78 RPM. Unaffected by extremes of temperature and moisture. Has built-in sapphire tipped needle. Frequency range 50-10,000 cps. Needle pressure 1-oz.; output, .5-volt.
 No. 14B520. YOUR COST **\$5.23**

SPECIAL ASTATIC NEEDLES



Stock No.	Type	Tip Material	Record Type	Use in Cart.	NET EACH
14A659	T	Osmium	Std.	LT	\$0.88
18A374	Nylon	Sapphire	Std.	Nylon	1.76
14A660	Q	Osmium	Std.	QT	.88
14A597	QJ	Sapphire	Std.	QT-LQ	1.47
20A553	QJ33	Sapphire	L.P.	QT-LQ	1.47
16A797	UJ	Sapphire	L.P.	U-J	1.47
16A798	U-78-J	Sapphire	Std.	U-J	1.47
16A799	U-78-M	Osmium	Std.	U-M	.88
16A821	CJ	Sapphire	L.P.	CC	1.47



REPLACEMENT CRYSTAL CARTRIDGES



FOR STANDARD RECORDS

Fig. A. Light weight crystal cartridge that replaces cartridges of equal output. Response to 6,000 cps. Mounting centers 1/2". All have button for arm rest clip except W57A. Less needle.

Stock No. Fact. No. Needle Force Output Net

14A537	W57A	3/4 oz.	1.8	3.26
14A536	W58A	3/4 oz.	2.2	3.26
14A535	W59A	1 oz.	2.7	3.26
14A569	W56A	1 1/8 oz.	4.3	3.91

"MUTED STYLUS" TYPE

Fig. B. For unmatched performance in high quality phonos, coin-operated machines, etc. Fits pickup with 1/2" centers. Needle pressure 1-oz., output 1.6-volt. Comes with replaceable needle.

No. 14A594. Model W60A with Sapphire Tipped needle. List Price \$8.50
 Net Each **\$5.00**

No. 14B514. Model W60B with Osmium Tipped needle. List Price \$7.50
 Net Each **\$4.41**

FOR "LP" RECORDS VERTICAL DRIVE TYPE FOR NEW SLOW SPEED RECORDS

A new highly compliant crystal pickup to meet requirements of low needle pressure and accurate tracking necessary for high fidelity reproduction of the new long playing as well as standard records. Provides a simple means of changing needles. Small overall size. Weight, 4 1/2 grams. Response to 10,000 cps. Output approximately 1 volt. Needle pressure 6 gram. Replaceable needles.

(C) W21A. For 33 1/3-45 RPM L.P. records. Response to 10,000 cps. Replaceable .001" sapphire needle.
 No. 16A806. Your Cost **\$5.14**

(C) W21AR. Same as W21A but with bracket for RCA 45 RPM replacement.
 No. 16A807. Your Cost **\$5.14**

(C) W23A. For standard 78 RPM type records. Response to 7,000 cps. .0027" replaceable needle.
 No. 16A809. Your Cost **\$5.14**

(D) W22AB. Turnover cartridge for all types records. .001" sapphire and .0027" osmium replaceable needles.
 No. 16A808. Your Cost **\$6.32**

Replacement Needles
 Use .001" size for long playing records and .0027" for standard 78 RPM.
A65MC .001" Sapphire Needle used in 901MC, 901D arms; W21, W21AR cartridges.
 No. 16A803. Your Cost **\$1.47**

A61A .0027" Sapphire Needle used in 901A arm, W23A and 460A cartridge.
 No. 14A595. Your Cost **\$1.47**

A62A .0027" Osmium Needle used in 901D arm, W23B, W22AB and W60A cartridge.
 No. 14A670. Your Cost **.88c**

Combination Cartridge

W56R Cutter, Cartridge combination, replaces Wilcox Gay and others. Needle force 1-oz., response to 10,000 cps. Output level 4.3-volt.
 No. 16A822. Your Cost **\$4.41**

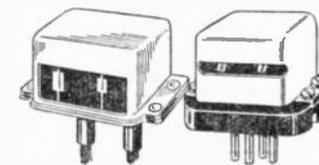
EXTRA PROFIT SHURE CRYSTAL CARTRIDGE KIT

Three types which will replace 9 out of 10 cartridges and double your profit! Contains 6 cartridges in all—1 W60B, 2 W58A and 3 W57A with reference chart to determine exact replacement. All individually wrapped and packed in a convenient carton.
 No. 16A812. Net Each **\$10.88**



SHURE WIRE AND TAPE RECORDING HEADS

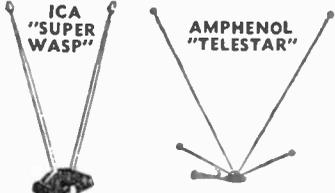
(A) **815 SHURE TAPE RECORDING HEAD.** Incorporating recording, playback and erasing in one unit. Uniform frequency response and output level. Suitable for professional as well as experimental and amateur use. Has excellent hum shielding. Is immune to temperature or moisture effects. Has connecting lead.
 No. 16A811. YOUR COST **\$8.82**



(B) **812 SHURE MAGNETIC WIRE RECORD HEAD.** Combines recording, playback and signal erasure in one plug-in unit. Has uniform frequency response and output level and high erase efficiency. Immune to moisture and temperature. Excellent hum shielding. 4-prong plug-in base.
 No. 16A810. YOUR COST **\$8.82**

TELEVISION ANTENNAS for every location

INDOOR ANTENNA



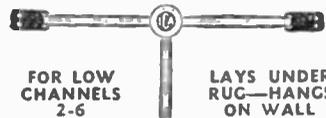
ICA "SUPER WASP". For jiffy installation on top of set. Brass antenna rods telescope from 32" closed to 78" open—tune to all television channels. Can be raised or lowered for best reception. Has beautiful walnut base with non-skid cushions that won't mar set. With 300-ohm connecting lead. List Price, \$6.95.

No. 3889. Your Cost, Each \$4.09

AMPHENOL "TELESTAR". Has separate pairs of plug-in rods for low and high channels. Rods are light weight aluminum—require no adjustment. Base is low-loss polystyrene plastic with non-scratching rubber feet. Recommended for home and portable TV sets. Can be set up or moved in seconds. With 5-ft. lead. Weight, 1 lb. List Price, \$4.95.

No. 3888. Your Cost, Each \$2.91

FLEXIBLE TV ANTENNA



FOR LOW CHANNELS 2-6

LAYS UNDER RUG—HANGS ON WALL

Made of 300-ohm twin lead with flat end insulators. Very simple to install. With 10 ft. of 300-ohm lead-in.

No. 37A109. Your Cost, \$1.44



TV ALL CHANNEL ANTENNA KIT FOR ATTIC, INDOOR OR OUTDOOR USE

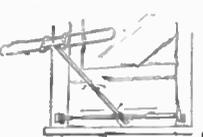
Operates efficiently—installs easily with no special tools. Antenna is made of 300-ohm line with flat end insulators and 60 ft. of 300-ohm lead attached. Kit also includes special weather-resistant nylon supporting strings and 3 insulated screw eyes for lead-in.

No. 37A107. Kit, Each \$3.50

Flexible All-Channel Antenna only, as supplied in above kit. With 10 ft. lead-in. \$1.73

No. 37A108. Your Cost, \$1.73

WINDOW ANTENNA FOR ALL TV CHANNELS



USED IN HOMES, HOTELS, APTS. AND OFFICES—WHEREVER A ROOF-TOP ANTENNA IS IMPRACTICAL

Adjustable base spans 30" to 50" to fit any wood or casement window frame without the use of screws or other fasteners. Does not mar frame. Aluminum folded dipole "tunes" easily for best all-channel reception. Adjustable support swings antenna both horizontally and vertically for maximum pickup. Complete with 20 ft. of 300-ohm lead. Shipping wt., 5 1/2 lbs. **No. 38810. YOUR COST, EACH \$7.85**

"INVISIBLE" TV AERIAL

Plugs into power socket ahead of TV set. Has 8-ft. length of 300-ohm twin lead with lugs for connection to regular lead-in terminals on set. Provides TV and FM reception in local service areas. **No. 18A418. Ea. \$2.32**

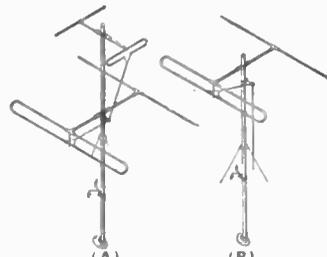


HOW TO CHOOSE THE BEST ANTENNA

In the Primary Service Area (close to or in-line-of-sight of the television station), good pictures usually can be had using an indoor, window or attic antenna, but better results can be expected from a directional antenna mounted high on a chimney, roof-top or tower. In Fringe Areas (out of line-of-sight, or in a spot where hills or high buildings might badly interfere), a highly directional "stacked array" antenna is generally required for consistent pictures. In extreme Fringe areas, or to take full advantage of unusual long distance reception, a "single channel" antenna is best.

DIRECTIONAL ANTENNAS

Designed for reception in one direction and commonly used with a rotator where stations lie in different directions. Improves picture, helps reject unwanted noise and ghost effects.



(A) FOR ALL CHANNELS

Rad-El-Co. Model RT-40LL Folded Dipoles and Reflectors. An outstanding value. Strongly constructed—easily assembled. Uses 1/2" aluminum elements, 5/8" aluminum boom and 1" steel mast, zinc plated inside and out. The 8-ft. mast comes in two 4-ft. sections that lock together firmly. Included are guy wire ring, mast stand-off insulator, a wall bracket and a universal mounting base. Antenna sections may be oriented separately. Less 300-ohm lead. **No. 38A88. Net Each \$7.35**

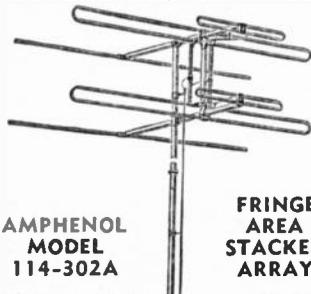
(B) FOR LOW CHANNELS 2-6
Rad-El-Co. Model RT-42LL Folded Dipole and Reflector. Another remarkable value. Uses same materials and construction as above antenna. Supplied with same 8-foot mast and mounting accessories. Less 300-ohm lead. **No. 38A89. Net Each \$6.32**



FOR ALL CHANNELS

Rad-El-Co. Model RT-44LL "X" Type with Reflector. A great value in all-channel antennas. Very popular in low signal areas. With 8-ft. steel mast and mounting accessories. Less lead. **No. 38A90. EACH \$7.35**

COVERS ALL CHANNELS



AMPHENOL MODEL 114-302A

FRINGE AREA STACKED ARRAY

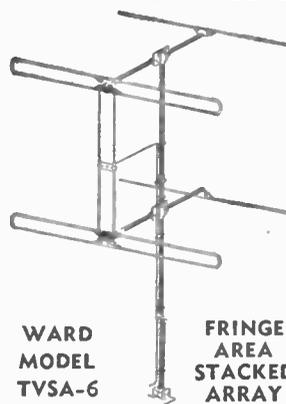
Finest all aluminum construction. Gives tremendous signal gain and high rejection of noise and ghosts. With 10 ft. of 1/4" diameter steel mast. Less lead. **No. 3885. EACH \$20.58**

AMPHENOL MODEL 114-005
Same antenna as above with one bay and 5-ft. mast. "In-line", flat construction makes mounting easy. Less lead. **No. 38869. EACH \$9.99**

FRINGE AREA ANTENNAS

Engineered for more signal pickup in one direction and very high rejection of unwanted noise and ghost reflections. Must be rotated where stations are not in the same direction.

FOR LOW CHANNELS 2-6



WARD MODEL TVSA-6

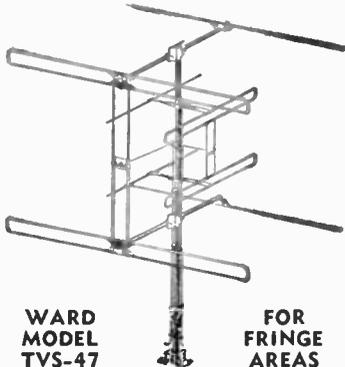
FRINGE AREA STACKED ARRAY

Extra strong construction assures secure mounting in any weather. Spacing between antenna bays is 1/2 wave length, proven by tests to give greatest signal pickup. Supplied with 1/2" aluminum antenna elements and three 5-ft. sections of 1/4" diameter corrosion-proofed steel mast, mounting base, guy wire rings and instructions. Weight, 21 lbs. Less 300-ohm lead-in. **No. 38A83. Net Each \$24.99**

STACKED ARRAY FOR HIGH CHANNELS 7-13

WARD MODEL TVS-48
Can be mounted as a separate antenna on its own 5-ft. mast and swivel base or as an adaptor to convert a low band stacked array to an all channel array. Antenna elements are 3/4" aluminum tubing. Furnished with guy wire ring and instructions, less 300-ohm lead-in. Wt., 5 lbs. **No. 38A82. Net Each \$7.94**

ALL CHANNEL STACKED ARRAY



WARD MODEL TVS-47

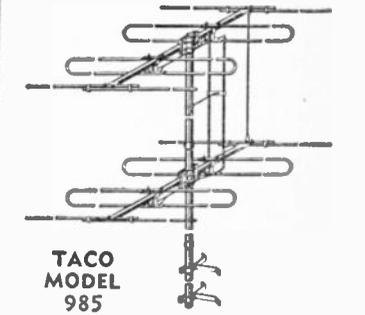
FOR FRINGE AREAS

Overall height is kept low by placing high band section between elements of the low band section, especially desirable when used on a rotator. Each array may be oriented separately for maximum pickup and rejection of ghosts. Supplied with three 5-ft. sections of 1/4" diameter steel mast, guy wire rings, adjustable angle mounting base and instructions. Wt., 22 lbs. **No. 38A84. Net Each \$29.11**

SINGLE CHANNEL ANTENNAS

To be used under very extreme conditions or at long distances from the TV station. Special design for maximum signal pickup increases directional effects and rejection of interference to the highest degree. However, basic theory of such design limits maximum performance to one channel. On the two adjacent channels performance still exceeds the all channel array.

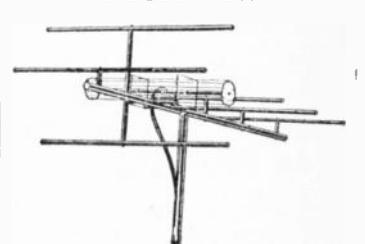
DOUBLE STACKED TWIN-DRIVEN YAGI ARRAY



TACO MODEL 985

Engineered around basic theory to produce the very best single channel antenna. Each of the two sections is composed of four elements, two driven and two parasitic. An impedance matching network for 300-ohm line assures maximum signal transfer to the lead-in. Mechanical construction is arranged for easy assembly and strength to withstand heavy weather. To take advantage of long distance reception this antenna should be mounted on a high tower with a rotator. Supplied with a 15-ft. mast, less 300-ohm lead-in. (When ordering, specify channel number of station to be received. Otherwise channel 5 will be supplied.) **No. 39A1. Net Each \$34.99**

FOR SINGLE CHANNEL EXTREME DISTANCE RECEPTION

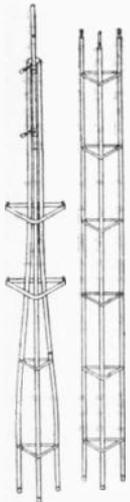


The "Teletenna"—engineered with all the performance features required for consistent fringe area reception. Has very high forward gain, sharp directivity and extreme rejection of side, bottom and rear noise and ghost reflections. Brings television to areas where reception with ordinary antennas is intermittent or impossible. This unusual performance results from use of seven elements, with three arranged as a modified parabolic reflector, three as directors and one provided with a cage type impedance transformer matching 300-ohm line. The elements are 3/8" diameter dural tubing. Insulation is low-loss polystyrene. Boom and mast are 1 1/8" diameter hard dural tubing. Mast length is 24", for mounting on top a tower or rotator. Furnished with all assembly hardware and instructions. Shipping weight, 15 lbs. **Specify channel of TV station to be received when ordering.**

No. 50A309. For Low Channels 2-6. Net Each \$46.75
No. 50A310. For High Channels 7-13. Net Each \$40.87

TV Antenna Rotators, Towers and Masts

PENN "TELETOWER" FOR QUICK EASY INSTALLATION



A neat appearing guyed tower of 1" dia. steel tubing securely welded and weatherproofed.

10 FT. TOP SECTION. Supplied with a sturdy 10-ft. long 1" dia. pole to extend height to 18 ft. Has welded climbing supports and side brackets for rotator or another pole. Wt., 27 lbs. **39A4. \$15.75**

10 FT. MID-SECTION. Uniform size. Couples securely to other sections for desired height. Weight, 20 lbs. **39A5. \$12.75**

HINGED BASE MOUNT. For above. Adjusts to roof angle. Shipping weight, 17 lbs. **36A101. \$7.50**

TOP ROTATING BEARING AND COLLAR. Accommodates 1" dia. rotating mast. Free turning. **No. 36A102. Your Cost... \$2.50**

ECONOMY 40-FT. TOWER

Composed of 20 ft. of tower like above plus 20 ft. of 1" double reinforced steel mast. To be used with hinged base mount above. Shipped from factory, Lancaster, Pa. Weight, 63 lbs. Less Base. **\$29.75**

WINCHARGER SELF-SUPPORTING TOWERS



For TV-FM or Amateur antennas. The same type rugged steel tower used successfully for many years as a mounting for heavy wind-driven generators. Needs no guys. Can be safely climbed. Furnished with a holder for a 1 1/4" dia. extension pipe mast and a coupling for the antenna mast. Extension pipe not included. Shipped knocked down, with instructions. Easily assembled.

No. 38A85. 5-Ft. Tower. \$8.00
Wt., 20 lbs. Net Each...
No. 38B86. 10-Ft. Tower. \$15.35
Wt., 53 lbs. Net Each.

BAKER "MONITOR" SELF-SUPPORTING TOWERS



For the heaviest TV and Amateur antennas... Strength tested and engineered to stay up—the safest of all towers. Three post 1 3/4" steel angle construction, hot dip galvanized. Towers up to 48 ft. furnished with anchors for dirt or gravel; 48 ft. and higher, with anchors for concrete. Base spread approximately one-fifth of height. Shipped knocked down with full instructions, all fittings, hardware, ladder, platform and antenna mounting adjustable for mast diameter 1" to 2". Prices are f.o.b. Evansville, Wis.

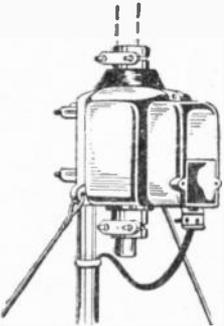
Stk. No.	Height	Wt. Lbs.	Your Cost
50A293	22 ft.	280	\$ 26.50
50A294	35 ft.	454	53.25
50A295	48 ft.	625	78.00
50A296	62 ft.	970	114.75
50A297	75 ft.	1400	153.75
50A298	88 ft.	1835	205.50

Here are listed—at lowest costs—antenna towers and rotators to improve television reception. On the opposite page is a wide variety of practical, safe mounting hardware for all antenna installations. Should you need assistance in selecting just the right items, the B-A staff will be pleased to help. Your inquiries are invited.

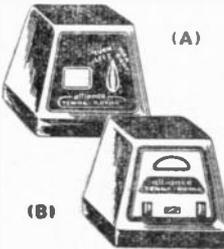


ROTATES TV or FM ANTENNAS

FOR MAXIMUM SIGNAL INTENSITY CAN BE USED WITH LIGHTWEIGHT AMATEUR BEAMS



Swings antenna either direction through a full 360° and stops right on the exact spot you choose. Direction of rotation is instantly reversible. Stops automatically at end of rotation to prevent fouling transmission line. Motor unit is permanently lubricated and enclosed in a weather-tight die-cast metal housing. Control box at radio is an attractively designed plastic unit (illus. A) housing a step-down transformer, the rotator switch and an automatic signal light that indicates the end of rotation. The rotator and control must be connected with a 4-wire cable. Control box plugs into 110-volt, 60-cycle AC. Rotator size, 7 3/4 x 5 1/4 x 8". Control box size, 5 x 5 x 4". Shipping weight, both units, 12 lbs. **No. 36A92. NET EACH... \$23.50**



NEW! ALLIANCE TENNA-ROTOR WITH DIRECTION INDICATOR

Looks and operates exactly like the standard model rotator above, except control box (illus. B) contains a calibrated meter type direction indicator automatically showing direction the antenna is pointed. Control and rotator require 4-wire connecting cable. **No. 36A100. NET EACH... \$29.37**

THRUST BEARING BRACKET FOR ALLIANCE TENNA-ROTOR

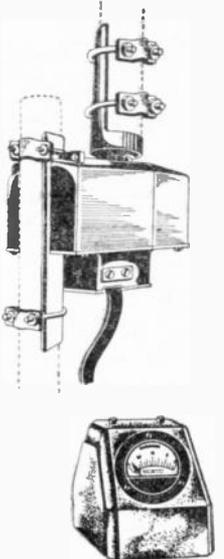
A ball thrust bearing support for heavy TV antennas or 10 meter amateur beams. Clamps on mast below rotator and carries entire weight of antenna. **No. 37A81. NET EACH... \$4.67**

4-WIRE CONTROL CABLE

For use with Tenna-Rotor. Flat, parallel construction. **No. 4A70. PER FOOT... 4c 100 FEET... \$3.23**

KOENIG TELE-BEAMER

ANTENNA ROTATOR WITH REMOTE DIRECTION INDICATOR FOR TV-FM OR LIGHTWEIGHT AMATEUR BEAMS



Points antenna in exact direction for best reception with perfect, effortless, finger-tip control while watching picture or listening. The calibrated meter type indicator automatically follows antenna position and guides the user in pre-setting antenna to best spot for each station. Rotation speed is approximately 1 RPM through 360° in either direction. A magnetically controlled brake stops rotation instantly wherever desired. Also stops automatically at end of full rotation to prevent fouling antenna transmission line.

The rotating mechanism is contained in a completely weather-proof cast aluminum housing equipped with universal clamps for mounting on any mast from 3/4" to 2" diameter and is powered by two interference-free 24-volt induction motors. All gears are quiet operating machine cut from steel, brass and special bakelite. The antenna mast clamp is carried by a 1 1/16" diameter tool steel shaft and a built-in oilite thrust bearing. All parts are permanently lubricated and rust-proofed. Develops a reserve of power, fully ample to free itself from ice and sleet.

The control box is nicely proportioned of cast aluminum, brown wrinkle finished and fitted with rubber feet. It contains the direction indicator, two push-button direction switches and a 24-volt step-down transformer. Size, 3 7/8" high, 4" square. Operates on 110-volt, 60-cycle AC. Requires 5-wire flat control cable to rotator mechanism. Shipping weight, both units, 9 lbs. **No. 37A80. Less Control Cable. YOUR COST... \$26.43**

5-WIRE FLAT CONTROL CABLE

For use with Tele-Beamer. Brown vinyl weather-proof insulation. **No. 2B128. Per Ft... 5c 100 Ft... \$4.50 1000 Ft... \$40.80**

ROTATING BEARING BRACKET FOR HEAVY ANTENNAS TO BE USED WITH KOENIG TELE-BEAMER

Takes strain of antenna mast side-sway off of rotator. Mounts three feet or more above rotator on same supporting mast. Adjustable for antenna mast diameter 3/4" to 2". **No. 37A106. NET EACH... \$1.73**

BAKER "MONITOR" HEAVY DUTY GUYED TOWERS



Over double the strength required by U. S. government specifications for this type tower! Made of 1 1/4" hot dip galvanized steel angle, 12" triangular construction, with flat "X" cross braces that form a sturdy ladder. Mid sections are 15 feet long. Five foot top and bottom sections are tapered. Base mount is an extra strong cast iron universal joint, self leveling for any surface angle. Shipped knocked down with instructions, bolts for assembly, base, all guys and required hardware, roof top or ground anchors and 1" to 2" dia. antenna mounting. Prices are f.o.b. Evansville, Wis. Specify roof or ground mounting. (Roof-top towers not available over 70 feet).

Stk. No.	Height	Wt., Lbs.	Your Cost
50A299	25 ft.	157	\$ 32.25
50A300	40 ft.	232	51.75
50A301	55 ft.	307	71.25
50A302	70 ft.	400	90.75
50A303	85 ft.	477	110.25
50A304	100 ft.	555	129.75
50A305	115 ft.	656	149.25
50A306	130 ft.	737	168.75
50A307	145 ft.	818	188.25

BAKER 30-FT. ECONOMY GUYED TOWER

Made like the heavy duty towers above. Corner posts are 1" steel angle "X" braced and hot dip galvanized. Can be climbed and will support heavy antennas. Mast clamps adjust from 3/4" to 2" diameter. Base mount is heavy universal joint type, self leveling to any angle. Shipped flat, partially assembled—easily completed. Less guy wire and guy anchors. Wt., 100 lbs. List, \$45.00. **\$29.40**

10-FT. EXTENSION SECTION

One or two can be added to above tower to increase height when properly guyed. Wt., 30 lbs. **No. 39A3. Your Cost... \$7.84**

LEE 30-FT. TV MAST ASSEMBLY KIT



Makes three 10-ft. pieces of thin wall conduit into one rigid 30-ft. pole! Easy for one man to set up in half an hour. Kit includes special spacer cages for joining conduit, truss wire, cross arms for holding wire trusses, special hardware, upper clamp to anchor standard guy wire and the heavy duty universal foot mount illustrated below. Requires one length of each 1 1/2", 1 1/4" and 1" diameter thin wall conduit which can be secured locally.

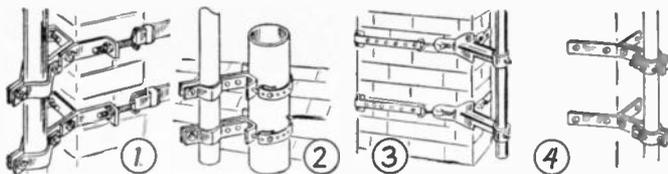
No. 36A104. \$7.32
Your Cost...

LEE UNIVERSAL MAST FOOT MOUNT



A truly heavy duty cast aluminum base for 3/4" to 2" O.D. masts. Will not loosen from vibration. Rubber gasket inside clamp helps quiet strumming on roof. Weight, 5 lbs. List Price, \$5.95. **36A103. \$3.50**
Your Cost

TV ANTENNA ACCESSORIES



① CHIMNEY MOUNT

Sturdy 1/8" steel, ribbed, welded and bolted. Heavily plated. Brackets may be spaced for maximum strength. Takes masts 3/8" to 1 1/2" diameter. Mast clearance from corner is 2 1/2". Complete with all hardware and 24 ft. banding straps. Installs without special tools. 37A113. Pr. \$1.91 10 Pair @ \$1.76

② VENT PIPE MOUNT

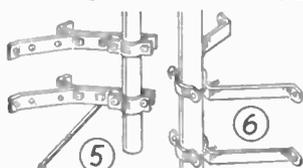
Universal strap fits round or square pipes, masts, timbers, etc., up to 6". Grips 1/2" to 1 1/2" masts securely. Heavy rust resistant steel. With all hardware. 37A56. Pr. \$2.35 10 Pair @ \$2.16

③ ALL-PURPOSE MOUNT

Rigid cast aluminum. Takes masts up to 1 3/8" dia. Mounts with banding straps on chimney or without straps on corner or flat wall. Complete with 12 ft. straps and hardware. 37A111. Pr. \$4.41 10 Pr. @ \$3.97 BRACKETS ONLY as above, less straps. 37A112. Pr. \$2.94 10 Pair @ \$2.65

④ CORNER MOUNT

Heavy gauge steel, zinc plated. Holds masts 5/8" to 1 1/2" dia. 5" clearance. Mounting holes, 1/4" diameter. 37A114. Pr. \$1.91 10 Pr. @ \$1.76

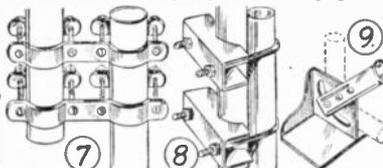


⑤ STEEL WALL BRACKETS

Very rigid, heavy duty design, with tubular brace on one bracket. Zinc plated. For masts up to 1 1/2" dia. Mounting holes, 1/4" dia. PAIR No. 37A115. 8" clearance. \$2.50 10 Pair @ \$2.30 No. 37A116. 12" clearance. 2.91 10 Pair @ 2.67 No. 37A117. 18" clearance. 3.50 10 Pair @ 3.21

⑥ ALUMINUM WALL BRACKETS

Heavy gauge hard alloy. Takes masts up to 1 1/2". Boxed in pairs with cadmium plated hardware. PAIR No. 18A446. 1 1/2" clearance. \$0.59 10 Pair @ .54 No. 18A447. 2 1/2" clearance. .81 10 Pair @ .81 No. 18A448. 6" clearance. 1.03 10 Pair @ .94



⑦ ALUMINUM COUPLER BRACKET

Joins masts of same or unequal diam. up to 1 1/2". 18A449. Pr. \$2c 10 Pair @ .75c

⑧ U-BOLT CLAMP

Aluminum bracket with cadmium plated steel U-bolt. Joins 2 masts up to 1 3/8" diameter. 18A445. Ea. .25c 10 Lots @ .22c

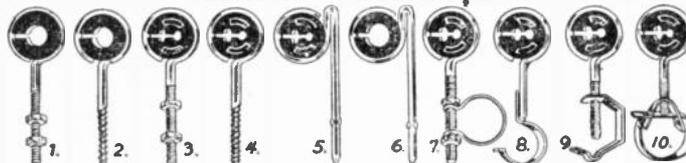
⑨ CAST ALUMINUM BASE

Takes pipe mast to 1 1/4" dia. Mounts at any angle on roof or wall. Base size, 4 1/2"x5"; 9 3/4" high. No. 37A58. Each. \$3.96

INTERLOCKING MAST SECTIONS

No. 38A102. Steel, diameter 1 1/4", 3 1/2 ft. long. Each. .79c 12 Lots. Each. .71c No. 38A103. Steel, diameter 1 1/4", 10 ft. long. Each. \$2.13 12 Lots. Each. \$1.94

LEAD-IN INSULATORS



A type for every conceivable need. Of highest quality construction. Metal parts are rust proofed and inserts are low loss polyethylene. Stock up at these low B-A prices!

Stk. No.	Type	Description	Length	Each	100 For
198992	1	1/2" Coax, 10-32 Mach. Screw	3 1/2"	6c	\$ 4.86
17A566	2	1/2" Coax, No. 14 Wood Screw	3 1/2"	4 1/2c	3.78
17A1183	2	1/2" Coax, No. 14 Wood Screw	7 1/2"	6c	5.00
198994	3	Twin Lead, 10-32 Mach. Screw	3 1/2"	5c	4.26
19A290	3	Twin Lead, 10-32 Mach. Screw	7 1/2"	7 1/2c	6.48
17A567	4	Twin Lead, No. 14 Wood Screw	3 1/2"	4c	3.24
17A1184	4	Twin Lead, No. 14 Wood Screw	7 1/2"	6c	4.86
19A291	4	Twin Lead, No. 14 Wood Screw	12"	12c	10.80
19A292	5	Twin Lead, Drive In	3 1/2"	6c	4.86
19A293	6	1/2" Coax, Drive In	3 1/2"	6c	4.86
19A294	7	Twin Lead, 1" Mast	3 1/2"	9c	8.10
19A295	7	Twin Lead, 1 1/4" Mast	3 1/2"	9c	8.10
18A1133	7	Twin Lead, 1 1/4" Mast	7"	12c	9.00
19A296	8	Twin Lead, 1" Mast—Snap-On	3 1/2"	6c	5.40
19A297	8	Twin Lead, 1 1/4" Mast—Snap-On	3 1/2"	6c	5.40
19B1019	9	Twin Lead, up to 1 3/8" Mast; also clamps on guy wire, gutters, etc.	3 1/2"	9c	7.80
19A298	10	Twin Lead, up to 2" dia. Masts	3 1/2"	12c	10.80

For 1000, one type or assorted, deduct 10% from 100 lot prices.



Stk. No.	Type	Description	Length	Each	100 For
18A1134	11	Twin Lead, 10-32 Mach. Screw	3 1/2"	16c	\$13.50
18A437	11	Twin Lead, 10-32 Mach. Screw	7 1/2"	17c	15.86
18A438	12	Twin Lead, No. 14 Wood Screw	7 1/2"	17c	15.86
18A1132	13	Twin Lead, up to 2" dia. Mast	3 1/2"	21c	18.90
18A439	13	Twin Lead, up to 2" dia. Mast	7 1/2"	26c	24.30

May be assorted with single insulators above for 1000 lot prices.

STRANDED GALVANIZED STEEL GUY WIRE



50-FT. CONNECTED COILS

Simplifies handling and measuring. Stk. No. Description Coil 10 Coils

3895	4 strands No. 20	27c	\$2.43
38103	6 strands No. 20	34c	3.15
38107	6 strands No. 18	48c	4.32
3872	#3 hollow cable	54c	4.86

GUY WIRE ON SPOOLS

Stk. No. Description Length Spool

28147	4 strands No. 20	1000'	\$4.30
28148	6 strands No. 20	1000'	5.54
28149	6 strands No. 18	500'	3.96
28150	#3 hollow cable	500'	4.55

GUYING ACCESSORIES



(A) GUY WIRE CLAMP

No. 18B145. Ea. .21c; 10 Lots. 19c

(B) SCREW EYE GUY ANCHOR

No. 18B146. Ea. .5c; 10 For. .45c

(C) MACHINE SCREW GUY ANCHOR

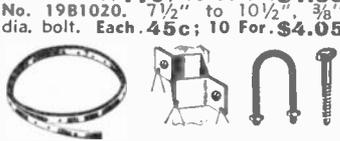
No. 19B987. Ea. .6c; 10 For. .54c

(D) TURNBUCKLES (Galv. Steel)

No. 18A384. 4" to 5 1/2", 3/16" dia. bolt. Each. .14c; 10 For. \$1.26

No. 18A386. 5 1/2" to 7 1/2", 1/4" dia. bolt. Each. .17c; 10 For. \$1.53

No. 19B1020. 7 1/2" to 10 1/2", 3/8" dia. bolt. Each. .45c; 10 For. \$4.05



(A) GALVANIZED STEEL BANDING

Strong and flexible. Perforated. Width, 3/4"; 4A84, 12' Lgths. Ea. .39c

No. 4A85. 100 Ft. Lengths. \$2.39

(B) MAST GUY CLAMPS

For securing guys to masts up to 1 1/2" diameter. 19B986. Ea. .29c 10 For. \$2.50

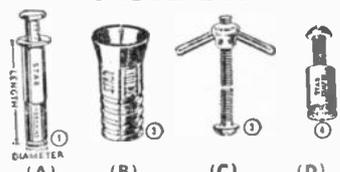
(C) STEEL U-BOLTS

For clamping masts to wood or metal. Width, 1"; length, 2 1/2". 19B983. Ea. .18c 10 For. \$1.62

(D) LAG SCREWS

Diameter, 1/4"; length, 1 1/2". With square head. 18B147. Ea. .5c 100 For. \$4.12

STAR MASONRY FASTENERS



(A) DRIVE-IN EXPANSION SHIELD

Lead sheath is expanded to grip sides of hole simply by hammering nail home. Head of sheath, not the nail, holds bracket. Sheath diameter, 1/4"; length, 1 1/2". With nail. 19A299. 10 For. 60c 50 For. \$2.64

(B) EXPANSION SHIELD FOR SCREWS

Used with size 10, 12 or 14 wood screws. Shield diameter, 5/16"; length, 1". 19A309. 10 For 35c 100 For \$3.08

(C) EXPANSION SHIELD FOR BOLTS

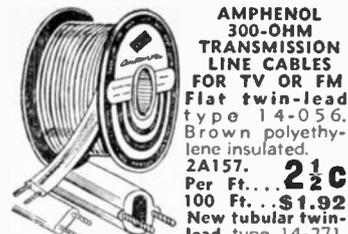
With 10-24 thread. Requires 3/8" dia., 5/8" deep hole. Less bolt. 19A311. 10 For. 50c 50 For. \$2.25

(D) SPRING WING TOGGLE BOLT

For fastening to hollow wall, tile, etc. Furnished with 1/4-20x3" bolt. 19A310. 10 For. 80c 50 For. \$3.50

TAMP-IN TOOL FOR SHIELDS

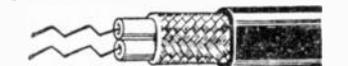
Required to "set" anchor type (C) in masonry hole. No. 19A304. 10-24 size. Each. .25c No. 19A305. 1/4-20 size. Each. .25c



AMPHENOL 300-OHM TRANSMISSION LINE CABLE FOR TV OR FM Flat twin-lead type 14-056. Brown polyethylene insulated. 2A157. Per Ft. \$1.91 100 Ft. \$192 New tubular twin-lead type 14-271.

Brown polyethylene. Minimizes wind flutter. 2B164. Per Ft. 5 1/2c 100 Ft. \$4.92

SHIELDED 300-OHM CABLE—FEDERAL K-111



Minimizes noise, snow and ghosts due to transmission line pickup. Nearby objects do not affect line impedance. Can be installed in conduit or pipe. Conductors are polyethylene insulated, copper braid shielded and weather-proofed with overall vinylite jacket. Oval cross section size 1/2x5/16". No. 2A194. Per Ft. \$12 100 Ft. \$11.25 1000 Ft. \$105.00

SHIELDED 225-OHM CABLE ANACONDA ATV-225BS



Engineered for optimum impedance match between antenna and receiver. Produces clearer, cleaner pictures. Can be installed in conduit or in the open. Conductors are 22-gauge copper-weld, polyethylene insulated, copper braid shielded, weather-proof vinylite overall. Oval cross section, 1/4x3/8". No. 2A195. Per Ft. \$13 500 Ft. \$56.55

LIGHTNING ARRESTORS



(A) JFD Type AT102. U/L approved for 300-ohm flat line. Requires no wire stripping. Mounts anywhere. No. 17B733. Net Each. \$1.32

(B) RCA Type 206X1. Positive contact made by screwing cap down on twin lead. Mounts on any size pipe. U/L approved. No. 17B241. Net Each. 65c

CERAMIC STAND-OFFS



Un glazed white porcelain. Furnished with wood screw. Clearance, 1/4". No. 18A440. For flat twin-lead. No. 18A441. For heavy oval twin-lead. No. 18A442. For 1/4" dia. coax line. No. 18A443. For 3/8" dia. coax or tubular. CHOICE, EACH. 6c 100 For. \$4.98

CHOICE, EACH. 6c 100 For. \$4.98



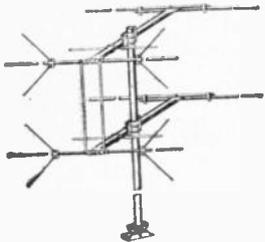
(A) Baseboard insulator. Holds twin lead neat and secure. Single hole mtg. No. 17B734. 9c Each. 8c

(B) Clear plastic stand off of low loss design. Single hole mounting. No. 17A1039. 9c Each. 8c

(C) Two-piece twin lead connector. Molded black bakelite. Installs without soldering. 10 @ 82c Each. 76c No. 18A444. Ea. 82c Each. 76c

TV and FM Antennas and Accessories

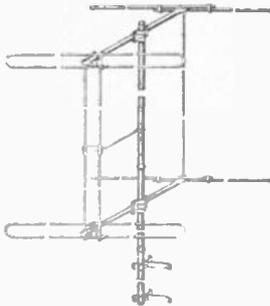
Low Cost Taco "Lazy H" Antenna for Fringe Areas



Covers all TV channels and FM. Uses the newly developed wing type driven elements with individual high and low band reflectors, a type of construction gaining popularity in "tough" areas because of outstanding performance. Gives a true single lobe pattern on all channels and requires rotation to receive stations from different directions. With two 5 ft. mast sections. Model 912, less lead. Wt. 8 lbs.

No. 38A94. Net Each. **\$14.70**

Single Channel Antenna Taco Model 995



An economical stacked array for the "booster" areas where ordinary antennas fail to deliver. Gives the ailing TV signal a real lift because of single channel "peaking" at the factory. Superbly constructed of the very finest materials. Supplied with 15 ft. of 1 1/4" heavy aluminum mast, two 7" wall brackets, lead in insulators and hdwe. Wt. 14 lbs. When ordering, specify channel.

No. 38A95. Net Each. **\$23.52**

DIRECTOR FOR MODEL 995—For still higher gain and increased rejection of noise. With full instructions. Specify channel when ordering.

No. 38A104. NET EACH. **\$5.58**

ALL CHANNEL BAYS



Popular "X" conical type with reflector. For construction of stacked arrays. Bays can be added to obtain desired signal. Highest quality construction of 1/2" aluminum tubing with 1 1/4" boom, aluminum alloy castings and high impact insulation. Simply unfold and tighten nuts—no loose parts. Mast clamp fits up to 2" pipe. Packed two bays per carton complete with one pair of 1/4 wave coupling bars. Wt. 11 lbs.

No. 38A100. **\$6.45** 6 @ **\$5.95**
2 @ Each

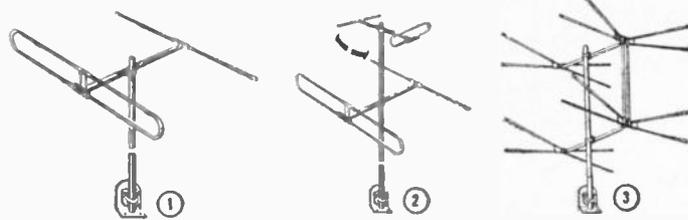
LOW CHANNEL BAYS



Folded dipole and reflector. Otherwise same construction and use as "X" type above. Packed two bays per carton with one pair of 1/4 wave coupling bars. Wt. 11 lbs.

No. 38A101. **\$5.78** 6 @ **\$5.25**
2 @ Each

SPECIAL VALUE TV ANTENNAS



(1) **Folded Dipole and Reflector.** Covers low band, channels 2-6. Pre-assembled—no loose hardware to delay and confuse installation. Insulation is rugged bakelite. Complete with 5 ft. steel mast and all-angle base mount. Wt. 7 1/4 lbs. Less lead.

No. 38A92. Each. **\$4.95** 6 Lots **\$4.50**
Each

(2) **High and Low Band Folded Dipole and Reflector.** For all channels 2-13 and FM. Pre-assembled and easily set up. With 5 ft. steel mast, twin lead jumper and all-angle base. Sections orient separately. Wt. 8 lbs. Less lead.

No. 38A93. Each. **\$6.45** 6 Lots **\$5.95**
Each

(3) **All Band Stacked Conical.** Provides high signal pickup on all channels with minimum noise and less fading. Reduces ghost reflections. Used widely in fringe areas. Elements are aluminum, cross arms and brackets are plated steel. Can be assembled in a jiffy. Less mast and 300 ohm lead.

No. 38A91. Each. **\$12.83** 6 Lots **\$11.66**
Each

TELREX CONICAL TV ARRAYS HIGH GAIN—FOR FRINGE AREAS

Designed to cover all television channels 2-13 with full high efficiency on each channel. The unusual broad-band performance is due to the inherent characteristics of the "X" conical design.

MODEL 8X-TV STACKED ARRAY

A super, high-gain, 4 bay system for the ultimate in all-channel, fringe area, television reception. Consists of aluminum antenna elements, phasing links, booms, element clamps and universal mounting brackets to attach bays to mast. Supplied with full instructions, less mast and lead-in. Wt. 16 lbs. A 12 ft. mast is required for proper stacking.

No. 38A96. NET EACH. **\$44.10**

MODEL 4X-TV STACKED ARRAY

For good all-channel reception in the fringe areas. Consists of aluminum elements, etc., as above for a 2 bay system. With instructions, less mast and lead-in. Wt. 9 lbs. Requires a 6 ft. mast for mounting.

No. 38A97. NET EACH. **\$21.17**

ANTENNA MAST SECTIONS

DURAL TUBING. 1 1/2" dia. with .065" wall thickness, in 6 ft. lengths. For use with the Telrex arrays above or any other antenna requiring an unusually strong, yet light weight mast. Wt. 2 lbs.

No. 38A98. NET EACH. **\$2.35**

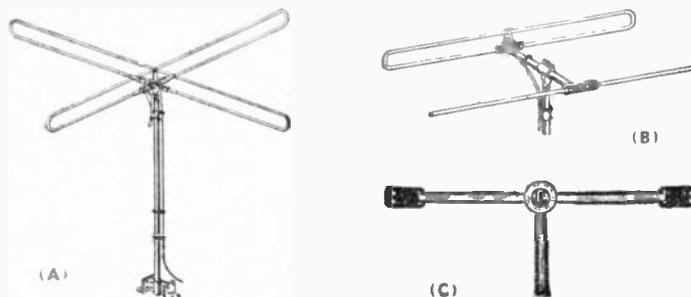
MAST COUPLING. Necessary for joining sections of the 1 1/2" dia. tubing above.

No. 38A99. NET EACH. **53c**

STEEL TUBING. 1 1/4" dia., in 5 ft. lengths. Weatherproofed for permanent outdoor service. One end is tapered to telescope sections together without external coupling accessories. Wt. 2 1/2 lbs.

No. 38A58. NET EACH. **\$1.91**

FM ANTENNAS-FREQ. RANGE 88-108 MC



(A) **WARD MODEL FMT-56 NON-DIRECTIONAL FOLDED TURNSTILE.** Designed to pick up FM stations from all directions with equal high efficiency. Furnished with a 5 ft. steel mast 1 1/4" dia., universal mtg. base and 60 ft. of 300 ohm lead. Recommended where signal levels are generally low and where stations are in different directions.

No. 38B26. NET EACH. **\$10.88**

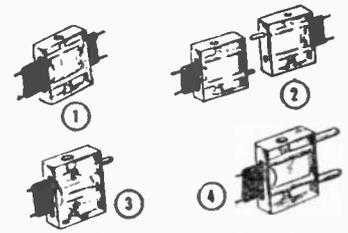
(B) **WARD MODEL FM-55 FOLDED DIPOLE WITH REFLECTOR.** For single direction pick-up. Greatly improves FM reception and reduces interference. Has a 5 ft. steel mast 1 1/4" dia., univ. mtg. base and 60 ft. of 300 ohm lead.

No. 38B54. NET EACH. **\$9.53**

(C) **FLEXIBLE FM ANTENNA.** Made of 300 ohm twin lead. For use indoors under rug, on wall, etc.; also in attic or outdoors. Flexible folded dipole element has flat insulators at ends and 10 ft. 300 ohm lead connected at center.

No. 31A62. NET EACH. **\$1.15**

TWIN LEAD CONNECTORS



(1) TWIN LEAD SPLICER

Polystyrene solderless connector. Holds wires by tightening 2 set screws.

No. 14B17. Ea. **17c** 10 Lots Ea. **15c**

(2) **TWIN POLARIZED CONNECTOR**
Polystyrene. Designed for standard 300 ohm FM-TV leads.

No. 14B18. Pr. **53c** 10 Pairs Ea. **45c**

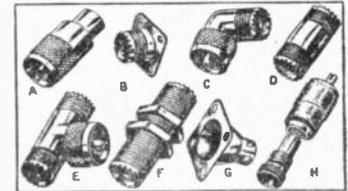
(3) **TWIN LEAD BASE MOUNT**
For terminating antenna leads. Mates with half of polarized connector above.

No. 14B19. Ea. **29c** 10 Lots Ea. **25c**

(4) **TWIN LEAD SOCKET PLUG**
Pins are spaced 1/2 inch to fit crystal sockets or octal sockets.

No. 14B20. Ea. **28c** 10 Lots Ea. **24c**

AMPHENOL COAXIAL FITTINGS



Stock No.	Fig.	Mfg. No.	Descr.	Each
18A1122	A	83-15P Plug		.82
18A1123	A	83-776 Plug		1.32
18A1124	B	83-1R Recept.		1.21
18A1125	C	83-1AP Angle		1.46
17B193	D	83-1J Jct.		1.14
18A1127	E	83-1T "T"		1.80
18A1128	F	83-1F		1.73
18A1129	G	83-1H 8U		.14
18A1130	C	83-765 29		.36
18A1131	H	83-168 Adapt.		.21

BARGAIN SPECIALS

300 OHM TWIN LINE. Top quality, brown polyethylene ins.

No. 4A67. Per 100 Ft. **\$ 1.19**
1000 Ft. **10.49**

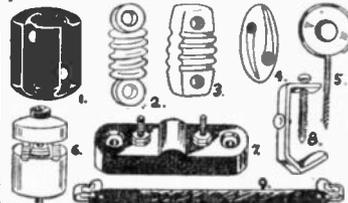
RG59/u-73 OHM COAX. Top quality—Fresh, New.

No. 4A68. Per 100 Ft. **\$ 4.45**
1000 Ft. **41.50**

TURNBUCKLES. Aircraft quality.

19A655. 1600 Lb. Tension. Ea. **10c**
19A656. 2100 Lb. Tension. Ea. **15c**
19A657. 4600 Lb. Tension. Ea. **25c**

AERIAL ACCESSORIES



(1) (No. 500) Strain Insulator

No. 18A60. Ea. **9c** 10 For **85c**

(2) (3 inch) Glass Aerial Insulator

No. 18A58. Ea. **7c** 10 For **60c**

(3) (2 1/2 inch) White Porc. Ins.

No. 18A55. Ea. **4c** 100 For **\$3**

(4) (1 1/2 inch) Airplane Insulator

No. 18A59. Ea. **5c** 10 For **45c**

(5) Screw Eye Ins. (White Porc.)

No. 18A56. 3 Inch. Ea. **6c**

10 For **50c**

No. 18A57. 7 Inch. Ea. **7c**

10 For **60c**

(6) Nail Knob (White Porc.)

No. 18A54. Ea. **4c** 100 For **\$3**

(7) Lightning Arrestor (Std. Type)

No. 3A121. Each. **18c**

(8) Ground Clamp (1 3/4 inch)

No. 18A53. Ea. **8c** 10 For **70c**

(9) Lead-in Strip (12 inch)

No. 18A64. Ea. **6c** 25 for **\$1**

Picture Tubes and Magnifiers-TV Parts

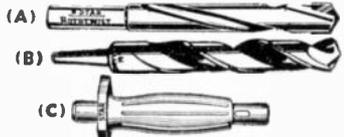
FOR TV INSTALLERS WHEELER SOUND- POWERED HANDSET



No batteries required. Has remarkable speech fidelity. Operates over two conductor or single wire ground return circuit. Durably constructed of molded black phenolic, with 3 1/2 ft. rubber cable and rubber insulated clips for quick connection to line.

No. 37A50. Your Cost Each..... **\$8.57**

STAR MASONRY DRILLS



(A) FOR ROTARY DRILLS
Carbide tipped and spiral fluted. Used with electric or hand tools. Each No. 19A301. 1/4" Dia., 4" Lgth. \$1.41
No. 19A302. 3/8" Dia., 4" Lgth. 1.70
No. 19A303. 1/2" Dia., 6" Lgth. 2.12

(B) HAMMER TYPE
Drills straight sided hole. Much longer life than 4-point type and can be resharpened. For use with handle Fig. (C).

(C) RUBBER GRIP DRILL HOLDER
For use with Hammer Type Drills above.

No. 19A300. Each..... **\$2.70**

SCOTCH NO. 33 ELECTRICAL TAPE

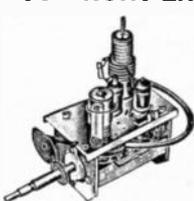
Black vinyl plastic. Widely used by TV installers to wrap transmission line joints for weather proofing. Also serves to bind line to stand offs to prevent sagging of wire. Molds to any surface and withstands flame, oils, water, acid, alkalis and other chemicals. Remains flexible at low temperatures. Dielectric strength, 7000 volts per thickness. Width 3/4". In 66 ft. rolls.
No. 20B96 \$1.50 12 Rolls \$135
Per Roll..... Each.....

MALLORY TV SERVICE ENCYCLOPEDIA

Here's what you get—complete tube complements, IF alignment data, circuit references, original part numbers, replacement part numbers, Rider's references—a complete encyclopedia of television replacement data designed to help you service all popular TV sets.

No. 16B403. A Big Value..... **35c**

RCA 201E1 TV FRONT END TUNER



Designed especially for use with stagger tuned IF's. Includes the RF amplifier stage, converter stage, oscillator stage, fine tuning control, 12 channel switch,

converter transformer and all their aligning adjustments. With tubes and instructions.

No. 14A199. Net Each. **\$37.63**

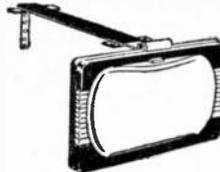
FILTERS AND MAGNIFIERS



(1) TELEVISION GLARE FILTER

Scientifically tinted to achieve maximum clarity, heighten contrast and eliminate eye strain by reducing glare. Can be used with any TV set—fastens directly to screen of picture tube and can be cut to exact size with scissors. For all screen sizes.

No. 20A851. 7-INCH..... \$.98
No. 20A852. 10-INCH..... 1.71



(2) WALCO TELE-VUE-LENS WITH REMOVABLE GLARE FILTER

Gives bigger, brighter and clearer images without distortion—magnifies up to 4 times if desired. Overhanging bracket is adjustable in all directions for centering and focusing. Installs on all types of cabinets without screws. Will not mar finish or interfere with controls. Glare filter slides in or out in a jiffy. Smart "decorator" styling actually adds beauty to any set.

Stock No.	Picture Tube	Overall Size	Weight	Price
35A104	Up to 7 Inch	10"x13"	10 Lbs.	\$11.97
35A105	Up to 10 Inch	12"x16"	17 Lbs.	17.97
35A106	Up to 12 Inch	13"x18"	23 Lbs.	23.97

(3) ATLAS "TEL-OPTIC" LENS ON FLOOR STAND FOR UP TO 12-INCH PICTURE TUBE

Adds pleasure and comfort to your television viewing. Enlarges pictures 2 to 3 times—gives clearer pictures with less eye strain—has no distortion at any angle—adjustable height accommodates all console and table model sets. Stand has chrome plated steel stem, "Velvet-action" adjustment and mahogany crackle finished base. Lens size 15 1/2"x10 1/2". Wt. 32 lbs.

No. 34B9. YOUR COST..... **\$27.04**

TELEVISION PICTURE TUBES



We ship none but new, first quality picture tubes—always at lowest current prices. Fully Guaranteed.

No. 36B63	7JP4	Ea. \$16.88	No. 50A273	12LP4	Ea. \$32.30
No. 36B54	8PP4	Ea. 20.85	No. 50A291*	12KP4	Ea. 36.45
No. 36B79	10BP4	Ea. 26.00	No. 50A275	16AP4	Ea. 55.88
No. 50A290*	10FP4	Ea. 27.50			

*Raytheon types 10FP4 and 12KP4 with aluminized "daylight" screen are interchangeable with types 10BP4 and 12LP4 respectively, but require no ion trap.

GENUINE RCA TV COMPONENTS



The major TV replacements in 214 sets of 38 manufacturers. Used by servicemen and builders. For direct view picture tubes including the 16-inch 16AP4. Ask for the "RCA Component Directory for TV Receivers"

Stock No.	RCA No.	Description	Net Each
14A355	201D1	Deflecting Yoke	\$ 4.41
14A322	201D3	Deflecting Yoke	8.76
14A323	*201D12	Deflecting Yoke	4.41
14A324	201R1	Width Control	.47
14A325	201R3	Hor. Linearity Control	.59
14A326	*201R4	Width Control	.71
14A327	*201R5	Hor. Linearity Control	15.29
13B113	201T6	Power Trans. (30 Tube)	11.17
13B116	201T8	Power Trans. (21 Tube)	.76
14A328	201X1	Yoke Mtg. Hood for 201D1-D3-D12	4.41
14A329	202D1	Focusing Coil	3.82
14A330	*202D2	Focusing Coil	1.23
14A331	203D1	Ion Trap Magnet (Field Coil Type)	1.06
14A332	*203D3	Ion Trap Magnet (PM Type)	.12
14A333	204L1	Hor. Osc. and Sync. Control	2.94
14A334	204L1	Filament Choke	2.94
14A335	*204T2	Vert. Defl. Output Trans.	2.65
14A336	*204T9	Vert. Defl. Output Trans.	2.29
14A337	*208T1	Hor. Blocking Osc. Trans.	1.62
14A338	*208T2	Vert. Blocking Osc. Trans.	1.35
14A339	*208T8	Hor. Sync. Discr. Trans.	1.47
14A340	*208T9	Vert. Blocking Osc. Trans.	3.29
14A341	211T1	Hor. Defl. Out. and 10 KV. HV. Trans.	3.29
14A342	211T3	Hor. Defl. Out. and 9KV. HV. Trans.	5.59
14A343	*211T5	Hor. Defl. Out. and 13.5 KV. HV. Trans.	

*Used with 16 inch 16AP4 and other picture tubes.

STOP TV JITTERS!

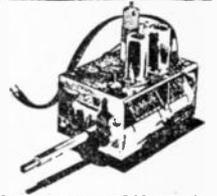


Sola Model CVA Constant Voltage Transformer

Banishes flicker and distortion from Television screen due to line voltage variations caused by home appliances or other electric powered devices. Unit plugs into AC socket and has outlet for the TV power cord. Turns on automatically—no extra switching. Input line voltage may vary from 95 V. to 130 V., but variation at output is less than 3%. Power rating, 300 VA. Size 9 1/8 x 4 1/2 x 7 1/4" high. Wt. 26 lbs.

No. 31B31. Your Cost..... **\$30.00**

12 CHANNEL FRONT END



"THE STANDARD TUNER"

The exact turret tuner used in many brand name TV sets—Admiral, Airing, Bendix, Capehart-Farnsworth, Fisher, Olympic, Philco, Stewart-Warner, Packard Bell—and many others. An important profit item for servicemen—a complete pre-tuned "front end" for the builder. Features interchangeability of channel inductors—individual oscillator adj. for each channel—no tracking difficulties—high sensitivity. Complete with 6AG5 RF amp., one 6J6 osc. and mixer and full instructions.

No. 36B42. Net Price..... **\$39.69**

R.F. H.V. POWER SUPPLY COILS

HORIZONTAL TYPE (Illustrated). Supplies high voltage for 5" and 7" TV or scope tubes. To be used with a 6V6 oscillator and 1B3 rectifier. With diagram.

Net Each..... **\$2.91**

VERTICAL TYPE (Not Illustrated). For 10" and 12" TV or scope tubes. Also supplies fil. voltage for 1B3 rect. with diagram for 6V6 oscillator.

No. 16B428. Net Each..... **\$2.91**

VOLTAGE DOUBLER KIT

A complete assembly kit for converting the RCA 630 type chassis for approx. 12000 volts to operate a 16" 16AP4 tube. Includes 1B3 tube plastic insulating sleeve and rim and set of brackets for the 16" metal tube. No. 37A120.

Net Each..... **\$23.52**

PLASTIC RIM & SLEEVE

For insulating the metal shell of a 16AP4 tube.

No. 37A121. Per Set..... **\$4.17**

RCA IF-VIDEO COILS

Stock No.	RCA No.	Description	Net Each
14A344	201K1	Sound IF's	\$1.29
14A345	202K1	Conv. Trans.	1.29
14A346	202K2	Picture IF	1.38
14A347	202K3	Picture IF	1.06
14A348	202K4	Cath. Trap	1.29
14A349	203K1	Discr. Trans.	1.62
14A350	202L1	Picture IF	.38
14A351	203L1	Peaking Coil	.26
14A352	203L2	Peaking Coil	.26
14A353	203L3	Peaking Coil	.26
14A354	203L4	Peaking Coil	.26

Quality WIRE & CABLE

FOR CONSTRUCTION AND REPLACEMENT USE IN TV AND RADIO

Belden Quality MAGNET WIRE



Exact B-S gauge, best quality, uniform insulation. Continuous length on each spool. You are safe with Belden for any need. Single cotton covered enamel replaces the old type double cotton covered. Single Nyltlex is the replacement for Double Silk covered.

1/2-Lb. Spools (*1/4-Lb.)

Bare Enamel		Single Cotton Covered Enamel		
Size	No. Each	No.	Each	
16	19A601	41c	19A271	47c
18	19A602	41c	19A272	50c
20	19A603	41c	19A273	53c
22	19A604	41c	19A274	56c
24	19A605	42c	19A275	62c
26	19A606	45c	19A276*	38c
28	19A607	48c	19A277*	42c
30	19A608	56c	19A278*	51c

*1/4-Lb. Spools Only

32	19A609*	32c	19A279*	80c
34	19A610*	36c	19A280*	80c
36	19A611*	44c	19A281*	96c
38	19A612*	56c		
40	19A613*	81c		

SINGLE NYLTLEX COVERED ENAMEL

1/2-Lb. Spools		1/4-Lb. Spools			
Size	No. Each	Size	No. Each		
22	19A282	66c	24	19A283	\$7.75

26	19A284	47c	32	19A287	.80
28	19A285	54c	34	19A288	1.01
30	19A286	68c	36	19A289	1.50

The table below tells the number of feet per lb. of standard magnet wire.

Size	Enamel	S.C.E.	S.N.E.
14	80	78	.....
16	134	122	.....
18	200	194	.....
20	320	308	.....
22	500	482	496
24	800	752	780
26	1276	1180	1236
28	2020	1832	1948
30	3220	2840	3080
32	5080	4360	4808
34	8060	6424	7568
36	12800	9700	11416
38	20280	.....	.....
40	32200	.....	.....

ANTENNA WIRE

Enameled or Tinned

STRANDED BARE COPPER

14-Gauge, 7x22 Stranded

Stock No.	Feet Per Coil	Wt. Lb.	Your Cost Each 10 Lbs
18A49	75'	1.05	\$0.67 58c
18A50	100'	1.4	.86 73c
2A14	1000' Sp. 14		6.89

16-Gauge, 7x24 Stranded

18A51	75'	.064	\$0.48 41c
18A52	100'	.085	.60 52c
2A15	1000' Sp. 8.5		4.56

STRANDED ENAMELED COPPER

12-Gauge, 7x20 Stranded

2A16	100-Ft. Coil		\$1.76
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SOLID BRIGHT TINNED COPPER

High quality wire excellent as busbar hookup.

Ca. No.	25-Ft. Coils Each	100-Ft. Coils Each		
18	18A36	20c	18A37	\$0.45
16	18A38	22c	18A39	.71
14	18A40	24c	18A41	.81
12	18A42	34c	2A10	1.14
10	18A43	48c	2A11	1.59

SOLID ENAMELED COPPER

Low-Loss Wire used for permanent aeriels and for coils in Transmitters, Receivers, etc.

Ca. No.	25-Ft. Coils Each	100-Ft. Coils Each		
14	18A44	24c	18A45	\$0.81
12	18A46	35c	2A12	1.15

Solid tinned and solid enameled available in continuous lengths over 100 ft. Add "C" to Stock No. and base price on 100-Ft. Coils Above.

RECEIVING and TRANSMISSION LINE CABLES For TELEVISION, FM and AMATEUR RADIO

AMPHENOL TWIN TRANSMISSION LINE

Highly efficient weather resistant line with polyethylene dielectric of full thickness edge-to-edge design.

RECEIVING AND LOW POWER TRANSMITTING

① 300 OHMS STANDARD TYPE. For FM and Television receivers, also low power transmitters. No. 2A157.

PER FT. 2 1/2c 100 FT. \$1.92

② 300 OHMS NEW TUBULAR TYPE. For Television receivers in locations of low signal strength. Tubular construction has low wind resistance, great strength, and resists the effects of moisture and dirt. Conductors are 7 strands of #28 copper wire. 5/16" O.D. No. 2B164. PER FT. 5 1/2c 100 FT. \$4.92

① 150 OHMS. For experimental applications. No. 2A158. PER FT. 2 1/2c 100 FT. \$2.12

① 75 OHMS. For applications requiring low impedance. Matches dipoles of 72 ohms. No. 2A159. PER FT. 2 1/2c 100 FT. \$1.94

TRANSMITTING

① 75 OHMS. For amateur transmitting antenna systems. Handles a full kilowatt. No. 2A178. PER FT. 8c 100 FT. \$7.06

② 300 OHMS TUBULAR TYPE. Conductors supported in wall of hollow tube of polyethylene. Tubular shape eliminates wind flutter and minimizes effects of moisture. Conductors are 7 strands No. 26 copper wire. Rated at full kilowatt at 30 Mc. No. 2A192. PER FT. 7 1/2c 100 FT. \$7.06

③ 300 OHMS COPPER CLAD. Flat type with two size 16 copper clad conductors. Desirable for flat top portion of amateur antenna and long down leads or other requirements where strength is needed. No. 2A193. PER FT. 7 1/2c 100 FT. \$7.06

FEDERAL K-111 SHIELDED 300-OHM LINE SOLVES THE TV LEAD-IN PROBLEM BY IMPROVING THE SIGNAL-TO-NOISE RATIO

Minimizes noises, "snow" and "ghosts" due to transmission line pickup. Protects against electrical interference of auto ignition, street-cars, fluorescent lights, neon signs, etc., where antenna is up in the clear but lead-in must pass close to the noise source. Also guarantees constant 300-ohm line impedance and minimizes line loss as nearby objects do not affect line impedance. Capacitance per foot, 4.2 mmf. Attenuation per 100 ft. at 50 MC, 2.4 db.; at 100 MC, 3.4 db.; at 200 MC, 4.6 db. Supplied in continuous lengths up to approximately 250 ft. Oval cross section, 1/2x5/16". No. 2A194. PER FOOT 12 1/2c 100 FT. \$11.25 FOR 1000 FT. \$105.00



ENAMELED COPPERWELD Antenna Wire

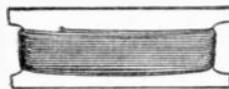


Being three times the strength of ordinary copper wire, it does not stretch nor sag. Copper coating provides low RF resistance, and enamel prevents corrosion. Available in continuous lengths of 100 ft. and over. Quantities up to 500 ft. based on 100-ft. price. No. 14 supplied bare copper only

Cat. No.	B & S Gauge	Per Lb.	Per 100 Ft.	Per 500 Ft.
2A160	10	34 1/2	\$2.62	\$12.05
2A161	12	54	1.71	7.83
2A162	14	85	1.01	4.56

ANTENNA HANKS Indoor Aerial Wire

EXTRA FLEXIBLE



17A290	25-Ft. Coil	\$0.16
18A18	100-Ft. Coil	.44
2A1	500-Ft. Coil	1.84

Antenna Loop



Replaces antenna coil on most any type set. Good pick-up and selectivity. No. 16A246. Special, Ea. 45c See Pages 29 and 30 for Antenna Accessories used in TV, FM and Amateur installations.

AUTO RADIO LEAD-IN



Consist of size 28 tinned steel solid conductor; cellulose yarn braid; polyethylene insulation, tinned copper braid shield; and black vinyl plastic jacket over-all. Nominal capacitance 15 mmf. per foot. 2A133. Per Ft., 6c; 100 Ft., \$4.93

SHIELDED PRIMARY WIRE



For use on battery leads, auto radio and other installations which must be shielded from high tension system radiations. Conductor is tinned copper stranded; cellulose wrapped and rubber insulated. Cotton braid; lacquer coating; and tinned copper braid shield over-all. 2A131. Per Ft., 5c; 100 Ft., \$3.67

TELEVISION POWER SUPPLY CORD



① Belden 8874. As used in most TV receivers. #18 POSJ-64 flexible all rubber 6-ft. brown lamp cord with special rubber connector on one end and soft rubber plug on the other. U/L approved. No. 16B539. EACH 42c
② Belden 8125. Male connector. Flush mounting. For use with above. No. 16B540. EACH 11c

PHALO THERMOPLASTIC HOOK-UP WIRE

Underwriters' Approved high quality thermoplastic insulated hook-up wire for use in radio receivers, transmitters, test instruments, and all other types of electronic equipment. Has high dielectric strength, resistance to acids, alkali, oils and moisture. Withstands 80° C temperature. Has tinned copper conductors. Strips easily and clean. Available in Black, Red, Blue, Green, Yellow and White. Specify color wanted.

5000-Volt Breakdown Voltage SIZE 20—SOLID TYPE 12001

No. 21A1010.	25-Ft. Coil	\$0.15
No. 21A1011.	100-Ft. Coil	.51
No. 2A2.	1000-Ft. Coil	4.23

SIZE 20—STRANDED TYPE 12007

No. 21A1012.	25-Ft. Coil	\$0.19
No. 21A1013.	100-Ft. Coil	.65
No. 2A32.	1000-Ft. Coil	5.46

SIZE 18—SOLID TYPE 11803

No. 22B36	25-Ft. Coil	\$0.19
No. 22B37.	100-Ft. Coil	.64
No. 2A36.	1000-Ft. Coil	5.37

SIZE 18—STRANDED TYPE 11810

No. 22B11.	25-Ft. Coil	\$0.28
No. 22B12.	100-Ft. Coil	.93
No. 2B7.	1000-Ft. Coil	7.72

10,000-Volt Breakdown Voltage SIZE 20—SOLID TYPE

No. 22B13.	25-Ft. Coil	\$0.24
No. 22B14.	100-Ft. Coil	.79
No. 2B8.	1000-Ft. Coil	6.60

SIZE 20—STRANDED TYPE

No. 22B38.	25-Ft. Coil	\$0.27
No. 22B39.	100-Ft. Coil	.90
No. 2B8.	1000-Ft. Coil	7.49

Turbo-Spaghetti-Flexible Extremely Long Lasting Ideal All-Purpose Insulation

← 21A1000—1MM. Black or Yellow. Per Length 10 for \$1.10
← 21A1001—2MM. Black or Yellow. Per Length 10 for \$1.10
← 21A1002—3MM. Black or Yellow. Per Length 10 for \$1.35
← 21A1003—5MM. Black or Yellow. Per Length 10 for \$2.25
← 21A1004—10MM. Black or Yellow. Per Length 10 for \$4.95

Illustrations are exact diameters — 42-inch lengths.

Spaghetti, Assorted



A neat bundle of 20 pieces, each 9" long, varnished high grade tubing in assorted popular sizes. No. 18A69. Per Assortment. 15c

TWIN INTERCOM CABLE



For Systems where shielded conductors are required. Size 20 flexible stranded tinned copper conductors. Parallel in construction, color coded; each with vinyl plastic insulation and tinned copper shield. Vinyl plastic jacket overall. 135x.222 O.D. No. 2B130. Per Ft. 6c
100 \$5.22 1000 \$47.50 Ft. Ft.

Genuine BELDEN CABLES

ESPECIALLY DESIGNED FOR PUBLIC ADDRESS MICROPHONE, INTERCOM, and AUTO RADIO USES

MICROPHONE CABLES FOR CRYSTAL, CARBON AND LAPEL MIKES

WITH PLASTIC JACKET



Stranded flexible conductor, polyethylene insulated with tinned copper braid shield and chrome vinyl plastic jacket over-all.

Type 8401. For crystal, ribbon and carbon mikes. Cap. 25 mmf. per ft. Type 8411. For lapel mikes. Cap. 40 mmf. per ft.

Type 8422. For carbon and low impedance mikes. Cap. 32 mmf. per ft.

No.	Stock	Per 100	
Type Cond. O.D.	No.	Ft.	Ft.
8401	1 .200	2A101	5 1/2 c \$4.41
8411	1 .140	2A102	4 c \$3.14
8422	2 .225	2A104	6 c 5.29

WITH RUBBER JACKET

Rubber Jacket overall. 8410 cap. 33 mmf. per foot, 8412 63 mmf. and 8423 54 mmf., otherwise as above.

No.	Stock	Per 100	
Type Cond. O.D.	No.	Ft.	Ft.
8410	1 .245	2A78	7 c \$5.66
8412	2 .280	2A79	7 c 5.44
8423	3 .280	2A105	8 c 5.88

MULTIPLE CONDUCTOR

For power and interconnecting cords on receivers, electronic devices, remote controls, press-to-talk mike circuits, etc.

SHIELDED—RUBBER JACKET OVER-ALL



Stranded size 20 conductors; color coded rubber insulation; cotton wrap, tinned copper braid shield and rubber jacket over-all.

No.	Stock	Per 100	
Type Cond. O.D.	No.	Ft.	Ft.
*8424	4 .305	2A106	10 c \$7.35
8425	5 .335	2A107	11 c 8.53
8426	6 .355	2A108	14 c 11.61
8427	7 .370	2A109	15 c 11.91

*Also used as microphone cable.

UNSHIELDED—RUBBER JACKET OVER-ALL



All have stranded size 18 conductors except 5 conductor cable which has 3# 20 and 2# 18. Conductors are color coded, rubber insulated with cotton wrap and rubber jacket over-all.

No.	Stock	Per 100	
Type Cond. O.D.	No.	Ft.	Ft.
8452	2 .245	2A110	4 c \$3.17
8453	3 .275	2A111	5 c 3.97
8454	4 .265	2A112	6 c 4.56
8455	5 .285	2A91	7 c 6.11

COTTON BRAID OVER-ALL



All conductors are stranded size 22, with the exception of 6, 7, 8 and 9 conductor cables in which 2 of the conductors are size 16; all are color coded, vinyl plastic insulated, and cabled together with brown cotton braid over-all.

No.	Stock	Per 100	
Type Cond. O.D.	No.	Ft.	Ft.
8443	3 .135	2A113	3 1/2 c \$2.65
8444	4 .148	2A114	4 c 3.23
8445	5 .162	2A115	5 c 3.97
8446	6 .218	2A116	7 c 5.59
8447	7 .235	2A117	8 c 6.18
8448	8 .240	2A118	9 c 6.61
8449	9 .260	2A119	9 c 7.06

INTERCOM AND PA SYSTEM CABLES

For station-to-station and extension wiring.



CABLED IN PAIRS

Conductors are size 22 solid tinned copper, color coded; and vinyl plastic insulated. Cable has brown cotton braid over-all.

No.	Stock	Per 100	
Type Cond. O.D.	No.	Ft.	Ft.
8740	2 .115	2A94	2 c \$1.76
8741	4 .175	2A95	4 c 3.23
8742	6 .195	2A96	5 c 4.12
8743	12 .275	2A97	7 c 5.14
8744	18 .320	2A98	9 c 7.50
8745	30 .415	2A99	15 c 11.91



SHIELDED TWO AND THREE CONDUCTOR CABLE

Conductors are tinned copper size 22 stranded, vinyl plastic insulated, and color coded. Cable has brown cotton braid over-all.

Type 8734 has one tinned copper shielded conductor, and two unshielded conductors.

Type 8735 and 8737 have tinned copper shield and cotton braid over-all.

No.	Stock	Per 100	
Type Cond. O.D.	No.	Ft.	Ft.
8734	3 .155	2A88	6 c \$5.08
8735	3 .170	2A87	7 c 5.29
8737	2 .155	2A86	5 c 4.12



Conductors are bare copper size 22 solid. Have heavy formvar enamel coating and waxed cotton braid. Color coded. Cabled in pairs with tinned copper braid shield. Type 8739 has brown braid overall.

No.	Stock	Per 100	
Type Cond. O.D.	No.	Ft.	Ft.
8738	2 .125	2A90	3 c \$1.99
8739	2 .160	2A89	4 c 3.09



Conductor of solid size 18 bare copper. Heavy formvar enamel coated. Color coded. Tinned copper braid shield overall.

No.	Stock	Per 100	
Type Cond. O.D.	No.	Ft.	Ft.
8799	2 .165	2A127	4 c \$2.79

TELEPHONE WIRE A "PARANITE" PRODUCT



Fine for Inter-com and Public Address Hook-Up, either indoors or outside. No. 19 solid; 2 and 3 conductor twisted.

DRY BRAID INSIDE TYPE			
No. Cond.	Ft.	100 Ft.	1000 Ft.
2A139	2	3 c \$2.50	\$20.63
2A140	3	4 c 3.75	\$30.95

Weatherproof Braid Outside Type

No. Cond.	Ft.	100 Ft.	1000 Ft.
2A141	2	3 c \$2.45	\$20.18
2A142	3	4 c 3.65	\$30.28

TEST PROD WIRE



High-voltage lead wire for use where excellent dielectric properties of the insulation and extreme flexibility and limpsness of the cable are essential consideration. Conductor is size 18 tinned copper stranded extra flexible with cotton wrap and rubber insulation over-all. Red or Black available.

Rating	Type	Stk. No.	25 Ft.	Price
V.	5000	8899	22A15	25 Ft. \$0.42
	5000	8899	22A16	100 Ft. 1.47
	10000	8898	22A20	25 Ft. .68
	10000	8898	22A21	100 Ft. 2.35

PUSH-BACK AND HOOK-UP WIRE

Excellent general purpose wire consisting of a tinned copper conductor. Please Specify Color wanted: Black, Green, Blue, Red, White, and Yellow available.

WITH CELLULOSE ACETATE BRAID



Heavy Cellulose Acetate yarn wrap and braid overall. Lacquer coated. 1000-volt breakdown voltage.

SIZE 20—SOLID TYPE 8941	
No. 22A1	25-Ft. Coil \$0.26
No. 22A2	100-Ft. Coil ..... .96
No. 2A3	1000-Ft. Spool 7.87

SIZE 18—SOLID TYPE 8945	
No. 22A5	25-Ft. Coil \$0.30
No. 22A6	100-Ft. Coil 1.12
No. 2A5	1000-Ft. Spool 9.55

SIZE 20—STRANDED TYPE 8943	
No. 22A3	25-Ft. Coil \$0.29
No. 22A4	100-Ft. Coil 1.03
No. 2A4	1000-Ft. Spool 8.82

SIZE 18—STRANDED TYPE 8947	
No. 22A7	25-Ft. Coil \$0.33
No. 22A8	100-Ft. Coil 1.20
No. 2A6	1000-Ft. Spool 10.66

SIZE 14—STRANDED TYPE 8938	
Available in Black or Red Only	
No. 22A9	25-Ft. Coil \$0.49
No. 22A10	100-Ft. Coil 1.70

LEAD-IN WIRE

UNSHIELDED TYPE 8200



Size 18 with 7 strands tinned copper wire and thick rubber sheath. Easy to strip and solder.

No. 22A19	100-Ft. Coil ... \$0.94
No. 2A9	1000-Ft. Spool ... 6.91

SHIELDED TYPE 8206



Conductor is size 18 tinned copper stranded, and rubber insulated. Tinned copper braid shield over-all.

2A137.	Per Ft. 3c; 100 Ft. \$2.12
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SHIELDING

TINNED COPPER SHIELD



Forms perfect electrostatic and interference shield for wires. Very flexible. Expands to nearly double its original diameter, reducing length about 25%. Extensively used in auto radio installations.

Type 8660—13/64" dia. flat.

2A134. Per Ft. 3c; 50 Ft. \$1.03

Type 8661—3/4" dia. flat.

2A135. Per Ft. 4c; 50 Ft. \$1.62

Type 8662—25/32" dia. flat.

2A136. Per Ft. 14c; 50 Ft. \$5.88

SHIELDED LOOM



Type 8657 — 3/16" dia. Woven tinned copper shielding over impregnated loom. Provides low capacity shielding for any auto wires or cables and for auto, antenna lead-ins.

2A138. Per Ft. 8c; 50 Ft. \$3.23

SHIELDED HOOK-UP WIRE



Used in circuits where shielded grid return is required and to shield a circuit conductor from stray fields. Conductor is size 20 tinned copper stranded and rubber insulated. Lacquer coated cellulose acetate yarn braid and tinned copper braid shield are over-all.

No. 22A17 25-Ft. Coil \$0.70

No. 22A18 100-Ft. Coil 2.35

VOICE COIL WIRE

Type 8127. Bare copper braided with 32 strands of size 40 wire. Overall size 25. Vbry flexible.

No. 17B726. 10-Ft. Coil. 16c

TRANSMISSION LINE CABLES

TELEVISION TWIN-LEAD



300-OHM LINE CABLE

For use with TV and FM receiving antenna. Exceptionally low losses at high frequencies. Type 8225 has one bare and one tinned copper stranded conductor, size 7x28. Heavy duty type 8235 has stranded bare copper conductors size 7x26. This type also recommended for amateur transmitting antenna. Both are polyethylene plastic insulated; weather resistant.

No.	Type	Size	Per Ft.	100 Ft.
2A80	8225	.072x.400	3c	\$2.08
2A81	8235	.185x.520	6c	4.85

100-OHM LINE CABLE FOR NOISY LOCATIONS

For use with TV and FM receiving antenna. Reduces noise-pickup. Size 20 stranded two Polyethylene insulated conductors—one bare and one tinned copper—with a tinned copper braid shield and black vinyl plastic jacket overall.

No.	Type	Size	Per Ft.	100 Ft.
2A85	8226	.190x.310	7c	\$5.00

TWISTED PAIRS

Twisted pair with weather resistant compound on overall braid. Stranded tinned copper conductors; size 18 in type 8204 and 8209, and size 22 in type 8205; are low-loss rubber insulated and color coded.



Type 8204. 72 ohm impedance, capacitance 21 mmf. per ft. Over-all white cotton braid.

2A124. Per Ft. 3c; 100 Ft. \$2.18



Type 8209. 72 ohm impedance cap. between conductors 32 mmf. per ft. Tinned copper braid shield with weatherproof cotton braid over-all.

2A125. Per Ft. 6c; 100 Ft. \$4.48



Type 8205. Black cotton weatherproof braid over-all. 72 ohms.

2A126. Per Ft. 2c; 100 Ft. \$1.53

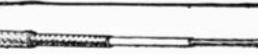
CATHODE-RAY TUBE LEAD CABLE



For high-voltage leads to Cathode-Ray Tubes in TV receivers, oscilloscopes, or anywhere C.R. tubes are used. Has high dielectric strength and resists corona effect. Tinned copper, Polyethylene insulated stranded size 20 conductor with lacquer coated cotton braid.

No.	Type	Dia.	Voltage Rating	Per Ft.	25 Ft.
2A145	8869	.136	10,000	3c	\$9c
2A146	8868	.198	20,000	5c	90c

PHONOGRAPH PICK-UP ARM CABLE



Belden 8431

Type 8431. Conductor is rubber insulated tinned copper stranded, size 24. Has tinned copper braid shield and cotton braid over-all.

2A103. Per Ft. 3c; 100 Ft. \$2.35

Type 8014. Has tinned copper stranded size 25 conductor with chrome vinyl plastic insulation, not shielded. Also for Antenna Manks.

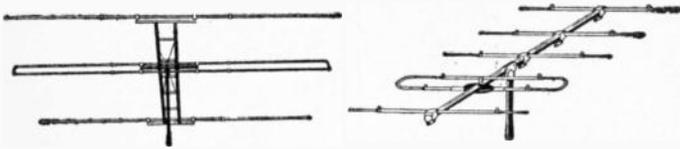
No. 17A290 Per 25 Ft. \$0.16

No. 18A18 Per 100 Ft.44

No. 2A1 Per 500 Ft. 1.84

TRANSMITTING ANTENNAS and ACCESSORIES

ELENCOR BEAM ANTENNA KITS



10-METER 3-ELEMENT—MODEL 400-EA. Uses broad band folded dipole driven element, .1 wave length spacing for director and .15 wave length spacing for reflector, allowing direct feed with 52-ohm coaxial cable. Elements are 3/4" aluminum tubing telescoping to 5/8", adjustable from 14 to 18 ft., and supported on 2 1/2" steatite stand-offs. Furnished complete with 8 ft. 4" long x 13" wide ladder constructed of 1" aluminum angle. Shipped knocked down, neatly packed with hardware and complete assembly instructions. Less mast and transmission line. Weight assembled, approximately 17 lbs. **No. 38B1. YOUR COST..... \$34.10**

10-METER 3-ELEMENT—MODEL 400-RA. Same all-aluminum construction and element spacing as model 400-EA above, except driven element is straight dipole. Designed for 1/4-wave matching stub using 52-ohm coax and 300-ohm twin lead transmission line. Shipped knocked down, with ladder, hardware and instructions. Less mast, matching stub and transmission line. Weight assembled, approximately 16 lbs. **No. 38B2. YOUR COST..... \$29.40**

2-METER 5-ELEMENT—MODEL 200-EA. Pre-cut for middle of 144-148 MC band. Elements are 3/8" dia. aluminum tubing. Design otherwise same as Model 300-EA with folded dipole driven element. Matched for 52-ohm coaxial feed line. Furnished with swivel mounting bracket. Shipped knocked down, with instructions. Less mast and transmission line. Wt., 3 lbs. **No. 38B70. YOUR COST..... \$8.23**

MAST FOR 6-METER AND 2-METER BEAMS. Five ft. heavily enameled steel tube. Machined to fit swivel bracket on Antenna. **No. 38B72. YOUR COST..... \$2.06**

AMPHENOL FOLDED DIPOLE ANTENNAS

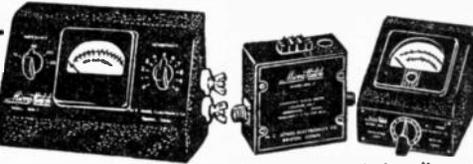


Real DX Antennas, pre-cut to the amateur bands. Radiating section is 300-ohm twin-lead made with copper-clad steel conductors for greater strength...proof against high winds, ice loading, etc. Each antenna supplied with 75-ft. lead-in of 300-ohm standard twin-lead, attached to antenna with a weather-proof molded polyethylene "T" junction. Instructions furnished for trimming to operating frequency. End insulators not included.

Stk. No.	Band	Net Each	Stk. No.	Band	Net Each
31A82	10 Meters	\$4.53	31A84	40 Meters	\$ 7.94
31A83	20 Meters	5.64	31A85	80 Meters	12.20



A DIRECT READING INSTRUMENT FOR MEASURING STANDING WAVE RATIO AND RF POWER.



This amazing little instrument, when connected in a transmission line at any point will read standing wave ratio and when its terminals are reversed will read RF power in the line. An indispensable aid in adjusting beam antennas, and matching systems and for measuring R.F. resistance of an unknown load. Model MMI for open wire lines, 70 to 300 ohms. Range 3 to 30 MC. 10 to 1,000 watts. **Stock No. 33A81. Net Each..... \$29.50**

Model MM2 and coupler for 52 ohm coax line. Coupler unit can be placed in transmission line at any point, with indicator unit on operating desk or built into transmitter panel. Frequency range, 3 to 162 MC. 10 to 500 watts. **Stock No. 33A99. MM2 and coax coupler. Net Each..... \$37.45**

Coax Coupler Only. For 52 ohm coax line as described above. Supplied with easy-to-follow instructions and calibration curves for building an indicator using any 0-1 MA. meter. **Stock No. 33A100. Coax Coupler. Net Each..... \$19.95**

GORDON ROTARY BEAM CALCULATOR

For the amateur who has a beam or contemplates one, or the professional engineer interested in antennas. Covers range of 10 to 30 MC. Eliminates mathematics or computations in figuring element lengths, boom lengths, etc. In addition there are scales showing all values of capacity and inductance for resonance between 5 and 60 MC. Size 13" long, 5" wide, double faced. **No. 16B376. Your Cost, Each..... \$1.50**

JAMES KNIGHT 1BC-3 IMPEDACOUPLER

Makes a secure and weatherproof junction between coax line and any current fed antenna or array. Made of solid Mykroy machined to 7/8" diameter. Can be turned on a lathe to smaller diameter. Ends are drilled to take screws for clamping tubing, or wire loops when used with doublet or open wire lines. Equipped with Amphenol 83-1R coax fitting. **No. 17A1075. NET EACH..... \$3.50**

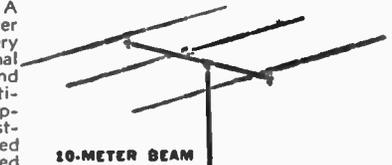


AMPHENOL SILICONE COMPOUND

For moisture proofing twin lead. Minimizes impedance changes. Lasts indefinitely. **Stock No. 17A1074. Per 1 Oz. Tube..... \$1.18**

WORKSHOP ASSOCIATES BEAM KITS

10-Meter 3-Element—Model 29. A thoroughly engineered 10-11 meter broad band antenna having very neat appearance and exceptional mechanical rigidity to withstand wind and icing. Elements are multi-section 3/4", 5/8" and 1/2" telescoping aluminum alloy tubing, adjustable from 130" to 214" and sealed at ends. Boom is weather-proofed steel tubing. A plastic head insulates driven element and provides weather-proof connection to coax feed line. Element spacing is adjustable and dimensions are given for matching 72-ohm and 52-ohm coax line for low standing wave ratio over entire band. Cast aluminum mounting clamp fits 1 1/4" mast such as Model AM listed below. Complete with all hardware and instructions. **Stock No. 38A60. Less Mast and Feed Line. YOUR COST.... \$39.50**



6-METER 3-ELEMENT—MODEL 52-AB. Uses aluminum alloy elements and a weather-proofed steel boom with a durable plastic head to insulate driven element and secure boom to any 1 1/4" dia. mast. Standing wave ratio 1.1 with 72-ohm coax and 1.4 with 52-ohm, over entire band. With all hardware. Less mast and feed line. **Stock No. 38A61. YOUR COST..... \$9.00**

2-METER 6-ELEMENT—MODEL 146-AB. Two 3-element arrays spaced 1/2 wave length and fed in phase. Very sturdily constructed of 5/8" to 1 1/2" telescoping aluminum elements sealed at ends with spherical tips and supported by two heavy-duty plastic heads. Power gain is 6 (7.8 db.). Matched for 52-ohm coax feed line. Mounts on any 1 1/4" dia. mast. With all hardware, less mast and feed line. **Stock No. 38A62. YOUR COST..... \$21.50**

MAST AND MOUNT—MODEL AM. Consists of two 1 1/4" dia. 4 ft. long tubular steel sections and universal hardware for fixed mounting to the side of building or tower. **Stock No. 38A63. YOUR COST, EACH..... \$8.25**

EXTENSION MAST SECTIONS—MODEL AMI. 4-ft. steel tubes that telescope together for increasing height of above model AM mast. **Stock No. 38A64. YOUR COST, EACH..... \$1.65**

MANUAL ROTATING ACCESSORIES—MODEL AM2. Converts model AM mast and mount into simple hand rotating device. Used with extension mast sections where necessary. **Stock No. 38A65. YOUR COST, EACH..... \$5.00**

AMPHENOL TWIN LEAD TRANSMISSION LINE

300 OHMS—Standard Type. For FM and Television receivers, also low power transmitters. **No. 2A157. Per Ft..... 2 1/2c 100 Ft..... \$1.92**

300 OHMS—Copper Clad. Conductors are size 16 copper clad steel. Desirable for flat top portion of amateur antennas and long transmission lines where considerable strength is required. **No. 2A193. Per Ft..... 7 1/2c 100 Ft..... \$7.06**

300 OHMS—New Tubular Design. Conductors are supported in wall of hollow tube of polyethylene. Tubular shape eliminates flutter and minimizes effects of moisture. Conductors are 7 strands No. 26 copper wire. Rated at full kilowatt at 30 MC. **No. 2A192. Per Ft..... 7 1/2c 100 Ft..... \$7.06**

75 OHMS—For amateur transmitting antenna systems. Handles a full K.W. **No. 2A178. PER FOOT..... 8c 100 Ft..... \$7.06**

NEW JOHNSON ROTOMATIC ANTENNA

Built expressly for those who want the finest in two, three and four element parasitic arrays for 10 or 20 meters, as well as dual beams for these bands. Rotator assembly is housed in light weight aluminum casting and will safely support up to 125 lbs. Gear ratio 1200 to 1. Antenna turns 1 1/2 RPM, instantly reversible and is driven by a 1/20 HP capacitor type motor "no radio interference". The elements are very close to theoretical values. May be set up on the ground as per instruction manual, and raised on the mast without further adjustment. For a complete assembly use rotator, boom assembly and elements as listed.

ROTATOR UNITS

No. 50A276. Rotator, complete. Including motor drive, mounting base, selsyn and control box..... **\$231.28**
No. 50A277. Rotator only. For manual operation..... **115.15**
No. 50A278. Rotator. Including high speed gear box for motor drive **133.77**

BOOM ASSEMBLIES

Band	10 & 11			20 Meter			Dual 10 & 20 Meters				NET EACH			
	2	3	4	2	3	20-2	20-2	20-3	20-3	10-2		10-3	10-3	10-4
No. 50A279	X			X		X								\$ 8.62
No. 50A280		X			X		X							12.35
No. 50A281			X			X		X		X		X		17.05

ELEMENT KITS

	Stk. No.	2 Element	Stk. No.	3 Element	Stk. No.	4 Element
10 Meter	50A282	\$24.11	50A284	\$33.52	50A286	\$43.32
20 Meter	50A283	46.45	50A285	67.62		

For other accessories needed to complete antenna installation see page 000. We can supply all antennas and associated equipment manufactured by the companies represented on this page. Please write for full details concerning your antenna installation requirements.

ENAMELED COPPERWELD ANTENNA WIRE

Being three times the strength of ordinary copper wire, it does not stretch nor sag. Copper coating provides low RF resistance, and enamel prevents corrosion. No. 14 supplied bare copper only.

Stk. & S	No. Gauge	Ft. Per Lb.	Per 100 Ft.	Per 500 Ft.
2A160	10	34 1/2	\$2.82	\$12.05
2A161	12	54	1.71	7.83
2A162	14	85	1.01	4.56

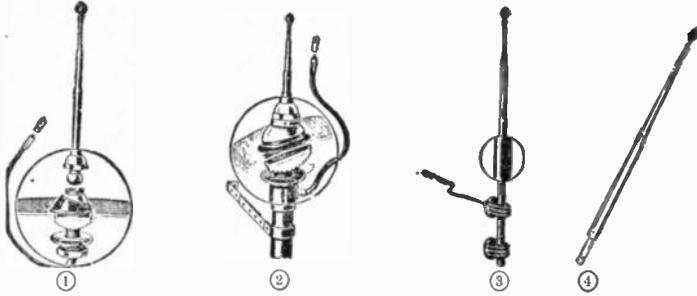


XMITTING INSULATOR GENUINE PYREX

No. 18A66. Type 67017. Length 7 1/2". **Net Each..... \$2.63**
No. 2A17. Type 67021. Length 12 1/4". **Net Each..... \$5.25**
 Low-loss Isolantite strain insulator. 1 1/2" long x 3/8" diameter. **No. 18A68. Net Each 30c**

AUTO RADIO ANTENNAS and ACCESSORIES

NEW ICA AUTO RADIO ANTENNAS



① NEW, IMPROVED "PIVOT-TOPPER"

Designed especially for the newest streamlined car models. Special type pivot permits a wide variety of angle mounts to conform with contour of any car—merely set rod to desired angle and tighten securing nut.

Features: Top cowl or fender mounting; brass shim contacts to prevent rattling and vibration; triple chrome plated Admiralty Brass, rustproof, dust and moisture proof; snug fitting tapered telescopic joints. Three sections extend from 20" to 63". Hi-Q low-loss 48" lead-in cable.

No. 38B11. 10 Lots. **\$2.91** EACH... **\$2.54**
NET EACH.....

② "PEERLESS" DISAPPEARING TYPE

Streamlined disappearing for use on all model cars. 10" exposed, extends to 56". Swivel base permits angle adjustment to match contour of car. Triple chrome plated brass. Easy installation. With shielded lead-in cable.

No. 38B12. 10 Lots. **\$4.09** EACH... **\$3.38**
NET EACH.....

③ HEAVY DUTY UTILITY SIDE COWL

Designed for rugged wear and long distance reception, 4 sections telescopic type. Extends from 36" to 110". Extra large brass tubing, with heavy triple chrome plating. Ideal for Trucks, Police, Experimental, 6 and 10 meter usage. Also for Ranger, Farm and tractor use. With 36" shielded lead-in.

No. 38B13. 10 Lots. **\$3.79** EACH... **\$3.30**
NET EACH.....

④ FORD AND BUICK REPLACEMENTS

Ford Replacement Tube and Rod Assembly

For closed Car Roof Antenna. Replaces the sliding mast for the Ford-Mercury Roof Antenna of 1941-42-46-47 that operates from behind dividing post of the windshield. Supplied with operating knob and set screw.

No. 38B33. Lots of 12. **\$1.35** EACH... **\$1.22**
NET EACH.....

Buick Replacement Antenna Mast Section for No. 980-688. Standard Buick Roof Aerial. Fits Buick models 1940 through 1948. Replacement is quick and easy by the mere loosening of a set screw. Has four sections; an exact replacement for original Buick equipment.

No. 38B34. Lots of 12. **\$1.65** EACH... **\$1.49**
NET EACH.....

SIDE MOUNT AERIAL

Ward SB-2. Attractive low cost antenna. Made of high quality chrome plated brass. Two section telescoping design, extends to 42". Adjustable insulated mounting. Complete with shielded lead-in and fittings for all type connections.

No. 38B7. **\$2.09**
Net Each.....

TCF-3 EIGHT BALL FOR TOP COWL or FENDER



Three Section. Telescopes to 56", a smart universal top cowl or fender type. Easy to mount for perfect and secure fit on any car. List, \$5.35. **\$3.15**
No. 38A48. Each.....

ANTENNA HARDWARE For Auto Aerials



A handy and complete kit of parts, hardware, etc., for use with all makes of aerials having 1/8" dia. tubing.

STRAIGHT SIDE COWL MOUNTING
No. 11A160. List Price \$1.25. **73c**
Complete Kit, Each.....

SLOPING COWL MOUNTING
No. 15A2032. List Price \$1.25. **73c**
Complete Kit, Each.....

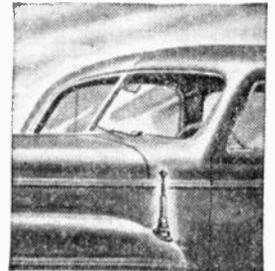
- LATEST WARD AUTO RADIO ANTENNAS
- HEAVY WALL BRASS TUBING TO WITHSTAND HARDEST USE.
- HIGHEST QUALITY CHROME PLATING FOR SPARKLING APPEARANCE AND MAXIMUM DURABILITY.
- PHOS-BRONZE AND SILVER CONTACTS FOR MAX. CONDUCTIVITY.
- SMART STYLING TO ENHANCE CAR BEAUTY.
- 36" COAXIAL LEAD AND FITTINGS WITH EACH.

UNIVERSAL SIDE MOUNT



SC-8 or SC-6 MOUNTED

TOP COWL or FENDER



DCF-3 or DCF-4 MOUNTED

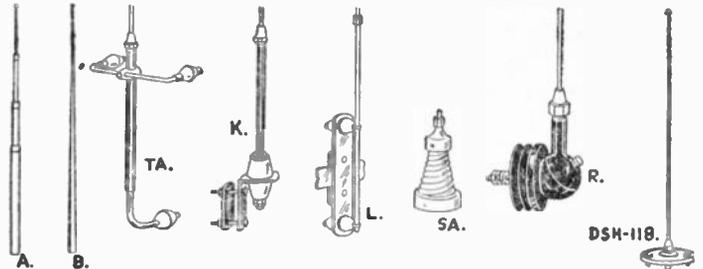
SC-8 "LONG RANGER". 4 Sections, 100". A favorite in Low Signal strength areas where its extra length provides finer reception. Side cowl two stanchion mount. Ceramic insulators smartly designed with chrome caps. List Price, \$6.95. **\$4.09**
No. 38A32. Net Each...
12 Lots. Each... **\$3.58**

SC-6 "AIR KING". 3 Sections, 66". Otherwise as above. List Price, \$4.95. **\$2.91**
No. 38A31. Net Each.....
Conversion parts are included in models SC-6 and SC-8 for vertical position mounting on cars with extreme body contours.

DCF-3 "PHANTOM". 3 Sections. A disappearing antenna (telescopes from only 3 1/2" to 56"). Gives that smart built-in appearance. 100% shielded from engine noises and completely water sealed. Easy to install, universal split ball design with universal bracket for sturdy mounting. List Price, \$6.95. **\$4.09**
No. 38A40. Net Each.....

DCF-4 "IMPERIAL" DISAPPEARING. 4 section. Telescopes from 8 1/2" to 100". Its additional length provides maximum signal pickup and increased range, otherwise as above. List Price, \$10.95. **\$6.44**
No. 38B14. Net Each....

PREMAX MOBILE ANTENNAS



(A) 96" SECTIONAL STEEL "WHIP" ROD

Sections are of high carbon steel rod, heat treated and tempered, permanently joined into a single graduated length with ball tip. Heavy .001" cadmium plated. Will flex and return to original shape where most rods break. Bottom section is 1/4", to fit mounts illustrated above. **\$2.43**
No. 38A22. NET EACH.....

(B) 96" TAPERED ONE-PIECE STEEL "WHIP" ROD

Taper-ground chrome silicon spring steel alloy of exceptionally high tensile strength. Smoothly polished and finished in bright, heavy cadmium plate. Base diameter 1/4" tapering to 3/32" at top. Has ball tip to resist corona. Fits all mounts illus. above. For the most rugged mobile service. **\$5.78**
No. 38B18. NET EACH.....

(TA) TRUNK OR PANEL MOUNTING

For attaching (A) or (B) Whip Rods or other 1/4" diameter antenna to any sloping, vertical or horizontal surface regardless of contour. Insulators are white glazed ceramic cones. Metal parts are brass cadmium plated. Provides 10" adjustment of antenna length. **\$10.03**
No. 38A23. NET EACH.....

(K) BUMPER MOUNTING

Attaches to bumper or bumper bracket. Provides single insulator mounting for (A) or (B) Whip Rods or any other 1/4" diameter antenna and permits 10" adjustment of antenna length. **\$4.26**
No. 38A24. NET EACH.....

(L) BUMPER MOUNTING

Similar to type (K) above, except has two insulators separated 6" for somewhat greater strength. Bracket parts are cadmium plated steel. Also allows 10" antenna length adjustment. **\$6.08**
No. 38A25. NET EACH.....

(DSH-118) 152-162 MC MOBILE ROOF ANTENNA

Improved design, easy to install. Base fitting has plastic insulator and waterproof gasket. Antenna rod is 18" stainless steel wire with ball tip and threaded bottom fitting for quick removal or replacement without disturbing mounting. Supplied less coax line. **\$3.95**
No. 38B15. NET EACH.....

(R) UNIVERSAL ALL-ANGLE SPLIT-BALL MOUNTING

Made of solid cast bronze. Bolts directly to car panel or other surface through a disc of heavy plastic insulation, waterproof gasket and steel back plate. For use with (A) or (B) Whip Rods or any other 1/4" diameter antenna. Baked black wrinkle enamel finish. **\$6.99**
No. 38B17. NET EACH.....

(SA) SPRING ADAPTER

To be used with TA, K, L or R Mounts and A or B Whip Rods or any other 1/4" diameter antenna. Fittings are solid brass, electro-plated and will not corrode. Spring is heavy tempered steel, electro-plated. Designed for protection against extreme impact. Overall height, 4 3/4"; diameter, 1 5/8". **\$6.08**
No. 38B16. NET EACH.....

48-INCH AERIAL LEAD



Finest coax type with polyethylene insulation, 100% shielded. Aerial end has pin plug with screw-on ferrule. Set end has combination pin-bayonet fitting. **\$1.03**
No. 38B6. Each.....

LEAD EXTENSION

Often required to extend antenna leads, particularly when aerials are mounted on fenders.

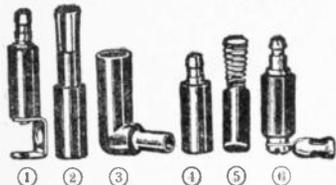
No. 38A41. 12" Lead. Each... **44c**
No. 38B36. 24" Lead. Each... **65c**
No. 38B35. 36" Lead. Each... **79c**

ANTENNA CONNECTOR

Handy for connection of auto antenna to set. Also has many other uses as a general insulated connector. **7c** 10 For. **60c**

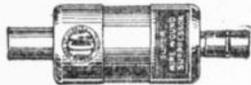
AUTO RADIO NEEDS

For DISTRIBUTOR and SPARK PLUG NOISE SUPPRESSION



- ① No. 19A204. Standard Spark Plugs.
 - ② No. 19A205. Standard Distributor.
 - ③ No. 12A400. Universal for Spark Plugs or Distributor. Fitting at elbow fits terminal at Distributor or Spark Plug, other end screws to cut cable end.
 - ④ No. 19A206. Universal Screw type for Ford V-8 Spark Plugs.
 - ⑤ No. 19A207. Distributor for Ford V-8, 1936 to 1940.
 - ⑥ No. 19A208. Snap-on Spark Plug.
- Your Choice Any of Above. **14c**
NET EACH.....
LOTS OF 10. **12c**
EACH.....

MASTER DISTRIBUTOR NOISE SUPPRESSOR

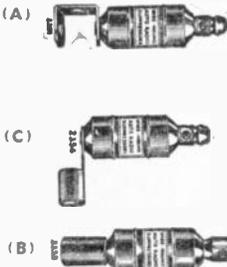


For use on late type cars where only one Suppressor is needed. Hermetically sealed to prevent change in resistances under any condition. Impervious to heat, oil and moisture. The master is guaranteed to eliminate all motor noises, eliminating the use of individual suppressors. List Each 75c.

No. 19A203. Lots of 10. Each **38c**
Your Cost, Ea. **41c**

FOR AUTO RADIO NOISE SUPPRESSION

WIRE WOUND SUPPRESSORS



LOW RESISTANCE, 30 Ohms D.C. Due to this extremely low D.C. resistance they definitely do not affect the intensity of the ignition spark or cut down the speed of the car. The inductance of the winding offers a high resistance to the ignition noise frequencies and EFFECTIVELY SUPPRESSES ALL INTERFERENCE! Each sealed in a moisture-proof, heat-resisting, insulated casing to fit all makes of spark plugs and cars. Ideal for quiet, noise-free auto radio reception.

- (A) No. 19A200. Bracket Type for plugs.
- (B) No. 19A201. For Distributor.
- (C) No. 19A202. Slip-on for plugs.

YOUR COST, **35c** 10 Lots, **32c**
EACH.....

ICA SUPPRESSOR SETS

For Noise-Free Auto Radio Reception In Handy Kits, the needed condensers, suppressors, etc., for a complete installation. Easy to follow instructions included.

- 19A171. For 8-Cyl. Cars (except Fords). Per Kit..... **\$1.89**
- 19A172. For 6-Cyl. Cars (except Fords). Per Kit..... **\$1.69**
- 19A173. For Ford Cars, 1939 to present. Per Kit..... **\$1.89**

GC ANTI-STATIC Wheel Powder

Reduces interference caused by rotation of car wheels and tires. Easy to apply through valve stem and lasts as long as tire tube.

- No. 14A298. Kit with injector and Powder Packet sufficient for 5 tires. **\$1.47**
- Per Kit.....
- No. 14A299. Powder Packet for 5 Tires. **59c**

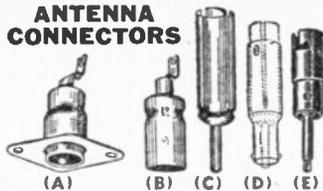
Auto Body Plug



Attractively covers aerial holes in auto tops, cowls, etc. Brass, chrome plated, large flat-head screw with lock washer, rubber spacer and nut.

No. 71A161. For 3/4" Hole. Choice **21c**
No. 12A1407. For 1/2" Hole.....

ANTENNA CONNECTORS



(A) Shielded Jack with sturdy steel flange and can be mounted with screws or rivets. Solder coated shell, fits antenna plug (C).

No. 12A1404. Lots of 10. Each **10c**
Each..... **11c**

(B) Like above, except no flange. May be soldered in position.

No. 12A1405. Lots of 10. Each **6c**
Each..... **7c**

(C) Antenna plug. Pin extends 17/32" from cad. plated split shell. Makes positive grounded connection when inserted in either above Jacks.

No. 12A1406. Lots of 10. Each **6c**
Each..... **7c**

(D) Adapter shell converts Motorola Ant. plug like above to Delco bayonet type receptacle.

No. 12A1525. Lots of 10. Each **5c**
Each..... **6c**

(E) Adapter converts Delco fitting (D) to Motorola type pin plug like (C) above.

No. 12B1524. Lots of 10. Each **16c**
Each..... **18c**



Hub Cap Wheel Static Eliminator

Eliminates static noise in front wheel of car. Spring has metal point for sure contact.

No. 19A197. Each **7c**

Auto Radio By-Pass

Its flat shape makes it ideal as a replacement by-pass or hash filter, where standard tubular types are too large. 200 Volts DC.

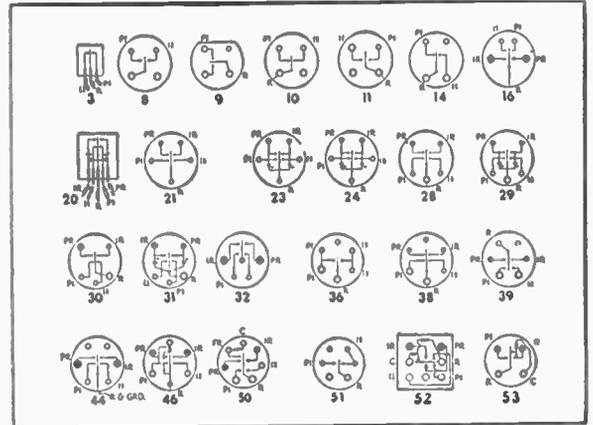
No. 18A624. .5 mfd. Each **25c**

MALLORY



P.R. MALLORY & CO. Inc.

THE OUTSTANDING IN VIBRATORS



THESE MALLORY VIBRATORS MEET 95% OF YOUR REPLACEMENT NEEDS

Listed here are the most popular of the new simplified line of Mallory replacement vibrators. Of these 12 basic types (marked *) will cover 90% of your replacement needs. Complete data in Mallory Vibrator Guide FREE with ANY ORDER FOR VIBRATORS, otherwise 15c. Specify No. 19A26.

No.	Type	Diag.	EACH	No.	Type	Diag.	EACH
19A1	222	20	\$4.88	19A15	725C	32	\$4.56
19A2	*245	21	4.12	19A64	742	32	4.12
19A3	245A	21	4.12	19A65	743	38	4.12
19A4	245C	28	4.12	19A66	748	44	4.12
19A5	*246	38	4.12	19A16	825C	8	3.68
19A55	246A	38	4.12	19A67	826C	8	3.38
19A56	247	46	4.55	19A17	839	8	3.38
19A7	*248	44	4.12	19A18	*852	14	2.62
19A8	*249	32	4.12	19A19	853	10	2.62
19A57	270B	23	4.88	19A20	*854	11	2.62
19A9	*273C	29	4.88	19A21	*859	8	2.62
19A58	273D	31	4.88	19A68	860	14	2.62
19A59	292	3	3.38	19A22	*870	14	2.62
19A10	*294	8	2.62	19A69	952W	16	4.12
19A60	298	51	3.38	19A70	953W	16	4.12
19A13	505P	8	2.62	19A71	954	39	4.12
19A61	506P	36	3.38	19A24	*1100	8	2.62
19A63	514	30	4.12	14A295	1501	53	3.38
19A14	*716	30	4.12	19B12	1502	54	3.67

FREE CABINET! VIBRATOR DEAL

Deal consists of Six most popular Vibrators and Twelve buffer condensers to cover 75% of your replacement needs—PLUS an attractive and useful metal stock cabinet that has 12 compartments and a drawer that provides space for additional small parts. You pay only for the vibrators and condensers at regular prices. With the Deal the cabinet comes FREE. No. 33B86. **\$25.70**

Your Cost, Per Deal

2-VOLT VIBRATORS

FOR C.E., ETC., PORTABLES

For G.E. Models 250 and 260. use vibrator type 4002, diagram 52.

No. 14A296. **\$5.70**
Net Each.....

For G.E. Models LB530 and 530X; RCA 65RB9, use type T4003, diagram 50.

No. 14A297. **\$5.23**
Net Each.....

VIBRATOR SCOOP!

Not war surplus—but New, Fresh — Fully Guaranteed. Under mfrs. brand sells double our price.

Covers 75% of demand. Listed here are only few of auto mfrs. part Nos. it replaces—Chev., 1215909; Chrys., 830026; Ford, Hud., Nash, 190-20; Studebaker, 830026; Motorola, 3333; Phico, 41-3170, etc.

No. 19B93. **\$1.29**
SPECIAL, EACH.....

10 LOTS. EACH..... **\$1.19**



BUFFER CONDENSERS

Housed in hermetically sealed leak-proof metal tubes. Externally insulated. Supplied with removable mounting strap. Ideal for vibrator buffers and high voltage coupling.

1600-Volt Oil Filled		
.002	15A356	71c
.003	15A357	71c
.005	15A358	71c
.008	15A359	71c
.01	15A360	71c
.015	15A361	73c
.02	15A362	76c
2000-Volt Oil Filled		
.005	15A363	73c
.0075	15A364	73c
.01	15A365	73c
.02	15A366	79c

MALLORY VIBRATOR DATA BOOK

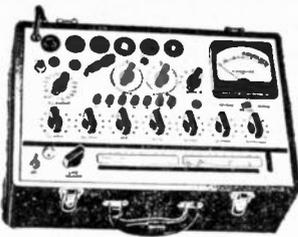
A complete Technical manual on the operation, selection, and application of vibrators and vibrator power supply design. No. 16A197. Net Each... **\$1.00**

AUTO RADIO SHAFT & CASING ASSEMBLY

24" long to fit nearly any installation. Equipped one end with 3/8"-20 casing nut and spade shaft tip to fit Crowe Controls. Other end plain to attach whatever fittings needed.

- 16A177. Each..... **82c**
Without Fittings on Either End
- 16A178—Length 18"..... **50c**
- 16A179—Length 24"..... **59c**
- 16A180—Length 30"..... **69c**

YOUR CHOICE OF BEST-ON-THE-MARKET TUBE AND TUBE-AND-SET TESTERS



HICKOK MODEL 600

AM, FM, TELEVISION Tube Tester For accuracy and speed this lightweight portable tube tester has no equal! Featuring DYNAMIC MUTUAL CONDUCTANCE test of ALL types of receiving and television tubes—gas tests, future life tests, and readings directly in micromhos (3000-6000-15000), in combination with English reading "Good-Bad" scale! Includes 9-pin socket for newest tubes. Matches tubes for PP amplifiers and television tubes for clearer pictures! Has same circuit features as famous Hickok Model 533, but is smaller, lighter in weight and strictly a portable instrument—at a saving in cost! In sturdy removable hinged lid case, red leatherette covered. Size, 16 3/4 x 11 3/4 x 7 1/2". Weight, 21 lbs.

No. 35B47. HICKOK MODEL 600 AM, FM, TELEVISION TUBE TESTER. YOUR COST. **\$126.00**

HICKOK 534B TUBE AND SET TESTERS



Dynamic Mutual Conductance principle tests tubes accurately in a circuit equivalent to operating conditions for each tube. Applied individual test to each element and each section. Outstanding New Test Feature shows when tubes are about to fail, adding to tube sales. Meter calibrated for accurate test in "Micro-Mhos" as well as Good-?-Bad. Has Gas Test, Noise Test and Short Test. Will test all tubes with filament range to 117-volt. Roller tube chart provides easy guide to control and switch settings.

4 1/2" Meter also calibrated for Multi-Meter functions in set testing. AC or DC volts: 0 20, 200, 500, 1000, 5000, at 5000 ohms per volt. Resistance: 0-1 ohm to 100 megohms in three ranges, no batteries needed. DCMA: 0, 5, 20, 200. DB ranges: -10 to +50. Capacitance: .0001 to 150 mfd. Inductance covered carrying case, 17x18x8 1/2". Has slip

to 100 hy. Portable leatherette hinged lid. Weight, 31 lbs. No. 32B10. Complete with test leads and instructions. **\$169.20**

HICKOK MODEL 534BD Display Tube and Set Tester. Identical to Portable model in all electrical specifications. Installed in streamline DISPLAY case of heavy steel—lends itself to uniform grouping with other Hickok instruments, or as a bench instrument alone. No. 50A233. Hickok Model 534BD Tube and Set Tester. NET **\$172.20**

HICKOK MODEL 533 PORTABLE TUBE TESTER

MODEL 533. Portable Model Tube Tester. Identical in TUBE TESTING functions to Model 534 described above (does not have multimeter functions). In portable case, 17x18x8 1/2". Weight, 31 lbs. No. 35B34. Model 533 Portable Tube Tester. NET. **\$133.20**

MODEL 533D. Tube Tester housed in Service Bench Display Case, otherwise identical to Model 532-P. Size, 18 1/4 x 17 x 11" deep. Wt., 28 lbs. No. 35B1. Model 533D Display Tube Tester. NET. **\$136.30**

DON'T MISS IT! "RCP" 8073 "SERVISHOP"

Every service need of AM or FM Radio Sets is covered by the separate and distinct instruments included in "SERVISHOP"! Tube Tester: Has over 800 listings for receiving tube tests, including all the newest types; has every feature needed in a good tube tester. . . . Multimeter—25 Ranges for: 0, 10, 50, 500, 1000 AC and DC Volts; 0, 1, 10, 100, 1000 DC M.A.; 0-10 DC Amps; 0, 500, 5000 Ohms; 0, 0.1, 1, 10 Megohms! Minus 8 to Plus 55 db. in four ranges; 0, 10, 50, 500, 1000 Output Volts. . . . AM Signal Generator has fixed frequencies of 1500 KC and 550 KC for Broadcast band alignment; 456 KC and 465 KC for I.F. coil alignment. . . . "FM" Signal Generator. Four fixed frequencies with switch selection for I.F. of 10.7 MC, 88 MC, 98 MC and 108 MC—all accurately calibrated to 1% limits. . . . Condenser Tester reads "Good Bad" directly on scale of 4 3/8" meter for testing leakage of electrolytic, mica or paper capacitors. . . . Audio Oscillator provides 400-cycle audio output. Complete in Oak case with all tubes, test leads, instructions; for use on 105/135-volt, 50/60-cycle AC. Weight, 15 1/2 lbs. No. 35B27. "RCP" Model 8073. Complete Servishop. NET. . . . **\$83.25**



"STAR" TE-1 TUBE TESTER

A WHALE OF A "BUY" AT \$29.95! MORE FEATURES FOR YOUR MONEY provided at the minimum cost of this fine tube tester! Tests latest 7- and 9-pin miniature types as used in Television and FM receivers in addition to all other standard receiving tubes. Individual pin switching of all tube elements—extreme flexibility! 3" square wide vision meter! "Shorts" check, line voltage check — etched aluminum panel. Steel case, 9x7x3 1/2". Weight, 6 lbs. Complete with instructions. No. 35B9. "STAR" TE-1 TUBE TESTER. NET EACH. **\$29.95**



PRECISION "ELECTRONAMIC" SERIES 10-12 TUBE MASTER TESTER

Provides MORE than just Mutual Conductance—meets the requirements of exact quality tube tests on ALL types of receiving tubes, including newest FM, AM and TELEVISION types! Quick-tests ALL portable radio, dry A, B and C batteries on tricolor scale of 4 3/8" full vision meter. Obsolescence eliminated by free-point lever element selection—locates every tube element regardless of base position! Tests 9-pin, 7-pin Acorn; dual capped HF tubes, single ended TV and FM amplifiers, low power transmitters, sub-miniatures—all tubes having 12-pin or less bases. Visible filament continuity check on all filament voltages from 3/4 to 117 volts! Micro line voltage adjustment.

Tests tuning indicators, ballasts, pilot lamps! Freepoint inter-element short check, noise and condenser tests; isolates and tests individual elements of multi-section tubes! In hardwood case, slip hinge lid, with tool compartment. Roller Tube Chart (new charts free on request to factory); test circuits completely isolated from power line; extractor fuse post on panel. Size, 13 3/4 x 17 1/4 x 6 3/4". Weight, 23 lbs. No. 32A8. Precision 10-12 Tube Tester. NET COST. **\$94.18**

Precision Time Payment Plan: \$32.10 cash and \$9.32 monthly for 8 months.

Precision Series 10-54 TUBE, BATTERY, SET TESTER

Completely self-contained tube, battery, and SET ANALYZER. Combines tube testing functions described above for Series 10-12 with 35-Range Multimeter with 6 Ranges of DC volts at 20,000 O.P.V. to 6,000 volts; 6 AC Ranges (1000 O.P.V.) from 6 to 6,000 volts; 6 Output Volts with same ranges as AC volts; 7 DC Current ranges from 60 microamps to 12 amperes; 4 Self-contained Resistance ranges from 6000 Ohms to 60 Meg.; 6 DB ranges from -20 to +70 db. Push-button selectors for all multimeter ranges. Complete with batteries and Hi-Volt test leads. Size, 13 3/4 x 17 1/4 x 6 3/4". Weight, 25 lbs. For 117-volt, 60-cycle AC. No. 32A7. Precision Series 10-54 Tube and Set Tester. **\$131.71**

Precision Time Payment Plan: \$44.66 cash and \$8.38 monthly for 12 months.

Precision 612-MCP TUBE TESTER

Quickly tests as "Good" or "Bad" all types of standard radio receiving tubes—7-pin Acorn, 7-pin "button" types, 9-pin Noval types, dual capped H.F. and "FM" and "TV" amplifier tubes! Brass geared Roller Tube Chart, kept up-to-date by no-cost direct Factory service (on customer request). 4 1/2" Wide Vision Meter indicates Line Voltage and "Good-?-Bad" tests for Portable Radio Batteries and all tube types. Individual element tests of multi-section tubes; Ballast Tube Tests, Pilot and Signal lamp tests. Absolute Free-Point level selection for both "short" and "merit" tests

Radio batteries tested under proper "load" for accuracy. Pin jacks for noise and condenser tests. Cabled wiring of plastic coated moisture-proof wire; continuous line voltage adjustment; panel fused power cord. 115/125-volt, 60-cycle AC. Heavy steel, open face case with handle, anodized deep etched, aluminum panel. Size, 10 1/2 x 12 x 6". Weight, 17 lbs. No. 35B87. MODEL 612-MCP Tube Tester, Complete. Net Each. **\$65.32**

Precision Time Payment Plan: \$22.65 cash and \$7.72 monthly for 6 months.

Precision Instruments on Time Payments: Application forms will be forwarded upon receipt of order and down payment—all Precision time payment orders are subject to the approval of Precision Apparatus Company.

RCP 802N TUBE & SET TESTER

Complete tube testing of all receiving tube types—headphone noise test—condenser tests; Plus 25-range set tester! 4 1/2-Inch Meter! Germanium rectifier for AC voltage measurements! 100,000 Ohm Resistance range is battery operated—permits complete set tests without AC current connection! Set Tester Ranges are: 0-10-50-500-1000 AC-DC Volts and Output Volts; 0-1-10-100-1000 DC M.A. and 0-10 Amperes! Resistance Ranges: 0-500-5000 Ohms, 0-0.1-1-10 Meg. Minus 8 to Plus 55db in 4-ranges; Meter has Alnico high torque movement for fast readings. In hardwood case, removable cover, size, 12 3/4 x 12 x 5 1/4"; wt. 13 lbs. For 100-130 volt 50-60 cycle AC. A fine "Take to the job" tester, cpl. with batteries and test leads. Stock No. 35A43; RCP Model 802N Tube & Set Tester, Net, **\$58.31**



RCP "ROLLINDEX" ROLLER TUBE CHART for use with RCP 802N Tube and Set Tester, as listed above. No. 35A56. Model 103 Rollindex (fits in tester cases). NET. **\$7.35**

SUPERIOR TV-10 TUBE TESTER

Truly a super-value instrument for testing ALL tubes used in AM, FM, TV receivers—providing a separate socket for each type of tube base, including sub-miniatures, novals, thyratrons, lock-ins, and all others, regardless of number of base pins! Self-cleaning lever action switches provide complete inter-element test plus true-tests of tubes with tapped filaments! Tests for "shorts" and "leakages" up to 5 Megohms! Large English reading meter shows emission test results. Roller tube chart! Line voltage adjustment. Portable oak case. Size, 6x11 1/2 x 12". Weight, 14 lbs. No. 35C30. Superior Model TV-10 Portable Tube Tester. Net Each. **\$38.71**



At Once Delivery From B-A on These TUBE TESTERS

Jackson Model 648-B. Dynamic Output Tube Tester. 4" meter, roller chart; tests ALL tubes. Grey steel open face case, 15 1/2 x 10 1/2 x 4 1/4". Weight, 20 lbs. Strictly a high quality, long life instrument. No. 35C46. Net Each. **\$77.91**

Triplett Model 3413. Big 6" meter; Speed Roll chart; sloping panel in dual purpose Portable-Counter steel case, 15 3/8 x 11 x 6 1/8"; removable cover, 2-tone brown-tan hammerdome enamel finish. Wt., 20 lbs. No. 35B26. Each **\$66.41**

Simpson 330. Mutual Conductance Tube Tester. No. 50A205. Net. **\$142.83**

Simpson 555. Illuminated Meter Tube Tester. No. 50B251. Net. **\$77.91**

SIGNAL GENERATORS

SELECTED FOR THEIR SUPERIOR PERFORMANCE AND TOP-NOTCH VALUE PER DOLLAR OF COST TO YOU!



HICKOK MODEL 288X
CRYSTAL CONTROLLED! FREQUENCY MODULATED! Provides highly accurate and dependable test voltages and frequencies for fast alignment of AM-FM receivers! Fundamentals: 100 kc-110 mc for AM in 7 ranges; 100 kc-160 mc for FM in 7 ranges! Frequency modulated RF ranges, narrow band 0-30 kc sweep for AM ranges; wide band 0, 150, 450 kc sweep for FM ranges—1 mc to 160 mc in 7 ranges. Variable audio output, 0-15 kc. Crystal controlled outputs of 100 kc and 1000 kc are accurate to .01%! Circuit refinements provide new high FM output and new low radiation! Hickok drum-scales provide over 100" of AM-FM scales—matching DB meter has 3 ranges of -10 db. to +38 db. for measuring

power, voltage and resonance alignment. 3-step RF Output Control attenuates output at all frequencies, X1, X10, X100! Deluxe panel and controls in Satin Chrome, steel case in Blue Lacquer; with cables and instructions. 105/125-volt, 60-cycle AC. Weight, 28 lbs.
No. 35A37. HICKOK Model 288X Signal Generator. NET... **\$169.20**

HICKOK MODEL 277X SIGNAL GENERATOR

Identical to above described 288X except does not have DB meter. Otherwise has Crystal Control, Frequency Modulated Output and all other features of Model 288X. Weight, 28 lbs.

No. 35B12. HICKOK Model 277X. NET... **\$150.36**

HICKOK MODEL 277 SIGNAL GENERATOR

Low cost, frequency modulated, with all features of 288X except does not have DB meter or Crystal controlled output. Weight, 28 lbs.

No. 35B13. HICKOK Model 277. NET... **\$135.30**

NEW! HICKOK 292X

MICROVOLT SIGNAL GENERATOR for AM, FM, TV, MOBILE BANDS! 125 kc to 220 mc. FUNDAMENTALS — the ONLY signal generator with all these FEATURES: Fundamental frequency ranges on 8 bands—Bands A through G covering 125 kc-110 mc; Band H, 150-220 mc. Output impedance: X1, X10, X100 mv, 5 ohms; X1K, 30 ohms; X10K, 0-100 ohms. Modulation, fixed, 400 cps.; AF Output, 0-2 volts. Self-contained Crystal oscillator circuit has front panel jack permitting crystal outputs at frequencies 250 kc-20 mc—and to over 250 mc on harmonics! (Crystal oscillator unit for Mobile Band 152-162 mc available, on order, complete with .005% accuracy crystal at net.

\$48.84.) Self-contained DB Meter covers 3 Ranges, -10 to +38 db. Other important features include Modulated and Unmodulated output, 1-100,000 Microvolts; Measures both input and output of units under test; cast aluminum attenuator for minimum signal leakage; external modulation 15-10,000 Cps. Tubes are 1 6SN7, 2 6J6, 1 6SG7, 6X5GT. Tuning Dial provides over 100" of scale! Satin Chrome panel, heavy steel blue lacquered cabinet, 14x16 1/2x8". Weight, 29 lbs. 35 watts at 115-volt AC. Complete with connecting cables and detailed instructions.
No. 35B14. HICKOK MODEL 292X. NET... **\$195.00**



TRIPLETT 3432—LIGHTED DIAL!



A "honey" of a new test oscillator in every respect! FREQUENCY RANGE: 165 kc to 120 mc—Bands A through E cover ranges from 165 kc to 40 mc on FUNDAMENTALS—two direct calibrated, strong harmonic ranges for 36-80 mc and 54-120 mc! Seven long scales of illuminated dial have easily read, wide-separated scale markings. Features: Internal modulation variable 0-100% at 400 cps.; External modulation, variable amplitude 40-15,000 cps.; Unmodulated signal; variable audio 0-10 volts at 400 cps. Minimum leakage assured by double shielded RF and audio circuits. Air trimmed capacitors, permeability adjusted coils and electron-coupled oscillator circuit create top stability! Shielded 5-position range selector with follow-up coil switching. RF selector for Hi-Lo RF outputs. No RF leakage into AC primary of power transformer. In tan hammered enamel finish steel case 15 3/4x11x6 1/4". Weight, 14 1/2 lbs. Complete with 3 tubes, instructions and connecting cables.
No. 35C18. TRIPLETT MODEL 3432. NET... **\$67.11**

"EICO" MODEL 315 SIGNAL GENERATOR 75 KC 150 MC



TOP PERFORMANCE IN A RELIABLE, WIDE RANGE SIGNAL GENERATOR — AT LOW COST! New "Micro-Cycle" band spread vernier tuning permits accurate adjustment of any band width. ILLUMINATED DIAL has linear calibration—does not crowd up and assures accuracy of better than 1% on all ranges from 75 kc to 150 mc! 7 overlapping ranges are: 75 kc-220 kc, 200 kc-600 kc, 550 kc-1700 kc, 1.6 mc-5.0 mc, 5.0 mc-16 mc, 10 mc-50 mc, on fundamentals! 41 mc-150 mc on strong harmonic! 400 cy. audio output with microphone type connector on panel; 4-step multiplier, X1, X10, X100, X1000; ladder type attenuator; Signal output selector for choice of Audio, RF or External modulation; Voltage regulator tube maintains accuracy at voltage variations from 95 to 135 volts! Illuminated dial and BAND SPREAD vernier, plus stable circuit and perfect shielding makes Model 315 ideal for AM-FM-TV work! In steel case 12x13x7", with instructions, shielded cables with microphone type connector. For 110/130-volt, 60-cycle AC. Weight, 21 lbs.
No. 35B48. "EICO" MODEL 315 SIGNAL GENERATOR. NET... **\$58.75**

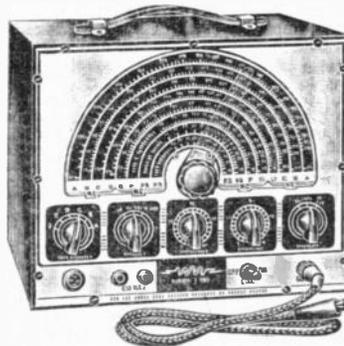
Popular E-200C 8-BAND AM-FM SIGNAL GENERATOR



8 BANDS—88 kc to 120mc! Speedy, Dynamic Signal Analysis by the exclusive "Precision" "Servicing by Signal Substitution" covered in easy-to-understand manner by booklet furnished with each instrument. Individually hand calibrated, this fine instrument features: Maximum of 1% deviation from calibrated frequency on ALL bands—ceramic spaced band switch—silver plated contacts—zero drift silver mica loading condensers —"Unit Oscillator" construction with positive freedom from effects of mechanical shocks!

0-1000 point Vernier Dial; 6 1/2" diameter; full vision; no glare; has Ball Bearing Planetary Drive—no backlash, nearly 8 ft. of deep etched scales! Twin engraved hair-line indicators eliminate parallax. Four types of signals: Unmodulated RF; 400-cycle modulated RF; Externally modulated RF (frequency or amplitude); and 400-cycle Audio Output. 400-cycle Sine Wave Audio Oscillator provides modulation and external test signal from zero to 50 volts—independently controlled. Direct reading variable modulation, 0-100% of RF signal at will. Direct reading AVC voltage, 0-50 volts at front panel. Black ripple steel case, 10 1/2x12x6 1/2"; with coaxial output cable, tubes, and copy of "Servicing By Signal Substitution." Wt., 18 lbs.
No. 35A5. SERIES E-200C MULTI-BAND SIGNAL GENERATOR. YOUR COST... **\$65.90**
"Precision" Time Payments: \$22.58 cash and \$7.84 monthly for 6 months.)

"APPROVED" LOW COST SIGNAL GENERATOR



8 BANDS, 100 kc to 75 mc—with 455 kc position indicated in red for quick reference. Large open-face frequency dial has multi-colored scales for 6 overlapping fundamental ranges from 100 kc to 25 mc, with Band F2 18-50 mc, and Band F3, 27-75 mc on harmonics. Phase shift audio oscillator and internal modulator for 440 cps., internal or external—and continuously variable from front panel from 0-100%; external modulation possible, 40-30,000 cps. Extremely low leakage on all bands; completely isolated from power line. Ceramic insulated, low drift, wide spaced variable condenser of "invar" metal used as frequency selector. 3-step RF attenuator and continuously variable RF-AF attenuator control—ultra stable 2-terminal RF oscillator, 6SH7 tube as cathode follower output; Lucite dial pointer with hair-line indicator. Pilot light line

indicator. With 4 tubes, cables, instructions. Steel cabinet is 8x10x12"; for operation on 105/120-volt, 60-cycle AC. Weight, 25 lbs.
No. 32A29. "APPROVED" Model A-200 Signal Generator. Net **\$39.50**

"BUILD YOUR OWN" WITH MODEL A-200 PARTS KIT!

Identical to factory-wired Model A-200 described above EXCEPT in KIT form! Complete with 4 tubes, cables, cabinet, operating instructions and circuit and pictorial diagrams for easy assembly!
No. 35C25. Model A-200 Signal Generator Parts Kit. Net... **\$24.50**

"EICO" 320 SIGNAL GENERATOR



7 BANDS! Range, 150 KC to 102 MC! TREMENDOUS SIGNAL GENERATOR VALUE! Features proven and highly stable Hartley oscillator providing calibrated frequency ranges from 150 kc to 34 mc on fundamentals—and to 102 mc on harmonics. Complete RF section features turret-type coil assembly, ceramic insulated variable condensers, can be aligned by use of any standard broadcast receiver. Pure 400-cycle audio sine wave available for audio testing and RF modulation. Hair-line indicator and widely

spread Band and frequency markings for fast, accurate frequency selections. Band selector. Audio and RF attenuators and Audio and RF Outputs. Male microphone connectors on front panel. Red lens panel indicator light. Steel cabinet is 10x8x4 3/4"; complete with tubes, instructions, cable; for operation on 105/125-volt, 60-cycle AC power. Weight, 10 lbs.

No. 35B42. "EICO" Model 320 Signal Generator. NET EACH... **\$29.95**

"EICO MODEL 320 SIGNAL GENERATOR IN KIT FORM

Complete kit of parts, tubes, cabinet, panel—everything to complete the above described Signal Generator, with easy-to-follow schematic and pictorial diagrams—easy to assemble in an evening!
No. 35B31. "EICO" Model 320 Signal Generator Parts Kit. Net **\$19.95**

RCP 710 POCKET SIGNAL GENERATOR



Quick, complete alignment of any AM set by means of fixed end-of-band frequencies of 1550 kc and 550 kc—plus IF fixed frequencies of 456 kc and 465 kc! Operates on 115-volt AC or DC, has isolated power supply, no burn-out, shock or short-circuit! Accurate in calibrations, more than sufficient output! The ideal RF oscillator for in-the-shop or on-the-job alignments. Pocket size, 3x6x2 3/4"; with tubes, output cable, line cord, instructions. Weight, 2 lbs.

No. 35A95. RCP Model 710 Pocket AM Signal Generator. NET EACH... **\$17.59**

OSCILLOSCOPES—TELEVISION MARKER—SWEEP GENERATORS



HICKOK 505A OSCILLOGRAPH
 USES NEW 5U1 5-INCH C. R. TUBE FOR EVERY AM-FM-TV SERVICE NEED. When used as companion instrument with Hickok Model 292X Microvolt Generator as listed on page at left provides the finest combination for dynamic visual analysis of all AM-FM and Television receivers possible! Model 505 has these **EXCLUSIVE** features: **Wide and narrow band F. M. oscillator**—separate FM oscillator unnecessary! FM narrow band frequency is 1000kc with sweep width of 0-30kc, modulating frequency, 60 cps. FM wide band frequency is 50mc; sweep width, 0-450kc; modulating frequency, 60cps. **Linear sweep range, 10 cycles to 25kc.; Amplifier frequency ranges: Vertical, 30cps to 1mc; Horizontal, 10 cycles to 50kc.** Input impedances: Vertical, 1-meg, 25mmf.; Horizontal, 4-meg., 25mmf.; Horizontal, direct, 3-meg.—**Vertical deflection sensitivity, 30mv per inch deflection to 1mc; Horizontal, 0.2 volts (rms) /inch; horizontal direct, 15-volts (rms) /inch.** Model 505 generates its own frequency modulated signal or will modulate the output of any good AM signal generator; demodulator permits viewing any RF signal. Return Trace Eliminator; Signal Tracer Jack for listening to any signal on tube screen; Sinusoidal sweep with phasing control; 3-range frequency compensated attenuator network! Complete with 8-tubes and 5-inch type 5U1 C.R. tube, in steel cabinet 14"x11 1/2"x19"; Satin Chrome panel. For 105-125V., 50-70 cy. AC. Wt., 35 lbs.

Stock No. 32A12; HICKOK Model 505A Oscillograph, Net. \$179.00

HICKOK MODEL 195B OSCILLOGRAPH—5-INCH C.R. TUBE. The practical equivalent of Model 505A described above except does NOT have built-in RF Sweep Generator. Model 195B has these important features: high gain, wide band Vertical amplifier with 30mv per inch deflection to 1mc; FM sweep oscillator, 120 cps sweep; Sinusoidal sweep circuit; phasing control for proper IF, RF and Discriminator; Demodulator; Intensity Modulator; Return Trace Eliminator. Model 195B is designed as the "top" oscillograph for use with any good frequency modulated RF signal generator—especially Hickok Model 288X shown on page at left. Complete with 6-tubes plus 5" C.R. tube, in steel cabinet 8 1/2"x13"x18 1/2"; Satin Chrome panel. 105-125V., 60-70cy AC. Wt. 25 lbs.

Stock No. 32B11; HICKOK Model 195B Oscillograph, Net \$156.00

HICKOK MODEL 610A TELEVISION ALIGNMENT SIGNAL GENERATOR

MODEL 610A; 3-instruments-in-1! Visually aligns a Television Receiver to any one of the twelve TV channels from 59mc to 216mc! Provides services of TV Sweep Generator, Marker and Trap Alignment Generator, Crystal Calibrator—all in a single instrument! Features, 0-15mc variable sweep width, built-in markers directly calibrated on dial to .05mc; 20-40mc range for trap alignment of Sound and Video IF with directly calibrated markers; provision for use of external marker-generator. **Controlled output of marker strength, 20mc-40mc, in pip oscillator and absorption type marker; 0.75 volt output permits stage-by-stage alignment; 5-step ladder attenuator; dial frequency calibrations readable to accuracy of 5%; stand-by switch for "B" supply. Phasing control. Provision for crystal control on any TV channel by addition of plug-in crystal as listed below. Satin Chrome panel in steel case size 14x16 1/2"x8".** Weight, 31 lbs. Complete with tubes and instructions, for 115v. 60cy. AC. power.



Stock No. 35C83; HICKOK Model 610A T-V Generator, Net \$195.00
PLUG-IN CRYSTALS FOR MODEL 610A; TV Channels 2 to 12; specify individual channels desired on order. No. 15A135, Net Each, \$8.40

HICKOK 620 LINEARITY-PATTERN GENERATOR



PROVIDES FACILITIES FOR COMPLETE CHECK OF PICTURE CHANNEL OF TELEVISION RECEIVERS independent of actual TV station operation! Merely connect Model 620 to TV receiver antenna and presto!—you have a clear picture on the picture tube screen of any TV receiver—no need for waiting for TV station pattern!
FEATURES: Crystal controlled output frequencies for 4-channels (2 through 5) with only one channel necessary for servicing any TV receiver to obtain perfect operation and alignment of its video circuits! Provides pattern on TV tube for checking and aligning Horizontal and Vertical Linearity and Drive controls; Horizontal and Vertical Width; Height and Hold Controls; horizontal A.F.C.

circuits; detects hum in horizontal deflection circuits, checks relative receiver sensitivity. Output voltage 50-5000 microvolts, all modulating frequencies crystal controlled. **Horizontal lines, 8 or 9. Vertical lines, 12; with selection of both simultaneously as a Cross Hatch pattern, or separately as desired!** Output selector has "standby" position with red ruby panel indicators "Standby" and "Operate" to indicate to operator when "B" power to plates of tubes in "on"; separate master off-on power switch. Output control continuously variable. Satin Chrome panel in blue hammer-tex steel case size 8 3/4"x11 1/4"x6 1/2"; wt. 15 lbs. Complete with test leads and instructions. Power: 105-125V., 60 cy. AC.
No. 35C3; HICKOK Model 620 TV Cross-Hatch Generator, \$144.85 Net.

TELEVISION FIELD STRENGTH METER—Turn to Page 125 for detailed description of this MONEY-MAKING "MUST"—measures actual TV Station signal strength in any location; cinches sales of TV antennas and receivers for Serviceman or Dealer!

PRECISION SERIES E-400 TV MARKER-SWEEP

2 TO 480MC SWEEP SIGNAL GENERATOR—Multiple quartz crystal MARKER-CALIBRATOR oscillator BUILT-IN! 5-Ranges reading 2-240mc on 6 1/2-inch dia. etched dial in 3-colors; dial is high-ratio rim driven, zero backlash! 280-480mc bands harmonically calibrated. Lucite hair-line indicator eliminates parallax in readings. High output and accuracy attained by true VHF components and circuits; **Narrow and wide band sweep, 0-1mc and 0-10mc. Wide range phasing control. Multiple crystal Marker-Calibrator oscillator built-in, has 4-crystal sockets on panel with rotary selection of crystals; **10.7mc and 2mc crystals included with instrument.** Simultaneous AM and FM test facilities; triple shielded, stepless, quiet. Entire instrument is multi-section copper-plate shielded; double-pi line filter. Tubes: 3 ea. 6J6 G 6C4, 1 ea. VR-105 and 6X5. Complete with coaxial test cables, quartz marker crystals, instructions. Steel case is 10 1/2"x12x6". Weight, 20 lbs. (Should be used with ES-500 Oscilloscope below.)**



Stock No. 35B49; "PRECISION" Model E-400, Net, \$122.20
 (Precision Time Payments: \$42.03 cash, and \$7.75 monthly for 12 months.)



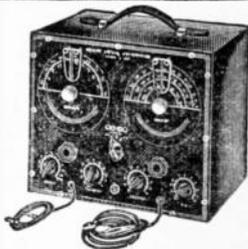
PRECISION ES-500 OSCILLOSCOPE
HIGH SENSITIVITY 5-INCH OSCILLOSCOPE! for ALL TV-FM-AM service needs and highly recommended for use with Model E-400 described above as YOUR basic Television-FM Service Lab. **FEATURES:** Highly stable, extended range Vertical Amplifier, response to 1mc; 2-meg. input resistance; 20mv vertical sensitivity; 3-step vertical input attenuator, X1, X10, X100 with additional continuous vernier control-cathode follower input circuit! **Extended range horizontal amplifier, response to 1mc—1/2-meg. input resistance. Linear multi-vibrator sweep circuit 100cy-30kc, linear throughout entire range!** Amplitude controlled synch. selection; "Z" axis modulation terminals for blanking, timing, etc. Line sweep phasing control; **phone jack monitoring of signal as viewed on 5-inch tube screen plus direct access to H. and V. deflection plates (on rear of cabinet.)** Rotatable and removable light shield and calibrating screen. 8-tubes plus 5CP1/A C.R. tube. With complete instructions in steel cabinet 8 1/4"x14 1/2"x18". Weight, 45 lbs.

No. 35B50. "PRECISION" Model ES-500, 5" Scope, Net. \$146.50
 (Precision Time Payments: \$50.16 cash and \$9.31 monthly for 12 months.)

LOW-COST TV TESTERS—"WIRE-YOUR-OWN" KITS

MARKER-SWEEP GENERATOR

"APPROVED" MODEL A-400 COMBINATION Television and FM Marker-Sweep Generator, RANGE 0-227mc with variable sweep width from 0-12mc; crystal controlled output for any frequency from 5-230mc.; ample voltage output for stage-by-stage alignment; output impedance is 5-125 ohms. Direct calibrated markers 20-40mc for trap, sound and video IF alignment; markers controllable as to output strength in the pip oscillator—unmodulated RF signal to provide marker pips simultaneously with main variable oscillator! Frequency range, FM modulated or RF, (RF by turning off sweep mechanism) 2-60mc; 20-120mc; 168-227mc; sweep frequency at 60cps, sweep dial directly calibrated in frequency, split stator sweep mechanism is stable, non-jittery. Horizontal 60cps sweep voltage. Phasing control; external crystal jack for IF marker crystals, available at additional cost of \$8.00 each, (.01% accuracy)—state frequency desired on order! 7-tubes, in grey hammertone steel cabinet 8"x10"x12"; wt. 25 lbs. Complete with operating instructions, circuit diagram and guarantee.



No. 35B53; "APPROVED" Model A-400 Sweep Generator, Net, \$79.50

SWEEP SIGNAL GENERATOR KIT

"APPROVED" Model A-300K; Range 2-227mc in 3-bands with no switching, 2-77mc; 40-154 mc; 151-227mc! 10/1 ratio vernier tuning, horizontal sweep output, sweep width 500kc to approx. 10mc. Output useable as Frequency modulated or pure RF. Max. output, 500,000 UV. Phasing control, selector switch for FM-RF-CAL; high frequency insulated, power line filter built-in. 105-125V. 60cy. AC. All parts, tubes, cabinet, panel, instructions.



No. 35D59; A-300K PARTS KIT, Net.... \$24.50

"APPROVED" MODEL A-300; FACTORY ASSEMBLED. Complete FM and Television Sweep Signal Generator as described above except completely factory wired and tested. Size 8"x10"x12"; wt. 25 lbs.
No. 35B88; "APPROVED" MODEL A-300 Cptly wired, Net..... \$39.50

"EICO" 5" OSCILLOSCOPE KIT

BUILD-YOUR-OWN 5-INCH SCOPE \$39.95. "EICO" provides you a complete, precision quality 5-Inch scope with these high price features: Horizontal sweep linear frequency variable 15-30,000 cps; Deflection sensitivity, .65 volts per inch full gain! All controls on front panel, instant switching to CR tube deflection plates or amplifier. Full frequency response from 50-50,000cps! Front panel provision for AC test voltage, external synch onization and intensity modulation; 5-tubes plus 5BP1 CR tube; All tubes, parts, panel, cabinet, size 8 1/2"x13x17"; photo-diagram instructions. wt. 30 lbs. 110-125V 60cy.
No. 35B44; "Eico" 400 Scope Kit, Net,.... \$39.95



No. 35B63. "EICO" MODEL 400 5" OSCILLOSCOPE. Completely factory wired and tested, all tubes, instructions. Net Each \$69.95

CONDENSER TESTERS - SIGNAL TRACERS - POCKET MULTI-METERS

SPRAGUE "TO-3" DE LUXE TEL-OHMIKE



TO-3 is a bridge type Resistance and Capacitance Analyzer with BUILT-IN DC Volt-Milliammeter! Tel-Ohmike locates "open", intermittent, or "shorted" condensers — without removing them from the circuit! Checks motor-starting condensers, and measures insulation resistance of Motors, Transformers. Capacity Ranges: .00001 to 2,000 MFD. in 4 Ranges; Power Factor Ranges of 0-50% at 60 cycles. Insulation Resistance: 0-2500 Megohms; Electrolytic Leakage: in MA at rated DC voltage; power factor of electrolytics with rated polarized voltage applied. Resistance Ranges: 2.5 Ohms to 25 MEG. in 3 Ranges; DC Volts: 0, 15, 150, 750; DC MA: 0, 1.5, 15, 75. One pair of marked binding posts, and 5 controls for "Speedy-Check" service on all functions. Steel case is 13 1/4 x 10 1/8 x 5". Weight, 15 lbs. 115-volt, 60-cycle AC. No. 35A19. Model TO-3 De Luxe TEL-OHMIKE. **\$58.51** YOUR COST.

RCP "DYNATRACER"—AM-FM-TV SIGNAL TRACER



New, Improved Model 777-A! Provides high amplification to trace the signal, or any variation in its intensity, from the antenna, step-by-step through each of R.F., I.F., A.F. — without operating any switches or changing to different channels. Accurate Meter readings of "Gain" of any stage or of complete receiver with negligible disturbance to set under test due to input capacity of only 3 mmfds. Attenuation, 10,000 to 1 by ladder type, vernier control. Sensitivity, 10,000 Microvolts full scale! Frequency coverage — through 150 mc! Traveling Detector, probe housing for detector and amplifier at end of 50" lead. 4" Alnico V PM Speaker, with switching for Meter or Speaker indication alone — or both simultaneously! In steel case, size 8 1/8 x 11 x 6 5/8". Weight, 9 1/2 lbs. For 105/135-volt, 50/60-cycle AC. Tubes: 1 each, 6AT6, 7A7, 7B5, 6X5. No. 35B28. RCP DYNATRACER Signal Tracer Complete. NET **\$40.67**

"FERRET" MODEL 721 SERVICE SPEEDER!



Provides: (1) Test Speaker, 6" PM with low resonant point, test fields of 500, 1000, 2500 Ohms. Voice coil permits substitution of any output transformer. Rotating Switches permit matching to any single or push-pull output tubes. (2) Selective substitute paper and electrolytic condensers; substitute resistors—600-volt Paper capacitors of .001, .01, .02, .05, .10 and .25 Mfd.; 450-volt Electrolytics in capacities of 30-50-80 MFD. Resistance substitutions of: 400-50,000-100,000-500,000 Ohms; 2.2 and 5 Megohms. Aluminum cabinet 10 1/4 x 10 1/4 x 5 1/2"; wt. 7 lbs. Stock No. 32A25. "Ferret" Model 721. Your Cost **\$29.95**

THE BEST in WIDE-RANGE "POCKET" MULTI-METERS



(Left above) PRECISION SERIES 40. 1,000 o.p.v., 31-range AC/DC compact, wide range circuit tester; 3" meter; rotary range selection; with all ranges, including 6,000-volt and 5-Meg. self-contained! 6 AC/DC/Output Volts ranges of 0, 3, 12, 60, 300, 1200, 6000! 4 DC Current Ranges of 0, .6, 6, 60, 600 M.A. 3 Resistance Ranges of 0, 50, 500,000 ohms and 0-5 Megohms! 6 db. Ranges, —22 to +70 db. Anodized etched aluminum panel in bakelite case, size 3 3/4 x 6 1/2 x 2 1/2". Weight, 3 lbs. No. 35B91. Precision Series 40 Multi-Meter. Net Each **\$24.25**

(Left center above) TRIPLET Model 666-R, NEW Pocket Volt-Ohm-M.A. New "short-proof" construction with all components in separate molded receptacles! Totally enclosed selector switch, recessed knob! 3" lifetime meter provides these Ranges: 0, 10, 50, 250, 1000, 5000 AC and DC Volts; 0, 10, 100 DC M.A.; 0-1 DC Amps.; 0, 3000, 300,000 Ohms; 0-3 Megohms! Uses 2 penlight and 1 #1 flashlight cell for all ranges! 50" test leads with banana type plugs included. Pre-calibrated rectifier. Molded case is 3 1/16 x 5 7/8 x 2 9/16". Weight, 2 lbs. No. 35A103. TRIPLET Model 666-R, NET EACH **\$24.00**

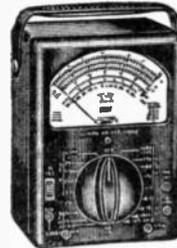
(Right center above) TRIPLET Model 666-HH "Hand size" Test Laboratory. 3" Lifetime meter, integral with panel, provides these Ranges: 0, 10, 50, 250, 1000, 5000 AC and DC volts (at 1000 o.p.v.); 0, 10, 100, 500 DC M.A.; 0, 2000, 400,000 Ohms (12 and 2400 center scales); 3 recessed banana jacks for all ranges. In molded case 3 1/6 x 5 7/8 x 2 9/16". Weight, 2 lbs. Complete with batteries and 50" test leads. No. 35A29. TRIPLET Model 666-HH. NET EACH **\$21.56**

BLACK LEATHER CARRYING CASE FOR MODELS 666-HH or 666-R. (With room for test leads and instruction book.) No. 35B69. Net **\$4.85** (Shown at right above) SUPERIOR Model 770. 3" METER—LOW COST! D'arsonval type 1-mil. meter, 2% accuracy, provides these RANGES: 0, 7.5, 15, 75, 150, 750, 1500 DC Volts at 1,000 o.p.v.; 0, 15, 30, 150, 300, 1500, 3000 AC Volts; 0, 1.5, 15, 150 DC M.A.; 0-1.5 DC Amps.; 0-500 Ohms; 0-1 Megohm, zero adjustment holds for BOTH resistance ranges! Rounded corner, molded case 3 1/8 x 5 7/8 x 2 1/4". black etched panel with white depressed letters; with batteries, test leads. Weight, 3 lbs. No. 35A102. SUPERIOR Model 770 V.O.M.A. NET EACH **\$13.90**

Here's the "CREAM OF THE CROP" in MULTI-METERS



TRIPLET MODEL 625NA (Mirror Scale)



TRIPLET 630



SUPREME MODEL 640 In Shock-Proof Case

TRIPLET MODEL 625NA (illus. left above). Popular 39-Range Volt-Ohm-Milliammeter—10,000 and 20,000 o.p.v. DC sensitivity; 10,000 o.p.v. AC sensitivity. Resistance to 40 Megohms—6" "Red Dot" 50 micro-amp. meter! Meter Ranges are: 0, 1.25, 5, 25, 125, 500, 2,500 DC Volts at 20,000 Ohms-per-volt; 0, 2.5, 10, 50, 250, 1,000, 5,000 DC and AC Volts at 10,000 ohms-per-volt; 0-50 DC Micro-amps.; 0, 1, 10, 100, 1,000 DC Mils.; 0-10 DC Amps.; 0, 2,000, 200,000 Ohms (12-1,200 center scale); 0-40 Meg. (240,000 center scale); six DB Ranges from —30 db. to +69 db.; Six Output Ranges. 5" mirror meter scale. Two banana jacks and high voltage jack for 2,500 and 5,000 volts. In black molded case, size 2 1/2 x 5 1/2 x 6". Weight, 3 lbs. With 50" test leads, detachable alligator clips, and batteries. **\$44.10**

No. 35A22. Triplet Model 625NA Multimeter. Net Each **\$44.10**

No. 35B70. Leather Case for Model 625NA. Net Each **\$5.39**

SENSATIONAL TRIPLET MODEL 630 (Center above). 20,000 Ohms/Volt; 5,000 Ohms/Volt—32-Range V.O.M.A. has 5 1/2" Meter flush with case surface. Resistors, shunts, selector switch, batteries, housed in molded base, integral with selector switch! Each resistor in sealed, molded compartment. All switch contacts sealed against dirt! RANGES: 0, 3, 12, 60, 300, 1,200, 6,000 DC Volts at 20,000 ohms-per-volt! Same ranges for AC volts at 5,000 o.p.v.; Condenser in series for Output Volts for five Output Volts Ranges. Resistance Ranges are: 0, 1,000, 10,000 (4.4 and 44 center scale) and 0, 1, 100 Meg. Current Ranges: 0-60 DC Micro-amps.; 0, 1.2, 12, 120 DC M.A., and 0-12 Amperes. Six DB Ranges from —30 to +70 db. Banana Jacks. 50" test leads with removable alligator clips. Size, 3 1/4 x 5 1/2 x 7 1/2". Weight, 4 lbs. No. 35B67. "Triplet" Model 630 Volt-Ohm-Mil-Ammeter. Net **\$36.75**

Leather Carrying Case for Model 630. Model 639, fine black leather with room for 630 Tester, instruction book, and accessories. No. 35B68. Net Each **\$5.63**

SUPREME MODEL 640 SHOCK-PROOF MULTI-METER (Right above). Just the thing for the "service-car"! 4" METER—20,000 o.p.v. DC volts ranges of 0, 5, 25, 100, 500, 1000, 5000 volts. 1,000 o.p.v. DC volts and AC volts ranges of 0, 5, 25, 100, 500, 1000, 5000 AC and DC volts! "Output volts" with same ranges as AC volts. Resistance ranges of 0, 2000, 200,000 ohms and 0-20 Meg. on self-contained batteries! DC M.A. ranges of 0, 10, 100, 500 M.A. Pocket size steel case with hinged steel cover is 5 x 7 1/2 x 3". Weight, 4 lbs. With batteries and test leads. No. 32A33. SUPREME Model 640 Multi-Meter. Net Each **\$38.66**



RCP GIANT METER MULTI-TESTER

MODEL 462. HIGH SENSITIVITY—LOW COST! 6 1/2" METER. 20,000 o.p.v. DC; 5,000 o.p.v. AC! Ranges: 0, 2.5, 10, 50, 250, 1000, 5000 DC Volts at 20,000 o.p.v., and same ranges AC Volts at 5000 o.p.v.! 0, 200, 200,000 Ohms; 0-20 Megohms, all on self-contained, easily replaceable flashlight batteries! 0-100 Micro-amps. and 0, 10, 100, 500 M.A. (DC); 10 to 55 db. Extra long, clearly marked meter scale together with 50 micro-amp. sensitivity permits checking delicate circuit values on AM-FM-TV sets with negligible "loading", particularly on AC! All shunts and multipliers have accuracy held to 1%. Highly polished hardwood case is 4 1/4 x 8 1/2 x 10 1/8". Weight, 5 lbs. No. 35B64. RCP Model 462. NET EACH **\$40.67**

5,000 O.P.V. BARGAIN POCKET TESTER

B-A special purchase makes possible this extra-value offering of famous RCP Model 449A. YOU SAVE \$5.00! Features: 3" wide vision meter has 5,000 ohms-per-volt sensitivity; 18 pin-jacks eliminate troublesome selector switches and provide these Ranges: 0, 5, 50, 250, 1000 DC Volts at 5,000 o.p.v.; 0, 5, 50, 250, 1000 AC and Output Volts; 0, 2000, 20,000, 200,000 Ohms; 0-2 Megohms; —5 db. to +46 db.; 0, 0.5, 10, 100, 1000 DC M.A. In pocket size case, 3 1/16 x 5 7/8 x 2 1/8". Complete with batteries. No. 37T1022. RCP Model 449A. B-A SPECIAL. **\$19.50**



"EICO" MODEL 145 MULTI-SIGNAL TRACER KIT

All parts and step-by-step assembly instructions to build the Multi-Signal Tracer shown at left! Features complete audible signal tracing from antenna post to ground of IF, RF, FM, Audio and Video circuits. Has 3-tube amplifier and output selector for "Test Amplifier", "Signal Trace" and "Test Speaker" functions. Amplifier may be used separately as small P.A. or Intercom system! Provision for external VTVM use for actual stage-by-stage gain comparison. Complete with diode probe, 6SJ7, 6K6, 6X5 tubes, panel, cabinet 10x8x4 1/4". Wt., 9 lbs. No. 35C61. "EICO" Model 145 Kit. **\$18.95** NET EACH.



"EICO" MODEL 145 MULTI-SIGNAL TRACER. Factory wired, tested. Has all features listed above, complete with tubes, test leads and diode probe. No. 35C66. "EICO" Model 145. Wired, complete. **\$28.95** NET EACH.

MULTI-METERS

ELECTRONIC VACUUM TUBE AND 20,000 OHMS-PER-VOLT TYPES
FAMOUS LEADING MAKES—"BEST VALUES" at a Wide Choice of Prices



HICKOK MODEL 209A

Laboratory type Electronic Volt-Ohm-Capacity-Milliammeter with NEW FEATURES: 9" METER, Peak-to-peak Kilovolt range; Optional Zero center or Zero left scale on certain ranges; 0/1200-volt AC range—to make Model 209A the outstanding, top quality V.T.V.M. on the market for measuring ANY resistance or capacitance. AF, RF and IF voltages from 30 cycles to 300mc; measures DC voltages across AVC, discriminator and limiter circuits (rejecting all AC voltages)—polarity reversing switch eliminates changing leads on DC measurements! Input impedances are 15 Meg. on AC; 12 Meg. shunted by 6 mmf. on DC. VT Ranges

are: 0, 3, 12, 30, 120, 300, 1200 AC Volts, DC Volts DC Mills.; Cap.: 0/10000 mmf. in 2 ranges and 0/10000 mf. in 5 ranges; Ind.: 50 mh-100 henries (via conversion chart); Ohms: .1 Ohm to 10,000 Meg. in 8 ranges! Six tubes including 2 rectifiers and voltage regulator. Satin Chrome panel in blue hammertex enamel steel case, size 9x11 1/2x7". Weight, 18 lbs. Complete with probes and test leads, for 105/125-volt, 50/70-cycle AC current. No. 35C36. HICKOK MODEL 209A. NET EACH **\$119.40**

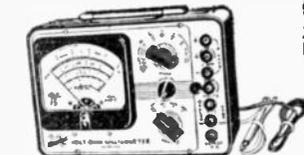
HICKOK MODEL 203

ELECTRONIC VOLT-OHM-MILLIAMMETER. Has same test ranges (except peak-to-peak function) as Model 209A illustrated and described above, except has 4 1/2" METER! Has input impedance of 15 meg. on DC scales; 12 meg. (shunted by 6 mmf.) input on AC volts scales. Measures AC voltages to 300 mc! For 30,000 DC volts, include type PR-30 DC probe listed below, in order. Steel case, 9x11 1/2x7". Weight, 18 lbs. No. 35A38. Model 203. Net... **\$89.40**



30,000 DC VOLTS PROBE FOR MODELS 203 and 209A

Essential for TV servicing Model PR-30 High Voltage DC Probe consists of 4-ft. high voltage cable with black bakelite probe housing for required multiplying resistance; has microphone type connector and two removable probe tips. No. 35A99. Probe for Models 203 or 209A. Each **\$10.80**



HICKOK MODEL 435 V.O.M.A.

20,000 opv DC; 5000 opv AC! Completely BATTERY OPERATED—STURDY, COMPACT, PORTABLE! AC-DC Volts Ranges are 0, 2.5, 10, 50, 250, 1000, 5000 DC volts at 20,000 opv and AC volts at 5000 opv. Four Ohms ranges, 0-10 megohms! 0, 2.5, 10, 250, 1000 DC MA and 0-10 DC Amps. Output volts, same ranges as for AC volts. —30 to +55 db. in 5 ranges. 3 3/4", 50-micro-amp meter with clearly etched scales. Completely portable, no AC power required for any range—uses 1 only 4 1/2-volt "C" battery! Steel case, 8 1/4x6x4 1/4". Weight, 6 1/2 lbs. No. 35B52. HICKOK Model 435 Battery Operated V.O.M.A. NET EACH **\$37.50**

"PRECISION" Vacuum Tube Voltmeter-Megohmmeter

Combines both V.T.V.M. and Standard 1000 o.p.v. measurements, with 8 Zero-center DC Volts ranges to 6,000 volts; 6 Circuit-probing zero center DC V.T.V.M. ranges 3 to 600 volts; with input resistances to 133 1/3 meg. at 6,000 volts; 6 Ohm-Megohm ranges from 2,000 ohms to 2,000 meg-ohms; plus 8 AC-DC Output voltage ranges from 3 to 6,000 volts at 1,000 o.p.v.; 7 DC. Current Ranges from 600 micro-amps to 12 amps; 8 Decibel ranges from minus 26 to plus 70 db. 7" rectangular meter. Steel case 10 1/2x12x6". Weight, 19 lbs. Complete with tubes, battery and Coaxial test probes. No. 35A4. Series EV-10-MCP V.T.V.M.-Megohmmeter. Net... **\$88.15**

Precision Time Payment Plan: \$30.62 cash and \$8.64 monthly for 8 months.

Precision Type TV-1 Super-High Voltage Test Probe for Model EV-10-MCP. Extends voltage range of EV-10 instruments to 60,000 DC volts. Positive ground and HV connections, internal and external protective grounding—full handle-length grounded internal flash-over shield; heavy shielded cable. No. 35A97. Precision TV-1 Probe for EV-10 Instruments. NET EACH **\$15.14**

PRECISION SERIES 85

34-Range, High Sensitivity Test Set—Engineered for AM, FM, TV, Laboratory! 4 5/8", 50-microamp meter with long scales!

SERIES 85—20,000 o.p.v. DC; 1,000 o.p.v. AC Features: Voltage Ranges are 0, 3, 12, 60, 300, 1,200, 6,000 Volts DC at 20,000 Ohms per volt; same ranges at 1,000 ohms per volt for AC and Output Volts! DC Current Ranges of 0-120 Microamps, 0, 1.2, 12, 120 MA; and 0, 1.2, 12 DC Amperes! Resistance Ranges, all on self-contained batteries are: 0, 6,000, 600,000 Ohms, 0, 6, 60 Megohms! DB Ranges of —26 to +70 db. Rotary selector switch and 4 5/8", 50 microampere meter—only 2-tip jacks for all ranges and functions. 2% accuracy! No. 35B89. Series 85-Multi-Tester. NET EACH **\$37.97**

With Batteries and Test Leads. Net Each **\$37.97**

Series 85—Precision Payment Plan: \$13.42 cash and \$4.45 monthly for 6 months. 60,000-Volt Hi-Voltage Test Probe for Series 85. Extends DC volts range to 60,000 volts, safely! No. 35A100. Series TV-2 Probe. Net Each **\$15.14**

Fine Leather Carrying Case for Series 85 above. No. 35B16. Net Each **\$8.57**



RCA VOLTOHMYST TYPE 195-A

RCA MODEL 195-A VOLTOHMYST

AC ELECTRONIC MULTIMETER—Constant Accuracy! Provides in ONE instrument, electronic measurements of DC Volts, AC Volts-Decibels, AF Volts, Resistance, Output Volts, "FM" Alignment Indicators! Electronic overload protected meter has printed brass scales, anti-static treated plastic case. Electronic DC Volts Ranges of: (10-Meg. constant input) 0, 5, 10, 50, 100, 500, 1000; AC Volts-Decibels, 0, 5, 10, 50, 100, 500, 1000 by linear diode rectifier, direct reading on DC Volts scales! Resistance, 0.1 Ohm to 1,000 Megohms, one setting for all ranges—20 cy. to 100 kc. flat freq. response to 100 volts with input impedance of 200,000 ohms at 170 volts! Complete with tubes, ground lead, isolating probe, cable and instructions. Reverse etched brushed Chrome Panel. Size, 9 5/8x6 3/8x6 3/4". 115-volt, 60-cycle AC. Weight, 16 lbs. No. 35A32. Model 195-A Voltohmyst. Net **\$79.50**

No. 35A101. RCA PROBE WG-288. Extends DC Volts range to 30,000 volts on Voltohmysts 195 and 195A, Chanalyst 170A. **\$15.95**

ALL RCA AM, FM, TV INSTRUMENTS AVAILABLE FROM B-A: Space does not permit of detailed, illustrated listing of the many RCA instruments available. Please write for special illustrated and complete descriptive sheets, specifying type of instruments wanted. Thank you!

SIMPSON 390 VOLT-AMP-WATT METER

Provides facilities for AC Voltage, Current, Wattage measurement—8 ranges are: AC Volts, 0, 150, 300; AC Watts, 0, 300, 600, 1500, 3000; AC Amperes, 0, 3, 15 amps. Enables voltage and current use tests of practically all makes of Appliances, Radio Sets, Television Sets, Refrigerators, Small Motors! Recess etched panel has Volt-Ampere combinations clearly indexed to the proper wattage range on meter scale. 3" meter has all ranges of the instrument clearly marked and widely separated for easy and error-proof meter readings! Meter normally reads Volts; panel push-button for Ampere and Watts readings. With break-in plug, test leads, manual. Size, 3x5 1/4x2 1/2". Weight, 2 lbs. No. 35B20. Simpson Model 390. Net... **\$38.71**



"Hickok" Model 900-A Volt-Ampere-Wattmeter. AC circuit analyzer: Reads AC Watts 0, 20, 100, 500, 1000, 2000; AC Amps. 0, 1.3, 6.5, 13, 26; AC Volts 0, 130, 260; AC Milliamps 0-260. 3 3/4" Meter scale. Size, 9 1/2x6 1/4x3". Weight, 8 1/2 lbs. No. 35A41. "Hickok" Model 900-A Appliance Tester. Net Each **\$59.07**

POPULAR SIMPSON 260 V.O.M.A.

High sensitivity (20,000 o.p.v. DC volts; 1,000 o.p.v. AC volts) set tester for AM, FM, TV Servicing! Provides AC and DC Volts ranges of 0, 2.5, 10, 50, 250, 1000, 5000 volts; AC output volts ranges of 0, 2.5, 10, 50, 250, 1000; Current Ranges (DC) of 0-100 Microamps, 0, 10, 100, 500 M.A.; 0-10 Amps.; 5 DB ranges from 12 to 55 db.; Ohms, 0, 2000, 200,000 with center scales of 12 and 1200 ohms; Megohms, 0-20 with 120,000 ohm center scale on this high range! Dependable resistance readings 1/2-ohm to 20-Meg! Unit-molded construction provides individual compartment for each resistor, permits short, direct connections! 5" Meter has extra clear markings—all ranges! With test leads and manual in molded case, 5 1/4x7x3 1/8". Weight, 5 lbs. No. 35A60. Simpson Model 260. Net. **\$38.17**



Simpson Model 260 in ROLL TOP SAFETY CASE. Heavy molded bakelite case with test lead space—bakelite roll cover protects instrument, rolls up out-of-way at a touch! Complete with test leads. Weight, 9 lbs. No. 35B51. SIMPSON Roll-Top-Case Model 260. Net... **\$45.03**

No. 35A98. 25,000-VOLT DC PROBE. Increases DC volts range to 25,000 on any Simpson Model 260 instrument. Each **\$12.59**

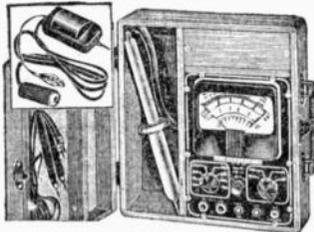
"EICO" V.T. VOLTMETER KIT

It's easy to build your own Model 221 Electronic AC/DC Voltmeter-Ohm-Megohm meter with this kit and SAVE a lot of money! Complete parts kit includes 4" meter with accuracy of 2%; Ranges: 0, 5, 10, 100, 500, 1000 AC and DC volts by Electronic measurement! Electronic Ohmmeter ranges are 0.2-ohm to 1000 megohms DC input resistance—zero center for TV discriminator alignment. DB scales of —20 to +55 db. Steel case is 9 1/2x6x5". Weight, 10 lbs. 110/125-volt, 60-cycle AC. All parts, photo-diagram, instructions. No. 35B17. "EICO" 221-K V.T. Voltmeter Kit **\$23.95**



SUPERIOR MODEL TV-20

20,000 O.P.V. MULTI-METER, TELEVISION KILO-VOLTMETER! Includes all accessories, facilities for any required AM, FM or TV service! 9 DC Volts Ranges: 0, 2.5, 10, 50, 100, 250, 500, 1000, 5000, 50,000 DC Volts at 20,000 ohms-per-volt! AC Volts Ranges: 0, 2.5, 10, 50, 100, 250, 500, 1000, 5000 AC Volts at 1,000 o.p.v., Output AC Volts: Same ranges as for AC volts. DC Current Ranges: 0-50 micro-amps., 0, 5, 50, 500 m.a. and 0-5 DC Amps. Resistance: 0, 2000, 20,000 ohms, 0, 2, 20 Megohms! 7 DB ranges, 4 to 62 db. All meter ranges on self-contained batteries! With attached hi-volt probe, Silicon VHF diode probe, test leads, and instructions. Oak case is 4 1/2x10 1/4x11 1/2". Weight, 10 lbs. No. 35C2. "Superior" Model TV-20 Kilo-Voltmeter-Ohm-M.A. **\$39.95**



istance: 0, 2000, 20,000 ohms, 0, 2, 20 Megohms! 7 DB ranges, 4 to 62 db. All meter ranges on self-contained batteries! With attached hi-volt probe, Silicon VHF diode probe, test leads, and instructions. Oak case is 4 1/2x10 1/4x11 1/2". Weight, 10 lbs. No. 35C2. "Superior" Model TV-20 Kilo-Voltmeter-Ohm-M.A. **\$39.95**



RECEIVING TUBES

GUARANTEED BRAND NEW AND PERFECT

RECEIVING TUBES MAY BE ASSORTED FOR QUANTITY PRICE

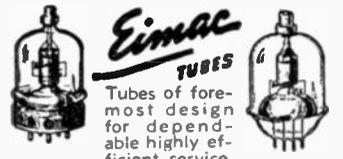


Tube Type	List Each	Net 1-49	Net 50-99	Net 100 or Over	Tube Type	List Each	Net 1-49	Net 50-99	Net 100 or Over	Tube Type	List Each	Net 1-49	Net 50-99	Net 100 or Over	Tube Type	List Each	Net 1-49	Net 50-99	Net 100 or Over
0Y4	\$4.80	\$2.54	\$2.35	\$2.23	6AK5	\$3.90	\$2.06	\$1.91	\$1.82	6SZ7	\$2.20	\$1.16	\$1.08	\$1.02	14A7/12B7	\$2.20	\$1.16	\$1.08	\$1.02
0Z4*	1.65	.87	.81	.77	6AK6	2.40	1.27	1.18	1.12	6T7C/6Q6C	3.20	1.69	1.57	1.50	14AF7/XXD	2.20	1.16	1.08	1.02
0Z4C*	1.65	.87	.81	.77	6AL5	2.00	1.06	.98	.93	6T8	2.65	1.40	1.30	1.23	14B6	2.20	1.16	1.08	1.02
1A3	2.20	1.16	1.08	1.02	6AL7GT	2.65	1.40	1.30	1.23	6U5/6C5	2.00	1.06	.98	.93	14B8	2.20	1.16	1.08	1.02
1A4P	3.90	2.06	1.91	1.82	6AQ5	2.00	1.06	.98	.93	6U6GT*	2.00	1.06	.98	.93	14C5	2.20	1.16	1.08	1.02
1A5GT	1.80	.95	.88	.84	6AQ6	1.80	.95	.88	.84	6U7C	1.80	.95	.88	.84	14C7	2.20	1.16	1.08	1.02
1A7GT	2.00	1.06	.98	.93	6AQ7GT	2.20	1.16	1.08	1.02	6V6	3.20	1.69	1.57	1.50	14E6	1.80	.95	.88	.84
1B3P/8016	3.20	1.69	1.57	1.50	6AR5	1.65	.87	.81	.77	6V6GT	2.00	1.06	.98	.93	14F7	2.20	1.16	1.08	1.02
1B4P	3.90	2.06	1.91	1.82	6AT6	1.50	.79	.74	.70	6W4GT	1.80	.95	.88	.84	14F8	2.65	1.40	1.30	1.23
1B5/25S	3.20	1.69	1.57	1.50	6AU6	2.00	1.06	.98	.93	6X4	1.50	.79	.74	.70	14H7	2.20	1.16	1.08	1.02
1B7CT*	3.20	1.69	1.57	1.50	6AV6	1.50	.79	.74	.70	6X5	2.65	1.40	1.30	1.23	14N7	2.65	1.40	1.30	1.23
1C5CT	2.20	1.16	1.08	1.02	6B4C	3.20	1.69	1.57	1.50	6X5GT	1.50	.79	.74	.70	14Q7	2.20	1.16	1.08	1.02
1C7C	3.20	1.69	1.57	1.50	6B5	3.20	1.69	1.57	1.50	6Y6C	2.40	1.27	1.18	1.12	14R7	2.20	1.16	1.08	1.02
1D5CP	3.90	2.06	1.91	1.82	6B6C	2.20	1.16	1.08	1.02	6Z7C	3.90	2.06	1.91	1.82	19	3.20	1.69	1.57	1.50
1D7C	3.20	1.69	1.57	1.50	6B7	3.20	1.69	1.57	1.50	6ZY5C	2.20	1.16	1.08	1.02	19J6	3.20	1.69	1.57	1.50
1D8CT	3.90	2.06	1.91	1.82	6B8	3.20	1.69	1.57	1.50	7A4/XXL	1.80	.95	.88	.84	19BC6C*	6.00	3.17	2.94	2.79
1E5CP	3.90	2.06	1.91	1.82	6B8C	3.20	1.69	1.57	1.50	7A5	1.80	.95	.88	.84	19T8	2.65	1.40	1.30	1.23
1F4	2.65	1.40	1.30	1.23	6BA6	1.80	.95	.88	.84	7A6	1.80	.95	.88	.84	24A	2.20	1.16	1.08	1.02
1F5C	2.65	1.40	1.30	1.23	6BA7*	2.40	1.27	1.18	1.12	7A7	1.80	.95	.88	.84	25A6	3.20	1.69	1.57	1.50
1F6	3.90	2.06	1.91	1.82	6BE6	1.80	.95	.88	.84	7A8	1.80	.95	.88	.84	25A7GT*	7.40	3.91	3.62	3.44
1F7C	3.90	2.06	1.91	1.82	6BF6	1.65	.87	.81	.77	7AF7	1.80	.95	.88	.84	25AC5GT*	2.90	1.53	1.42	1.35
1G4CT	2.65	1.40	1.30	1.23	6BC6G	4.80	2.54	2.35	2.23	7AC7	2.20	1.16	1.08	1.02	25B8CT*	3.90	2.06	1.91	1.82
1G6CT	2.65	1.40	1.30	1.23	6BM6	2.00	1.06	.98	.93	7B4	1.80	.95	.88	.84	25BQ6CT	3.20	1.69	1.57	1.50
1H4C	2.20	1.16	1.08	1.02	6BJ6	2.00	1.06	.98	.93	7B5	1.80	.95	.88	.84	25C6C*	2.90	1.53	1.42	1.35
1H5CT	1.65	.87	.81	.77	6BQ6CT	3.00	1.69	1.57	1.50	7B6	1.80	.95	.88	.84	25L6	3.20	1.69	1.57	1.50
1H6C	3.20	1.69	1.57	1.50	6C4	1.65	.87	.81	.77	7B7	1.80	.95	.88	.84	25L6CT	1.65	.87	.81	.77
1J6CT	3.20	1.69	1.57	1.50	6C5	1.65	.87	.81	.77	7B8	1.80	.95	.88	.84	25W4CT	2.00	1.06	.98	.93
1L4	2.00	1.06	.98	.93	6C5CT	1.65	.87	.81	.77	7C5	1.80	.95	.88	.84	25Y5*	2.90	1.53	1.42	1.35
1LA4	2.65	1.40	1.30	1.23	6C6	2.00	1.06	.98	.93	7C6	1.80	.95	.88	.84	25Z5	1.50	.79	.74	.70
1LA6	2.65	1.40	1.30	1.23	6C8C	3.20	1.69	1.57	1.50	7C7	1.80	.95	.88	.84	25Z6CT	1.35	.71	.66	.63
1LB4	2.65	1.40	1.30	1.23	6D6	1.65	.87	.81	.77	7E5	2.65	1.40	1.30	1.23	26	1.80	.95	.88	.84
1LC5	2.65	1.40	1.30	1.23	6D8C	3.20	1.69	1.57	1.50	7E6	1.80	.95	.88	.84	27	1.50	.79	.74	.70
1LC6	2.65	1.40	1.30	1.23	6E5	2.20	1.16	1.08	1.02	7E7	2.20	1.16	1.08	1.02	30	2.00	1.06	.98	.93
1LD5	2.65	1.40	1.30	1.23	6F5	1.65	.87	.81	.77	7F7	2.20	1.16	1.08	1.02	31	2.65	1.40	1.30	1.23
1LE3	2.65	1.40	1.30	1.23	6F5CT	1.65	.87	.81	.77	7F8	2.65	1.40	1.30	1.23	32	3.20	1.69	1.57	1.50
1LC5	2.65	1.40	1.30	1.23	6F6	2.00	1.06	.98	.93	7G7/1232	2.65	1.40	1.30	1.23	32L7CT	3.20	1.69	1.57	1.50
1LH4	2.65	1.40	1.30	1.23	6FGC	1.65	.87	.81	.77	7H7	2.00	1.06	.98	.93	33	3.20	1.69	1.57	1.50
1LN5	2.65	1.40	1.30	1.23	6FGCT	1.65	.87	.81	.77	7J7	2.65	1.40	1.30	1.23	34	3.20	1.69	1.57	1.50
1N5CT	2.00	1.06	.98	.93	6F7	3.20	1.69	1.57	1.50	7K7	2.65	1.40	1.30	1.23	35/51	2.00	1.06	.98	.93
1P5CT	2.65	1.40	1.30	1.23	6F8C	3.20	1.69	1.57	1.50	7N7	2.20	1.16	1.08	1.02	35A5	1.80	.95	.88	.84
1Q5CT	2.65	1.40	1.30	1.23	6GGC	2.65	1.40	1.30	1.23	7Q7	1.80	.95	.88	.84	35B5	2.00	1.06	.98	.93
1R4/1294*	2.65	1.40	1.30	1.23	6H6	1.65	.87	.81	.77	7R7	2.20	1.16	1.08	1.02	35C5	2.00	1.06	.98	.93
1R5	2.00	1.06	.98	.93	6H6GT	1.65	.87	.81	.77	7S7	2.65	1.40	1.30	1.23	35L6CT	1.65	.87	.81	.77
1S4	2.40	1.27	1.18	1.12	6J5	1.50	.79	.74	.70	7V7	2.65	1.40	1.30	1.23	35W4	1.25	.66	.61	.58
1S5	1.80	.95	.88	.84	6J5CT	1.50	.79	.74	.70	7W7	2.65	1.40	1.30	1.23	35Y4	1.80	.95	.88	.84
1T4	2.00	1.06	.98	.93	6J6	2.90	1.53	1.42	1.35	7X7/XXFM	2.65	1.40	1.30	1.23	35Z3	1.80	.95	.88	.84
1T5CT	2.65	1.40	1.30	1.23	6J7	2.00	1.06	.98	.93	7Y4	1.80	.95	.88	.84	35Z4CT	1.50	.79	.74	.70
1U4	2.00	1.06	.98	.93	6J7CT	2.00	1.06	.98	.93	7Z4	1.80	.95	.88	.84	35Z5CT	1.25	.66	.61	.58
1U5	1.80	.95	.88	.84	6J8C	3.20	1.69	1.57	1.50	10	3.90	2.06	1.91	1.82	35Z6C*	1.80	.95	.88	.84
1V	2.20	1.16	1.08	1.02	6K5CT	2.40	1.27	1.18	1.12	12A6	2.40	1.27	1.18	1.12	36	2.65	1.40	1.30	1.23
1X2	2.90	1.53	1.42	1.35	6K6CT	1.50	.79	.74	.70	12A7	3.20	1.69	1.57	1.50	37	1.80	.95	.88	.84
2A3	3.20	1.69	1.57	1.50	6K7	1.65	.87	.81	.77	12A8CT	2.00	1.06	.98	.93	38	2.20	1.16	1.08	1.02
2A4C	3.20	1.69	1.57	1.50	6K7CT	1.65	.87	.81	.77	12AH7CT	2.65	1.40	1.30	1.23	39/44	2.65	1.40	1.30	1.23
2A5	2.20	1.16	1.08	1.02	6K8	2.40	1.27	1.18	1.12	12AL5	2.00	1.06	.98	.93	41	1.65	.87	.81	.77
2A6	2.65	1.40	1.30	1.23	6K8CT*	2.40	1.27	1.18	1.12	12AT6	1.50	.79	.74	.70	42	1.65	.87	.81	.77
2A7	2.65	1.40	1.30	1.23	6L5C	2.65	1.40	1.30	1.23	12AT7	2.65	1.40	1.30	1.23	43	1.65	.87	.81	.77
2B7	2.65	1.40	1.30	1.23	6L6	3.55	1.88	1.74	1.65	12AU6	2.00	1.06	.98	.93	45	1.65	.87	.81	.77
2E5	2.65	1.40	1.30	1.23	6L6C	2.90	1.53	1.42	1.35	12AU7	2.40	1.27	1.18	1.12	45Z3	1.80	.95	.88	.84
3A8CT	4.80	2.54	2.35	2.23	6L6CA*	2.90	1.53	1.42	1.35	12AV6	1.50	.79	.74	.70	45Z5CT	1.80	.95	.88	.84
3B7/1291*	2.65	1.40	1.30	1.23	6L7	2.40	1.27	1.18	1.12	12AV6	2.65	1.40	1.30	1.23	46	2.65	1.40	1.30	1.23
3C6/XXB*	3.20	1.69	1.57	1.50	6L7C	2.90	1.53	1.42	1.35	12AX7	2.40	1.27	1.18	1.12	47	2.40	1.27	1.18	1.12
3D6/1299*	2.65	1.40	1.30	1.23	6N6C	3.90	2.06	1.91	1.82	12AY7	6.00	3.17	2.94	2.79	50	3.90	2.06	1.91	1.82
3E6*	2.65	1.40	1.30	1.23	6N7	2.40	1.27	1.18	1.12	12BA6	1.80	.95	.88	.84	50A5	2.20	1.16	1.08	1.02
3FL4	2.65	1.40	1.30	1.23	6N7CT	2.40	1.27	1.18	1.12	12BA7	2.40	1.27	1.18	1.12	50B5	2.00	1.06	.98	.93
3Q4	2.20	1.16	1.08	1.02	6P5CT	2.40	1.27	1.18	1.12	12BD6*	2.00	1.06	.98	.93	50C5	2.00	1.06	.98	.93
3Q5CT	2.40	1.27	1.18	1.12	6Q7	2.00	1.06	.98	.93	12BE6	1.80	.95	.88	.84	50L6CT	1.65	.87	.81	.77
3S4	2.00	1.06	.98	.93	6Q7C	1.80	.95	.88	.84	12BF6	1.65	.87	.81	.77	50X6	2.20	1.16	1.08	1.02
3V4	2.00	1.06	.98	.93	6Q7CT	1.80	.95	.88	.84	12C8	3.20	1.69	1.57	1.5					



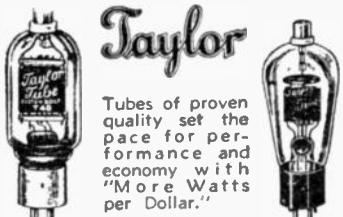
The New Instant Heating Tubes are Tops for Economical Mobile Operation.

20A153. 2E30, Inst. Heating 10W. Beam Pentode. Net Each... \$2.45
 20A155. 5516, Inst. Heating 15W. Beam Pentode. Net Each... \$5.95
 20A154. 5514, Zero Bias 65W. Hi Mu. Triode. Net Each... \$4.95
 20A152. 2E25, Inst. Heating 15W. Beam Tetrode. Net Each... \$5.50
 20A157. HY75A, Inst. Heating 15W. V.H.F. Triode. Net Each... \$4.70
 20A151. OB2, Miniature VR105 Regulator Tube. Net Each... \$1.88



Tubes of foremost design for dependable highly efficient service.

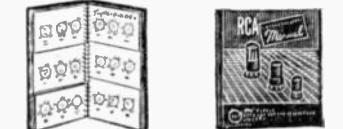
Stock No.	Type	Price
20A189	3C24/24G	\$ 8.00
20A670	25T	8.00
20A671	35T	9.50
33C50	4-65A	14.50
32A251	100TH	16.50
33A46	100TL	16.50
33A49	250TH	30.00
33A47	4-125A	27.50
33A48	4-250A	37.50



Tubes of proven quality set the pace for performance and economy with "More Watts per Dollar."

20A761	T-20	\$ 2.75
20A762	TZ-20	2.75
20A672	T-21	2.50
20A763	T-40	3.95
20A764	TZ-40	3.95
20A765	T-55	6.50
20A766	203-A	12.00
20A767	866JR	1.25
20A768	866A	1.75

RCA TRIPLE INDEX TUBE BASE GUIDE



You can select three different base diagrams for instant viewing. No hunting back and forth. Saves time and eliminates confusion. Over 425 types listed. A most valuable service help. No. 16A357. Net Each... 75c

RCA RECEIVING TUBE MANUAL Completely revised with up to the minute data on all receiving types including new miniatures. Also contains tube application data, Resistance coupled amplifier chart, circuit section and tube outline diagrams. Vital to all radio men. No. 16A66. RC15. Each... 35c

RCA TUBE DATA BOOKS
 Latest RCA Vest pocket size tube data book, radio dictionary, atlas. No. 16A118. Net Each... 45c
 No. 16A323 RCA Form 1275-D Receiving Tubes for TV, FM and Standard broadcast. With any order. Each... 10c
 No. 16A324 RCA Form PG101 Power and Gas Tubes for radio and industry. With any order. Each... 10c
 No. 16A325 RCA Form CRPS-102. Photo tubes, Cathode Ray and special tubes. With any order. Each... 10c



SPECIAL PURPOSE TUBES FOR TELEVISION, AMATEUR AND INDUSTRIAL USE

TELEVISION PICTURE TUBES



First Quality... Fully Guaranteed...

We will always ship at latest current prices!

36B63	7JP4	\$16.88
36B79	10BP4	27.50
50A290*	10FP4	27.50
33B76	12LP4	39.80
50A291*	12KP4	36.45
50A275	16AP4	55.88

*Raytheon Daylight Picture Tubes. Aluminized screen produces 80% more light for satisfactory daylight viewing. Requires no ion trap, otherwise are interchangeable. 12KP4 for 12LP4 and 10FP4 for 10BP4.

Stock No.	Type	Price
20A733	1C21	\$2.25
20A736	2D21	2.00
20A623	2E24	5.10
20A624	2E26	3.85
20A709	3A4	1.20
20A139	3A5	1.95
50A39	4-125A/4D21	27.50
20B634	4E27/8001	24.50
20A711	5R4GY	1.50
50A41	6AC7Y	1.75
20B190	6A56	3.80
21A36	6A57G	4.53
20A631	6F4	6.40
20A632	6J4	8.05
50A44	6SJ7Y	.85
21A37	10Y	1.95
20A633	12L8-GT	2.25
32A238	203A	13.75
20B789	801A	4.30
20A626	802	4.75
32A242	803	24.25
20A747	807	2.50
20A627	809	4.00
20A748	810	14.50
20A749	811	3.30
50A271	811A	4.05
20A750	812A	4.05
20A751	813	16.00
32A243	814	14.25
20A752	815	6.90
20A674	816	1.65
20A754	828	13.75
20A755	829B	16.25
20A756	830B	11.50
20A628	832A	12.90
32A244	833A	49.50
32A246	845	13.75
20A757	866A/866	1.95
20A758	872A/872	8.20
20A741	884	1.85
20A742	885	2.00
20A723	954	5.65
20A724	955	3.60
20A725	956	6.30
20A658	957	3.75

NE'W FLUORESCENT SIGNS



Brilliantly lighted, white letters on red background. Stands out day or night. Size, 25x23/4x6", with 20-watt lamp and hanging chain. 110-volt, 60-cycle AC. Regular value, \$8.95. No. 32B51. Your Cost \$5.25 With \$5.00 Order.....



Radio service counterpart of the sign described above, highly successful, brings in the business, attractive and inexpensive. Regular \$7.50 value. No. 32B224. Your Cost \$4.75 With \$5.00 Order.....

RAYTHEON TUBE AND DATA BOOK—Latest listings, including sub miniatures, and TV picture tubes. Has basing diagrams, technical data and a substitution chart. No. 16B568. (With Raytheon Tube Order, FREE). EACH..... 30c

Stock No.	Type	Price
20A659	958A	6.25
20A630	991	.75
20B635	1612	3.00
21A42	1614	2.05
21B50	1620	6.60
21B51	1621	2.15
21B52	1622	2.30
20A759	1624	4.00
20A760	1625	2.65
20B769	1626	1.85
20B770	1629	1.40
20B771	1631	2.50
20B772	1633	1.95
20B788	1635	2.15
20B645	1644	3.10
50A124	1851	3.10
20A743	2050	1.85
50A274	5696	1.90
50A272	5823	1.32
32A247	8000	14.50
20A629	8005	7.40
20B646	8008	8.20
20A726	9001	3.10
20A727	9002	2.50
20A849	9003	3.10
20A850	9004	2.30
20A730	9005	3.45
20A731	9006	1.60

OSCILLOSCOPE TUBES

20A775	2AP1A	\$10.55
20A776	3AP1A	14.25
36A97	5BP1A	22.50
50A168	5CP7A	27.25
50A173	5UP1	17.75
32A237	902A	12.50

VOLTAGE REGULATORS

20A700	0A2	\$1.69
20A701	0A3/VR75	1.40
20A732	0A4G	1.40
20A151	0B2	1.88
20B712	0B3/VR90	1.40
20A702	0C3/VR105	1.40
20A703	0D3/VR150	1.40
20A740	874	3.10
20A630	991	.75

PHOTO TUBES

20A734	1P29	\$2.95
20B660	1P40	1.85
20B735	1P41	2.80
20A704	868	2.50
20A626	918	3.10
21B54	919	3.50
20A705	921	2.05
20A637	922	1.95
20A706	923	2.05
20B739	925	2.40
21B55	926	2.90
20A707	927	2.50
20A708	929	1.50
20A638	930	1.65

RCA SPECIAL RED TUBES

Long life counter-parts of regular receiving tubes as listed below. Features 10,000 hour minimum service and extreme uniformity and rigid construction.

21A33	5691-6SL7GT	\$7.75
21A34	5692-6SN7GT	7.75
21A35	5693-6S17	6.40

RESISTOR CODE PENCIL



The famous one and only RCA resistor code pencil with the magnifier top. \$1.49 Value. No. 14B16. YOUR COST... 99c

HEAT RADIATING CONNECTORS



Designed to dissipate heat generated at the grid and plate terminals of transmitting tubes.

Stk. No.	Tube	Lead Size	NET EACH
12A415	25T-5C24	.052	35c
12B68	HK24-832A	.062	35c
12A416	35T-8001	.072	35c
12A419	450TH	.110	49c
12B69	HK57-152TH	.125	59c
12A417	807-4-125A	.375	49c
12A418	866-810	.570	59c



SPECIAL PURPOSE SUB MINIATURE TYPES

For pocket size radio receivers and transmitters. Features small flat construction with flexible leads to solder direct into circuit, or leads can be cut to .20" length to fit co-planar miniature sockets. Bulb size, 1 9/16" long, 0.3" thick, 0.4" wide.

20A140	2E31/32 RF Pent.	\$1.40
20A141	2E35/36 Output Pent.	1.69
20A142	2E41/42 Diode Pent.	1.40
20A143	2G21/22 Triode Hept.	1.40
20B166	CK551AXA Diode Pent.	3.00
20B167	CK553AXA RF Pent.	3.15
20B168	CK5676 (CK556AX) OSC	3.65
20B169	CK5677 (CK568AX) OSC	3.65
20B170	CK5678 (CK569AX) Pent	2.50

HEARING AID TUBES

Very small size, flat shape and low battery drain are features of these tubes used in thousands of hearing aid units and similar midget size electronic equipment.

*Voltage amplifier. All other pentodes are output type. 1 1/2 in. long, .385 in. wide and .285 in. thick with 1 1/2 inch flexible leads.		
20A144	CK502AX Pentode	\$1.88
20A145	CK503AX Pentode	1.88
*20A146	CK505AX Pentode	1.88
20A147	CK506AX Pentode	1.88
20A149	CK510AX Tetrode	3.15
*20B171	CK512AX Pentode	1.88
20B172	CK518AX Pentode	1.88
20B174	CK522AX Pentode	1.88
20B176	CK524AX Pentode	3.15
20B177	CK525AX Pentode	2.38
20B178	CK526AX Pentode	3.15
20B179	CK527AX Pentode	3.15
20B180	CK528AX Pentode	1.88

RADIATION COUNTER TUBES



Geiger-Mueller type radiation counter tubes for detecting beta and gamma radiation. Used in battery operated survey instruments and prospectors units for locating radio active material. Glass, thin wall design, approximately 8" length with 3" thin wall area, 3 1/4" dia. +CK1023 is 5" overall. (*) have three-pin base, others have leads. For self-quenching circuit, 12,000 counts per minute max., life 108 counts. Operating volts 925. Technical data will be supplied on request.

Stk. No.	Type	Net Each
20A191	1B90	\$15.00
20A192	CK1018	15.00
20A193	CK1019	15.00
20A538	*CK1020	11.50
20A539	*CK1021	11.00
20A540	+CK1023	11.00

NEW MINIATURE PENTODE

6AN5. Highly efficient Video wide band RF-IF Amplifier, operating on low plate voltage. No. 20B136. Net Each... \$6.00
 OZ4A/CK1003. Heavy duty version of OZ4 tube used in auto sets and mobile communication gear. No. 20B150. Net Each... \$1.20

WK61. MINIATURE RADIO CONTROL TUBE

Only 1 13/16" long x .55" diameter. Has flexible tinned leads. Its light weight, small size and low battery drain has won this tube popular acclaim in the model aircraft control field. No. 20A188. Net Each... \$3.50

RAYTHEON RK-4D32

A 100-watt beam tetrode for 600 volt plate supply that requires only 1.25 watt grid drive. Full efficiency to 60 MC. No neutralization needed. No. 20A673. Net Each... \$9.75
 CK5517-1013 RECTIFIER TUBE. Miniature, half wave, cold Cathode type. For photoflash power supplies. No. 20A138. Net Each... \$2.25

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UNIVERSAL POWER TRANSFORMERS

All Are Type "M" Mounting, Supplied With Universal Brackets.
ALL FIL. WINDINGS C.T. — *FIL. 3 ALSO TAPPED 2.5 V.

Stock No.	Stancor No.	Plate V. MA	Fil. No. 1 V. A	Fil. No. 2 V. A	Fil. No. 3 V. A	Mtg. Area	Your Cost
13A 83	P-6001	650 40	5.0 2.0	2.5 4.0	.....	2 1/2 x 3	\$3.53
13A 84	P-6002	700 50	5.0 2.0	2.5 7.25	.....	2 1/2 x 3	4.12
13A 86	P-6005	700 70	5.0 3.0	2.5 9.0	2.5-C.T. 3.5	2 1/2 x 3 1/2	4.56
13A 88	P-6004	700 90	5.0 3.0	2.5 12.5	.....	3 1/2 x 3 1/2	4.66
13A 89	P-6007	800 110	5.0 3.0	2.5 15.0	2.5-C.T. 3.6	3 1/2 x 3 1/2	6.03
13B 40	P-6348	480 60	.....	.....	6.3-C.T. 2.75	2 1/2 x 3 1/2	3.50
13A 90	P-6289	420 40	5.0 2.0	6.3 2.0	.....	2 1/2 x 3	4.12
13A 91	P-6297	480 40	5.0 2.0	6.3 2.0	.....	2 1/2 x 3	3.97
13A 92	P-6010	650 40	5.0 3.0	6.3 2.0	.....	2 1/2 x 3	3.38
13A 93	P-6119	600 55	5.0 2.0	6.3 2.7	.....	2 1/2 x 3	4.06
13A 94	P-6120	630 70	5.0 3.0	6.3 3.5	.....	2 1/2 x 3 1/2	4.53
13A 95	P-6011	700 70	5.0 3.0	6.3 2.5	.....	2 1/2 x 3	4.29
13A 96	P-6312	580 90	5.0 3.0	6.3 2.8	.....	3 1/2 x 3 1/2	4.94
13A 97	P-6012	700 90	5.0 3.0	6.3 3.5	.....	2 1/2 x 3 1/2	4.53
13A 98	P-6013	700 120	5.0 3.0	6.3 4.7	.....	3 1/2 x 3 1/2	5.03
13A 99	P-6313	580 125	5.0 3.0	6.3 4.5	.....	4 1/2 x 3 1/2	5.59
13A100	P-6014	750 150	5.0 3.0	6.3 5.0	.....	3 1/2 x 3 1/2	6.17
13A101	P-6165	800 200	5.0 4.0	6.3 5.5	.....	3 1/2 x 3 1/2	7.38
13A102	P-6314	700 200	5.0 3.0	6.3 5.5	.....	4 1/2 x 3 1/2	7.23
13A103	P-6315	740 275	5.0 3.0	6.3 7.0	.....	4 1/2 x 3 1/2	9.41
13A104	P-6293	800 60	5.0 3.0	6.3 2.5	2.5-C.T. 7.6	2 1/2 x 3 1/2	4.85
13A106	P-6008	750 180	5.0 3.0	6.3 3.3	2.5-C.T. 6.0	3 1/2 x 4 1/2	6.85

6-VOLT VIBRATOR POWER TRANSFORMERS

*Also Has 117-Volt AC Primary and 6.3-Volt C.T. 2.25-Amp. Secondary

Stock No.	Stancor No.	Secondary DC Volts	M. A.	Type Mtg.	Dimensions H. W. D.	Your Cost
13A67	P4061	250	50	N	3 1/2 x 2 1/2 x 2 1/2	\$3.09
13A69	P4063	285	75	N	3 1/2 x 2 1/2 x 2 1/2	3.82
13A206	P6131	330	100	N	3 1/2 x 2 1/2 x 2 1/2	4.12
13A71	P6166*	320	135	C	4 1/2 x 4 x 3 1/2	7.44

INPUT TRANSFORMERS

Carbon Microphone to Single Grid — †For Push-Pull Grids

Stock No.	Stancor No.	Impedance Pri.	(Ohms) Sec.	Ratio Over All	Mtg. Type	Dimensions H. W. D.	Net Each
13B107	A-4708	100	60,000	1:24.5	A	1 1/2 x 2 1/2 x 1 1/2	\$1.41
13B109	A-4708	200 C.T.	67,000	1:17	J	2 x 2 1/2 x 1 1/2	2.09
19B626	A-4742†	100	400,000 C.T.	1:64	S	2 1/2 x 2 1/2 x 1 1/2	2.32

DYNAMIC MICROPHONE OR PICK-UP TO SINGLE GRID

13A3	A-4709	14, 8, 15, 30	106,000	1:60	TD	2 1/2 x 2 1/2 x 2 1/2	3.76
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Single or Double Button MICROPHONE OR LINE TO SINGLE GRID

13A4	A-4351	50, 125, 200, 333, 500	89,000	1:13.3	TD	2 1/2 x 2 1/2 x 2 1/2	3.47
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SINGLE OR DOUBLE BUTTON MICROPHONE OR LINE TO LINE

13A5	A-4350	50, 125, 200, 333, 500	50, 125, 200, 333, 500	Q	2 x 3 1/2 x 1 1/2	3.29
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INTERCOM. INPUT TRANSFORMER

Stancor No. A4744; V. C. to Sgl. Grid; Pri. 4; Sec. 25,000 ohms. Mtg. "VE", entire coil shielded; 1 3/8" H., 2 3/8" W., 1 1/2" D. Wt. 1/2 lb. **Stock No. 13A1. NET EACH \$1.44**

TRANSCEIVER INPUT (Mike and Plate to Grid)

Stancor A3833. Pri. 200/5,000 ohms; sec. 60,000 ohms. 5 Watts Max. Audio. Type A mounting, size 2 7/8 x 1 1/2 x 1 5/8" H. Wt. 1 lb. **Stock No. 13B110. Net Each \$2.00**

INTERSTAGE TRANSFORMERS

SGL. PL. (7,000 to 15,000 ohms) TO P.P. CL. "A" GRIDS

Stock No.	Stancor No.	Turns Ratio	Pri. D.C. ma	Mtg. Fig.	Dimensions H. W. D.	Your Cost
13A208	A-52C	2:1	10	A	1 1/2 x 2 1/2 x 1 1/2	\$1.44
13A209	A-82C	2:1	10	A	1 1/2 x 2 1/2 x 1 1/2	1.56
13A6	A53C	3:1	10	A	1 1/2 x 2 1/2 x 1 1/2	1.44
13A7	A-83C	3:1	10	A	1 1/2 x 2 1/2 x 1 1/2	1.56
13A8	A-73C	3:1	10	A	2 x 2 1/2 x 1 1/2	1.88
13A66	A-4719	3:1	10	TD	2 1/2 x 2 1/2 x 1 1/2	3.44
13A210	A-84C	4:1	10	A	2 x 2 1/2 x 1 1/2	1.76
19B627	A-4206*	3.25:1	15	C	3 1/2 x 2 1/2 x 2 1/2	4.41

PUSH-PULL PLATES (7,000 to 15,000 ohms) to P.P. CLASS "A" GRIDS

13A10	A-4711	1:1	10	A	1 1/2 x 2 1/2 x 1 1/2	\$1.82
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P.P. PLATES (7,000 to 20,000 ohms) TO PARALLEL OR P.P. GRIDS

13A9	A-4208	0.7:1	15	C	3 1/2 x 2 1/2 x 2 1/2	\$3.52
13A11	A-4774*	3:1	10	B	2 1/2 x 2 1/2 x 1 1/2	2.38

Note: *Above denotes Split Secondary.

OUTPUT TRANSFORMERS

*Indicates Sec. to match 500/250/15/8/4 ohms. †Has winding for 10% inverse feedback.

Stock No.	Stancor No.	Impedance Pri.	Sec.	Suggested Tubes	Pri. MA	Max. Watts	Mtg. Fig.	Mt. Area	Your Cost
19B634	A-3332	2000	3.2	25L6, 35L6, 50L6	50	3	A	2 1/2 x 1	\$1.85
13B128	A-3876	2000	4	25L6, 50L6	60	5	A	2 1/2 x 1 1/2	1.03
19B628	A-3328	4000	3.5	13A, 35A	10	3	A	2 1/2 x 1	.88
19B629	A-3329	8000	3.5	1C5, 1G5	10	3	A	2 1/2 x 1	.85
13B127	A-3877	5000	4	6V6, 7C5, 25A5	40	5	A	2 1/2 x 1 1/2	1.09
13A34	A-3878	7000	4	42, 6F6, 7B5	30	5	A	2 1/2 x 1 1/2	1.06
13B128	A-3879	10000	4	1J6, 3C5, 6N7	30	5	A	2 1/2 x 1 1/2	1.03
13B129	A-3881	15000	4	1T5, 1F4	10	5	A	2 1/2 x 1 1/2	1.03
19B630	A-3301	3000	•	PP2A3, 6A3	55	30	C	3 x 3 1/2	4.53
13B130	A-3902	3800/3300 C.T.	•	PP Par. 6L6-AB-2	250	75	C	4 x 3 1/2	6.78
13A39	A-5528	4000 C.T.	•	PP6Y6, 25L6	65	8	C	2 1/2 x 2 1/2	3.88
13A35	A-3851†	4400 C.T.	•	PP6L6-AB-1	70	30	C	3 x 3 1/2	5.23
13A36	A-3800	5000 C.T.	•	PP6L6-AB	80	30	C	3 x 3 1/2	4.68
13B131	A-3307	6000 C.T.	•	PP6F6, PP42	100	30	C	3 x 3 1/2	4.94
13B132	A-3801	6600 C.T.	•	PP6L6-AB-1	150	35	C	3 1/2 x 3 1/2	5.41
13B133	A-3885	9000 C.T.	•	PP6L6-AB-1	150	35	C	3 1/2 x 3 1/2	5.41
13A38	A-3304	10M/7M C.T.	•	PP45, PP6V6	60	25	C	2 1/2 x 2 1/2	4.23
13B2	A-3311	10000	•	PP6F6, 6V6	70	25	C	3 x 3 1/2	4.41
13A32	A-3831	10M C.T.	8/4/2	PP30, 49	40	5	A	2 1/2 x 1 1/2	1.59
13A33	A-2312	14M C.T.	4	PP42, 6F6, 7B5	40	10	A	3 1/2 x 1 1/2	1.85
13A37	A-3303	14M C.T.	•	PP42, 6F6, 7B5	55	20	C	2 1/2 x 2 1/2	4.12
13A31	A-3857	25M C.T.	4	PP1F4, 1F5, 1T5	10	5	A	2 1/2 x 1 1/2	1.32

UNIVERSAL OUTPUT TRANSFORMERS

Secondaries tapped to match any voice coil. *Current Each Side.

Stock No.	Stancor No.	Primary	DC MA	Audio Watts	Mtg. Fig.	Dimension H. W. D.	Your Cost
13A19	A3856	Sgl.-PP 4M/14M PL	35	4	Q	1 1/2 x 2 1/2 x 1 1/2	\$1.53
13A30	A3822	Sgl. 7M/10M PL	35	4	Q	1 1/2 x 2 1/2 x 1 1/2	1.29
13A20	A3823	Sgl.-PP 4M/14M PL	40	8	Q	1 1/2 x 2 1/2 x 1 1/2	1.62
13A21	A3850	Sgl.-PP 4M/14M PL	40	8	Q	2 x 2 1/2 x 1 1/2	1.73
13A27	A3849	Sgl. 1.5M/10M PL	55	10	Q	1 1/2 x 2 1/2 x 1 1/2	1.63
13A25	A2855	PP 4M/14M PL	*50	15	Q	2 1/2 x 2 1/2 x 1 1/2	2.47
13A22	A3852	PP 4M/14M PL	*40	18	Q	2 1/2 x 2 1/2 x 2	2.09
13A23	A3870	PP 4M/14M PL	*50	18	Q	2 1/2 x 3 1/2 x 2	2.20
13A26	A3830	PP 3M/10M PL	*60	20	Q	2 1/2 x 3 1/2 x 2 1/2	2.88

TUBE TO LINE TRANSFORMER

Type A-3250. Matches single 20M, 10M or 5M ohm plate or push-pull 20M ohm plates to 500, 333, 200, 125 ohm line. Primary DC 15 Ma. Q mounting. Mounting area 3 1/4 x 1 3/4". No. 19B631. Net Each \$2.66

LINE TO VOICE COIL TRANSFORMER

Type A-3820. Max. audio watts, 40. Matches 2000, 1500, 1000, 500 ohm line to 15, 8, 4 ohm speaker. Fig. D mounting. Size 3 5/8 x 4 1/2 x 5 1/16" high. Weight, 5 lbs. No. 13B12. Net Each \$5.85

CRYSTAL RECORDER OUTPUT TRANSFORMERS

No. 13A211. Type A3854. Single 7M ohm plate to 70M ohm crystal cutter and 4 ohm voice coil, 10 watts. Fig. A mtg. Net Each \$2.79
No. 13A212. Type A3860. Push-pull 10M ohm plate to 70M ohm crystal cutter and 4 ohm voice coil, 10 watts. Fig. A mtg. Net Each \$3.23

HIGH FIDELITY OUTPUT TRANSFORMERS

Suitable for the most exacting professional engineer and enthusiast. Frequency response flat within 1.5 db. from 30 to 15,000 cps. with extremely low intermodulation distortion over the entire frequency range at any power level within the rating of the transformer. Fully shielded, upright mounting. Fig. C. Size, 3 9/16 x 4 1/4 x 5 1/16" high. Weight, 6.5 lbs.

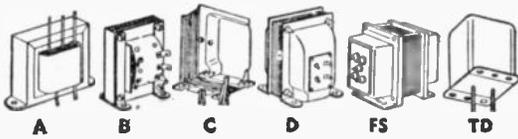
Stock No.	Stancor No.	Impedance Pri. Sec.	Tubes Suggested	Pri. MA	Max. Watts	Your Cost
13B28	A-8053	5000 C.T. 8.16	PP 6L6's or	75	25	\$7.53
13B29	A-8063	9000 C.T. 500	PP 2A3's Class A	75	25	7.53
13B57	A-8054	5000 C.T. 8.16	PP 6L6's	75	25	7.53
13B58	A-8064	9000 C.T. 500	Class AB1	75	25	7.53

DRIVER TRANSFORMERS

SINGLE DRIVERS—Single Plate to Push-Pull Grids.

Stock No.	Stancor No.	Primary Imped.	Pri.-1/2 Sec. Ratio	D.C. ma	Mtg. Fig.	Dimensions H. W. D.	Your Cost
13A13	A4722	10,000	2:1	30	TD	2 1/2 x 2 1/2 x 2 1/2	\$3.18
13A14	A4752	10,000	2/1.5/1:1	40	A	2 x 3 1/2 x 1 1/2	2.35
13A15	A4713	10,000	2:1	30	A	1 1/2 x 2 1/2 x 1 1/2	1.53
13A17	A4292	10,000	2.5:1	20	A	1 1/2 x 2 1/2 x 1 1/2	1.53
13B111	A4723	10,000	3:1	30	A	1 1/2 x 2 1/2 x 1 1/2	1.53
13B112	A4721	10M/22M	3/2:1	25	TD	2 1/2 x 2 1/2 x 2 1/2	3.35
13B114	A4210	1.5M-5M	3:1	40	C	3 1/2 x 2 1/2 x 2 1/2	3.23
13B115	A4702	1.5M-5M	5:1				

RELATED COMPONENTS



SMOOTHING FILTER CHOKES FOR DC POWER SUPPLIES

Stock No.	Stancor No.	Rating HYS at MA DC	DC Ohms	Volts Insulation	Mtg. Type	Dimensions H. W. D.	Your Cost	
13A51	C-1515	20	15	900	1500	A	1 1/2" x 2 1/2" x 1 1/2"	\$1.06
13A60	C-1080	3.5	50	200	1500	A	1 1/2" x 2 1/2" x 1 1/2"	1.00
13A41	C-1708	4.5	50	300	1500	A	1 1/2" x 2 1/2" x 1 1/2"	.94
13A42	C-1707	7	50	500	1500	A	1 1/2" x 2 1/2" x 1 1/2"	.94
13A61	C-1279	8.5	50	400	1500	A	1 1/2" x 2 1/2" x 1 1/2"	1.03
13A62	C-1215	9	50	500	1500	A	1 1/2" x 2 1/2" x 1 1/2"	1.03
13A43	C-1003	16	50	580	1500	A	2" x 3 1/4" x 1 1/2"	1.26
13A44	C-1708	13	65	500	1500	A	2" x 3 1/4" x 1 1/2"	1.38
13A45	C-1002	15	75	400	1500	A	2 1/4" x 3 1/4" x 2 1/4"	1.73
13A46	C-1709	8	85	250	1500	A	2" x 3 1/4" x 2"	1.62
13A50	C-2305	5	100	300	1500	TD	2 1/2" x 2 1/2" x 2 1/2"	2.35
13A48	C-1001	10.5	110	225	3000	A	2 1/2" x 4" x 2 1/2"	2.18
13A52	C-2303	2.5	130	100	2000	A	2" x 3 1/4" x 1 1/2"	1.47
13A49	C-1421	7	140	165	3000	C	3 1/2" x 2 1/2" x 2 1/2"	3.12
13A47	C-1710	4	150	200	1500	A	2 1/2" x 4" x 2 1/2"	2.06
13A53	C-1410	7	175	100	3000	C	3 1/2" x 2 1/2" x 2 1/2"	3.00
13A54	C-1411	4.5	200	80	3000	C	3 1/2" x 3" x 3 1/4"	3.70
13A55	C-1412	4	250	60	3000	C	3 1/2" x 3" x 3 1/4"	4.53
13A56	C-2308	8	300	80	3000	C	4 1/2" x 4" x 3 1/4"	5.82
13B134	C-1413	8	300	80	5000	D	4 1/2" x 4" x 4 1/2"	6.76
13B135	C-1415	6	500	75	7500	FS	7 1/2" x 6 1/4" x 7"	19.29

SWINGING FILTER CHOKES FOR INPUT SECTION OF DC POWER SUPPLIES

Stock No.	Stancor No.	Inductance Range MA	DC Ohms	Volts Insul.	Mtg. Fig.	Dimensions H. W. D.	Your Cost	
13B136	C-1401	12-2	20-200	80	3000	C	3 1/2" x 3" x 3 1/4"	\$3.82
13B137	C-1403	20-4	30-300	80	5000	D	4 1/2" x 4" x 4 1/2"	6.61
37A90	C-1405	16-4	50-500	75	7500	FS	7 1/2" x 6 1/4" x 7"	19.29

PLATE TRANSFORMERS

*Indicates 115-230 V., 60 cy. Primary. Others 115 V. only. D.C. outputs are after 2-section choke input filter using 2MFD condensers.

Stock No.	Stancor No.	DC Volts	MA ICAS	MA CCS	Mtg. Fig.	Dimensions H. W. D.	Your Cost
37A94	P-8045	1000/750	310	250	FS	7 1/2" x 6 1/2" x 8"	\$25.58
37A95	P-8027	1250/1000	625	500	FS	7 1/2" x 7 1/2" x 9"	34.57
37A96	P-8028	1500/1250	375	300	FS	7 1/2" x 7 1/2" x 8 1/2"	32.93
31B40	P-8031*	1750/1500	625	500	FS	11 1/4" x 7 1/2" x 8 1/2"	62.04
31B41	P-8032	2000/1750	375	300	FS	11 1/4" x 7 1/2" x 9 1/2"	41.75
31B39	P-8035*	2500/2000	575	500	FS	11 1/4" x 7 1/2" x 9 1/2"	65.86

FILAMENT TRANSFORMERS

All Primaries for 117-Volt 60-Cycle operation. *Pri. tapped for 117/107-Volt. For Mounting Figs. S and N see opposite page.

Stock No.	Stancor No.	Secondary Volts	Amps.	Insulation Test V	Mtg. Fig.	Dimensions H. W. D.	Your Cost
13B139	P-6133	2.5 CT	5	7500	S	2 1/2" x 3 1/2" x 2 1/2"	\$2.65
13B140	P-3024*	2.5 CT	10	2500	C	3 1/2" x 2 1/2" x 2 1/2"	3.67
13B141	P-3060	2.5 CT	10	10000	B	3 1/2" x 2 1/2" x 2 1/2"	3.35
13B143	P-4088	5 CT	3	2500	B	3 1/2" x 2 1/2" x 2 1/2"	2.82
13B144	P-6135	5 CT	10	2500	N	3 1/2" x 2 1/2" x 2 1/2"	3.53
13B145	P-5014	6.3 CT	3	2500	B	3 1/2" x 2 1/2" x 2 1/2"	2.65
13B146	P-3064	6.3 CT	6	2500	B	3 1/2" x 2 1/2" x 2 1/2"	3.23
13B147	P-6308*	6.3 CT	10	2500	N	3 1/2" x 2 1/2" x 2 1/2"	3.76
13B148	P-6138	7.5 CT	8	2500	N	3 1/2" x 3 1/2" x 2 1/2"	4.47
13B149	P-5016	10 CT	4	2500	B	3 1/2" x 2 1/2" x 2 1/2"	3.53
13B150	P-6139	10 CT	8	2500	N	3 1/2" x 3 1/2" x 3 1/2"	4.38

MULTI-TAPPED TUBE CHECKER FILAMENT TRANSFORMER

105/115/125 V. 60 cy. Pri. with 19 TAP SEC.; 1.1, 1.4, 1.5, 2.0, 2.5, 3.0, 3.3, 5.0, 6.3, 7.5, 12, 25, 30, 35, 50, 70, 85, 110, 117 Sec. volts. "A" mtg.; 2 1/2" high x 4" wide x 2" deep. Weight, 2.4 lbs. Stock No. 13A70. Stancor P1834-3; With Inst. Net Each..... \$7.06

MODULATION TRANSFORMERS

Stock No.	Stancor No.	Suggested Mod. Tubes	Class "C" Load	Audio Watts	Mtg. Fig.	Dimensions H. W. D.	Your Cost
13B121	A-3845	PP 6F6, 6V6	8M/6.5M/5M/3M	25	C	3 1/2" x 2 1/2" x 2 1/2"	\$3.62
13A205	A-3843	PP 6L6-AB	14.5M/7.5M/5M	40	D	4 1/2" x 3 1/2" x 4 1/2"	7.00
13B124	A-2907	PP 10, T20, T220	12.5M/9M/6.8M, 5M/3.3M	90	D	4 1/2" x 4" x 5 1/2"	8.56
13B125	A-2908	PP T20, T220, 35T, 50T	6.25M/5.35M/4.5M, 3M	120	D	4 1/2" x 4" x 5 1/2"	9.03

POLY-PEDANCE MODULATION TRANSFORMERS

Matches 2,000 to 20,000 ohm class "B" amplifier to class "C" load of same.

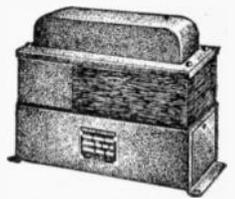
Stock No.	Stancor No.	Audio Watts	Max. D.C. Pri.	Sec.	Mtg. Fig.	Dimensions H. W. D.	Your Cost
13B153	A-3892	30	150	150	D	4" x 3 1/2" x 3 1/2"	7.06
13B155	A-3893	60	180	180	D	4" x 3 1/2" x 4 1/2"	8.23
13B156	A-3894	125	225	225	D	4 1/2" x 4" x 4 1/2"	10.85
37A91	A-3898	300	260	260	FS	7 1/2" x 7 1/2" x 8 1/2"	34.02

POLY-PEDANCE DRIVER TRANSFORMER

Type A-4762. Matches all common P.P. driver tubes to class "B" modulator tubes having output of only a few watts or up to 500 watts. Ratio 2.6: 1/3:1/3.2:1/3.4:1/4.5:1/5:1. Max. audio 15 watts. Primary rated at 150 MA. each side. D.C. mtg. Size, 2 1/2" x 3 1/2" x 3 1/2" high. Stock No. 13B152. Your Cost..... \$7.11

RAYTHEON VOLTAGE STABILIZERS HOLDS VARYING AC LINE VOLTAGES CONSTANT WITHIN ONE-HALF PER CENT

Essentially a completely automatic transformer operating at line voltages that may vary between 95 and 130 volts and which delivers 115 volts held constant within $\pm 1/2\%$, to any electrical device requiring line voltage stability. Ordinarily used on television sets, X-Ray machines, sound recording equipment, constant speed motors, critical electronic devices, lighting circuits, laboratory testing and measuring instruments, etc. Regulation response is so fast that variations at the output cannot be observed on an ordinary voltmeter. Contains no moving parts and cannot be damaged by accidental overload or even short circuit. Stabilizers of like type can be paralleled for greater output. All units designed for single-phase 60-cycle operation.



Stock No.	Model No.	Rating Watts	L. Size	Overall W.	H.	Net Wt.	Net Each
13B74	VR-6110	15	5 3/4"	2 1/2"	3 1/2"	4	\$16.00
13B75	VR-6111	30	7 1/2"	3 3/8"	4 1/8"	5	17.00
13B76	VR-6112	60	7 1/2"	3 3/8"	4 1/8"	8	24.00
13B78	VR-6113	120	7 1/2"	3 3/8"	5 1/8"	14	31.00
13A307	VR-6114	250	12 3/8"	5"	7 7/8"	25	48.00
13A308	VR-6115	500	12 3/8"	5"	9 7/8"	45	76.00
13A309	VR-6116	1000	14 1/8"	13 1/8"	9 7/8"	92	125.00

Adjust-A-Volt VARIABLE TRANSFORMER



Variable autotormer type transformers for 50/60-cycle operation. Control on panel calibrated in volts. Output independent of load. Provides smooth control. Ruggedly constructed and well ventilated.

Stock No.	Input Volts	Output Volts	Max. Va.	Price Each
31A42	115	0-140	860	\$23.03
31A43	115	0-140	1500	44.59
31A44	230	0-140	860	27.93

ISOLATION TYPE

Similar to above but with separate primary and secondary. Fuse protected. Recommended for service shops to check intermittent parts by increasing voltage on sets. Rated at 500 VA. Output, 70/140 Volts.

No. 31A45, 115 Volts Input. Each. \$28.91
No. 31A46, 230 Volts Input. Each. 30.87

NEW! RCA ISOLATION TRANSFORMER

Primary and secondary are completely isolated, eliminating shock hazard when servicing AC-DC sets. Also speeds up servicing by having a source of high line voltage—to show up unstable capacitors and other causes of intermittents; normal voltage to service sets at rated circuit voltages; low voltage to check oscillator action. Primary line voltage range, 105-130 volt; six-position rotary switch provides adjustment in 5-volt steps. Output connections are made through three standard receptacles, providing 105, 117 and 130 volts. Continuous rating, 100 watts, 10% regulation. Intermittent rating 150 watts. Size 4 3/8" x 4 1/2" x 5 7/16" high. With 5 ft. primary cord. Wt., 6 1/2 lbs. Stock No. 13B265. NET EACH..... \$8.77



220 TO 110 VOLT STEP-DOWN TRANSFORMERS

For operation of 110 V., 60 Cy. A.C. devices in areas where 220 V., 60 Cy. A.C. is the standard supply voltage. All types have 110 V., A.C. plug-in receptacle mounted on side of transformer. Windings are not isolated, being of auto-former type. *Pri. tapped for 200, 220, 240-volt.

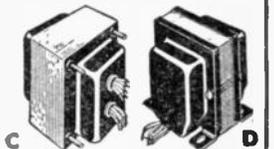
Stock No.	Wattage Rating	H.	W.	D.	Your Cost
13A295	80	3 1/2"	3"	3 1/4"	\$4.29
13A82	150	4 1/2"	3 1/2"	3 3/8"	5.62
13B151	300*	4 1/2"	4"	4 1/8"	7.14
13A296	500*	4 1/2"	4"	5 1/8"	10.73
37A36	1000*	5 3/8"	4 3/8"	4 1/2"	20.87



POWER TRANSFORMERS

AT SUBSTANTIAL SAVINGS!

Highest quality materials and workmanship. Check these values for receiver replacement and construction, public address amplifiers and amateur use. For 115-volt 60-cycle operation.



RECEIVER REPLACEMENT TYPE (Mounting Fig. C)

Stock No.	Merit No.	Plate V.	MA	Fil. No. 1 V.	Fil. No. 2 V.	Mtg. Area	Your Cost
37A10	P-2949	480CT	40	5	2	3 x 2 1/2"	\$2.88
37A11	P-2950	650CT	40	5	2	3 x 2 1/8"	3.03
37A12	P-2951	700CT	70	5	3	3 x 3 1/8"	3.67
37A13	P-2952	700CT	90	5	3	3 3/8 x 3 3/8"	3.97
37A14	P-2953	700CT	120	5	3	3 3/4 x 3 1/8"	4.50

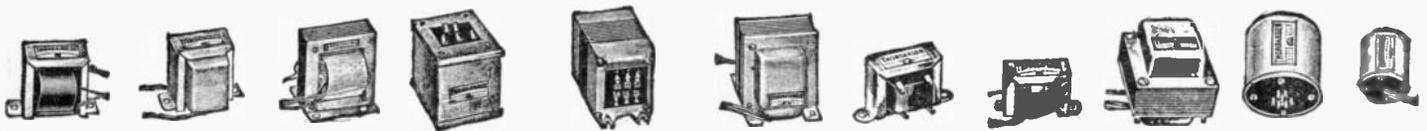
AMATEUR PLATE TRANSFORMERS (Mounting Fig. D)

Stock No.	Merit No.	Sec. RMS Volts	DC MA	Dimensions	Your Cost
37A16	P-3157†	{ 660-660 } { 550-550 }	250	3 1/2" x 4 3/8" x 4 5/8" High	\$6.76
37A17	P-3158*	{ 1080-1080 } { 500-500 }	{ 125 } { 150 }	3 1/2" x 5" x 4 5/8" High	8.23
37A18	P-3159	{ 900-900 } { 800-800 }	225	3 1/2" x 5 1/8" x 4 5/8" High	7.94

†P-3157 has 40-V. bias tap. *P-3158 for simultaneous operating both ratings.



Thordarson Transformers and Chokes



AUDIO INPUT TRANSFORMERS

Stock No. 13B159. Type T-20A00, 50 ohm single BUT. MIC., 200 ohm C.T. DBL. BUT. MIC., or 600 ohm C.T. line to SGL. grid; or PP grids. Ratio 1:10. MTG. BAH, 2" centers. Net Each. **\$1.71**

Stock No. 13B160. Type T-20A01. 50 ohm SGL. BUT. MIC., 200 ohm C.T. DBL. BUT. MIC., or 600 ohm C.T. line to SGL. grid; or 240,000 ohm MIC. to 600 ohm C.T. line, Ratio 1:20. Shielded MTG. FGV, 2 3/8 x 2 7/8" centers. Net Each. **\$2.70**

Stock No. 13B161. Type T-20A02, 50 ohm SGL. BUT. MIC., 200 ohm C.T. DBL. BUT. MIC., or 600 ohm C.T. line to P.P. grids, Ratio 1:20. Shielded MTG. FGV, 2 3/8 x 2 7/8" centers. Net Each. **\$2.65**

LOW IMPEDANCE MICROPHONE or VOICE COIL TO GRID

Stock No. 13B162. Type T-20A04, 3-6 ohm V.C. or 50 ohm MIC. to SGL. grid. Ratio 1:80. MTG. BAH, 2" centers. Net Each. **\$1.71**

TRANSCIVER (PLATE and/or MIC. TO GRID)

Stock No. 13B163. Type T-20A03, 5,000 or 10,000 ohm plate to grid, ratio 1:3.25; also 200 ohm MIC. to grid, ratio 1:35. MTG. BAH, 2 3/8" centers. Net Each. **\$2.53**

AUDIO INTERSTAGE (PRI. CUR. 8 MA ALL TYPES) SINGLE 10,000 OHM PLATE TO SINGLE P.P. GRIDS

Stock No.	Thord. No.	Turns Ratio	Core Stack	Mtg. Fig.	Mtg. Centers	Net Each
13B164	T-20A16	1:2	1 1/2 x 1 1/2	BAH	2"	\$1.47
13B165	T-20A17	1:2	1 1/2 x 1 1/2	FGV	1 1/2"	2.50
13B166	T-20A22	1:3	1 1/2 x 1	BAH	2 1/2"	2.50
13B167	T-20A23	1:3	1 1/2 x 1	FGV	2 1/2"	2.88
PUSH-PULL 20,000 OHM PLATES TO P.P. GRIDS (split secondary)						
13B168	T-20A24	1:3	1 1/2 x 1	FGV	2 1/2"	2.94
SINGLE OR P.P. PLATES TO SINGLE OR P.P. GRIDS						
13B169	T-20A19	1:3	1 1/2 x 1 1/2	BAH	2 1/2"	2.00

DRIVER TRANSFORMERS (CLASS "B" AND "AB")

*For other tube combinations consult Tube Manual for plate impedances.

Stock No.	Thord. No.	*Suggested Tubes	Pri. MA. DC.	Ratio Pri. to 1/2 Sec.	Mtg. Fig.	Net Each
13B170	T-20D75	30 or 1H4 to 19 or 1J6	7	2.4:1	BAH	\$1.62
13B171	T-20D76	6N7 or 53 to 6N7 or 53	3	5.2:1	BAH	1.71
13B172	T-20D77	6F8 to P. P. 6F8 (AB-2)	30	2.5:1	FGV	2.53
13B173	T-20D78	PP 6F8 to PP 6L6 (AB-2)	40	4:1	GGV	3.38
13B174	T-20D80	PP 6L6 to PP 100TH	40	3.2:1	GGV	4.00
13B175	T-20D82	PP 6L6 to PP 833	60	5:1, 3.2:1	GGV	4.41
13B176	T-20D83	500 ohms to P. P. Grids	15	15 Watts	PUV	15.65

REPLACEMENT OUTPUT TRANSFORMERS

Advanced compact design. Mtg. centers for 3 watt types only 2", for 8 watt types 2 13/16". Fig. BAH. *For single tubes. Others are for single or push-pull plates.

Stock No.	Thord. No.	Primary Impedance	Secondary Impedance	Pri. MA.	Watts	Net Each
13B177	T-22S45*	1500 to 3000	3.2 to 4	55	3	\$1.21
13B194	T-22S46*	3000 to 6000	3.2 to 4	35	3	1.35
13B195	T-22S47	6000 to 12000 CT	3.2 to 4	35	3	1.62
13B196	T-22S48	12000 to 25000 CT	3.2 to 4	10	3	1.65
13B197	T-22S56	8000 to 10000 CT	3.2 to 4, 6 to 8	50	8	2.44
13B198	T-22S58	5000 to 7000 CT	3.2 to 4, 6 to 8	50	8	2.44
13B199	T-22S60	2500 to 4000 CT	3.2 to 4, 6 to 8	60	8	2.53

HEAVY DUTY OUTPUT TRANSFORMERS

For single or push-pull plates to line or voice coil. Mtg. Fig. GGV. *Mtg. dim. 2 1/2 x 2 7/16". Others 2x1 11/16". Secondary impedance all types 3.2 to 4, 6 to 8-15-250-500 ohms.

Stock No.	Thord. No.	Primary Impedance	Suggested Tubes	Pri. Ma.	Watts	Net Each
13B201	T-22S64	10,000 CT.	PP 2A5, 6V6, 7C5	50	25	\$4.23
13B202	T-22S66	8,000 CT.	PP 6A6, 6V6, 50, 53	50	25	4.23
13B203	T-22S68	6,500 CT.	PP 6L6, AB1, AB2	70	25	3.97
13B204	T-22S76	5,000 CT.	PP 2A3, 6A3, 45, 6L6	80	25	4.53
13B207	T-22S72	3,000 CT.	PP 2A3, 6A3, 48	90	25	4.53
13B213	T-22S78*	3,300 CT.	PP PAR 6L6, AB2	180	60	6.44

UNIVERSAL OUTPUT TRANSFORMERS

*Figure BHH, †Figure FGV, others Figure BAH.

Stock No.	Thord. No.	Primary Impedance	Secondary Impedance	Pri. Ma.	Watts	Net Each
13B214	T-22S74*	14,000 CT. to 2,500 CT.	1 to 30	80	25	\$3.73
13B215	T-22S62*	4,000 to 1,500 Single	1 to 30	50	8	2.50
13B216	T-22S86	(14,000 CT., 8,000 CT.)	3.2 to 4	50	3	1.85
13B217	T-22S87	or	or	50	6	2.03
13B218	T-22S88	3,500-2,000 Single	6 to 8	50	8	2.20
13B219	T-22S76*	14,000 CT. to 3,000 CT.	500 to 600	80	25	3.88
13B220	T-22S90†	20,000 CT. Single or P.P.	125 to 600 CT	10	3	2.65

LINE TO VOICE COIL MATCHING TRANSFORMERS

Frequency Response 50 to 15,000 CPS. *Figure BHH, others BAH.

Stock No.	Factory No.	Primary Impedance	Secondary Impedance	Mtg. Dim.	Watts	Net Each
13B221	T-22S82*		3 3/8"	25	\$4.20	
13B222	T-22S83	2000, 1500	3 3/8"	15	2.88	
13B223	T-22N84	1000, 500	2 1/2"	6	2.65	
13B224	T-22S85		2 1/2"	3	2.41	

CHOKES—UNIVERSAL SWINGING AND SMOOTHING

A new series of chokes scientifically engineered to provide better filtering and better regulation than the "swinging and smoothing" system. One or two chokes may be used in conventional circuits. *Plate coupling choke.

Stock No.	Thord. No.	Inductance Hys. Rated DC Max. DC	D.C.M.A. Rated Max	DC RES	Test Volts	Mtg. Fig.	Mtg. Ctr.	Net Each
13B225	*T-20C50	350 75	5 25	5500	2000	BAH	2 1/2"	\$2.03
13B226	T-20C51	35 15	15 25	1850	1200	BAH	2	1.35
13B227	T-20C52	8 4	40 65	450	1200	BAH	2	1.18
13B228	T-20C53	12 8	80 100	375	2000	BAH	2 1/2"	1.73
13B229	T-20C54	8 4	150 200	145	2700	GGV	2x1 1/2"	2.88
13B230	T-20C55	6 2	200 300	75	2700	GGV	2 1/2 x 2"	3.74
13B231	T-20C56	7 4	300 375	60	3500	GGV	2 1/2 x 3"	5.43
37A92	T-20C57	10 6	500 600	65	7500	PUV	2 1/2 x 7"	20.29

PLATE TRANSFORMERS

For amateur and commercial transmitters, experimental and industrial applications. Equipped with electrostatic shields between primary and secondary. *Indicates primary for 115-230 V. All others for 115 V., 50-60 cy. only. CCS ratings below may be exceeded by approximate 40% for ICAS.

Stock No.	Thord. No.	DC Volts	DC MA	Dimensions W. D. H.	Mtg. Fig.	Net Each
31B36	*T-21P77	2500, 2000	300	6 3/4" 11" 9"	9	PUV \$53.21
31B37	T-21P82	2000, 1500	220	5 1/2" 11" 6 1/2"	6 1/2"	PUV 40.57
31B38	T-21P83	1250, 1000	200	4 1/2" 8 1/2" 6"	6"	PUV 21.17
13A273	T-21P87	650, 500	220	3 1/2" 4 1/2" 4 1/2"	4 1/2"	GGV 10.14
13A274	T-21P89	400	175	3 1/2" 4 1/2" 3 1/2"	3 1/2"	GGV 6.76
31A63	T-21P93	1000V @ 95MA, and 400V @	125MA.	3 1/2" 4 1/2" 4 1/2"	4 1/2"	GGV 9.47

FILAMENT TRANSFORMERS

All Primaries 115V., 50-60 Cy., A.C. Ratings Are For Continuous Operation. *Recommended for 866 Rect. †Tapped secondary. ††Tapped primary.

Stock No.	Thord. No.	Secondary Volts Amps.	Volts Insul.	Mtg. Fig.	Dimensions W. D. H.	Net Each
13B236	T-21F00	2.5 C.T.	5	1600	BAV 2 1/2" 1 1/2" 2 1/2"	\$2.12
13B237	T-21F01	2.5 C.T.	10	1600	BAV 3 1/2" 2" 2 1/2"	2.85
13A294	T-21F02*	2.5 C.T.	10	7500	CAV 2 1/2" 2 1/2" 3 1/2"	3.65
13B238	T-21F03	5 C.T.	3	1600	BAV 2 1/2" 1 1/2" 2 1/2"	2.44
13B239	T-21F04	5 C.T.	8	1600	CAV 2 1/2" 2 1/2" 3 1/2"	3.23
13B241	T-21F20	5 C.T.	15	10000	CAV 3 1/2" 3 1/2" 4 1/2"	5.66
13B242	T-21F05	5 C.T.	3	10000	CAV 2 1/2" 2 1/2" 3 1/2"	3.53
13B243	T-21F06	5 C.T.	13	1600	CAV 2 1/2" 2 1/2" 3 1/2"	3.73
13B244	T-21F07	5 C.T.	21	1600	CAV 3 1/2" 3 1/2" 3 1/2"	5.09
13B245	T-21F08	6.3 C.T.	1	1600	BAV 2 1/2" 1 1/2" 2"	1.85
13B247	T-21F10	6.3 C.T.	3	1600	BAH 3 1/2" 1 1/2" 2"	2.44
13B248	T-21F11	6.3 C.T.	6	1600	CAV 2 1/2" 2 1/2" 3 1/2"	3.62
13B249	T-21F12	6.3 C.T.	10	1600	CAV 2 1/2" 2 1/2" 3 1/2"	3.56
13B250	T-21F14†	6.3, 5, 2.5	2.5	1600	BAH 3 1/2" 1 1/2" 2"	2.44
13B251	T-21F15†	7.5 C.T.	4	1600	BAV 3 1/2" 2" 2 1/2"	2.70
13B252	T-21F16	7.5 C.T.	8	1600	CAV 2 1/2" 2 1/2" 3 1/2"	3.56
13B253	T-21F17	7.5 C.T.	12	1600	CAV 2 1/2" 2 1/2" 3 1/2"	4.41
13B254	T-21F18	10 C.T.	5	1600	CAV 2 1/2" 3 1/2" 3 1/2"	3.56
13B255	T-21F19††	10-11 C.T.	12	1600	CAV 3 1/2" 3 1/2" 3 1/2"	5.09

MODULATION TRANSFORMERS

Quiet, highly efficient transformers for use with tubes specified or other similar types.

Stock No.	Thord. No.	Primary	Secondary	Watts	Mtg. Fig.	Dimensions W. D. H.	Net Each
13B259	T-21M50	1-19	4500	3	BAH	2 1/2" 1 1/2" 1 1/2"	\$2.00
13B260	T-21M52	6N7 4500, 3750, 3000	10	FGV	2 1/2" 2 1/2" 2 1/2"	2.88	
13B261	T-21M54	P.P. 6L6	4000	25	GGV	2 1/2" 2 1/2" 3 1/2"	3.88
13A267	T-21M56	PP T220-809	6000, 3750	75	GGV	3 1/2" 4 1/2" 3 1/2"	6.44
13A268	T-21M58	P.P. 811-812	6250	100	KTV	4 1/2" 5 1/2" 5 1/2"	15.23

MULTIMATCH MODULATION TRANSFORMERS

For quick and accurate matching of standard modulator tubes to practically any R.F. load, allowing use of same transformer by changing solder lug connections. Full data supplied with each transformer.

*Mtg. Fig. KTV, Others, Fig. PUV. T21M66 Matches 5000 to 10000 ohm R.F. load.

Stock No.	Thord. No.	Primary M.A. Each Side	Sec. M.A. Ser. Par	Audio Watts	Dimensions W. D. H.	Net Each
13B272	T-21M60*	50	50 100	15	2 1/2" 1 1/2" 1 1/2"	\$10.50
13A269	T-21M61	125	125 250	60	3 1/2" 5 1/2" 4"	14.11
13A270	T-21M62	210	160 320	125	4 1/2" 6 1/2" 5 1/2"	21.17
37A93	T-21M64	250	250 500	300	4 1/2" 7 1/2" 6"	33.81
31B35	T-21M65	320	320 640	500	5 1/2" 11" 6 1/2"	54.10
13A272	T-21M66*	(500 Ohm Line)	200	50	4 1/2" 5 1/2" 5 1/2"	15.88

UPRIGHT POWER TRANSFORMERS

To furnish plate and filament voltage requirements of amplifiers, receivers and exciter stages of transmitters. Mtg. Fig. GGV. All primaries 117 V., 50/60 cycles. *Has additional 6.3 V. CT. 3 A. Fil. All Fil. 2 are C.T.

Stock No.	Thord. No.	H. V. Sec. V.A.C. D.C.M.A.	Fil. 1 V. A.	Fil. 2 V. A.	Mtg. Area	Net Each
13A286	T-22R30	550 C.T.	50	5 2	6.3 2.5	2 1/2 x 3 1/2 \$4.91
13A287	T-22R31	720 C.T.	80	5 2	6.3 2.5	2 1/2 x 3 1/2 5.59
13A288	T-22R32*	700 C.T.	110	5 2	6.3 3	3 1/2 x 3 1/2 6.62
13A289	T-22R33	750 C.T.	160	5 3	6.3 3	3 1/2 x 3 1/2 7.11
13A290	T-22R34	770 C.T.	225	5 3	6.3 3	3 1/2 x 4 1/2 9.14
13A292	T-22R35	800 C.T.	340	5 3	6.3 7	3 1/2 x 5 1/2 9.70

for Every Purpose



Audio Transformers

HALF-SHELL POWER TRANSFORMERS

Supplied with adjustable mtg. brackets for flush, vertical or horizontal placement. Mtg. Fig. AGF. All Primaries for 117 V. 50/60 cy. All Fil. 2 are C.T. *Has additional 2.5 V. C.T. 3.5 A. Fil. †Has additional 2.5 V. C.T. 5 A. Fil.

Stock No.	Thord. No.	H. V. Sec.		Fil. 1	A.	Fil. 2	A.	Mtg. Area	Net Price
		V.A.C.	MA.D.C.						
13A276	T-22R00	500 C.T.	40	5	2	6.3	2	2 1/2 x 3	\$4.06
13A276	T-22R01	550 C.T.	50	5	2	6.3	2.5	2 1/2 x 3	4.12
13A277	T-22R02	600 C.T.	70	5	2	6.3	3	2 1/2 x 3	4.91
13A278	T-22R04	600 C.T.	90	5	2	6.3	3.5	2 1/2 x 3 3/8	5.03
13A279	T-22R05	600 C.T.	120	5	3	6.3	5	3 1/2 x 3 3/8	5.59
13A280	T-22R06	650 C.T.	150	5	3	6.3	5	3 1/2 x 3 3/8	5.88
13A281	T-22R07	700 C.T.	200	5	3	6.3	6	3 1/2 x 4 1/8	7.29
13A282	T-22R08	500 C.T.	40	5	2	2.5	4	2 1/2 x 3	4.06
13A283	T-22R09	550 C.T.	50	5	2	2.5	7.5	2 1/2 x 3	4.41
13A284	T-22R10*	650 C.T.	85	5	2	2.5	9	3 1/2 x 3 3/8	5.76
13A285	T-22R11†	650 C.T.	120	5	3	2.5	12.5	3 1/2 x 3 3/8	6.44

C.R. TUBE POWER TRANSFORMER

Type T-22R40 for high voltage, low current cathode ray tube and test equipment. All secondaries insulated at 7,500 V.R.M.S. test. Primary—117 V., A.C., 60 cy. H.V. Secondary, 1,800 V., A.C. at 2 MA. Fil. No. 1, 2.5 V. at 1.8 A., Fil. No. 2, 6.3 V. at 6 A. tapped at 2.5 V. at 2.1 A. Mtg. Fig. CGV., Mtg. area 3 5/32x3 3/4". Supplied with instructions. **\$8.82**

Stock No. 13A293. Net Each.....

EXPANDER—COMPRESSOR FEEDBACK CONTROL

Type T20A26, Fig. RTV. The control element of a newly developed system of expansion-compression much superior to the D.C. grid bias control method. Can be incorporated in high fidelity amplifiers for AM-FM, Phono or amateur use. Technical details supplied with each unit. **\$5.88**

Stock No. 13B235. Net Each.....

DUAL TONE CONTROL COMPONENTS

Type T20C74 Reactor Fig. RAV. For use with R1068 Dual Tone Control below. Coil and core of hum-backing type. Res. 220 ohms. Size, 1 9/16" diameter, 2" high. Stock No. 13B233. Net Each..... **\$2.79**

Type R1068 Dual Tone Control. For use with T20C74 Reactor in tone compensating circuit to boost or attenuate bass or treble frequencies independently of one another. System may be installed between two resistance coupled stages. Instructions furnished. **\$1.85**

Stock No. 13B234. Net Each.....

THORDARSON PHOTO-FLASH TRANSFORMERS

Type T-22R42 Power Transformer—Primary 117 V., 60 cy., high voltage secondary 2,250 V. at 1.5 MA., rectifier filament secondary 2.5 V. at 1.75 A. Mounting type BAV, size 4x2 3/8x2 3/8" high. Weight, 2 lbs. **\$4.26**

Stock No. 13A297. Your Cost.....

Type T-22R43 Power Transformer. Primary 117 V., 60 cy. or 4 V. vibrator, secondary 1,100 V. at 1.5 MA. mtg. type BAV, size 3 1/8x2 3/8x2 11/16" H. Weight, 1 1/2 lbs. **\$6.17**

Stock No. 13A298. Your Cost.....

Type T-22R44 Ignition Transformer. Primary 200 V. condenser discharge, secondary 15,000 V. Mtg. type BAH, size 2 1/4x1 1/8x1 1/2" H. Weight 1/4 lb. **\$3.18**

Stock No. 13A299. Your Cost.....

Thordarson Photo-Flash Power Supply Bulletin. Complete descriptive details for construction of a practical power supply for photo-flash applications. Stock No. 16A316. **15c**

Your Cost.....



SPRAGUE PHOTOFASH CAPACITORS

Energy storage type. "Vitamin Q" oil filled. Designed especially for photo flash service. Ratings are for maximum of 1800 flashes per hour. For continuous voltage application, decrease voltage rating by 20%. Can also be used in flash welding circuits where a great amount of current is required momentarily.

No.	Type	Watt/Sec.	Mfd.	Volts	Size	Net Cost
19A265	PQ-315	67	15	3000	3 3/4 x 3 3/8 x 4 7/8" H.	\$14.41
19A267	PQ-2525	78	25	2500	4 1/8 x 3 3/4 x 5 1/4" H.	15.57
37B44	PQ-2535	109	35	2500	4 1/8 x 3 3/4 x 7" H.	19.11

SPRAGUE PHOTOFASH BROCHURE

Gives comprehensive data on Photoflash with a discussion of its principles. Gives details and diagrams of How to Build and use a simple, useful "Speed-light" unit. **25c**

No. 16A326. YOUR COST, EACH.....

RAYTHEON CK-1013 RECTIFIER TUBE

Half wave, gas filled, cold cathode, miniature, rectifier for use in photo-flash power supplies. 2800 Volts peak inverse, 6 MA average current. Has Miniature base. Height 2 1/4". **\$2.25**

No. 20A138. PRICE EACH.....

POWERFUL, COMPACT — MADE TO TAKE IT!

ELECTRO PLATE SUPPLY TRANSFORMERS

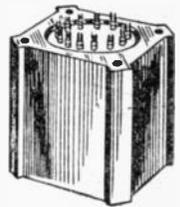


Distinctive design and construction allows unbelievably small size and weight with high overload capacity. Coils are sealed against dirt and moisture and protected at ends by tough insulating boards. All leads are brought out to terminals. Secondary is split, two-section type, mica insulated. Primary may be operated on either 115-volt or 230-volt 60 cycles. Core is made of high grade transformer alloy. Equipped with grounded electrostatic shield between windings. Type E5105 has tapped secondary.

Stock No.	Type No.	DC Output Volts	DC MA ICAS	DC CCS	W.	Size			Net Each
						D.	H.	Wt.	
37A2	E-5707	3000	650	—430	7	5 3/4	10	40	\$47.04
37A3	E-5105	1500	500	—350	7 1/4	4 3/4	7 3/4	30	\$5.28
		1750							
		2000							

"LINEAR STANDARD" AUDIO UNITS

The only audio units with a guaranteed uniform response, ±1 db. from 20 to 20,000 cycles. Minimum hum pick-up is accomplished through use of a hum balanced, semitoroidal coil structure. Low level units use a special alloy shield plus outer case.



Case	Length	Width	Height	Mounting
LS-1	3 1/8	2 5/8	3 1/4	1 1/8 x 2 1/8
LS-2	4 1/8	3 1/2	4 1/8	2 1/8 x 3 1/8
LS-3	5 1/8	5	4 1/8	4 1/8 x 5 1/8

LOW IMPEDANCE TO GRID TRANSFORMERS

Type LS-10 Pri. 50, 125, 200, 250, 333, 500/600 ohms. Sec. 60,000 ohms over-all in 2 sections. Max. level, +15DB. Case LS-1. **\$14.70**

Stock No. 19A94. Net Each.....

Type LS-12, as above except for P.P. grids. Sec. 120,000 ohms over-all in 2 sections. Case LS-1. **\$16.46**

Stock No. 19A95. Net Each.....

Type LS-26. Bridging line to single or P.P. grids. Pri. 5,000 ohms, Sec. 60,000 ohms in two sections. Max. level +20DB. Case LS-1. **\$14.70**

Stock No. 19A96. Net Each.....

INTERSTAGE AUDIO TRANSFORMERS

Type LS-19, 15,000 ohm single plate to P.P. grids. Split Sec. 95,000 ohms over-all, 1.25:1 each side. Max. level +17DB. Case LS-1. **\$14.11**

Stock No. 19A97. Net Each.....

Type LS-22, 30,000 ohms P.P. plates to P.P. grids. Split pri. and sec. Sec. 80,000 ohms over-all. Ratio 1.6:1 over-all. Max. level +26DB. **\$18.23**

Case LS-2. Stock No. 19A98. Net Each.....

MIXING TRANSFORMERS

Type LS-30. Mixing, low imp. mike, pick-up, or multiple line to multiple line. Pri. 50, 125, 200, 250, 333, 500/600 ohms. Sec. imp. same as pri. Max. level +17DB. Case LS-1. **\$14.70**

Stock No. 19A99. Net Each.....

Type LS-31. Three isolated lines or pads to multiple line. Each pri. 30, 50, 200, 250 ohms. Sec. 50, 125, 200, 250, 333, 500/600 ohms. Max. level +15DB. Case LS-1. Stk. No. 19A100. Net Ea **\$16.46**

Type LS-32. Mixing low imp. mike or pick-up or parallel mixer to multiple line. Pri. 2.5, 5.5, 10, 15, 22, 30, 38, 60 ohms. Sec. 50, 125, 200, 250, 333, 500/600 ohms. Max. level +15DB. Case LS-1. **\$16.46**

Stock No. 19A101. Net Each.....

INPUT TO LINE TRANSFORMERS (CASE LS-1)

Sec. imp. all types 50, 125, 200, 250, 333, 500/600 ohms. Type LS-27. Pri. 15,000 ohms single plate, level +20DB. **\$14.11**

Stock No. 19A102. Net Each.....

Type LS-51. Pri. 30,000 ohms PP plates, level +20DB. **\$14.11**

Stock No. 19A103. Net Each.....

Type LS-151. Pri. 16,000 ohms for bridging 50 to 600 ohm line. Level +22DB. Stock No. 19A104. Net Each..... **\$14.70**

OUTPUT TO LINE AND VOICE COIL

Sec. imp. all types 1.2, 2.5, 5, 7.5, 10, 15, 20, 30, 50, 125, 200, 250, 333, 500 ohms. **\$16.46**

Frequency range 25-20000 Cps plus or minus 1 db.

Type LS-55. Pri. 5000 and 3000 ohms C.T., P.P. 2A3's, 6A3's, 6L6's. Max. level 20 watts. Case LS-2. **\$16.46**

Stock No. 16A700. NET EACH.....

Type LS-61. Pri. 10,000 and 6000 ohms C.T., P.P. 6F6's, 6V6's, 6A6's. Max. level 15 Watts. Case LS-2. **\$16.46**

Stock No. 16A701. NET EACH.....

Type LS-6L1. Pri. 9000 Ohms C.T., P.P. 6L6's, self-bias. Max. level 30 watts. Case LS-3. **\$24.70**

Stock No. 13B24. NET EACH.....

HIGH LEVEL LINE MATCHING TRANSFORMER

Type LS-33. Pri. 50, 125, 200, 250, 333, 500/600 ohms. Sec. 1.2, 2.5, 5, 7.5, 10, 15, 20, 30, 50, 125, 200, 250, 333, 500/600 ohms. Max. level 15 watts. Case LS-2. **\$16.46**

Stock No. 16A702. NET EACH.....

U.T.C. OUNCER AUDIO TRANSFORMER

FREQUENCY RANGE 40/15,000 CPS.

Fully impregnated and sealed in drawn aluminum housing 7/8" dia., 1 1/8" H. Mtg. opposite terminals. Weight only one ounce. Max. operating level 0 db. No D.C. in pri. windings. **\$7.79**

Type O-1 Mike, pickup or line to single grid. Pri. 50, 200/250, 500/600 ohms. Sec. 50,000 ohms. **\$7.79**

Stock No. 19B622. NET EACH.....

Type O-3 Dynamic mike to single grid. Pri. 7.5/30 ohms. **\$7.06**

Sec. 50,000 ohms. Stock No. 19B623. NET EACH.....

Type O-4 Single plate to single grid. Pri. 15,000 ohms. **\$6.17**

Sec. 60,000 ohms. Stock No. 19B624. NET EACH.....

Type O-8 Single plate to line. Pri. 15,000 ohms. **\$7.79**

Sec. 50, 200/250, 500/600 ohms. Stock No. 19B625. NET EACH.....

Type O-12 Mixing and matching. Pri. 50, 200/250 ohms. Sec. 50, 200/250, 500/600 ohms. **\$7.06**

Stock No. 19B636. NET EACH.....

Type O-13 Reactor, 200 Hys.—no DC; 50 Hys.—2 MA DC 6000 ohms. Stock No. 19B637. NET EACH..... **\$5.59**

UTC MICROPHONE CABLE TRANSFORMERS

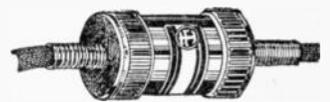
For insertion in cable circuit, adapting low impedance microphone to tube grid. Pri. tapped at 30/50 and 200/250 ohms. Cable connections are made through spring strain relief to terminal boards inside the end caps, permitting universal choice of cable fittings. Dia. 1 1/2", weight, 1/2 lb. Type MC-1 Standard fidelity for general PA and amplifier service. **\$7.64**

No. 19A105. NET EACH.....

Type MC-2 High fidelity, for high quality PA and broadcast service. **\$10.00**

No. 19A106. NET EACH.....

WE CAN SUPPLY ON SPECIAL ORDER AT REGULAR PRICES, ALL U.T.C. TRANSFORMERS





EVEREADY Batteries

POPULAR "MINI-MAX" A-B BATTERY PACKS

"Mini-Max" STANDARD 1 1/2-90 VOLT A-B PACK FOR FARM SETS—No. 759
Size 15 11/16x4 5/32x6 15/16". Weight, 18 1/2 lbs. List, \$5.95. **\$4.37**
Stock No. 1A6. "Mini-Max" A-B Pack, 1 1/2-90 Volt. Net Each.

"Mini-Max" No. 752 "A-B" PACK; 9-Volt "A", 90-Volt "B"
EXACT REPLACEMENT FOR "ZENITH" Models 6C001 and 004; 6C501 and 505; 7G605 and 5G500R. Size, 14 1/16x2 11/16x4 1/16"; wt. 6 3/4 lbs. Has recessed 4-hole socket 1" in diameter. **\$3.77**
Stock No. 1A9. "Mini-Max" No. 752. List, \$5.50. Net Each.

"Mini-Max" No. 753 "A-B" PACK; 7 1/2-9 Volt "A", 90-Volt "B"
Replacement for "PHILCO" 41-841 and 851T; 46-300 and 350; "RCA" 66BX; "Detrola" 591; "Truetone" Models D3615-30-35; and many others. Size, 9 7/32x2 23/32x4 5/16"; has 1" diameter socket, 8-hole with off-center guide hole. Weight, 5 1/4 lbs. List, \$5.50. **\$3.77**
Stock No. 1A8. "Mini-Max" No. 753. Net Each.

"Mini-Max" No. 754 "A-B" PACK; 7 1/2-9 Volt "A", 90-Volt "B"
Size, 10 1/2x3 1/4x4". Weight, 6 1/2 lbs. List, \$5.50. **\$3.77**
Stock No. 21A28. "Mini-Max" No. 754. Net Each.

Mini-Max No. 752W 9-1 1/2-Volt (10 1/2-Volt) "A", 90-Volt "B"
Size, 14 1/16x2 11/16x4 1/16". Weight, 7 1/4 lbs. List, \$5.85. **\$4.02**
Stock No. 3B51. NET EACH.

Mini-Max No. 755 6-7 1/2-Volt "A", 75-Volt "B"
Size, 8 9/16x2 7/16x3 3/4". Weight, 3 3/4 lbs. List, \$4.50. **\$3.09**
Stock No. 3B52. NET EACH.

Mini-Max No. 756 7 1/2-Volt "A", 90-Volt "B"
Size, 9 17/32x2 1/8x3 27/32". Weight, 4 lbs. List, \$5.50. **\$3.77**
Stock No. 3B55. NET EACH.

"Mini-Max" and Standard "B" BATTERIES FOR PORTABLE SETS

Stock No.	Fact. No.	Volts	Dimensions L x W x H	Weight	List Each	Net Each	Pkg. Qty.	@ Each
21B71	411	15	1 1/4 x 1 1/8 x 1 1/8	1 oz.	\$0.85	\$0.82	24	\$0.68
21B69	413	30	1 1/4 x 1 1/8 x 2 1/8	1 1/2 oz.	1.25	.96	24	.81
21A17	455	45	2 1/8 x 1 3/8 x 3 3/4	8 oz.	1.65	1.25	6	1.14
21B67	457	67 1/2	2 1/8 x 1 3/8 x 2 1/2	7 oz.	2.25	1.71	6	1.55
21B20	490	90	Fits Emerson 559A	1 lb.	2.95	2.23	6	2.03
21A18	467	67 1/2	2 1/8 x 1 3/8 x 3 3/4	12 oz.	2.25	1.71	6	1.55
21A19	482	45	3 1/8 x 1 3/8 x 5 1/2	2 lb.	2.00	1.51	6	1.37
21A21	738	45	3 1/8 x 1 3/8 x 2 1/2	1 1/2 lb.	2.50	1.89	2	1.71
21A29	487	45	5 1/8 x 2 1/8 x 7 1/4	4 1/4 lb.	2.75	2.08	10	1.89
21B68	493	300	2 1/8 x 1 3/8 x 3 3/4	1 lb.	10.00	6.86	..	..

EVEREADY "C" BATTERIES

No.	Fact. No.	Connection	Volts	Weight	List	Net Ea.	Pkg.	@ Ea.
21A6	768	Plug-in	22 1/2	1 3/4 lb.	\$1.95	..	1	\$1.34
21A8	763	Screw Term.	+ 22	13 oz.	1.95	\$1.48	5	1.34
21A7	771	Plug-in	4 1/2	1/2 lb.	.85	.65	5	.59
21A23	773	Scr. Term. & Lead	7 1/2	10 oz.	.95	.73	5	.68
21A9	781	Screw Term.	+ 4 1/2	5 oz.	.50	.38	5	.34
21A27	412	End Strips	22 1/2	1 1/3 oz.	1.05	.76	24	.70

PORTABLE "A" BATTERIES—See Plugs Below

Stk. No.	No.	Volts	L.	W.	H.	Wt. Lbs.	List	Net Ea.	Pkg.	@ Ea.
21B70	717	7 1/2	2 3/4	1 x1	x3 3/4	1/2	\$0.95	\$0.72	6	\$0.67
21A10	718	6	3 1/4	x2	x5	3/4	1.75	..	1	1.21
21B66	724	6	1 3/4	x1	x2	3/4	.50	.38	12	.34
21B22	736	4 1/2	Fits Emerson 559A	1	..	..	.75	.57	6	.52
21A11	741	1 1/2	3	x2	x5 1/4	3/4	1.65	..	1	1.14
21A12	742	1 1/2	2	x2	x4	2	.95	.73	6	.67
21A13	743	1 1/2	3 3/4	x2	x3 1/2	2 1/4	1.25	.95	3	.86
21A31	744	6	2	x2	x3 1/2	1 3/8	.95	.72	6	.66
21A14	745	1 1/2	10 3/4	x3	x1	3 1/4	1.75	1.32	2	1.21
21A15	746	4 1/2	3	x1	x4 1/2	1 1/4	.75	.57	2	.53
21A16	747	6	10 3/4	x3 1/2	x1 1/2	3 1/4	1.75	1.32	2	1.21

No. 21A32. 4FH Burgess "Little Six" replaces larger No. 6. Size, 2 5/8" square, 4 5/16" high. **52c** Case of 20 For **\$9.11**
Net Each.

BATTERY CABLE PLUGS

(A) 2-prong, 3/4" centers for 4 1/2-Volt "A" (Eveready 746, 736, etc.)
No. 12A573. Each. **7c**
(A) 2-prong, 3/8" centers for 6-Volt "A" (Eveready 718, 744, 747, etc.)
No. 12A163. Each. **7c**
(B) 2-prong, 1/4" centers for 1 1/2-Volt "A" (Eveready 741, 742, 743, 745, etc.)
No. 12A162. Each. **7c**
(B) 3-prong "B" batteries (Eveready 738, 482, etc.)
No. 12A574. Each. **7c**
(D) SNAP FASTENERS. Fits Eveready 455, 457, 467, etc.
No. 12A1341. Per Set, Male and Female. **12c**
Snap Fasteners. Assembled on fibre strip with lead wires attached (not illustrated). Fits Eveready 455, 457, 467, etc.
No. 14A717. Each. **18c**

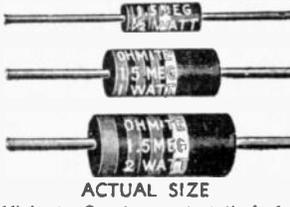
(B) 3-prong for 4 1/2-volt "C" batteries (Eveready 771, 487, etc.)
No. 12A575. Each. **7c**
(C) 4-prong large plug for combination 1 1/2-volt "A" and 90-volt "B" Packs (Eveready 759, etc.)
No. 12A165. Each. **8c**
(C) 3-prong large plug for 45-volt "B" portable batteries (Eveready 482, 738, etc.)
No. 12A164. Each. **7c**
(C) 5-prong plug for standard 22 1/2-volt "C" batteries (Eveready 768, etc.)
No. 12A576. Each. **13c**

KIT OF 50 ASSORTED PLUGS
Includes above and other popular ones.
No. 18A24. 50 Ass't. Plugs **\$2.93**

OHMITE

Ohmite "Little Devil" Resistors Individually Marked

The Ohmite "Little Devils" are molded insulated composition resistors available in three sizes, 1/2, 1 and 2 watts. They are tiny in size but have exceptional ruggedness, stability and current carrying capacity. Not only are the "Little Devils" RMA color coded, but the resistance value and wattage are clearly marked on every unit for quick identification. "Little Devils" meet all test requirements of Jan-R-11, including salt water immersion and high humidity tests. They have high insulation breakdown voltage, a low noise level and low voltage co-efficient. Can be used at their full wattage ratings at 70° C (158° F.) ambient temperature and dissipate heat rapidly. The standard RMA values, 10 ohms to 22 megohms can be furnished, all 10% tolerance. Values as low as 2.7 ohms are available in the 1-watt size.



ACTUAL SIZE

STANDARD RMA CODE—Specify Resistance

Ohms	Ohms	Ohms	Ohms	Ohms	Megohms	Megohms
	10	82	680	5,600	47,000	0.39
	12	100	820	6,800	56,000	0.47
*2.7	15	120	1,000	8,200	68,000	0.56
*3.3	18	150	1,200	10,000	82,000	0.68
*3.9	22	180	1,500	12,000	0.1 Meg.	0.82
*4.7	27	220	1,800	15,000	0.12 Meg.	1.00
*5.6	33	270	2,200	18,000	0.15 Meg.	1.2
*6.8	39	330	2,700	22,000	0.18 Meg.	1.5
*8.2	47	390	3,300	27,000	0.22 Meg.	1.8
	56	470	3,900	33,000	0.27 Meg.	2.2
	68	560	4,700	39,000	0.33 Meg.	2.7

*1-Watt Size Only.

1/2-Watt	1-Watt	2-Watt
3/8x9/64" Size	9/16x7/32" Size	11/16x5/16" Size
350 Max. Volts	500 Max. Volts	1000 Max. Volts
10 Ohms to 22 Megs.	2.7 Ohms to 22 Megs.	10 Ohms to 22 Megs.
12B658. Net Each. 10c	12B659. Net Each. 15c	12B660. Net Each. 20c
100 Lots. Net Each. 6c	100 Lots. Net Each. 9c	100 Lots. Net Each. 12c

100 Lot Prices Apply to Purchases of One Value, Not Assorted.

OHMITE "BROWN DEVIL" RESISTORS

Small size wire wound units with pigtail leads for convenient mounting. Vitreous enamel coating provides lasting protection from humidity and mechanical damage. Tolerance is 10%.



AVAILABLE RESISTANCE VALUES IN OHMS

1	*35	200	*450	1,750	4,500	25,000
5	50	*225	500	2,000	5,000	30,000
10	75	250	750	2,250	7,500	35,000
*15	100	300	1,000	2,500	10,000	40,000
20	*125	350	1,250	3,000	15,000	45,000
25	150	400	1,500	4,000	20,000	50,000

When Ordering, Specify Stock Number and Resistance.
Stock No. 12B649. 10-Watt Brown Devil, Size 1 3/4x5/16".
1 to 1,000 Ohms. Each. **.34c** 15,000 to 20,000 Ohms. Each. **.47c**
1,250 to 5,000 Ohms. Each. **.37c** 25,000 to 40,000 Ohms. Each. **.51c**
7,500 to 10,000 Ohms. Each. **.42c** 30,000 to 50,000 Ohms. Each. **.57c**

Stock No. 12B650. 20-Watt Brown Devil, Size 2x7/16".
1 to 1,000 Ohms. Each. **.44c** 15,000 to 20,000 Ohms. Each. **.55c**
1,250 to 5,000 Ohms. Each. **.46c** 25,000 to 40,000 Ohms. Each. **.64c**
7,500 to 10,000 Ohms. Each. **.52c** 45,000 to 50,000 Ohms. Each. **.73c**

NEW OHMITE LITTLE DEVIL RESISTOR ASSORTMENT

IN MOLDED PLASTIC CABINET FOR REGULAR PRICE OF RESISTORS ONLY

A rugged smooth operating molded plastic cabinet. 125 selected 1/2-watt resistors for the serviceman and builder consisting of 40 values from 10 ohms to 10 meg. ohm. Cabinet has five drawers and a total of 40 compartments, it is dovetailed top and bottom for perfect stacking. You can find resistor values quickly, have visual check on stock and keep resistors clean and straight. Size 9" long, 4 3/4" high and 5 1/4" deep. You pay regular price for resistors only, no charge for cabinet.
No. 33A111. Complete. **\$12.25**



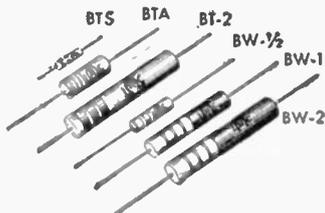
DRY CELLS, FLASHLIGHT, LANTERN BATTERIES

Cat. No.	Factory No.	Description	List Each	Net Each	Unit Pkg.	Per Pkg.
21A1	950	Large Unit Cell	\$0.10	\$0.08	48	\$3.06
21A2	935	Small Unit Cell	.10	.08	12	.76
21A3	915	Penlight Battery	.075	.06	12	.59
21A4	409	Lantern Battery	.70	.52	1	.52
21A5	No. 6	Ignitor Dry Cell	.65	.50	12	5.47
37A84	1461	Hot Shot	3.35	2.50	6	2.27



INSULATED *Metallized* and WIRE WOUND RESISTORS

The Standard of Quality. The World Around!



COMPACT TYPES BTS, BTA, BT-2, BW-1/2, BW-1, BW-2

Type BT insulated metallized resistors are unexcelled for stability, low noise level, low voltage coefficient and mechanical strength. Insulation breakdown of BTS is 750 volts to ground, all other BT's 1000 volts. All have JAN-R-11 approval in all characteristics for resistance values listed.

Type BW insulated wire wound resistors have same insulation as BT types. Element is wound tightly around a special insulated core. Type BW-1/2 is approved under JAN-R-184 characteristic in values from .24 ohm to 470 ohms, inclusive.

STANDARD RMA CODE—Specify Values

Ohms	Ohms	Ohms	Ohms	Ohms	Ohms	Ohms	Megs	Megs
0.47	3.6	24	180	1,300	10,000	75,000	0.47	3.6
0.51	2.9	27	200	1,500	11,000	82,000	0.51	3.9
0.56	4.8	30	220	1,600	12,000	91,000	0.56	4.3
0.62	4.7	33	240	1,800	13,000	100,000	0.62	4.7
0.68	5.1	36	270	2,000	15,000	110,000	0.68	5.1
0.76	5.6	39	300	2,200	16,000	120,000	0.75	5.6
0.82	6.2	43	330	2,400	18,000	130,000	0.82	6.2
0.91	6.8	47	360	2,700	20,000	160,000	0.91	6.8
1.0	7.5	51	390	3,000	22,000	160,000	1.0	7.5
1.1	8.2	56	430	3,300	24,000	180,000	1.1	8.2
1.2	9.1	62	470	3,600	27,000	200,000	1.2	9.1
1.3	10	68	510	3,900	30,000	220,000	1.3	10
1.5	11	75	560	4,300	33,000	240,000	1.5	11
1.6	12	82	620	4,700	36,000	270,000	1.6	12
1.8	13	91	680	5,100	39,000	300,000	1.8	13
2.0	15	100	750	5,600	43,000	330,000	2.0	15
2.2	16	110	820	6,200	47,000	360,000	2.2	16
2.4	18	120	910	6,800	51,000	390,000	2.4	18
2.7	20	130	1,000	7,500	56,000	430,000	2.7	20
3.0	22	150	1,100	8,200	62,000		3.0	22
3.3	24	160	1,200	9,100	68,000		3.3	

1/2-WATT BTS. Size, 13/32x1/8". Available in values from 470 ohms to 22 megohms.

Stock No. 15A1002. 10% Tolerance. Each..... **10c** 100 Lots. **6c**

Stock No. 12A648. 5% Tolerance. **20c** 100 Lots. **12c**

1-WATT BTA. Size, 23/32x1/4". Available in values from 330 ohms to 22 megohms.

Stock No. 15A1004. 10% Tolerance. Each.... **15c** 100 Lots. **9c**

Stock No. 12B651. 5% Tolerance. **29c** 100 Lots. **18c**

2-WATT BT2. Size, 13/4x21/64". Available in values from 470 ohms to 22 megohms.

Stock No. 15A1006. 10% Tolerance. Each..... **20c** 100 Lots. **12c**

100 Lots Price Applies to Purchase of One Value Only.

1/2-WATT BW-1/2. Size, 5/8x3/16". Available in values from 0.47 to 820 ohms as listed above plus 0.24, 0.27, 0.30, 0.33, 0.36, 0.39 and 0.43 ohms.

Stock No. 15A1001. 10% Tolerance. **10c** 100 Lots. **6c**

Stock No. 12B652. 5% Tolerance in values from 10 to 820 ohms. **20c** 100 Lots. **12c**

1-WATT BW1. Size, 1 1/4x1/4". Available in values 0.47 to 4,700 ohms.

Stock No. 15A1003. 10% Tolerance. **15c** 100 Lots. **9c**

Stock No. 12B653. 5% Tolerance. Available in values from 10 to 4,700 ohms. **29c** 100 Lots. **18c**

2-WATT BW2. Size, 1 3/4x21/64". Available in values 1.0 to 6,800 ohms.

Stock No. 15A1005. 10% Tolerance. **20c** 100 Lots. **12c**

100 Lots Price Applies to Purchase of One Value Only.

PRECISION WIRE WOUND RESISTORS

Dependable precision meter multipliers and shunts. Guaranteed accuracy 1%. Non-inductively wound. Winding is specially impregnated, which insures constant resistance at all frequencies to 50,000 cycles.

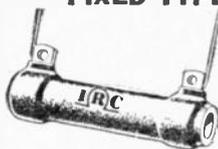


Stock No.	Res. Ohms	Net Each	Stock No.	Res. Ohms	Net Each
15B1017	1	\$1.00	15A1062	5000	\$1.03
15B1018	5	1.00	15A1063	7500	1.03
15B1019	10	1.00	15A1064	10000	1.03
15B1020	25	1.00	15A1065	12500	1.03
15B1021	50	1.00	15A1066	15000	1.03
15B1022	100	1.00	15A1067	20000	1.12
15A1057	200	1.00	15A1068	25000	1.12
15A1058	300	1.00	15A1069	30000	1.12
15A1059	500	1.00	15A1070	40000	1.12
15A1060	1000	1.00	15A1071	50000	1.12
15A1061	2500	1.00	15A1072	50000	1.32
			Stock No.	Res. Ohms	Net Each
			15A1073	75000	\$1.32
			15A1074	100000	1.44
			15A1075	150000	1.65
			15A1076	200000	1.88
			15A1077	250000	2.06
			15A1078	300000	2.24
			15A1079	400000	2.79
			15A1080	500000	2.94

IRC POWER WIRE-WOUND RESISTORS

These famous IRC resistors have a durable cement coating, non-hygroscopic ceramic core, careful winding and highest quality resistance wire. Built to stand overloads, intense heat, dampness, humidity, and even salt water immersion. Units of 25-watt and up include mtg. brackets. Accuracy on all within 5%.

FIXED TYPE AB, 10-WATT, Size 5/16x1 3/4"

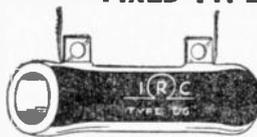


Available in Value as Listed Below

1	50	300	1,250	4,000	15,000
5	75	350	1,500	5,000	20,000
7.5	100	400	2,000	6,000	25,000
10	150	500	2,500	7,500	.....
15	200	750	3,000	10,000	.....
25	250	1,000	3,500	12,500	.....

No. 15B1007. Specify Resistance Wanted. 1 to 1,000 ohm. Each..... **34c**
1,250 to 5,000 ohm. Each..... **37c** 12,500 to 20,000 ohm. Each... **47c**
6,000 to 10,000 ohm. Each... **42c** 25,000 ohm. Each..... **61c**

FIXED TYPE DG, 20-WATT, Size 9/16x2 1/2"



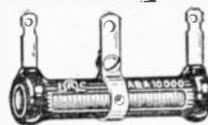
Available in All Values Shown Above.

No. 15B1009. Specify Resistance wanted.

1 to 1,000 ohm. Each..... 44c
1,250 to 5,000 ohm. Each..... 46c
6,000 to 10,000 ohm. Each..... 52c
12,500 to 20,000 ohm. Each..... 55c
25,000 to 35,000 ohm. Each..... 64c
50,000 ohm. Each..... 73c

ADJUSTABLE — FURNISHED WITH ONE BAND
25 to 200-Watt types now furnished with Positive Pressure Band — prevents oxidation and corrosion at point of contact — eliminates wire damage and breakage. Cannot be adjusted too tightly. Designed for high temperatures.

TYPE ABA, 10-WATT, Size 5/16x1 3/4"



Ohms	Ohms	Ohms	Ohms	Ohms	Ohms
5	50	200	750	2,000	5,000
10	100	300	1,000	2,500	7,500
25	150	500	1,500	3,000	10,000

In Values Above, Specify Resistance.

No. 15B1011. 5 to 1,000 ohms. Each..... **70c**
1,500 to 5,000 ohms. Each... **73c** 7,500 to 10,000 ohms. Each... **78c**

TYPE DHA, 25-WATT, Size 9/16x2 1/2"

Stock No. 15B1501. Available in Values Shown Below. Each

Ohms	Ohms	Ohms	Ohms	Ohms	Ohms	Ohms	Ohms
5	50	250	1,000	2,500	10,000	1,250 to 5,000 ohms...	\$0.92
10	100	300	1,250	3,000	15,000	7,500, 10,000 ohms...	1.00
15	150	500	1,500	5,000	20,000	15,000, 20,000 ohms...	1.03
25	200	750	2,000	7,500	25,000	25,000 ohms.....	1.11

Type EPA—50 Watts



Each resistor complete with mounting brackets and one new type positive pressure band. Size 4 1/2x3 3/4". Ranges as listed. Stock No. 15B1506.

100, 250, 500 or 1,000 ohm. Each..... \$1.16
1,500, 2,500, 3,000 or 5,000 ohm. Each..... 1.21
10,000, 15,000 or 20,000 ohm. Each..... 1.39
25,000 ohm. Each..... \$1.50 50,000 ohm. Each..... 1.62
75,000 ohm. Each..... 1.80 100,000 ohm. Each..... 1.91

100 Watts

Type HAA—Adjustable

Size 6 1/2x1 1/8" in ranges shown below. Price includes mounting brackets. Specify values wanted. Each complete with mounting brackets and one new type band.

Stock No. 15B1508

Ohms	Ohms	Ohms	Ohms
100	10,000	\$1.89	
200	15,000	2.01	
500	20,000	2.01	
1,000	25,000	2.14	
	30,000	2.14	
	50,000	2.23	
1,500	60,000	2.23	
2,000	75,000	2.33	
2,500	100,000	2.43	
5,000			

Extra Sliders

15A1012. For ABA..... **12c**
15A1013. For DHA..... **12c**

200 Watts

Type HOA—Adjustable

Size 10 1/2x1 1/8" in ranges shown below. Prices include mounting brackets. Specify values wanted. Each complete with mounting brackets and one new type band.

Stock No. 15B1512

Ohms	Ohms	Ohms	Ohms
100	10,000	\$2.30	
100	15,000	2.42	
500	20,000	2.42	
1,000	25,000	2.47	
	50,000	2.53	
	75,000	2.66	
	100,000	2.77	

Extra Sliders

15A1014. For EPA..... **12c**
15A1015. For HAA-HOA..... **15c**

CENTER TAP-INSULATED WIRE WOUNDS

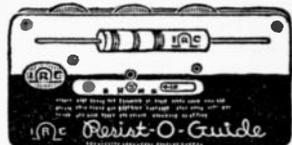


Bakelite encased for high temperature. Ideal to balance circuits in sets and transmitters. 2 1/2" long, 5 watts.

No. 15A1081. 10, 20, 50, 100 or 200 ohm. Specify ohmage wanted. **21c**
Choice, Each.....

For IRC Resist-O-Kits, See Page 53.

COLOR CODE GUIDE For Resistors

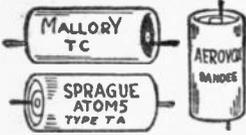


One of the most handy resistor Color Code Guides yet devised. The standard RMA range is automatically and accurately indicated. Everyone should have several on hand.

No. 16A116. Each..... **10c**

Popular MALLORY · AEROVOX · SPRAGUE Condensers

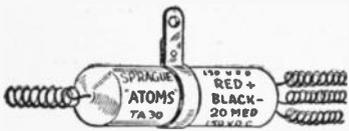
NEWEST COMPACT TUBULAR ELECTROLYTICS



Finest quality available, new, smaller size, ideal for all applications. Hermetically sealed in aluminum tube with external insulating sleeve. All plainly marked for capacity, voltage and polarity. Specify make wanted simply add to the stock number "A" for Aerovox, "M" for Mallory and "S" for Sprague. Shipping weight, 4 oz.

450 WORKING VOLTS			150 WORKING VOLTS			50 WORKING VOLTS		
Cap. Mfd.	Stock No.	Price Each	Cap. Mfd.	Stock No.	Price Each	Cap. Mfd.	Stock No.	Price Each
4	15A201	\$.53	4	15A221	\$.44	5	15A236	\$.44
8	15A202	.58	8	15A222	.47	10	15A237	.47
10	15A203	.62	16	15A224	.53	25	15A238	.53
12	15A204	.68	20	15A225	.58	50	15A239	.58
16	15A205	.79	30	15A226	.59	100	15A240	.59
20	15A206	.88	40	15A227	.65	25	15A241	.44
40	15A207	1.18	50	15A228	.71	10	15A242	.50
8-8	15A208	1.00	20-20	15A230	.76	25	15A243	.59
*8-8	15A209	1.23	30-30	15A400	.88	50	15A244	.71
15-15	15A448	1.29	50-30	15A401	1.00	100	15A245	.62
			50-50	15A449	1.09	10-10	15A245	.62
						25-25	15A450	.85

Sprague Triple Section Tubular Electrolytics



Popular replacements in small sets. These units all have cathode by-pass sections. The first types are for AC-DC sets, the sixth for AC-DC battery portables and the seventh is for AC sets. Very compact approx. 1x2 3/8".

Cap. Mfd.	DC Working Volts	Stock No.	Price Each
20-20-20	150/25	15A441	\$1.12
30-30-30	150	15A442	1.29
40-30-20	150/25	15A443	1.21
50-30-20	150/25	15A444	1.23
50-50-20	150/25	15A445	1.32
30-30/100	150/12	15A446	1.47
12-12-20	450/25	15A447	1.29

All are with 4 leads—Common Neg.

Servicemen Attention! SPRAGUE RESONANT CAPACITORS



A new type combination capacitor and inductance resonated at about 455 KC the IF of most broadcast receivers. Connected from screen grid to ground or in AC/DC sets from B to chassis ground permits on-the-nose IF alignment without self oscillation. They are incorporated in the design of many receivers and are now available as a regular replacement unit. All are 400-Volt DC and clearly marked "resonant capacitor".

Stk. No.	Mfg. No.	Size	Mf.	Each
15A178	72P51	1/2x1 1/8	.05	30c
15A179	72P52	1/2x1 3/8	.1	38c
15A180	72P53	3/8x1 1/8	.2	41c

AEROVOX Can Type Dry Electrolytics



Extremely compact etched foil dry electrolytics in drawn metal cans. May be mounted in any position—above or below sub-panel. With standard threaded bushing, lock nut and insulated wire leads. Can is completely insulated from sections. Shipping weight, 8 oz.

Cap. Mfd.	Stk. No.	Can Size	Your Cost
450-Volt DC Working—525-Volt Peak			
8	15A253	1 x 2 3/4	\$1.03
16	15A254	1 x 3 1/4	1.41
30	15A255	1 3/8 x 3	1.78
8-8	15A256	1 3/8 x 3	1.62
16-16	15A277	1 3/8 x 4	2.06
475-Volt DC Working—600-Volt Peak			
8	15A257	1 3/8 x 3	\$1.32
16	15A258	1 3/8 x 3	2.06
8-8	15A259	1 3/8 x 4	2.15

AEROVOX HIGH VOLTAGE MIDGET TUBULARS

Where small size with higher working voltage is required. All are 13/16x3" except (*) which are 1 1/16x3".

Cap. Mfd.	Working Voltage	Stock No.	Net Each
8	500	650 15A402	\$0.77
16	500	650 15A403	1.18
8	600	750 15A404	1.62
*16	600	750 15A405	1.91
8	700	850 15A406	1.76
*16	700	850 15A407	2.66

HIGH CAPACITY Low Voltage Tubulars

Compact like above, in aluminum tubes with external insulating covers.

Cap. Mfd.	DC Working Volts	Stock No.	Price Each
1000	3	15A1518	\$1.08
1000	6	15A1519	1.32
500	15	15A1520	1.23
1000	12	15B260	1.63
2000	6	15B261	2.29

SPRAGUE TYPE AP HIGH VOLTAGE Can Types. 600 V. Wkg. 800 V. Peak



Specially popular for PA, theater and other applications where voltage is high and surges run over 600-volts. Shipping weight, 8 oz.

Cap. Mfd.	Stock No.	Size	Your Cost
4	15A232	1 x 4 7/8	1.78
8	15A233	1 3/8 x 4 7/8	2.35
16	15A234	1 1/2 x 4 7/8	2.94

8 mfd., 800 volts DC working, in rectangular metal can 4 1/2" H., 1 1/2" Sq., with mtg. flange and insulated leads from bottom. SPRAGUE No. RC 88.

No. 15A289. Net Each **\$3.23**

MALLORY "FP" CONDENSERS

Highly dependable, compact dry electrolytics, hermetically sealed in aluminum cans. Specially designed for radio, television and other electronic circuits where high ripple current, surge voltage and high temperature are encountered. Internal design provides low RF impedance and minimum coupling between sections. Twist tabs make direct negative chassis mounting. A bakelite wafer provides insulated mounting when required. Has separate solder terminals to each section for the positive connection. Size, all are 1" diameter x 2", except the four section units which are 1 3/8" diameter, maximum length 3". Many popular replacements for television receivers are included. See Mallory Television Service Encyclopedia. Shipping weight average, 8 oz.

Cap. Mfd.	Volts DC	Stock No.	Price Each	Capacity Mfd.	Volts DC	Stock No.	Price Each
10	450	15A276	\$0.78	30-20-20	150/25	15A431	1.29
15	450	15A271	.91	40-20-20	150/25	15A432	1.36
20	450	15A272	1.03	40-40-20	450/25	15A433	2.44
40	450	15A273	1.32	20-20-200	150/25	15A434	1.76
10-10	450	15A274	1.23	40-20-20	150	14B3	1.41
20-20	450	15A275	1.58	40-40-40	150	15A435	1.53
40-40	450	14B2	2.35	50-30-100	150/25	15A436	1.82
20-20	150	15A277	.91	10-10-10-10	450	15A439	1.91
30-30	150	15A278	1.03	15-15-10-20	450/25	15A438	2.00
40-20	150	14B1	1.03	20-20-20-20	450	15A440	2.64
50-50	150	15A279	1.23	40-40-30-20	150/25	15A437	1.82
10-10-10	450	15A276	1.47	250-1000	10/6	14B5	2.50
10-10-20	450/25	15A281	1.38	40-10	450	14B6	1.85
20-20-20	450/25	15A428	1.73	80-50	450/50	14B7	2.32
20-20-20	150/25	15A429	1.29	40-10-80	450/200	14B8	2.55
20-20-20	150	15A430	1.29	40-40-10	450	14B9	2.53
20-10-20	350/25	15A283	1.44	60-10-10-20	450/150	14B10	2.65

WAX FILLED PAPER TUBULARS



Aerovox-Mallory-Sprague, compact, non-inductive wound, sealed in wax impregnated paper tubes with wax filled ends and bare wire leads. Standard quality, throughout. Specify make wanted, adding to the stock number "A" for Aerovox, "M" for Mallory, "S" for Sprague. Average shipping weight, 3 oz.

Mfd.	Stk. No.	Each	Mfd.	Stk. No.	Each	Mfd.	Stk. No.	Each
.0001	15A304	14c	.005	15A311	14c	.04	15A318	19c
.00025	15A305	14c	.006	15A312	14c	.05	15A319	22c
.0005	15A306	14c	.01	15A313	16c	.06	15A320	22c
.001	15A307	14c	.015	15A314	16c	.1	15A321	25c
.002	15A308	14c	.02	15A315	16c	.25	15A322	29c
.003	15A309	14c	.025	15A316	19c	.5	15A323	42c
.004	15A310	14c	.03	15A317	19c	1.	15A324	66c

MALLORY OIL FILLED PAPER TUBULARS, O.T.

Hermetically sealed in aluminum tubes with insulating outer sleeve. Ideal for vibrator buffer, coupling and other high voltage, high temperature applications. Has removable mounting bracket and can also be mounted from its own leads. Shipping weight, 3 oz.

Mfd.	Size	Stk. No.	Each
.002	5/8x1 3/8"	15A356	71c
.003	5/8x1 3/8"	15A357	71c
.005	5/8x1 3/8"	15A358	71c
.008	5/8x1 3/8"	15A359	71c
.01	5/8x1 3/8"	15A360	71c
.015	1x1 1/8"	15A361	73c
.02	1x1 1/8"	15A362	76c

MALLORY O.W. OIL IMPREGNATED WAX FILLED 1600-VOLT PAPER TUBULARS

Popular low priced vibrator and coupling condensers. Small size, high quality moisture protected units. Mounting is by means of tinned wire leads at each end. Size range, 9/16x 1 1/8" to 7/8x2".

Mfd.	Size	Stk. No.	Each
.0005	1/2x1 1/8"	15A341	32c
.001	1/2x1 1/8"	15A342	32c
.002	3/8x1 1/8"	15A343	32c
.004	3/8x1 1/8"	15A344	32c
.005	3/8x1 1/8"	15A345	32c
.006	3/8x1 1/8"	15A346	32c
.007	3/8x1 1/8"	15A347	32c
.008	3/8x1 1/8"	15A348	35c
.01	3/8x1 1/8"	15A349	35c
.015	1x1 1/8"	15A350	35c
.02	3/4x1 1/8"	15A351	35c
.03	3/4x2"	15A352	35c
.05	7/8x2"	15A353	41c

SPRAGUE TYPE "WR" 500 Working—600 Peak Volts DC AT NEW LOW PRICES!

Cap. Mfd.	Stock No.	Size	Your Cost
8	15A251	1 3/8 x 3 1/8"	\$0.91
16	15A252	1 3/8 x 4 1/8"	1.38
25	15A231	1 1/2 x 5 1/8"	1.62

SPRAGUE MOLDED TUBULARS



Especially suited for Television. Small size bakelite encased oil filled vacuum sealed tubulars at popular prices for high Temperature TV, Auto and AC/DC receivers. Rugged, moisture resistant, non-flammable and completely insulated. All have 2" tinned leads that will not pull out. Average shipping weight, 3 oz.

Mfd.	Size	Stk. No.	Each
.001	3/8x1 1/8"	15A454	15c
.002	3/8x1 1/8"	15A455	15c
.003	3/8x1 1/8"	15B369	15c
.005	3/8x1 1/8"	15A456	15c
.006	3/8x1 1/8"	15A457	15c
.01	3/8x1 1/8"	15A458	18c
.02	3/8x1 1/8"	15A459	18c
.03	1/2x1 1/8"	15B370	21c
.05	1/2x1 1/8"	15A460	24c
.1	5/8x1 1/8"	15A461	26c

MB 1600-VOLT Moisture and temperature resistant—for auto-vibrator and high voltage circuits.

Mfd.	Size	Stk. No.	Each
.002	3/8x1 1/8"	15B371	32c
.003	3/8x1 1/8"	15B372	32c
.005	3/8x1 1/8"	15B373	32c
.006	3/8x1 1/8"	15B374	32c
.007	3/8x1 1/8"	15B375	32c
.0075	3/8x1 1/8"	15B376	32c
.008	1/2x1 1/8"	15B377	35c
.01	1/2x1 1/8"	15A497	35c
.015	1/2x1 1/8"	15A498	35c
.02	5/8x1 1/8"	15A499	35c

TVM-TVQ 6000 AND *10,000-VOLT

Smallest size high voltage Television capacitors. TVQ has special impregnation and heavy outer wax coating.

Mfd.	Size	Stk. No.	Each
.0005	1/2x1 1/8"	15A500	79c
.001	5/8x1 1/8"	15A501	79c
.005	5/8x1 1/8"	15A502	79c
.0005*	5/8x1 1/8"	15A503	88c
.01 TVQ	1 1/2x1 1/8"	15A504	82c
.05 TVQ	1 1/2x2 1/8"	15A505	94c

Large Sales Volume—Fast Turnover assures you of an Ever Fresh Supply of Condensers at B-A.

NOISE FILTERS—MICA and CERAMIC CAPACITORS

General Purpose FILTERS SPRAGUE IF TYPES



Simple, effective suppressors of Radio and Television interference. Designed for installations at the

noise source. Small self-contained and easily applied to any electrical device. For connection across the power line, motor brushes, contacts, etc., maximum rating of 220-volt AC or DC, provided with a mounting strap and two wire leads.

TYPE IF-S1

For use across make and break contacts, such as thermostats, circuit breakers, door-bells, buzzers, relays, etc. Length, 2 7/16"; dia., 1".
No. 19A78. NET EACH. 66c

TYPE IF-21

Dual type for use across brushes of fractional horsepower motors, also across line terminals of motors with can grounded to motor frame. Length, 2 3/16"; dia., 1".
No. 19A76. NET EACH. 89c

TYPE IF-15

A filter for all small motor operated devices, mixers, fans, vacuum cleaners, etc. Length, 2 3/16"; dia., 1".
No. 19A75. NET EACH. \$1.11

TYPE IF-11

Dual high capacity filter for use on large motors over 1 horsepower and up to 220-volt AC or DC. Also used on high current arcing or sparking devices such as projectors, arc-welders, etc. Length, 5 1/2"; dia., 1 3/8".
No. 19A77. NET EACH. \$2.56

HEAVY DUTY FILTERS SPRAGUE FILTEROL TYPE



Power type filters for series connection to power line with casing grounded to the frame of the offending device. For very severe interference it may be necessary to install a Filterol in each side of the power line, though one unit usually is sufficient. Filterols are provided with mounting tabs or flanges and two solder-on screw terminals. All are safely insulated for at least 115-volt AC or DC. Selection of type 1, 2 and 3, Fig. A, should be based entirely on current rating of appliance or motor being filtered.

Type 4, Fig. B, incorporates a Sprague Hy-pass Capacitor and provides exceptionally high attenuation at frequencies above 5 MC and is effective up to 150 MC or more. Type 4 is rated at 220-volt AC or DC. Rating of type 1 is 1-amp., 2 is 10-amp., 3 is 35-amp. and 4 is 20-amp.

Stk. No.	Filterol Type	Amperes	Overall Size	Net Each
19A80	1	1	2 1/4 x 7/8 x 1 1/4	\$2.79
19A81	2	10	3 1/2 x 1 1/2 x 2	5.73
19A82	3	35	3 7/8 x 1 7/8 x 2 1/8	7.35
19A83	4	20	2 1/4" L. x 1" D.	1.80

MEISSNER LINE FILTERS



Highly efficient grounded and shielded interference filter of the inductor-capacitor type which filters both sides of the line. Effectively reduces interference

to radio reception caused by razors, food mixers, vacuum cleaners, electric fans and any other motor within the 300-watt rating. Connects to light socket and has receptacle for attaching interfering appliance.
No. 20A549. Your Cost. \$3.52

Fluorescent Lamp Filters SPRAGUE TYPE IF-37



A simple compact filter for suppression of radio interference from single fluorescent fixtures. Connect directly in the fixture as outlined in the diagram. Also very effective on adding machine and typewriter motors when connected direct to the motor leads. Use on 110 or 220 AC or DC lines.

No. 19A79. NET EACH. 88c

Fluorescent Filter



Approved by Underwriters Lab. Easy to Install.

Designed especially to suppress noises caused by Fluorescent Lamps. One of the most frequently needed suppressors now with the general acceptance of Fluorescent Lighting. Also may be used for correcting interference caused by electrically operated machines and appliances. After installed, requires no further attention.
No. 19A72. Net Each. 73c

Mallory Appliance Filter

Heavy duty type "LC" inductance capacity filter, recommended where severe noise interference to radio and television is encountered. Has line cord and plug for outlet connection and a receptacle in the filter unit for plugging in the interfering appliance or motor. May be used as a portable unit or permanently mounted from base flange. Has provision for ground lead connection. Rating 115/220 AC/DC.
No. 19A74. NET EACH. \$6.61
Type LC-5-5 Amp. \$8.82
Type LC-10-10 Amp. \$8.82

No. 19A77. NET EACH. \$2.56

PLUG-IN TYPE RADIO NOISE FILTER

MALLORY TYPE X-6
Plugs into power receptacle ahead of interfering device. Recommended for electric razors, and other small devices. In attractive brown plastic case, size 1 1/4 x 2 1/16 x 1". Rated at 125 V. A.C.-D.C., 15 A.
No. 19A1209. Your Cost, Each. 94c

No. 19A74. NET EACH. \$6.61

INTERFERENCE FILTERS FOR TV, FM, AM RADIO



Rejects interference on television, FM or AM Radio. Highly efficient tunable wave trap, works in any antenna line 50 to 400 ohms. Furnished with complete instructions.
*Interfering frequencies.
No. Freq. Range* No. Freq. Range*
20A544 6-13 20A547 54-108
20A545 13-27 20A548 108-216
20A546 27-54
CHOICE, NET EACH. \$2.94

TELEVISION INTERFERENCE HANDBOOK. The first publication to help identify and eliminate many of the sources of television interference. An invaluable aid to radio dealers, servicemen and amateurs.
No. 16B249. EACH. 50c

MIDGET MICA CONDENSERS

Built of selected mica and foil; molded bakelite casing impervious to moisture, heat or mechanical damage. Type "A" is 25/32" square, "B" 3/4 x 1/2 x 3/16" for both standard or silver mica. Standard Type 1000-volt DC test—500 Working.

Type 1468 "B"			Type 1467 "A"		
Mfd.	No.	Each	Mfd.	No.	Each
.00004	15A2	18c	.00075	15A13	18c
.00005	15A4	12c	.001	15A14	24c
.0001	15A6	12c	.003	15A15	29c
.00015	15A8	12c	.004*	15A16	32c
.00025	15A10	15c	.005*	15A17	35c
.0005	15A12	18c	.006*	15A18	44c
			.01*	15A19	71c

*600-Volt Test, 300 Wkg.

Encased in XM molded bakelite, 1000-volt test, 500-volt working, ±5% Tol.

Type 1469 (Fig. B)			Type 1464 (Fig. "A")		
Mfd.	No.	Ea.	Mfd.	No.	Ea.
.000005	15A69	\$.32	.00015	15A77	\$.27
.00001	15A70	.24	.0002	15A78	.27
.000025	15A71	.24	.00025	15A79	.27
.00004	15A72	.24	.0003	15A80	.32
.00005	15A73	.24	.00035	15A81	.35
.00007	15A74	.24	.0004	15A82	.38
.000075	15A75	.24	.0005	15A83	.41
.0001	15A76	.24			

*600 V. Test, 300 Wkg.

CENTRALAB "HI-CAP" CERAMIC CAPACITORS

Temperature Compensating General Purpose

Specially designed precision ceramic capacitors that provide the ultimate in stability for frequency control of R.F. circuits, TV, FM, AM and VFO. Type "NPO" are zero temperature capacitors where no change with temperature is desired. Type N750 provide a uniform negative change with temperature, used to correct frequency drift, rate of change .00075 mmf/mmf/°C. Tubular ceramic construction with electro bonded silver plates and tinned leads. 500-volt DC working and 1500-volt DC test. Size, CC20, 7/16 x 1/2; CC25, 3/4 x 1/4; CC32, 7/8 x 1/4; CC35, 1 1/4 x 5/16; CC45, 1 7/8 x 3/8.

Stk. No.	Cap. Mfd.	Net Each
15A142	.00001	15c
15A143	.000015	15c
15A144	.000025	15c
15A145	.00004	15c
15A84	.00005	15c
15A85	.0001	15c
15A86	.00015	15c
15A146	.0002	15c
15A87	.00025	15c
15A147	.0003	15c
15A148	.0004	15c
15A88	.0005	15c
15A89	.00075	15c
15A90	.001	15c
15A149	.0015	15c
15A91	.002	15c
15A150	.0025	15c
15A92	.005	15c
15A151	.0075	15c
15A93	.01	15c

TELEVISION HI-CAP

TVI-501 Ceramic Capacitor for filter or by-pass in high voltage circuits of television equipment. Solid brass terminals silver plated. Capacity 500 mmf., working voltage 10,000. Size, 1" diameter, 1/2" long.
No. 15A141. YOUR COST. \$1.03

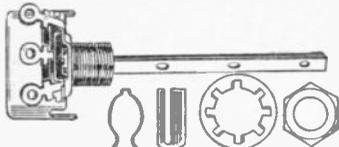
SPRAGUE DISC CERAMIC CAPACITORS

For RF by-pass or audio coupling in Radio, Television and FM circuits. They consist of a round, high dielectric constant, ceramic wafer with silvered electrodes on each surface. Leads are soldered to the silver surface and an overall moisture resistant coating is applied. Each capacitor value is clearly marked. Operating voltage 500-Volt DC. Test 1000. Max. size is 19/32" by 5/32" thick.

Stk. No.	Cap. Mfd.	Each	Pkg. of 5
15A173	.001	15c	73c
15A174	.0015	15c	73c
15A175	.002	15c	73c
15A176	.005	15c	73c
15A177	.01	18c	88c

MALLORY Replacement Volume Controls

MIDGETROL



A very small control only 15/16" diameter available in full line of resistances, tapers and taps. New type contact gives very smooth and quiet operation. New type flat shaft 2" long easily cut to any length. Clips supplied with each control to permit use of set screw, push-on or knurled knobs. No extra shafts needed for any replacement needs.

Stk. No.	Type	Res.	Taper
14A719	U-12	5M	1
14A720	U-14	5M	4
14A721	U-18	10M	1
14A722	U-19	10M	2
14A723	U-20	10M	4
14A724	U-21	15M	1
14A725	U-22	15M	2
14A726	U-24	20M	1
14A727	U-28	25M	2
14A728	U-29	25M	4
14A729	U-33	50M	1
14A730	U-34	50M	2
14A731	U-35	50M	4
14A732	U-36	75M	1
14A733	U-39	100M	1
14A734	U-40	100M	2
14A735	U-41	100M	4
14A736	U-42	150M	1
14A737	U-43	200M	4
14A738	U-44	250M	1
14A739	U-45	250M	2
14A740	U-46	250M	4
14A741	U-48	500M	1
14A742	U-50	500M	4
14A743	U-51	750M	1
14A744	U-53	1 Meg	1
14A745	U-54	1 Meg	4
14A746	U-55	2 Meg	1
14A747	U-57	3 Meg	1
14A748	U-65	5 Meg	1

Any of Above Less Switch. **73c**

Stk. No.	Type	Res.	Tap
14A749	UT-420	250M	50M
14A750	UT-425	350M	70M
14A751	UT-427	500M	100M
14A752	UT-431	500M	225M
14A753	UT-443	1 Meg	450M
14A754	UT-450	2 Meg	125M
14A755	UT-448	2 Meg	250M
14A756	UT-454	2 Meg	400M
14A757	UT-451	2 Meg	900M

Any of Above Less Switch. **\$1.09**

4" extension shaft for above controls. Furnished with two self tapping screws. No. 14A758. Type UE50. **15c**

MIDGETROL SWITCHES

Stk. No.	Type	Action	Each
14A759	US26	S.P.S.T.	35c
14A760	*US26T	S.P.S.T.	44c
14A761	US27	D.P.S.T.	44c
14A762	US28	S.P.D.T.	44c
14A763	*US23	4 P.S.T.	44c

*Dummy Term. **Shorting Type.

Midgetrol Control Deal

An assortment of 15 of the fastest moving new 15/16" Midgetrol controls and 9 AC switches. Supplied in an all metal cabinet with 15 spaces for controls and drawer for other items. You pay for controls and switches only. Cabinet plus 4 extension shafts, 5 extra U clips, 5 extra spring clips, and 2 idler pulleys are furnished at no cost to you. Contents: 4 U48, 3 U53, 2 U50, 2 U44, 1 U18, 1 U55, 1 U39, 1 U41 controls and 9 US26 Switches. Mallory No. U-1485. Complete as described. No. 31A91. **YOUR COST..... \$14.55**

EXPLANATION OF TAPERS

- No. 1—Modified logarithmic left hand —Antenna and Audio.
 - No. 2—R. H. logarithmic — Cathode voltage control.
 - No. 3—Comb. left and right hand — shunt and series circuit.
 - No. 4—Linear.
 - No. 7—Left hand — Antenna shunt plus bias control.
- NOTE: Please specify our stock numbers on your order to eliminate errors.

"MR" MIDGET CONTROLS



1 1/8" Dia. with 3" Flatted Shaft

Stock No.	Mallory Type	Ohms Res.	Taper No.
14A63	*MR14	5M	4A
14A64	*MR18	10M	1
14A65	*MR19	10M	2
14A66	*MR20	10M	4
14A67	*MR21	15M	1
14A68	*MR22	15M	2
14A69	*MR24	20M	1
14A70	*MR28	25M	2
14A71	*MR29	25M	4
14A72	MR33	50M	1
14A73	*MR34	50M	2
14A74	MR35	50M	4
14A75	MR36	75M	1
14A76	MR39	100M	1
14A77	MR40	100M	2
14A78	MR41	100M	4
14A79	MR42	150M	1
14A80	MR44	250M	1
14A81	MR45	250M	2
14A82	MR48	500M	1
14A83	MR50	500M	4
14A84	MR51	750M	1
14A85	MR53	1 Meg.	1
14A86	MR55	2 Meg.	1
14A87	MR57	3 Meg.	1

Any of the above, Less Switch, Each **73c**

STANDARD WIRE WOUND CONTROLS

Nominal rating, 4 watts. Fixed channel shaft 3" long with inset to fit all types of knobs. 1 1/8" Diameter; 2 to 20M Ohms.

*Has Adjustable Bias Feature

Stock No.	Mallory Type	Ohms Res.	Taper No.
14A31	Q	2	4
14A32	R	6	4
14A33	S	10	4
14A34	T	20	4
14A35	U	30	4
14A36	V	60	4
14A37	W	100	4
14A38	X	200	4
14A39	A400P	400	4
14A40	A	500	1
14A41	A550P	550	4
14A42	B	1000	1
14A43	UC500	1000	2
14A44	A1MP	1000	4
14A45	*CI2	2000	1
14A46	*C	2000	2
14A47	*A2MP	2000	4
14A48	*D12	3000	1
14A49	*D	3000	2
14A50	*A3MP	3000	4
14A51	*D7	3000	7
14A52	*E	5000	2
14A53	*A5MP	5000	4
14A54	*E7	5000	7
14A55	*F	7500	2
14A56	*F7	7500	7
14A57	*G	10000	2
14A58	*A10MP	10000	4
14A59	*G7	10000	7
14A60	*H	15000	2
14A61	*H7	15000	7
14A62	*A20MP	20000	4

Any of the above, Less Switch, Each **73c**

MALLORY 6TH EDITION

RADIO SERVICE ENCYCLOPEDIA

A COMPLETE SERVICING REFERENCE ON ALL PRE-WAR and POST-WAR RECEIVERS



Gives you accurate complete up-to-the-minute facts on volume and tone controls, capacitors, and vibrators . . . circuit information, servicing hints, installation notes, IF peaks, tube complements and number of tubes . . . and in addition cross-index to Rider by volume and page number. No. 16A339. **YOUR COST, Each..... \$2.00**

Heavy Duty Type "M" Wire Wound Rheostats and Potentiometers



Dissipate 4-watts. Insulated contact arm. 2810 effective electrical rotation. Use type 395 dial plate.

Stock No.	Mallory Type	Ohms Res.	Amps. Cap.
14A120	M05R	1/2	2.80
14A121	M1R	1	2.00
14A122	M2R	2	1.40
14A123	M3R	3	1.15
14A124	M4R	4	1.00

Stock No.	Mallory Type	Ohms Res.	Amps. Cap.
14A125	M6R	6	.82
14A126	M10R	10	.63
14A127	M15R	15	.52
14A128	M20R	20	.45
14A129	M25R	25	.40
14A130	M30R	30	.37
14A131	M40R	40	.32
14A132	M50R	50	.28
14A133	M60R	60	.26
14A134	M75R	75	.23
14A135	M100R	100	.20

Any of the above Type "M" Rheostats, Net Each **59c**

TYPE "M" POTENTIOMETERS

Stock No.	Mallory Type	Ohms Res.	M.A. Cap.
14A136	M15P	15	520
14A137	M20P	20	450
14A138	M25P	25	400
14A139	M30P	30	370
14A140	M40P	40	320
14A141	M50P	50	280
14A142	M60P	60	260
14A143	M75P	75	230
14A144	M100P	100	200
14A145	M200P	200	140
14A146	M400P	400	100
14A147	M500P	500	90
14A148	M600P	600	82

Any of the above Type "M" Potentiometers, NET EACH **73c**

14A149	M1MP	1,000	63
14A150	M2MP	2,000	45
14A151	M3MP	3,000	37
14A152	M4MP	4,000	32
14A153	M5MP	5,000	28

Any of the above Type "M" Potentiometers, NET EACH **82c**

14A154	M10MP	10,000	20
14A155	M15MP	15,000	16
14A156	M20MP	20,000	14
14A157	M25MP	25,000	13

Any of the above Type "M" Potentiometers, NET EACH **97c**

14A158	M50MP	50,000	9
14A159	M70MP	70,000	7.5

The above Type "M" Potentiometers, NET EA. **\$1.15**

Etched Dial Plates

Calibrated 0-10 in proper degrees matching rotation of various volume controls and rheostats.



No. 14A160; Type 395 for use with "M" and "WW" controls.
No. 14A161; Type 396 for use with "WW" when switch is used.
No. 14A162; Type 397 for use with carbon controls.
No. 14A163; Type 398 for carbon controls with switch.
Your Choice, Each **15c**

Fader Control

14A169. TRP609 Fader control 1 Meg. tapped at 500,000 ohms. 1 1/2" Diameter. **YOUR COST, EACH..... \$1.09**

CENTRALAB ECONOMY AMPLIFIER CONTROLS

Designed primarily for inexpensive sound equipment, fading and mixing systems. Non-rubbing contact for smooth, quiet operation. Will dissipate 1 watt. All units 1 3/8" diameter, 9/16" deep, with 2 1/4" shaft and 3/8" bushing.

Stock No.	CRL Number	Resistance Ohms	Description	Net Each
14A288	M-141	500M	Gain Control	\$1.03
14A289	M-142	1 Meg.	Gain Control	1.03
14A290	MT-144	500M	Straight Fader	1.18
14A291	MT-145	1 Meg.	Straight Fader	1.18
14A292	MX-147	200	"Delta-T" Pad	2.08
14A293	MX-148	500	"Delta-T" Pad	2.08

Attachable Switches for All Types of Mallory Controls



Switches for All 1 1/2" Dia. Controls.

Stock No.	Mallory Type	Switch Action	Net Ea.
14A109	6-9	S.P.S.T.	\$.35
14A110	*6T	S.P.S.T.	.41
14A111	7	D.P.S.T.	.44
14A112	8	S.P.D.T.	.44
14A113	13	**3P.S.T.	.41
14A114	14	**4P.S.T.	.41

*Dummy term. **Shorting type.

Switches for 1 3/8" Dia. Controls.

Stock No.	Mallory Type	Switch Action	Net Ea.
14A115	M26	S.P.S.T.	\$.35
14A116	*M26T	S.P.S.T.	.44
14A117	M27	D.P.S.T.	.44
14A118	M28	S.P.D.T.	.41
14A119	**M23-24	4P.S.T.	.44

*Dummy term. **Shorting type.

Volume Control Fittings



No. 14A184; Mallory 178, wrench.
No. 14A185; Mallory RB248, 1 1/2" centers mounting bracket.

No. 14A186; Mallory RB249; 2 1/2" centers mounting bracket.

ANY OF THE ABOVE, NET EACH **15c**

No. 14A187; Mallory A11260/2, hex shoulder nut for thick panels. 3/4" long. NET EACH **18c**

No. 14A188; Mallory A11260/12, 1/2" long hex shoulder nut. EACH **15c**

EXTENSION SHAFTS

No. 14A189; Mallory RS242, 1/4"x4" with 3/8" flat.

No. 14A190; Mallory RS243; 1/4"x4" with 3/8" flat.

No. 14A191; Mallory RS244, 3/8"x4" with 1/64" flat. ANY OF THE ABOVE, NET EACH **24c**

MR CONTROL DEAL

"Just it" for any service shop. 15 most popular MR controls and 9 AC switches for same. The cabinet of sturdy steel construction is yours free. You pay only for the controls and switches. No. 36A7. Mallory Control Kit with Free Cabinet. **YOUR COST..... \$14.55**

Carbon Control Cleaner

Repairs noisy volume controls, switches, etc. Removes oxidation and minimizes future trouble by coating contacts. No. 16A443. 2-Oz. EACH **35c**

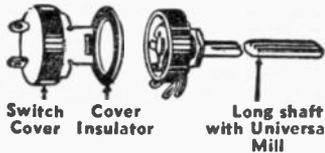
CARBON-X. For noisy carbon controls. Apply on the worn and noisy spots and the job is done. **59c**

Carbon Control Cleaner

Repairs noisy volume controls, switches, etc. Removes oxidation and minimizes future trouble by coating contacts. No. 16A443. 2-Oz. EACH **35c**

CARBON-X. For noisy carbon controls. Apply on the worn and noisy spots and the job is done. **59c**

Centralab



MIDGET RADIOHMS as listed below have attached 2 1/2" shaft, flatted, and with universal mill full length. MIDGET RADIOHMS are 1 3/32" in diameter. Attachable switches for Midget Radiohms available as listed below.

Stock No.	Midget Fact No.	Ohms Res.	CRL Curve
14A214	N-157	500	1
14A215	N-158	1,000	1
14A216	N-159	2,000	1
14A217	N-160	3,000	1
14A218	N-161	4,000	1
14A219	N-162	5,000	6
14A220	N-163	7,500	1
14A221	N-107	10,000	1
14A222	N-108	10,000	4
14A223	N-109	10,000	6
14A224	N-110	15,000	3
14A225	N-113	25,000	1
14A226	N-164	25,000	4
14A227	N-114	50,000	1
14A228	N-115	50,000	6
14A229	N-166	75,000	4
14A230	N-116	100,000	1
14A231	N-117	100,000	6
14A232	N-168	200,000	1
14A233	N-169	200,000	4
14A234	N-102	250,000	6
14A235	N-118	500,000	1
14A236	N-170	500,000	4
14A237	N-103	500,000	6
14A238	N-171	750,000	6
14A239	N-104	1 Meg.	6
14A240	N-155	2 Megs.	6
14A241	N-156	3 Megs.	6

YOUR CHOICE, NET EACH..... 73c

TAPPED MIDGET RADIOHMS

Stock No.	Fact. No.	Resist. Max. Ohms	Tap. at Ohms
14A242	NT-147	250M	125M
14A254	NT-148	350M	75M
14A243	NT-149	500M	250M
14A244	NT-150	1 Meg.	200M
14A255	NT-152	2 Meg.	400M
14A245	NT-153	2 Meg.	1 Meg.

TAPPED RADIOHMS, YOUR Choice, Net Each... \$1.09

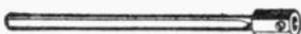
MIDGET RADIOHMS with Split Knurl Shafts

Stock No.	Resistance Ohms	Net Each
14A246	25M	\$0.73
14A247	50M	.73
14A248	250M	.73
14A249	500M	.73
14A250	1 Meg.	.73
14A251	2 Megs.	.73
14A252	500M Tap 150M	1.09
14A253	1 Meg. Tap 300M	1.09

ATTACHABLE SWITCHES

Stk. No.	Fact. No.	Net Each
14A266	K-155	S.P.S.T. 35c
14A267	K-156	S.P.D.T. 44c
14A268	K-157	D.P.S.T. 44c
14A269	K-158	Four Point. 44c

SHAFTS AND COUPLERS



Type K-181. Extension shaft, 4x1/4" diameter. No. 14A270. Each... 24c
 Type K-161. For coupling 1/4" shafts or one 1/4" and one 3/16" shaft. No. 14A271. Each... 18c
 Type K-184. Auto control coupling. End cone shaped and slotted. No. 14A272. Each... 18c

EXPLANATION OF CENTRALAB TAPERS

"1" Voltage divider. "3" Antenna
 "C" Bias. "4" "C" Bias. "6" Audio Grid or Tone.



TYPE Q 15/16" DIAMETER CONTROLS FILL EVERY SERVICE NEED



A New Control engineered to meet the needs of modern television and radio replacements. Very compact, only 15/16" diameter with 1/4" bushing. Complete with fixed 3" shaft which will take knurled, flatted or slotted knobs and easily cut to any length. Extra fixed shafts listed below. Switches quickly attached.

STANDARD CONTROLS LESS SWITCH

Stk. No.	IRC Type	Ohms Res.	Taper
14B416	Q11-103	500	A
14B417	Q11-108	1000	A
14B418	Q11-110	2M	A
14B419	Q11-112	3M	A
14B421	Q11-114	5M	A
14B424	Q11-115	7500	A
14B425	Q11-116	10M*	A
14B426	Q13-116	10M	C
14B427	Q14-116	10M*	D
14A399	Q11-119	20M	A
14B431	Q16-119	20M*	Spec.
14B432	Q11-120	25M	A
14B433	Q14-120	25M*	D
14A398	Q11-121	30M	A
14B435	Q11-123	50M	A
14B436	Q13-123	50M	C
14B437	Q14-123	50M*	D
14B440	Q11-128	100M	A
14B441	Q13-128	100M	C
14B444	Q11-130	250M	A
14B445	Q13-130	250M	C
14B449	Q13-132	350M	C
14B451	Q11-133	500M	A
14B452	Q13-133	500M	C
14B454	Q14-133	500M	D
14B456	Q11-137	1 Meg.	A
14B457	Q13-137	1 Meg.	C
14A397	Q14-137	1 Meg.	D
14A396	Q11-138	1.5 Meg.	A
14A395	Q11-139	2 Meg.	A
14B463	Q13-139	2 Meg.	C
14A394	Q11-239	2.5 Meg.	A
14A393	Q11-140	3 Meg.	A
14B469	Q13-140	3 Meg.	C
14B470	Q11-141	5 Meg.	A
14B471	Q11-143	10 Meg.	A

*270-Ohm, 1/2-Watt Res. included.
YOUR CHOICE OF ABOVE. 73c
NET EACH..... 73c

TAPPED CONTROLS LESS SWITCH

Stock No.	IRC Type	Ohms Res.	Tap	Taper
14B446	Q13-130X	250M	125M	Sp.
14B448	Q18-130X	250M	60M	H
14A392	Q18-130XX	250M	60M	Sp.
	and 120M			Sp.
14A391	Q17-132X	350M	35M	Sp.
14B450	Q18-132X	350M	75M	H
14B453	Q13-133X	500M	125M	H
14A390	Q17-133X	500M	25M	Sp.
14B455	Q18-133X	500M	50M	Sp.
14A389	Q19-133X	500M	250M	Sp.
14A388	Q18-133XX	500M	100M	Sp.
	and 200M			Sp.
14B458	Q13-137X	1 Meg	250M	H
14B459	Q17-137X	1 Meg	35M	Sp.
14A387	Q17-137XX	1 Meg	50M	Sp.
	and 100M			Sp.
14B460	Q18-137X	1 Meg	100M	Sp.
14A386	Q18-137XX	1 Meg	250M	Sp.
	and 500M			Sp.
14B461	Q19-137X	1 Meg	500M	Sp.
14B462	QVC-539X	1 Meg	500M	Sp.
14B464	Q13-139	2 Meg	500M	H
14A385	Q13-139XX	2 Meg	500M	Sp.
	and 1 Meg			Sp.
14B465	Q17-139X	2 Meg	150M	Sp.
14B466	Q18-139X	2 Meg	1 Meg	Sp.
14B467	Q18-139XX	2 Meg	250M	Sp.
	and 500M			Sp.
14B468	Q19-139X	2 Meg	50M	Sp.

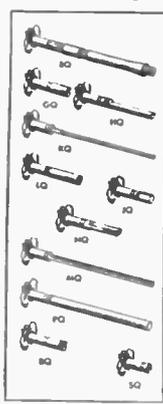
YOUR CHOICE OF ABOVE. \$1.09

NET EACH..... \$1.09

NEW IRC SWITCHES

Specially engineered for the Q controls. Bakelite base precision molded. Easily attached. One-piece silver plated terminal has elongated hole. Type 76-1 S.P.S.T. Switch. **35c**
 No. 14B506. EACH..... **35c**
 Type 76-2 D.P.S.T. Switch. **35c**
 No. 14B507. EACH..... **35c**

TYPE "Q" INTERCHANGEABLE FIXED SHAFTS

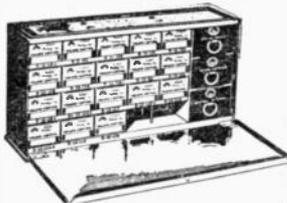


BQ. Slotted or tongued. Includes 7/16" and 1 5/8" guide and tongue 3 1/2" long, 1/4" dia. No. 14A384. Ea. **27c**
CQ. Slotted with hole in bottom. Slot 1/8x3/16", 1 1/16" long, 1/4" dia. No. 14A383. Each... **18c**
HQ. Flatted 3/16" deep. 3/64" deep groove 1 11/16" long, 1/4" dia. No. 14A382. Each... **18c**
JQ. 1/8" dia. with .105" flat, for inside of other control operation. 4 1/8" long. No. 14A381. Each... **27c**
KQ. Special 1/4" rd. with two concentric holes in end, 1 3/8" long. No. 14A380. Each... **18c**
LQ. Short flat with groove and threaded hole. 1/32" deep flat, 1/32" deep groove, 1" long, 1/4" diameter. No. 14A379. Each... **21c**
MQ. Double flat 3/8" thread on end. 2 concentric holes in end. 1 1/2" long. No. 14A378. Each... **27c**
NQ. Universal flatted and slotted shaft 4" long. No. 14A377. Each... **27c**
PQ. Universal full round. For 1/4" or 3/8" bushing. 3/8" bushing included. No. 14A376. Each... **21c**
RQ. Short screwdriver slot. 1/2" long, 1/4" dia. for 3/8" bushing. No. 14A375. Each... **21c**
SQ. Knurled and screwdriver slot. 1/4" diameter, 3/4" long. No. 14A374. Each... **18c**

EXPLANATION OF IRC VOLUME CONTROL TAPERS

"A": Uniform resistance change over entire range. "B": Semi-logarithmic curve used as tone control or audio circuit control. "C": Has logarithmic curve for audio or antenna shunt. "M": A tapped logarithmic curve used as audio level control for automatic bass compensation. "D": Tapered at both ends for grid bias and antenna control.

NEW "Q" TYPE VOLUME CONTROL CABINET



Perfect for the serviceman, 18 new type "Q" controls, switches and special shafts are in individual compartments for easy accessibility. Metal cabinet measures 4 1/2x7 3/8x1 1/2" with marked compartments plus three drawers for switches and small parts. Hinged door closes tightly to keep stock clean. You purchase only the controls and Cabinet is free.

No. 36A99.
NET EACH..... \$18.17

CENTRALAB CONTROL GUIDE

No. 14A294. NEW 11th Edition. Each... **10c**

LATEST IRC VOLUME CONTROL GUIDE

No. 16A172. Your Cost, Each... **25c**

RHEOSTATS, KITS

IRC ALL METAL RHEOSTATS

Unique, all-metal aluminum construction halves operating temperature. Rating based on dissipation of entire element. Spiral connector gives positive contact between



rotor arm and center terminal. Can be used as either a potentiometer or rheostat. Diameter, 1 21/32" for 25 watts and 2 3/8" for 50 watts. A dependable, long life unit.

Ohms	Stk. No.	Max MA	Net Price
PR-25 (25 Watts)			
6	19A174	2,040	\$3.06
10	19A175	1,580	3.06
25	19A176	1,000	3.06
50	19A177	709	3.06
100	19A178	500	3.06
250	19A179	315	3.06
500	19A180	222	3.06
1000	19A181	155	3.44
2500	19A182	100	3.44
5000	19A183	70	3.64
PR-50 (50 Watts)			
6	19A184	2,880	\$3.44
16	19A185	1,770	3.44
50	19A186	1,000	3.44
125	19A187	630	3.44
225	19A188	470	3.44
500	19A189	315	3.44
1000	19A190	223	3.64
2500	19A191	140	3.64
5000	19A192	100	3.82
10000	19A193	70	3.82

RESIST-O-KITS

ALL-METAL



FLAT POCKET SIZE KITS OF 1/2- OR 1-WATT. BT insulated resistors of most popular values. All steel cabinets 11/16x3 7/8x6 5/8". Ten compartments with snap on lid.

IRC Resist-O-Kit No. 7 consisting of 45 BTs 1/2-watt Resistors in cabinet. No. 14A373.
YOUR COST..... \$4.41

IRC Resist-O-Kit No. 8 consisting of 30 BTA 1-watt Resistors in cabinet. No. 14A372.
YOUR COST..... \$4.41

RESIST-O-CABINET



Three New IRC all steel Cabinets complete with resistors of most popular values. 4 drawers with non-spill feature, and cabinets designed for stacking. Cabinet size, 5 3/8x5 15/16x 10 7/8".

Resist-O-Cabinet No. 4 consisting of 100 BW 1/2 and BT 1/2 Resistors in cabinet. No. 33A112. **YOUR COST \$9.80**

Resist-O-Cabinet No. 5 consisting of 83 BW-1 and BTA Resistors in cabinet. No. 33A113. **Your Cost \$12.20**

Resist-O-Cabinet No. 6 consisting of 91 insulated resistors and close tolerance Precisors (1% precision resistors). 44 1/2-watt, 35 1-watt, 7 2-watt, and 1 each 1M, 10M, .1 Meg., 1 Meg. and 5 Megohm 1% DCF Precisors. No. 33A114. **Your Cost \$14.65**

IF Transformers — Antenna and RF Coils — Wave Traps

UNIVERSAL ADJUSTABLE COILS



Permit EXACT duplication of defective R.F., Ant., or Osc. coils in the broadcast or short wave band of ANY receiver! Inductance variable over wide range for "tracking" — screw driver adjustment for exact matching of inductance of old coil. B. C. Osc. Coils adjustable for I.F. frequencies from 175 to 520 K.C. may be used in either "cut plate" tuning condenser, or padded circuits. S.W. osc. coil for 292 mmf. condenser. Shields $1\frac{3}{4}$ " square x $2\frac{1}{2}$ "

BROADCAST UNSHIELDED			
Antenna	Stk. No.	Meis. No.	Price
16A230	14-1026		\$1.03
R.F. Coil	16A232	14-1027	1.03
Osc. Coil	16A231	14-1028	1.03
BROADCAST SHIELDED			
Antenna	16A227	14-7413	1.65
R.F. Coil	16A229	14-7558	1.65
Osc. Coil	16A228	14-7560	1.65
1.7-5.3 MC UNSHIELDED			
Antenna	17A1128	14-1041	1.03
R.F. Coil	17A1129	14-1042	1.03
Osc. Coil	17A1130	14-1043	1.03
5.3-16.5 MC UNSHIELDED			
Antenna	17A1131	14-1044	1.03
R.F. Coil	17A1132	14-1045	1.03
Osc. Coil	17A1133	14-1046	1.03

Economy Adjustable Coils
Inductance is adjustable by means of a Hi Q powdered iron core. Ant. and RF coils have high impedance primaries and litz wire secondaries. BC oscillator is of the two winding type; SW oscillator coils are tapped for 6SA7 type tubes. BC coils 7/16x2", SW coils 7/16x1 3/8". Not shielded.

BROADCAST BAND COILS			
Stock No.	Meis. No.	ANT.	PRICE
17A1169	14-1056		85c
17A1170	14-1057	R.F.	85c
17A1171	14-1058	OSC.	85c
1.7-5.3 MC S.W. COILS			
17A1172	14-1061	ANT.	79c
17A1173	14-1062	R.F.	79c
17A1174	14-1063	OSC.	79c
5.3-16.5 MC S.W. COILS			
17A1175	14-1064	ANT.	79c
17A1176	14-1065	R.F.	79c
17A1177	14-1066	OSC.	79c

UNIVERSAL TYPE Oscillator Coil 456 KC. Can be used with 25 different type tubes. Type 14-1060. No. 17A1178. EACH \$1.03



PHONO-OSC. COIL
For easy building of EITHER "Wireless" or "Direct Connected" Phono. Osc. unit for record playing through radio sets. Compact coil (1 3/8" sq. and 3 1/2" high). Installs in either radio or record player. Knob adjusts for clear frequency in B.C. band. With Instructions. 16A217. Type 17-9373... \$1.65

B.F.O. Coil

For use with standard I.F.'s in supers. Supplies the "beat" note necessary to reception of CW., aids in tuning and locating weak stations. Mica trimmed. Freq. Range 290-650 KC. Peaked at 456 KC. In 1 3/8" sq. x 3 1/2" can with knob for pitch control. 16A218. Type 17-6753. \$1.44 Each

Broadcast Wave Traps



For elimination of interference caused by strong broadcast stations. Fully shielded and moisture protected. Has brackets for mounting and instructions for either rejector or by-pass arrangement. Size 1 3/8" square, 1 7/8" high.

Stock No.	Type	Frequency Range	Price Each
17A1166	15-8479	400-700 KC	88c
17A1167	15-8480	650-1000 KC	88c
17A1168	15-8481	950-1600 KC	88c

MEISSNER IF TRANSFORMERS



Standard



Plastic



Midget



Cartwheel



FM

STANDARD AIR CORE I.F.'s

Popular for general replacement needs. All are double-tuned with ceramic base mica-dielectric trimmers. Windings of high grade Litz wire are fully impregnated. Black crackle finish can 1 3/8" square, 3" high.

456 KC				175 KC			
Input	Stk. No.	Meis. No.	Net Ea.	Input	Stk. No.	Meis. No.	Net Ea.
16A211	16-5712		\$1.23	16A209	16-5700		\$1.23
Inter.	16A212	16-6133	1.23	Output	16A210	16-5702	1.23
Output	16A213	16-5714	1.23	Out CT.	17A1123	16-3731	1.23
Out CT.	17A1124	16-3736	1.23				

STANDARD "FERROCART" IRON CORE I.F.'s

HIGH "Q" Ferrocart powdered iron core provides increased selectivity and gain for many "commercial" receivers with only a single stage I.F. channel. Compact (only 1 3/8" square and 3" high); double tuned with ceramic base, mica-dielectric trimmers, with windings of impregnated Litz wire.

456 KC				175 KC			
Input	Stk. No.	Meis. No.	Net Ea.	Input	Stk. No.	Meis. No.	Net Ea.
16A198	16-5740		\$1.65	16A214	16-5728		\$1.65
Output	16A200	16-5742	1.65	Output	16A216	16-5730	1.65

PLASTIC BASE AIR CORE I.F.'s

Minimum space with maximum performance! Only 1 1/4" square and 2 1/2" high—1-piece molded plastic trimmer base and coil form. Universal type windings of LITZ WIRE. Wide, stable, frequency range—double tuned—immune to temperature, vibration, or humidity effects.

456 KC				175 KC			
Input	Stk. No.	Meis. No.	Net Ea.	Input	Stk. No.	Meis. No.	Net Ea.
16A204	16-6658		\$0.82	16A201	16-6649		\$0.82
Inter.	16A205	16-6659	.82	Inter.	16A202	16-6650	.82
Output	16A206	16-6660	.82	Output	16A203	16-6651	.82

SMALL "PLASTIC" AIR CORE I.F.'s—456 K.C.

Similar to larger type above. Shield size 1 1/8" square, 2 1/2" high.

456 K.C.				456 K.C.			
Input	Stk. No.	Meis. No.	Net Ea.	Input	Stk. No.	Meis. No.	Net Ea.
17A1125	16-6666		\$0.82	17A1126	16-6667		\$0.82

PLASTIC BASE "FERROCART" IRON CORE I.F.'s—456 K.C.

IRON CORE with unusually HIGH GAIN and superior selectivity curves for improving performance of compact and auto sets having only a single I.F. stage. Not recommended for 2-stage systems. Size 1 1/4" square, 2 1/2" high.

Input	Stk. No.	Meis. No.	Net Ea.	Output	Stk. No.	Meis. No.	Net Ea.
16A207	16-6662		\$1.23	16A208	16-6663		\$1.23

"TWEET" FILTER OUTPUT I.F.—456 K.C.

For replacement in late model receivers that have a "tweet" filter enclosed in I.F. shield. "Plastic" air core construction. Shield 1 1/4" square, 2 1/2" high. No. 17A1127. Type 16-6670. Price..... \$1.32

MIDGET IRON CORE I.F.'s—456 K.C.

The same as used in the popular "Carry" type sets and compact AC-DC models. "Battery" types are high gain. "AC-DC" type is designed for use as input or output. With Hi Q powdered iron cores and compression type trimmers. Shield 3/4" square, 2" long.

Stk. No.	Meis. No.	Type	Price	Stk. No.	Meis. No.	Type	Price
17A1179	16-6668	Bat. Input	\$1.03	17A1181	16-6678	AC-DC	
17A1180	16-6669	Bat. Output	1.03			Universal	\$1.03

"CARTWHEEL" I.F.—456 K.C.

1-piece, molded plastic trimmer base, 456 KC dual trimmer unit only 1 3/8 x 1 1/32 x 1 1/4" high. Output or Input I.F. replacement for AC-DC sets. No. 16A233. Type 16-6661. Price each..... \$0.82

F.M. I.F. TRANSFORMER

Permeability tuned to 10.7 MC. Shield size 1 7/16 x 7/8 x 1 29/32" high. No. 17A1139. Type 16-6665. Price each..... \$1.73

DISCRIMINATOR COIL

Mounted in same size can as I.F. above. Permeability tuned to 10.7 MC. No. 17A1140. Type 17-3484. Price each..... \$2.29

AM-FM I.F. TRANSFORMER

Composite 456 KC AM and 10.7 MC FM input or output. Each circuit tuned by a separate Hi Q powdered iron core. Can size 1 3/8" square, 2 1/2" high. No. 17B1144. Type 16-6675. Price each..... \$2.35

FM RATIO DETECTOR COIL

Companion to No. 17B1144 or may be used with straight 10.7 MC I. F. transformer to make popular "FM" converters. Iron core tuning. Shield size 1 3/8" square, 2 1/2" high. No. 17B1145. Type 17-3487. Price each..... \$2.26

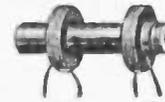
455 KC N.B. FM DISCRIMINATOR COIL

For use in adapters for converting regular communications receivers with 455 KC I.F. systems for reception of NBFM on amateur bands or for use in construction of complete FM receivers for ham use. Shield size 1 3/8" square, 2 1/2" high. No. 17A1165. Type 17-3486. Price each..... \$1.91

REPLACEMENT I.F. WINDINGS

For repairing "midget" receivers. 3/8" diameter x 1 3/4" long; wound on wood dowels—coupling adjusted by sliding primary coil. "Standard" types for input, inter-stage, or output; center tapped for full wave diode circuits.

No. 16A237—456 KC Standard Type	16-6601.	Net each.....	50c
No. 16A239—456 KC Center Tapped Type	16-6603.	Net each.....	65c
No. 16A236—175 KC Standard Type	16-6600.	Net each.....	50c
No. 16A238—175 KC Center Tapped Type	16-6602.	Net each.....	65c



STANDARD OSCILLATOR COILS

High quality broadcast band oscillator coils requiring 365 mmfd. condenser. Range, 545 to 1580 KC. Mounted on bakelite base and thoroughly impregnated. Shielded types are 1 1/2" dia., 1 3/4" high. Black crackle finish.



BROADCAST UNSHIELDED

IF Freq.	Stk. No.	Meis. No.	Price
175KC	17A1134	14-3732	\$0.62
456KC	16A225	14-4034	.62

BROADCAST SHIELDED

IF Freq.	Stk. No.	Meis. No.	Price
175KC	17A1135	14-4242	.79
456KC	16A226	14-4243	.79

6SA7 OSCILLATOR COILS

High quality, broadcast band, unshielded. No. 16A215. Type 14-1033. Tapped, for use with 420 mmfd. condenser and padder. EACH..... 50c No. 17A1182. Type 14-1053. For use with 162 mmfd. "Cut" section condenser. EACH..... 50c

UNIVERSAL OSCILLATOR COIL

Unshielded, for general replacement in sets using 456 KC IF. Will work with almost any tube. Stock No. 17A1136. Type 14-1040. Price Each..... \$1.18

Standard Ant. & R.F. Coils

Air-core, designed to cover broadcast band with a 365 mmfd. tuning condenser. Have high impedance primaries wound with Litz wire. Impregnated against moisture. Shielded type in non-magnetic cans 1 3/8" dia. x 2 1/4" high.



BROADCAST UNSHIELDED

Antenna	Stk. No.	Meis. No.	Price
16A221	14-1010		\$0.56
R.F. Coil	16A223	14-1011	.58

BROADCAST SHIELDED

Antenna	Stk. No.	Meis. No.	Price
16A222	14-1004		.73
R.F. Coil	16A224	14-1005	.73

Midget Ant. & R.F. Coils

Super quality shielded semi-compact broadcast band coils requiring 365 mmfd. tuning condenser. Litz wire secondaries, high impedance primaries thoroughly impregnated. Black crackle finished shield, 1 3/8" square, 2" high.



BROADCAST UNSHIELDED

Antenna	Stk. No.	Meis. No.	Price
17A1137	14-2436		\$0.73
R.F. Coil	17A1138	14-2437	.73

COMPACT UNSHIELDED BROADCAST COILS (1 3/4 x 7/8")

Antenna	Stk. No.	Meis. No.	Price
17A1163	14-1022		50c
RF Coil	17A1164	14-1023	50c

Aircraft Band Coils

Compact impregnated coils that will cover 195 to 410 KC with 365 mmfd. condenser. Ant. coil works with loop or straight wire antenna. Osc. coil requires 325-100 mmfd. padder. Shield size 1 3/8" dia., 1 3/4" high, black crackle finish.



BROADCAST UNSHIELDED

Ant. Coil	Stk. No.	Meis. No.	Price
17A1141	14-1030		\$2.26
Mixer	17A1142	14-1031	2.26
Osc. Coil	17A1143	14-1032	1.65

Dowel Type Primary

To replace burned out primaries in high impedance antenna coils. Universal wound on 1/2" dia. x 1 1/2" long dowels, moisture protected. Inductance 1700 uh. Type 14-6865. 16A234. Each..... 24c



Slip-Over Primaries

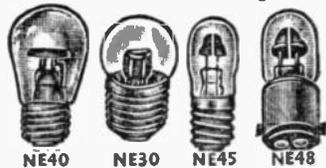
Easy and economical replacement for burned-out primaries on all types of R.F. and antenna coils. High impedance windings. *Sizes below are for outside dia. of old coil.



Stk. No.	Meis. No.	*O.D.	Net Ea.
16A240	14-6850	1/4	\$2.24
16A241	14-6852	1	.21
16A242	14-6854	3/8	.21
16A243	14-6856	3/4	.21
16A244	14-8418	1/2	.18

Fuses, Neon and Pilot Lamps • Indicators

G-E Neon Lamps



For 105-125 volt AC-DC. All are clear glass.

With Standard Screw Base
 No. Type Watts Each 10 @ Ea.
 16A141 NE40 3 **59c** **54c**
 16A142 NE34 2 **49c** **45c**
 16A143 NE30 1 **39c** **36c**

With Candelabra Screw Base
 16A145 NE45 1/4 **39c** **38c**

Double Contact Candelabra Bay. Base
 Resistorless Type
 16A146 NE36 2 **54c** **49c**
 16A147 NE32 1 **45c** **40c**
 16A148 NE48 1/4 **45c** **40c**

With Miniature Bayonet Base
 Requires 200,000 ohm resistor for 110-volt operation.
 16B170 NE51 1/25 **10c** **9c**

NE15 1/25-Watt Neon

Only 1/8" long x 1/4". Starting voltage 90-volt DC or 65-volt AC at .3 ma. Requires series resistor, .2 meg. for 105/125-volt, .5 meg. for 210 to 250-volt. Single contact miniature bayonet base. No. 16A149. **10c** for **80c** Each.

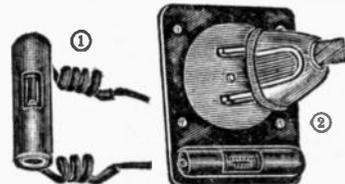
NE20 Neon Bulb

Identical to above, except starting voltage 80-volt DC. No. 16B87. Per Pkg. of 10. **69c**

NEON PANEL ASSEMBLIES

Fully enclosed for use on 110-220 volts. Built-in resistor for NE51 neon lamp. Visible from all angles. Extends 1 3/8" behind and 1/2" in front of panel. Requires 11/16" hole for mounting. Specify color: Red, Amber, or Clear. No. 12A666. Less NE51. **69c** Net Each.

NEON PILOT LAMPS



① Operates on 75 to 250 volts AC or DC. Polished chrome. 1 7/16" long, 7/16" wide, 3/8" deep. Mounts flush on panel with top 3/8" long studs, with 10,000 hour 1/10-watt neon lamp. **50c** No. 20A125. Net Each.

② Slips on the prongs of any standard plug. Serves as a constant reminder to disconnect your soldering iron or other apparatus when not in use. For 110-220 volt AC-DC. **40c** No. 20A126. Net Each.

SCREW BASE TYPE SOCKETS

16A176. Bakelite Std. **14c**
 12A1168. Porcelain Cand. **8c**
 12A1169. Porcelain Min. **8c**

BAYONET SOCKETS

Double contact, bayonet metal shell socket for 2-contact bayonet neon lamps above. **44c** 12A1170. Each.

Double Contact Socket

Candelabra receptacle for type 991 VR tube or neon lamps. Also fits standard auto lamps. No. 12A1421. Type 33991. Ea. **45c**

Type 8AG Littelfuses for Test Instruments

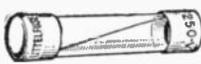


Designed especially for the protection of delicate test equipment, galvanometers, microameters, milliameters, volt meters, etc. Glass enclosed; 1x1/4" dia. accurately rated, high speed action, short time lag. Voltage rating up to 250 AC or DC.

Amps Current Rating	Aver. Resist. 5 M.A. Load	Stock No.	Net Each	100 For	Used to Protect		
					Ohms Per Volt	All Magnetic Types	Thermo Couples Types
1/200	500	12A1100	18¢	\$14.70	over 1000	Galv.	0- 5
1/100	110	12A1101	12¢	9.80	1000	Up to 0-	1 0- 10
1/32	20	12A1102	12¢	9.80	500-1000	0- 10	0- 25
1/16	5.0	12A1103	9¢	7.35	100-500	0- 25	0- 60
1/8	3.0	12A1105	9¢	7.35	.....	0- 75	0- 115
1/4	6.2	12A1106	8¢	6.86	10-20	0- 150	0- 200
3/8	3.0	12A1107	8¢	6.86	5-10	0- 250	0- 300
1/2	2.5	12A1108	8¢	6.86	3-5	0- 350	0- 400
3/4	.40	12A1109	8¢	6.86	.....	0- 500	0- 600
1	.24	12A1110	6¢	4.90	.....	0- 750	0-1000
1 1/2	.18	12A1111	6¢	4.90	.....	0-1000	0-1500
2	.14	12A1112	6¢	4.90	.....	0-1500	0-2000

Auto and Radio Fuses

Type 3AG 1 1/4" long, 1/4" diam.



FOR UP TO 250 VOLTS

Stock No.	Amps. Rating	Box of 5	Box of 100
15A1083	1/16	\$5.55	\$8.82
15A1084	1/8	.47	7.35
12A1113	1/4	.47	7.35
15A1086	3/8	.47	7.35
12A1114	1/2	.44	7.35
12A1115	3/4	.44	7.35
12A1116	1	.21	3.43
12A1117	1 1/2	.21	3.43
12A1118	2	.21	3.43
12A1119	2 1/2	.21	3.43
12A1120	3	.21	3.43
15A1087	4	.29	4.90
15A1088	5	.29	4.90
15A1089	6	.29	4.90
15A1090	8	.59	9.80

FOR UP TO 32 VOLTS

Stock No.	Amps. Rating	Box of 5	Box of 100
12A1121	5	.15	2.45
12A1122	6	.15	2.45
12A1123	10	.12	1.96
12A1124	15	.12	1.96
12A1126	25	.15	2.45
12A1127	30	.15	2.45

TYPE SFE AUTO FUSES

Stock No.	Lgth. Ins.	Amps. Rating	Box of 5	Box of 100
15A1091	3/8	4	\$1.15	\$2.45
15A1092	3/4	6	.15	2.45
15A1093	7/8	9	.12	1.96
12A1128	1 1/16	14	.12	1.96
12A1125	1 1/4	20	.12	1.72
15A1094	1 7/16	30	.18	2.94

Panel Lamp Assemblies



① **DRAKE TYPE 50**
 Horizontal dressed up design. For panels up to 1/4". Extends only 1 1/8" back of panel. Bulbs removable from front. Mounts in 11/16" hole. Specify Red, Green, Amber.
 12A1162. Min. Screw Socket... **41c**
 12A1163. Min. Bayonet Socket... **41c**

② **110-VOLT GIANT PANEL LIGHT**
 All-purpose light with 1" frosted pearl glass jewel. Chrome finished "slip fit" bezel holds color disc behind jewel. Color shows when light is on. Mounts in panel up to 1/2" thick. Available in Red, Green and Amber. STATE COLOR DESIRED.
 12A1164. Uses S6 Base Bulb... **76c**

③ **110-VOLT ENCLOSED PILOT LIGHT**
 Underwriter's approved, single unit socket assembly unaffected by heat. All porcelain and brass construction. Requires single 1" hole for mounting. Faceted jewel in choice of Red or Green. Uses S6 candelabra base bulb.
 12A1165. Net Each... **94c**

Fuse Mountings



(1) Use where connections are above chassis or panel.
 12A1129. For 8AG, 1" fuse. Each **9c**
 12A1130. For 3AG 1 1/4" fuse. Ea. **9c**

(2) For below panel connection.
 12A1131. For 8AG 1" fuse. Ea. **15c**
 12A1132. For 3AG 1 1/4" fu. Ea. **15c**

(3) Mounts directly on meter terminal. Will not touch other posts.
 12A1133. For 8AG 1" fuses only. Each **12c**

(4) Spring clips for any length 1/4" diameter fuse.
 12A1134. 12 to pkg. **18c**
 100 for **\$1.20**

Handy Fuse Retainers



2 piece metal outer shell with fibre inside insulation. 2 1/2"x3/4" standard for 3AG, SFE14, SFE20 and similar tubular fuses.
 12A1135. Ea. **9c**; 10 @ **8c**
 2 1/2"x1/2", jumbo for 3AG, 4AG, SFE14, SFE20, SFE30, etc.
 12A1136. Ea. **17c**; 10 @ **16c**

Extractor Fuse Post

All bakelite. Mounts in 5/8" hole on panel or chassis up to 1/4" thick. Recessed extractor knob easily removed with screwdriver or coin. Underwriters approved.
 12A1137. For 8AG 1" fuses... **27c**
 12A1138. For 3AG 1 1/4" fuses... **27c**

Jeweled Pilot Brackets



① Well made with 1/2" faceted glass jewels. Mount in 7/16" hole. Specify color wanted. Red, Green, Amber.
 12A1156. Min. Screw Socket... **19c**
 12A1157. Min. Bayonet Socket... **19c**

② For 110-Volt, Type S6 Lamp
 3/4" jewel in bracket like above. Mounts in 11/16" hole. Candelabra socket. Specify Red, Green, Amber.
 12A1158. Net Each... **42c**

③ **PILOT LIGHT JEWEL**
 1/2" jewel on threaded shank with mounting nut. Requires 7/16" holes in panel. Red, Green, Amber.
 12A1159. Choice Each... **13c**

④ **FRONT REMOVABLE JEWEL**
 Mounts in 11/16" hole. 1/2" faceted jewel, bulb removable from front. Red, Green, Amber.
 12A1160. Min. Screw Socket... **29c**
 12A1161. Min. Bayonet Socket... **29c**



EVEREADY
 Genuine General Electric Panel Bulbs

(A) Tubular—Min. Screw Base
 Cat. Mazda No. No. Volts Amps Each for 10
 16A151 41 2.5 0.50 **\$1.10** **\$1.86**
 16A152 42 3.2 0.35 **.12** **.80**
 16A153 40 6.3 0.15 **.10** **.66**
 16A155 46 6.3 0.25 **.10** **.66**
 16A156 48 2. 0.06 **.15** **.99**
 16A157 292 2.9 .17 **.13** **.86**

(B) Tubular—Min. Bayonet Base
 16A158 43 2.5 0.65 **.10** **.66**
 16A159 44 6.3 0.25 **.10** **.66**
 16A154 45 3.2 0.35 **.12** **.80**
 16A160 49 2. 0.06 **.15** **.99**
 16A161 47 6.3 0.15 **.10** **.66**
 16A162 291 2.9 .17 **.13** **.86**
 16A584 1490 3.2 0.16 **.11** **.73**

(C) Round—Min. Screw Base
 16A165 50 6.8 0.50 **.10** **.66**

(D) Round—Min. Bayonet Base
 16A166 51 6.8 I.C.P. **.08** **.52**
 16A167 55 6.8 2.C.P. **.08** **.52**

Types 292 and 291 are primarily designed for pin ball machines.

E.R. Flashlight Bulbs

Round with miniature screw base like "C" illustrated above with exception of No. 222, which is a pre-focused bulb for pen type flashlights and the PR types, which are pre-focused min. flange type.

Stock No.	Mazda No.	No. Volts	Amps	Each	for 10
16A460	112	1.1	0.22	\$1.10	\$6.66
16A171	222	2.2	0.25	.10	.66
16A462	233	2.3	0.27	.10	.66
16A163	14	2.5	0.30	.10	.66
16A463	263X	2.6	0.30	.11	.73
16A164	13	3.8	0.30	.10	.66
16A464	605	6.0	0.50	.11	.73
16A465	PR2	2.4	0.50	.14	.93
16A466	PR3	3.6	0.50	.14	.93
16A467	PR6	2.5	0.30	.14	.93

Note: 10% OFF from above 10 Lot prices by buying 100 or more of a type either Pilot or Flashlight bulbs.

S6 Candelabra Base

110-120 V. Bulb
 6 watts, clear glass, candelabra base. For indicator and other needs.
 16A168. **10c** for **16c** Lots

PILOT LAMP SOCKETS

Up clips or brackets are as most illustrations show. Down types are in reverse brackets extends below reept.

Min. Screw Base Type
 (3) Clip Brackets
 12A1142. Clip up.
 12A1143. Clip down.
 (4) Adjustable bracket.
 12A1144. Up type.
 12A1145. Down type.

(5) Unmounted. Use rubber grommet as holder.
 12A1146. Min. screw.
 12A1147. Min. bayonet.
 Choice of any of above, Each **8c**, 10 for **.70c**

Min. Bayonet Base
 (8) 12A1150. Bracket up.
 12A1151. Bracket down.
 Each **10c**, 10 for **90c**
 (9) 12A1152. Clip up.
 12A1153. Clip down.
 Each **10c**, 10 for **90c**

For Candelabra 110 V. S6 Screw Base Bulbs
 (10) 12A1154. Brket. up.
 Each **10c**, 10 for **90c**
 12A1155. Bracket down.

Sockets * PLUGS * Fittings

MINIATURE TUBE SOCKETS and SHIELDS



(A) Bottom Mount—No Shield Base
(B) Top Mount—With Shield Base
(C) Mica-Filled
(D) Steatite
(E) Mica-Filled

BAKELITE — STEATITE SOCKETS
Seven pin types mount in 3/8" hole; mounting centers 7/8"; screw holes 1/8". Nine pin types mount in 3/4" hole; mounting centers 1 1/8"; screw holes .095".

(A) Bottom Mount—No Shield Base
Stk. No. Pins Dielectric Net Ea.
17A768 7 Black Bakelite 14c
17A769 7 Steatite 30c
17A770 9 Black Bakelite 22c
17A771 9 Mica-Filled 24c

(B) Top Mount—With Shield Base
17A772 7 Black Bakelite 23c
17A773 7 Mica-Filled 24c
17A774 7 Steatite 37c
17A775 9 Black Bakelite 33c
17A776 9 Mica-Filled 34c

ZIP-IN ETHYLON-A SOCKETS
Molded of high dielectric material. Seven pin types mount in 27/32" hole; nine pin, in 15/16" hole. Mounting plate holes, .136" dia. on 1 5/16" centers. Fig. C without tube shield base; Fig. D with tube shield base.
7 Pin. Without tube shield base. (No. 17A777. Each.....13c
7 Pin. With tube shield base. No. 17A778. Each.....16c
9 Pin. Without tube shield base. No. 17A1061. Each.....30c
9 Pin. With tube shield base. No. 17A1062. Each.....36c

(E) Shields and Springs
To be used with bakelite, steatite and zip-in miniature sockets equipped with tube shield base. Fits types B and D above.
1 3/8" high. Fits 7 pin sockets. No. 17A779. Each.....8c
1 3/4" high. Fits 7 pin sockets. No. 17A780. Each.....8c
1 1/2" high. Fits 9 pin sockets. No. 17A1065. Each.....12c
1 15/16" high. Fits 9 pin sockets. No. 17A1064. Each.....14c
2 3/8" high. Fits 9 pin sockets. No. 17A1063. Each.....14c

MINIATURE SOCKETS AND PLUGS



RETAINER RING MOUNTED
Mount in 5/8" dia. hole with push-on ring. Male plugs can be chassis mounted or attached to cable and will mate with corresponding miniature socket or Fig. C and D shielded female plugs listed page 58. 5 and 6 hole sockets also fit amphenol miniature coil forms. 7 hole sockets fit standard 7 pin miniature tubes. Black Bakelite unless otherwise noted.

FIG. A SOCKETS

Stk. No.	Description	Net Ea.
12A140	3 hole	10c
12A141	4 hole	10c
12A125	5 hole	12c
19A131	5 hole (mica filled)	16c
12A118	6 hole	13c
19A132	6 hole (mica filled)	16c
12A123	7 hole	12c
17A783	7 hole (mica filled)	17c
12A127	7 hole (polystyrene)	25c

FIG. B PLUGS

Stk. No.	Description	Net Ea.
12A138	3-prong	10c
12A139	4-prong	10c
17A781	5-prong	12c
17A782	6-prong	12c

BULB TESTER SOCKET
"S" type combination large and small seven-prong socket with center receptacle for testing screw or bayonet miniature lamps. Mounts in 1 21/64" hole with retainer ring. No. 12A136. Net Each.....31c



"MIP" SOCKETS
Mounting plate permanently molded in body of high dielectric black bakelite. Mounts in 1 5/32" dia. hole. Plate has 5/32" holes on 1 1/2" centers. 12A97 and 12A1523 mount in 1 9/32" diameter hole.

Contacts Stk. No.

4	12A93	Choice, Net Each ... 7c
5	12A94	
6	12A95	
7 Small	12A96	Choice, Net Each ... 8c
7 Large	12A97	
8 Octal	12A98	
9	12A1440	11c
11	12A1441	14c
12	12A1442	18c
20	12A1523	36c

Polystyrene UHF Sockets

Octal	12A102	28c
Loctal	12A103	32c

Midget MIP Sockets
Identical to MIP sockets above except more compact (1 15/16" mounting centers) mount in 1 1/8" hole.
Octal 12A100.....8c
Loctal 12A101.....12c

"RS" BAKELITE SOCKETS
High dielectric black bakelite body assembled with retainer ring to steel mounting plate with slotted holes to fit mounting centers 1 1/2" to 1 3/8". Mounts with plate in 1 1/4" dia. hole, or without plate using retainer ring only in 1 11/64" dia. hole. Numbers 12A108, 12A109 and 12A116 mount with plate in 1 3/8" hole or with retainer in 1 21/64" hole.

Contacts Stk. No.

4	12A104	Choice, Net Each ... 8c
5	12A105	
6	12A106	
7 Small	12A107	Choice, Net Each ... 11c
7 Large	12A108	
7 Comb.	12A109	
8 Octal	12A110	11c
8 Loctal	12A111	13c

"RSS" STEATITE SOCKETS
Identical to "RS" Bakelite type above except all steatite body.

Contacts Stk. No.

4	12A112	Choice, Net Each ... 28c
5	12A113	
6	12A114	
7 Small	12A115	Choice, Net Each ... 36c
7 Large	12A116	
8 Octal	12A117		28c

Shielded Cable Connectors



Type PF-PM, made of "S" sockets and "CP" plugs snugly covered by a steel cap 1" in height. A rubber grommet protects cable from abrasion. Small, sturdy, easy to take apart for assembly. Accommodates cables up to 7/16" diameter. Black japanned.

Contacts Male Female Net Ea.

4	12A72	12A80	19c
5	12A73	12A81	19c
6	12A74	12A82	19c
7 Small	12A75	12A83	19c
7 Large	12A76	12A84	19c
8	12A77	12A85	21c
9	12A78	12A86	23c
11	12A79	12A87	28c
20	17A784		53c

*Shielded female type not available. Male plug fits 12A1523 socket above.

SPEAKER PLUGS FOR STANDARD SOCKETS

No. Prongs Each

12A128	4	8c
12A129	5	
12A130	6	
12A131	7	

"S" SOCKETS
High dielectric black bakelite bodies with retainer ring for mounting in material from 19 ga. (.044") to 16 ga. (.062"). All require 1 11/64" dia. hole and fit mounting plates and above and below surface mountings listed at right except 7 large and 7 comb. which mount in 1 21/64" hole.

Contacts Stk. No.

4	12A48	Choice, Net Each ... 8c
5	12A49	
6	12A50	
7 Small	12A51	Choice, Net Each ... 10c
7 Large	12A52	
7 Comb.	12A53	
8 Octal	12A54	10c
8 Loctal	12A55	12c
9	12A56	12c
11	12A57	17c

ADAPTER SOCKETS FOR MINIATURE TUBES

(Not illustrated) "S" type bakelite bodies with retainer. Useful for modernizing tube checkers and analyzers having "blanks" for standard size sockets. Mounts in 1 11/64" diameter hole.

Contacts Stock No. Net Each . 18c

7	16A776	27c
9	16A777	

"CP" PLUGS

Same specifications and mounting sizes as "S" sockets above.

Contacts Stk. No.

4	12A58	Choice, Net Each ... 8c
5	12A59	
6	12A60	
7 Small	12A61	Choice, Net Each ... 10c
7 Large	12A62	
8 Octal	12A63	
9	12A64	12c
11	12A65	17c

AC PLUG

Molded of high dielectric black bakelite. Mount with retainer ring in material from 19 ga. (.044") to 16 ga. (.062") and fit mounting plates and above and below surface mountings listed at right. Require 1 11/64" dia. hole. Rated 15 amp. 110-volt or 10 amp. 250-volt. Screw terminals.

No. 12A121. Net Each.....18c

AC RECEPTACLE

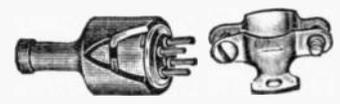
Fits standard male AC plugs. Has same specifications as AC plug above.

No. 12A122. NET EACH.....18c

Shielded AC Connectors



Assembled from molded plugs above, encased in unbreakable metal shells fully shielded. Rubber grommet accommodates up to 7/16" cable.
No. 12A89. Plug, Each.....28c
No. 12A90. Receptacle, Each...28c



RUBBER HANDLE
For use with above shielded connectors. No. 12A88. Each.....11c

CABLE CLAMP. Replaces rubber grommet in shielded connectors above. Grips cord securely. No. 12A91. Each.....7c

Mountings for "S" Sockets, "CP" Plugs and AC Units



Accommodate all except 7 Large and 7 Comb. plugs and sockets.

(A) Steel Mounting Plate. Slotted mounting hole centers 1 1/2" to 1 3/4". No. 12A66. 10 For.....7c

(B) Above Surface Mount. Raises connector top 13/16" above surface. Reverses for sub-surface mount. Has 4 side knock outs. Dia. 1 3/4". No. 12A67. Net Each.....7c

(C) Below Surface Mount. Lowers connector bottom 1 3/16" below surface. Mounts in 1 7/16" hole. Has two 5/32" screw holes on 1 3/4" centers. No. 12A70. Net Each.....11c

ADAPTER SHELL (not illus.). Metal sleeve. Ends take "S" sockets or "CP" plugs except 7 Large and 7 Comb. Makes adapters as needed. No. 12A120. Net Each.....14c

Cathode Ray & Television Tube Connectors



(A) BAKELITE SOCKETS
Molded of high quality bakelite. With efficient creepage barriers and removable bakelite cap for shock hazard and wiring protection. Positioned for lead wire harness can be positioned in any of 6 locations.

Duodecal Socket. Amphenol Type 59-402. For 12 pins on circle dia. of 1.063". Fits 2BP, 5TP/UP, 10BP/EP, 12JP, 15AP and 20BP series tubes. No. 17A785. Net Each.....92c

Small Diheptal Socket. Amphenol Type 59-415. Fits 14-pin tubes with pin circle dia. 1.75" and tube base dia. 2.05". Fits 2P23 and 5655 type tubes. No. 17A786. Net Each.....98c

Medium Diheptal Socket. Amphenol Type 59-417. Fits 14-pin tubes with pin circle dia. 1.75" and tube base dia. 2.25". Fits 3AP/BP/JP/MP, 5CP/MP/RP/SP, 7GP/JP, 12CP and 5527 series tubes. No. 17A787. Net Each.....98c

(B) MAGNAL STEATITE SOCKET

Amphenol Type 49-SS11L. For 11-pin tubes with 1 1/16" dia. pin circle. Mounts in 1 5/8" hole with retainer ring. Fits 2AP, 3GP/KP, 5BP/HP/JP/LP and 7EP series tubes. No. 12A572. Net Each.....71c

(C) SECOND ANODE CONNECTOR

Silver plated snap button type plug well insulated by 1 1/2" dia. rubber protective cap. With 12" wire lead. No. 15A126. Net Each.....44c

(D) SECOND ANODE CONNECTOR

Cadmium plated brass contact surrounded by rubber insulator. Snaps over .096" dia. prong on side of most diheptal tubes. No. 15A125. Net Each.....79c

Cinch Miniature Sockets

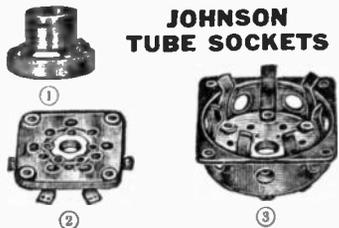


(A) Sub-Miniature. For hearing aid type tubes. Molded mica-filled bakelite with silver plated beryllium copper contacts. 4-prong tubes will fit 5-prong socket. No. 17A1056. 5-prong. Net Each.22c
No. 17A1057. 6-prong. Net Each.23c
No. 17A1058. 7-prong. Net Each.24c

(B) 7-Prong Miniature. For mounting through bottom of chassis in 3/4" dia. hole. Mounting centers 1 1/8". Fits standard miniature tubes. Molded black low-loss bakelite. No. 17A1060. Net Each.....13c

(C) 7-Prong Miniature. Same as Fig. B except top mounting. No. 15A129. Net Each.....13c

JONES Plugs* TUBE SOCKETS and SHIELDS



JOHNSON TUBE SOCKETS

① BAYONET SOCKETS

Clear white glazed porcelain base, with heavy phosphor bronze side wiping contacts, and screw and solder lug terminals.

Type 123-209 4 prong "UX" base, for 866 and other trans. tubes. Shell and contacts well spaced. **88c**
No. 12A174. Net Each.....

Type 123-211 Standard "50 watt" socket for "Jumbo 4 pin" tubes, 203A, 211, 805, 810, 872, 250-450 TH/TL, HK 354, etc. **\$1.09**
No. 12A175. Net Each.....

Type 123-216 Giant 5 pin, for 803, RK28, etc. **\$1.76**
No. 17A1110. Net Each.....

② JUMBO WAFERS

Stearite construction. Contacts are brass with steel reinforcing springs. Type 122-244 Super Jumbo 4 pin, for 800B, 5C22 Tubes, etc. **\$1.18**
No. 17A1111. Net Each.....

Type 122-275 Giant 5 pin, for 4-125A, 4-250A, RK28, RK48, 803, etc. Adequate ventilation is provided by five 1/4" holes spaced between contacts. **\$1.03**
No. 12A571. Net Each.....

Type 122-237 Giant 7 pin, for 3D22, 4E27, 813, 8001, HK257, etc. **65c**
No. 12A173. Net Each.....

Type 122-247 Wafer 7 pin, for 4-65A, 829, 832 RK4D32, etc. Supplied with etched aluminum base shield. **74c**
No. 20A773. Net Each.....

Type 124-213 (not illus.). For 304TH, 304TL and 152TL. Contacts arranged for series or parallel tilaments. No. 16A778. **\$1.18**
NET EACH.....

③ UHF SOCKET

Type 122-101 Wafer 7 pin with base shield. For UHF gear using 826, 829 or 832 tubes. Has silver plated contacts, isolated grid terminals and provisions for mounting button mica by-pass condensers. No. 20A774. Net Each. **\$1.76**

JOHNSON Miniature Sockets and Shields

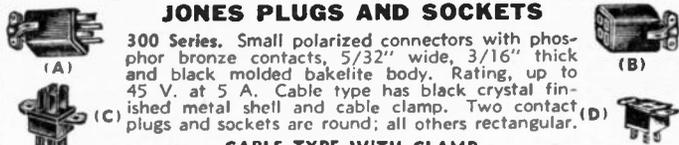


① Designed for use with the 9000 series and miniature series tubes, including 154, 155, 1T4, etc. Contacts are Phosphor Bronze, heavily silver plated and are self-aligning. Designed to permit a minimum amount of capacity between contacts. Ceramic low-loss construction. Type 267. No. 12A566. Net Each..... **29c**

② 277B — Stearite base with metal ring, ring extending upward to form a shield. No. 12A567. Net Each..... **44c**

③ 2775 — Miniature socket shield base only. No. 12A568. Net Each..... **9c**

④ Shield for 277B or 2775. No. 12A569. 1 3/8" Shield. No. 12A570. 1 3/4" Shield. CHOICE, Your Cost, Each..... **12c**



JONES PLUGS AND SOCKETS

300 Series. Small polarized connectors with phosphor bronze contacts, 5/32" wide, 3/16" thick and black molded bakelite body. Rating, up to 45 V. at 5 A. Cable type has black crystal finished metal shell and cable clamp. Two contact plugs and sockets are round; all others rectangular.

CABLE TYPE WITH CLAMP

Male (Fig. A)				Female (Fig. B)			
Contacts	Stk. No.	Jones No.	Price	Contacts	Stk. No.	Jones No.	Price
2	12A336	P302CCT	31c	2	12A343	S302CCT	32c
3	12A337	P303CCT	34c	3	12A344	S303CCT	34c
4	12A338	P304CCT	36c	4	12A345	S304CCT	37c
6	12A339	P306CCT	40c	6	12A346	S306CCT	42c
8	12A340	P308CCT	44c	8	12A347	S308CCT	49c
10	12A341	P310CCT	49c	10	12A348	S310CCT	55c
12	12A342	P312CCT	54c	12	12A349	S312CCT	62c

CHASSIS TYPE WITH ANGLE BRACKETS

Male (Fig. C)				Female (Fig. D)			
Contacts	Stk. No.	Jones No.	Price	Contacts	Stk. No.	Jones No.	Price
2	12A559	P302AB	14c	2	12A550	S302AB	15c
3	12A560	P303AB	17c	3	12A551	S303AB	18c
4	12A561	P304AB	19c	4	12A552	S304AB	20c
6	12A562	P306AB	23c	6	12A553	S306AB	25c
8	12A563	P308AB	26c	8	12A556	S308AB	30c
10	12A564	P310AB	30c	10	12A557	S310AB	36c
12	12A565	P312AB	34c	12	12A558	S312AB	42c

400 Series. Same general construction as "300 series" above, but heavier. Contacts are 1/4" wide, 1/16" thick. Two-contact type S402AB has mtg. plate instead of angle brackets. Rating up to 110 V. at 10 A.

CABLE TYPE WITH CLAMP

Male (Fig. A Above)				Female (Fig. B Above)			
Contacts	Stk. No.	Jones No.	Price	Contacts	Stk. No.	Jones No.	Price
2	19A107	P402CCT	52c	2	19A113	S402CCT	57c
4	19A108	P404CCT	64c	4	19A114	S404CCT	72c
6	19A109	P406CCT	74c	6	19A115	S406CCT	88c
8	19A110	P408CCT	88c	8	19A116	S408CCT	1.01
10	19A111	P410CCT	96c	10	19A117	S410CCT	1.16
12	19A112	P412CCT	1.08	12	19A118	S412CCT	1.30

CHASSIS TYPE WITH ANGLE BRACKETS

Male (Fig. C Above)				Female (Fig. D Above)			
Contacts	Stk. No.	Jones No.	Price	Contacts	Stk. No.	Jones No.	Price
2	19A119	P402AB	33c	2	19A125	S402AB	37c
4	19A120	P404AB	40c	4	19A126	S404AB	49c
6	19A121	P406AB	49c	6	19A127	S406AB	60c
8	19A122	P408AB	58c	8	19A128	S408AB	71c
10	19A123	P410AB	64c	10	19A129	S410AB	82c
12	19A124	P412AB	71c	12	19A130	S412AB	93c

FOR JONES BARRIER STRIPS, SEE PAGE 74

NATIONAL SOCKETS AND SHIELDS

FOR 7 and 9 PIN MINIATURES



Sockets molded of mica filled natural color bakelite with beryllium copper, silver plated contacts that correctly grip the tube pins close to the base of tube. Axial (XOA) and radial (XOR) contacts are interchangeable and can be used in combination on same socket for shortest leads or minimum size. Sockets can be used with or without shield. Shield base and top are nickel plated brass. Studs on base secure socket and base to chassis. Top locks on base holding tube in place with phosphor bronze spring. Type XOS-1 fits 6AK5, XOS-2 fits 6C4, XOS-3 fits OA2. Mtg. centers .875".

SOCKETS

7-PIN SOCKETS (MICA FILLED)
12A1422. Type XOA with axial contacts. Each..... **50c**
12A1423. Type XOR with radial contacts. Each..... **50c**

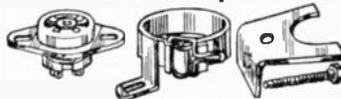
9-PIN SOCKETS (CERAMIC)
15A2058. Type XOA-C-9. Axial contacts. Mounting centers 1 1/8", chassis cutout 1 3/16". **57c**
NET EACH.....

15A2059. Type XOR-C-9. Radial contacts. Same mounting as above. **57c**
NET EACH.....

SHIELDS (Each with shield base)
12A1424. Type XOS-1, for tubes 1 3/16" high. Each..... **48c**
12A1425. Type XOS-2, for tubes 1 1/2" high. Each..... **48c**
12A1426. Type XOS-3, for tubes 2" high. Each..... **48c**

WE CAN SUPPLY ALL NATIONAL, MILLEN, AND JOHNSON SOCKETS, SHIELDS AND OTHER PRODUCTS.

Millen Tube Sockets and Clamps



(A) With steatite body of deep construction for long flash-over path to chassis and steatite barriers between contacts. Metal mtg. ring is removable.

Stk. No.	Prongs	Millen No.	Net Ea.
12A1412	4	33004	30c
12A1413	5	33005	30c
12A1414	6	33006	30c
12A1415	7	33007	34c
12A1416	8	33008	30c

12A1417. Type 33888 shield for use with No. 12A1416 socket to isolate input and output. Each..... **18c**

Millen Tube Clamps

(Fig. B) For standard 1 3/8" dia. base tubes.
No. 12A1418. Type 33087. Ea. **30c**
(Fig. C) For small metal tubes.
No. 12A1419. Type 33088. Ea. **24c**
(Fig. C) For large metal tubes (6L6).
No. 12A1420. Type 33089. Ea. **30c**

Type CIR National Sockets

Has low-loss steatite insulation, positive contacts. Mounting 1 27/32" centers, hole size 1 1/2". Octal mounts 1 1/2" centers, 1 1/4" hole.

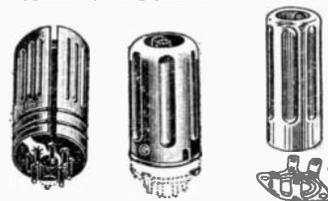
No.	Prongs	No.	Prongs
12A166	4	12A169	7L
12A167	5	12A170	7S
12A168	6	12A171	8 octal

Net Each..... **30c**

807 TUBE SHIELD

Helps prevent oscillation. Also OK for RK20, RK39 and 804 tubes. Size 2 1/4" dia. x 3" high. No. 17A575. Each..... **35c**

RADIO TUBE SHIELDS



(A) Form fitting two-piece shields assuring a snug positive fit for GT, GT/G and Local tubes. Supplied with ground clip as illustrated. Two sizes available.

19B254. 1CA 1727-B. Length, 2 1/2".
19B255. 1CA 1729-B. Length, 2 3/8".
CHOICE, EACH..... **9c**
(B) Single shell type shield for all GT or Local tubes with metal bases such as 12K7CT-6Q7GT-1A7GT-1LA6-7A8-7B8, etc. Vertical grooves provide flexible positive fit. Shield grounds thru metal base of the tube. Open top for grid connection. Over-all height, 2 1/16 inches. Base dia., 1.165".

No. 19A256. Net Each..... **9c**
(B) Same as above with larger base. Diameter 1.218". **9c**

No. 19A257. Net Each..... **9c**
(C) Shields for miniature tubes. A two-piece shield which will fit all miniature type tubes. Easy to install. Length overall, 1 1/8". Complete with base clip as illustrated. **12c**

No. 19A258. Net Each..... **12c**

Metal Tube Shield. Fits over top of the tube providing complete shielding for grid. Has slot to fit over the grid lead. Cad. plated. **10c**

GLASS OR METAL TUBE GRID CAPS



Grid caps for all applications. Size 3/8" fits standard glass tubes. 1/4" fits metal or CT types, 9/16" for 866 and other transmitting tubes and 3/8" for Type 807, etc.

Stock No.	Size	Fig.	Each
12A1342	3/8" Standard	1	1c
12A1349	3/8" National	2	3c
12A1350	1/4" National	3	3c
12A1351	9/16" Ins. Lead	4	18c
12A1352	Comb. 1/4" to 3/8"	5	24c
12A1353	3/8" Standard	6	1c
12A1354	1/4" Metal CT	6	1c
12A1355	Comb. with Lead	7	23c
12A1356	9/16" Ins. Millen	8	21c
17A1041	3/8" Ins. Millen	8	21c
12A1357	Comb. 3/8-1/4"	9	11c
12A1358	3/8" Ins. Lead	10	12c

Bakelite Wafer Sockets

For glass or metal tubes. Positive grip contacts in laminated bakelite. 1 1/2" mounting centers.

No.	Prongs	Each
12A157	4	7c
12A158	5	7c
12A159	6	8c
12A160	7 Small	8c
12A161	Octal	8c
17A1055	Local	8c

7-PIN WAFER MINIATURE. With center shield. Mounting centers 7/8". No. 17A1059. Each..... **12c**

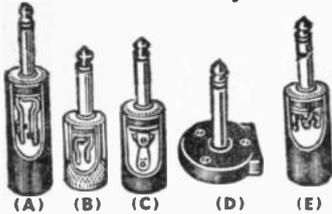
AMPHENOL PHOTO TUBE MOUNT

For 921, 922 or similar cartridge tubes. Molded of mica-filled bakelite. Angle bracket furnished for mounting in 10 different positions.

No. 15A1104. Amphenol Type 146-121. Net Each..... **79c**

Mike Connectors·Phone Plugs·Jacks, etc.

SPECIAL VALUE PLUGS FOR STANDARD JACKS



(A) Std. Bakelite Plug, 3/4x1 9/16"
12A386. Net Each 27c; 10 at 24c
 (A) Std. Metal Plug, 1 1/16x2 1/8"
12A387. Net Each 49c; 10 at 45c
 (B) Stubby Metal Plug, 1 1/16x1"
12A388. Net Each 42c; 10 at 37c
 (C) Midget Bakelite Plug, 9/16x1"
 Solder lug connections.
12A389. Net Each 29c; 10 at 26c
 (C) Midget Metal Plug, 9/16x1"
 Solder lug connections.
12A390. Net Each 41c; 10 at 37c
 (D) Flat Bakelite Plug, 1 1/16" diameter x 1/4".
12A391. Net Each 65c; 10 at 59c
 (E) 3-Way Mike Plug, 1/4" diameter stem. Barrel size 3/4x1 9/16".
 Bakelite. Metal.
12A392... 55c 12A393... 72c

Miniature Plug & Jack

Two conductor precision cord connectors. Molded plastic case cements together gripping cord securely. 3/8x 1/2x1 3/8" long.



No. 17A1071. Plug Type PL-291... **32c**
 No. 17A1072. Jack Type JK-48... **44c**

Portable Type Jacks

Always Handy!
 Single Open Circuit. Will fit all standard plugs. Ideal to make up extension cords for phones, speakers, etc. Barrel, 1 1/16x2 1/8".
 Bakelite. Metal.
12A394... 41c 12A395... 73c

Midget Short Jacks



Small, compact. Quality bakelite insulation. Mount in 3/8" hole on panels up to 3/16" thick. Fit standard size phone plugs.

12A396. Open Circuit... 24c
12A397. Single Closed Circuit... 27c

3-Way Mike Jack

Fits 1/4" diameter plugs Nos. 12A392, 12A393, 12A363 listed on this page.
No. 12A398. Each... 29c

STAND CONNECTORS



Chrome plated, 5/8"-27 threads.

(A) Screws on top of stand to permit easy removal of mike.
12A333. 3 Con... 65c
12A334. 4 Con... 71c

(B) For use between mike and stand, providing cable outlet at side, so it is not necessary to run cable through stand.
No. 12A335. Net Each... 48c

Low Prices on Mike Cable Connectors



Single contact, brass chrome plated. Contact made by tightening of coupling ring.

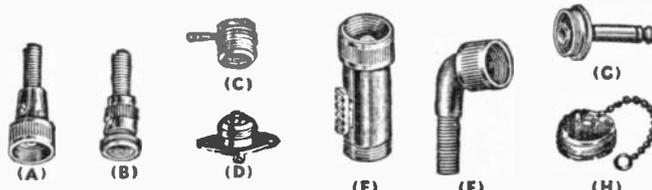
Each
 ① 14A320. Female Cable Type... **24c**
 ② 14A319. Male Cable Type... **21c**
 ③ 14A321. Male Chassis Type... **15c**

AMPHENOL MINIATURE CONNECTORS



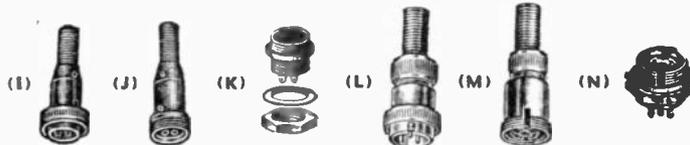
Shells are cadmium plated brass, 1 1/16" dia. Inserts are bakelite, easily removed for wiring.
 (A) Short male cable plug 13/16" long.
No. 12A142. 3-pin. Net Each... 21c
No. 12A143. 4-pin. Net Each... 24c
 (B) Long male cable plug. Lgt. 1 3/16".
No. 12A146. 3-pin. Net Each... 21c
No. 12A147. 4-pin. Net Each... 24c
 (C) 1 3/16" long. Flanged female cable plug. Used with male A or B for fully shielded connection.
No. 12A148. 3-hole. Net Each... 21c
No. 12A149. 4-hole. Net Each... 24c
 (D) Short female cable plug. Lgt. 1 1/8".
No. 12A144. 3-hole. Net Each... 21c
No. 12A145. 4-hole. Net Each... 24c
 (E) Chassis type female receptacle.
No. 12A150. 3-hole. Net Each... 21c
No. 12A151. 4-hole. Net Each... 21c

AMPHENOL MICROPHONE CONNECTORS



Standard single contact pressure type connectors with 5/8"-27 male or female thread as illustrated. Made of brass, chrome plated.
 (A) No. 12A311. Type 75-MCIF Female, Cable end. Each... **27c**
 (B) No. 12A312. Type 75-MCIM Male, Cable end. Each... **21c**
 (C) No. 12A313. Type 75-PCIM Male, chassis mounting in .385" hole. Furnished with insulating washers for 1/2" hole. Each... **18c**
 (C) No. 12A314. Type 75-SP-PCIM Male. Same as 12A313 above except has spring to push center contact forward. Each... **26c**
 (C) No. 12A315. Type 75-CL-PCIM Male, with spring actuated contact to close circuit when cable connector is removed. Prevents open circuit grid howls. Mounts in .385" hole. Each... **26c**
 (D) No. 15A1159. Type 75-202. Same as 12A314 except with bakelite mounting plate. Each... **27c**
 (D) No. 15A1160. Type 75-818. Same as 12A315 except with bakelite mounting plate. Each... **27c**
 (E) No. 12A316. Type MCIS Microphone Switch. Push to talk or slide switch for permanent contact. Each... **82c**
 (F) No. 12A317. Type 75-MCIF-A Angle Connector. Each... **59c**
 (G) No. 12A318. Type 75-MCIP Phone Plug Adapter. Each... **29c**
 (H) No. 12A319. Type 75-CCC-1 Gap and Chain. To seal chassis units. Keeps dust out. Each... **32c**

PLUG-IN SHIELDED CABLE CONNECTORS



TYPE 80 2-CONTACT CONNECTORS

Equipped with screw coupling ring to prevent accidental disconnection. Spring cord protector takes cables to 5/16" diameter. Brass chrome plated.
 (I) No. 12A320. Type 80-MC2M. 2-contact male, for attaching to cable end. Each... **52c**
 (J) No. 12A321. Type 80-MC2F. 2-contact female, for attaching to cable end. Each... **52c**
 (K) No. 12A323. Type 80-PC2F. 2-contact female, for chassis mounting in 21/32" diameter hole. Each... **29c**
 No. 12A322 (Not illustrated). Type 80-SP-MC2M. 2-contact male chassis connector. Each... **58c**

TYPE 91 3 AND 4 CONTACT CONNECTORS

3-contact types have 1/4" diameter spring cable protector; 4-contact types, 3/8" diameter protector. Brass, chrome plated. *Indicates connector has threaded coupling ring; all others, threaded shell.

(L) MALE CABLE CONNECTOR

No. 12A324*. Type 91-MC3M. 3-contact male. Each... **65c**
 No. 12A326*. Type 91-MC4M. 4-contact male. Each... **71c**

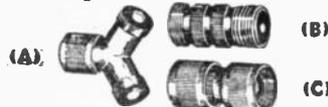
(M) FEMALE CABLE CONNECTOR

No. 12A325. Type 91-MC3F. 3-contact female. Each... **65c**
 No. 12A327. Type 91-MC4F. 4-contact female. Each... **71c**

(N) CHASSIS MOUNTING (MALE AND FEMALE)

Mounts in 13/16" Hole in Panels Up to 1/4" Thick
 No. 12A328*. Type 91-SP-PC3M. 3-contact male. Each... **65c**
 No. 12A329. Type 91-PC3F. 3-contact female. Each... **32c**
 No. 12A330*. Type 91-SP-PC4M. 4-contact male. Each... **71c**
 No. 12A331. Type 91-PC4F. 4-contact female. Each... **35c**
 No. 12A332. (Not illustrated). Cap and Chain to fit 91 series chassis units. Each... **32c**

Handy Mike Connectors



All have standard 5/8"-27 thread and mate with standard mike cable connectors.

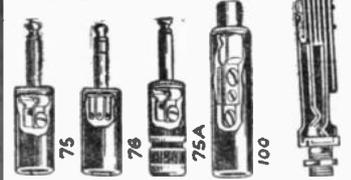
(A) "Y" CONNECTOR
 2 male and 1 female—for use where more than one mike or speaker is wanted from single circuit. **\$1.03**

(B) DOUBLE MALE CONNECTOR
 Solid silver plated contacts. **41c**

(C) DOUBLE FEMALE CONNECTOR
 With two coupling nuts. Ideal for extra cable connectors. **48c**

Double Female Coupling Ring. Used for joining two standard male microphone cable connectors or for converting male connector to female type. **15c**

MALLORY Phone Plugs and Jacks



2 way phone plug, bakelite shell.
12A361. Type 75... Net 38c
 2 way plug, shielded metal shell.
12A362. Type 75N... Net 59c
 3 way Microphone plug, bakelite.
12A363. Type 76... Net 59c
 2 way plug, shielded metal shell like 75N above, except has built-in cable clamp.
12A364. Type 75A... Net 97c
 Extension Jack, 2 way, fibre shell.
12A365. Type 100... Net 76c

Long Frame Jacks

See diagram below A1, A2, and A2A.
12A366. No. 1, Open Circuit... 38c
12A367. No. 2, Circuit Closing... 47c
12A368. No. 2A, Closed Circuit 47c

MALLORY JACKS



MIDGET JACKS. Extremely compact. Mount in 3/8" hole. Special metal assures finest spring action.
JUNIOR JACKS. Neat, small mounting in 7/16" panel hole. Extends 1 1/4" back of panel.

Type	Cat. No.	Ea.
Midget A1	12A381	\$.18
Junior 701	12A369	.32
Midget A2	12A382	.29
Junior 702	12A370	.44
Midget A2A	12A383	.32
Junior 702A	12A371	.44
Junior 702B — 3 circuit Micro.	12A379, Each	44c
Junior 703 — Single circuit Filament Control.	12A372, Each	50c
Junior 703A — Circuit reversing.	12A373, Each	50c
Junior 703B — 3 Circuit Micro, one Circuit Closing.	12A380, Each	50c
Junior 703C — Double Circuit.	12A374, Each	50c
Junior 704 — Interstage.	12A375, Each	59c
Junior 704A — Two Circuit Filament Control.	12A376, Each	59c
Junior 704B — Two Circuit.	12A306, Each	59c
Junior 705 — Two Circuit Filament Lighting.	12A377, Each	68c
Junior 706 — Interstage Filament Control.	12A378, Each	74c



SIGNAL CORPS JACKS

JK34A. Same spring arrangement as A1 in diagram above. Fits standard plugs.
No. 12A384. Each... 32c
 JK33A. Spring arrangement like 702B in above diagram. For plugs WE109, PL46, PL68, PL168,
etc. No. 12A385. Each... 38c

Plugs - Jacks - Clips - Test Prods - Etc.

BANANA PLUGS AND JACKS



- ① Insulated Head Jack. Mounts in 1/4" hole on panels up to 3/8" thick. Specify Red or Black. 12A1048, Ea.....9c 10 For.....81c
- ② All Metal Jack. Brass Nickel plated. Mounts in 1/4" hole. 12A1047, Ea.....4c 10 For.....36c
- ③ Bronze Spring Plug. Nickel plated. Has hex shank, removable 6-32 screw and lugs. 12A1046, Ea.....7c 10 For.....60c
- ④ Insulated Spring Plug. Solderless, side screw connection. Overall length 1 11/16". Red or Black.. 12A1042, Ea.....12c 10 For..\$1.08
- ⑤ All Metal Spring Plug. Brass nickel plated. 1/2", 6-32 threaded shank. Overall length 1 3/16". 12A1044, Ea.....7c 10 For.....60c
- ⑥ Insulated Split Plug. Prong split in center for spring action. Set screw connection length 1 7/16". Red or Black. 12A1043, Ea.....12c 10 For..\$1.08
- ⑦ All Metal Split Plug. 6-32 threaded hex shank. Overall length 1 1/4". 12A1045, Ea.....7c 10 For.....63c

PHONE TIP PLUGS AND JACKS

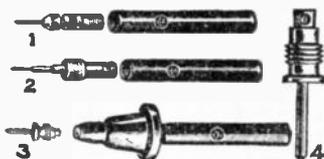


- ① All Insulated Jack 1/2" head countersunk for snug fit. Phosphor bronze contacts. 3/4" overall. Mounts in panels up to 3/8" thick. Red or Black. 12A1059, Ea... 15c 10 For..\$1.30
- ② Insulated Jack. Phosphor bronze contacts. Fits 1/4" hole in panels up to 1/4" thick. Red or Black. 12A1058, Ea... 9c 10 For....80c
- ③ Insulated Combination Jack. Takes either phone or banana tips. Fits 1/4" hole in panels up to 3/8" thick. Red or Black. 12A1049, Ea... 12c 10 For..\$1.08
- ④ All Metal Jack. Phosphor bronze contacts. Fits 1/4" hole in panels up to 3/8" thick. 12A1057, Ea... 6c 10 For....54c
- ⑤ Insulated Plug. Perfect solderless connection by tightening knurled collar. Overall length 2 3/16". Red or Black. 12A1050, Ea... 11c 10 For....99c
- ⑥ All Metal Plug. Brass nickel plated. Solderless connection. Overall length 1 5/8". 12A1052, Ea... 6c 10 For....54c
- ⑦ Grip-Rite Insulated Plug. Supplied with nut and bolt assembly. 12A1055, Ea... 29c 10 For..\$2.61
- ⑧ Streamlined Right Angle Plug. Solderless connection made by screwing tip in securely. Red or Black. 12A1056, Ea... 18c 10 For..\$1.62

INSULATED ALLIGATOR CLIP WITH PHONE TIP JACK

Has phone tip jack in shank. Overall length 2 3/8". Red or Black. 12A1020, Ea... 27c 10 For..\$2.43

TEST LEAD PRODS



- (1) Phono Needle Type—Tapped removable chuck holds standard phono needles. Red or Black Tenalite handle. 11A173, 5" long.....24c
- (2) Solderless Type—Tapped Removable solderless plug holds wire securely by means of knurled collar. Red or Black. 11A176, 5" long.....24c
- (3) Heavy Duty Type—For high voltage needs. Has finger guard ring, minimum of metal exposed. 11A178, 6" long.....67c

THREADED PHONE TIP CHUCK

(4) Threaded to fit all test prods. 12A1037, Ea.....9c 10 For.....81c

PLUGS AND TERMINALS WITH SHANKS TO FIT BANANA TYPE PLUGS



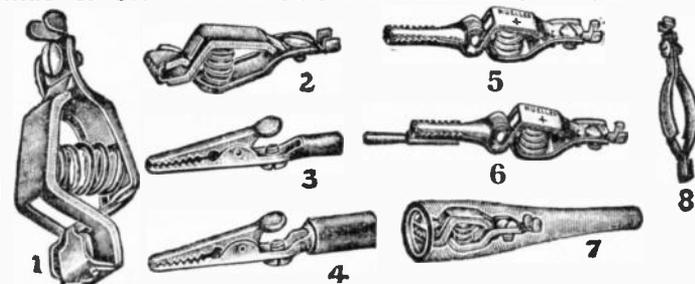
- Ideal for use with test leads, etc. which have banana plugs.
- ① Insulated Phone Tip Type. 12A1038, Red or Black, Ea.....10c
 - ② Insulated Spade Terminal Type. 12A1039, Red or Black, Ea.....10c
 - ③ All Metal Spade Terminal Type. 12A1040, Doz.....44c 100.....\$3.28

TEST LEAD WIRE



Non-kink, flexible test lead wire. Consists of very fine tinned stranded copper wire with heavy wall of live rubber insulation. No. 22A15, 25 Ft. Coll, Red or Black, Each.....42c
No. 22A16, 100 Ft. Coll, Red or Black, Each.....\$1.47

Mueller UNIVERSAL CLIPS & FLEXIBLE INSULATORS



Finest made. A type for every need. Screw or lug connections—no solder needed. Types marked with asterisks (*) are Copper. Others are of steel with bright finish. Standard packages of 10 clips; 5 marked + and 5 plain.

Stk. No.	Mfrs. Type	Amps.	Over-all Length	Jaw Spread	Net Each	Box of 10
11A162	24A	25	2 7/8"	"	11c	\$.93
11A163	21A	50	4 1/2"	1 1/2"	16c	1.47
12A1000	45	5	1 1/2"	5/8"	5c	\$.44
12A1001	*45C	10	1 1/2"	3/4"	8c	.68
12A1002	48B	10	2 1/2"	1 1/2"	6c	.49
12A1003	*27	10	2 7/16"	5/8"	8c	.68
12A1004	*27C	40	2 7/16"	5/8"	14c	1.22
12A1005	*82	10	2"	1 1/2"	11c	.98

*Needle Between Jaws for Piercing Insulated Wires
†Meshing Teeth on All 3 Sides of Jaws

(FIG. 3) ALLIGATOR CLIPS All Metal. Fits banana plugs. Red or Black shank. Fits banana plugs.

Stk. No.	Type	Over-all Length	Ea.	10 For
12A1006	60S	2"	6c	49c
12A1007	*60CS	2"	9c	78c

(FIG. 5) CROCODILE CLIP 12A1010 85 2 1/8" 6c 49c

(FIG. 6) CROCODILE TIP-CLIP Standard phone tip on one jaw. 2 5/8" overall length. Type 85T. 12A1011, Ea... 12c 10 For..\$1.08

(FIG. 8) WEE-PEE-WEE CLIP Non-ferrous R.F. Clip. Ideal for coils and high frequency work. 12A1012 88 1 1/2" 12c \$1.08

HEAVY DUTY ALLIGATOR CLIPS

For Use Where Extra Strong Grip is Desired.



Insulated red or black handle. Over-all length, 3 1/4". 2 3/4" long, loop in barrel for large wire. 12A1018, 10 For.. \$1.35
12A1019, Ea. 12c 10 For \$1.08

TWIN-CLIP No. 22

WITH JAWS ON BOTH ENDS



Something new and different—for countless electrical and mechanical applications. A squeeze in center opens both jaws at once, or a squeeze on either end opens only one jaw without disturbing the other. Cadmium plated steel, 2" long 3/8" wide. Jaw spread 1/2". Screw connection. No. 15A124, Your Cost, Each.....8c 10 Lots, Each.... 7c

Phone Tip Twin Jacks



(A) Sure contact. Flush mounting. Nickel tip jacks mounted in bakelite strip, 2" long, 1 1/16" wide, mounting hole 1 1/16" centers. 12A1061—Net Ea. 9c 10 @.....8c
(B) Insulated head jacks mounted on a bakelite strip, 1/2" wide, 2" long, 3/4" apart. No. 12A1062, Net Each..... 29c

PHONE TIPS

Standard Type.	Doz.	100
12A1085	14c	
for \$1.05		
Easy to Solder Type.		
12A1086	23c	
Doz.		
100		
for \$1.75		



For recording units, receivers and many makes Auto Radios. No. 12A1087—Pin Plug, Ea.....5c
No. 12A1088—Socket & Shield....8c

Double Phono Jack

2 positive grip phono jacks mounted on 1/16" bakelite panel with 1 3/16" mounting centers. Brass shell and contacts solder coated for fast, easy soldering. 17A1069, Net Ea.. 10c

SHIELDED EXTENSION JACK

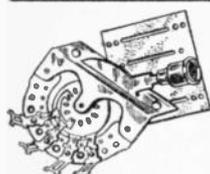


Fits pin plug above for extending and connecting leads in record players, auto radios, recording equipment, etc. Length 2 7/16". No. 14A716, Each..... 15c

EBY BINDING POST

Non-removable bakelite top 7/16" dia. Has hole for phone tip and 6-32 stud 7/16" long. No. 17A385 10 For..... 70c

RADIO MULTI-GANG, SELECTOR and ALL WAVE SWITCHES



Centralab Lever Action Switches Positive and Spring Return

Extremely compact—Simple in design—Used in Public Address and intercomm systems; test equipment; Controls for model railroad, etc. Mount singly or in gangs up to five (See Mounting Plates listed below). Rating: 6 watts. Insulation: High grade laminated phenolic. Contacts: Heavily Silver plated spring brass. Supplied with knob and mounting hardware. **CHOICE, EACH .73c**

Shorting Type Non-shorting Type

No.	Poles	Pos.	Action	No.
12A700	2	3	Positive	12A705
12A701	2	3	Spring	12A706
12A702	4	3	Spring	12A707
12A703	4	2	Positive	12A708
12A704	2	3	Pos. & Spr.	12A709

MOUNTING PLATES

For mounting above switches singly or in gangs up to 5. Black crackle finish steel.

Stk. No.	Gangs	Dim.	Each
12A713	1	2 5/8 x 3/4"	21c
12A714	2	2 5/8 x 1 1/2"	24c
12A715	3	2 5/8 x 2 1/4"	29c
12A716	4	2 5/8 x 3"	35c
12A717	5	2 5/8 x 3 3/4"	44c

Centralab SPRING RETURN SWITCHES

Used as talk-listen switches in Intercomm Systems. Shaft returns to original position when knob is released. Rotation is clockwise. Have 1 1/2" (from end of bushing) shafts which can be cut to size.

12A710.	1-Pole, 2-Position...	\$0.44
12A711.	2-Pole, 2-Position...	.59
12A712.	4-Pole, 2-Position...	1.03

Centralab MOMENTARY PUSH SWITCHES

For light duty applications such as meter insertion, record rejection or selection, call bell, etc. Rating: 1 amp. at 110-V. AC. Silvered contacts. Insulated 3/8" bushing, 3/8" long. Push-button extends 1/2" from end of bushing.

No. 12A718.	Normally open...	24c
No. 12A719.	Normally closed...	24c

Universal Flat Switch

Use as SPST, SPDT, DPST, DPDT, 3PST, 3PDT, 4PST, 4PDT. Non-shorting type. 5/8" deep, 2 1/4" shaft. With bar knob. **No. 12A533. Your Cost, Each...59c**

No. 12A712. Same as above except spring return. Each...\$1.03

FEDERAL Anti-Capacity Switches

Contacts of silver plated phosphor bronze. Actuated by a cam roller. Size, 2 1/2 x 5 1/4". **No. 12A452. DPDT. \$1.90**
No. 12A453. 4PDT. 2.25

Tap Switch

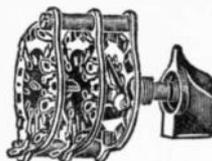
Positive snap action. Strong wiping contact grounded to shaft and bushing. In operation, contact breaks between makes. Bushing length 3/8". Shaft 9/16" from end of bushing. Single pole 2 to 12 points.

No.	Pts.	Each	No.	Pts.	Each
12A534	2	50c	12A540	8	56c
12A535	3	50c	12A541	9	56c
12A536	4	50c	12A542	10	59c
12A537	5	53c	12A543	11	59c
12A538	6	53c	12A544	12	59c
12A539	7	56c			

MALLORY GANG SWITCHES

Types 1200L and 1300L Series

Used in a very wide range of applications. Have 1 fixed and 1 adjustable stop, laminated bakelite insulation and phosphor-bronze springs. 2 gang switches are spaced 1/2"; 3 and 4 gang are spaced 1". Notched 2" shaft is easily shortened. Require 1/8" mtg. hole. If necessary can be disassembled, the spacers cut down to required length of switch and spacing of sections. With bar knob but less dial plate. See plates for 1 1/4" switches listed below.



Shorting		Non-Shorting		Gangs	Poles	Positions	NET EACH
Cat. No.	Type	Cat. No.	Type				
12A456	1211L*	12A457	1311L*	1	1	1-11	.91
12A458	1215L	12A459	1315L	1	2	1-5	.97
12A460	1213L	12A461	1313L	1	3	1-3	1.06
12A462	1221L	12A463	1321L	1	4	1-2	1.12
12A468	1221L*	12A467	1321L*	2	2	1-11	1.35
12A468	1225L	12A469	1325L	2	4	1-5	1.53
12A470	1223L	12A471	1323L	2	6	1-3	1.65
12A472	1222L	12A473	1322L	2	8	1-2	1.73
12A476	1231L*	12A477	1331L*	3	3	1-11	1.82
12A478	1235L	12A479	1335L	3	6	1-5	1.94
12A482	1241L*	12A483	1341L*	4	4	1-11	2.32
12A484	1245L	12A485	1345L	4	8	1-5	2.70
12A486	1251L*	12A487	1351L*	5	5	1-11	2.88
12A488	1256L*	12A489	1356L*	5	10	1-6	3.56
12A490	1261L*	12A491	1361L*	6	6	1-11	3.41
12A492	1266L*	12A493	1366L*	6	12	1-6	4.35

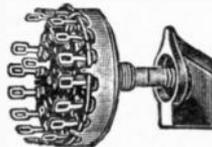
Types marked with () have no third or "off" position with all circuits open. All others have "off" position.

No. 12A494. Universal mtg. bracket RB254 for all above... 15c

MALLORY SINGLE-GANG CIRCUIT SELECTOR SWITCHES

3100J and 3200J Series

Very sturdy and have a wide application in tap switch needs. Have 2" notched shafts; silver contacts; 3/8" threaded bushing. Low resistance wiping contacts. All 1 11/16" base diameter types have adjustable stops. All are with bar knob and mounting nut. See below for switch plates.



Shorting		Non-Shorting		Poles	Positions	Base Dia.	Net Each
Cat. No.	Type	Cat. No.	Type				
12A495	3115J	12A496	3215J	1	1-5	1 1/8"	\$.88
12A497	3112J	12A498	3212J	1	1-12	1 1/8"	.88
12A499	3122J	12A500	3222J	2	1-2	1 1/8"	.88
12A501	3123J	12A502	3223J	2	1-3	1 1/8"	.88
12A503	3126J	12A504	3226J	2	1-6	1 1/8"	.88
12A505	3134J	12A506	3234J	3	1-4	1 1/8"	.71
12A507	3142J	12A508	3242J	4	1-2	1 1/8"	.71
12A509	3143J	12A510	3243J	4	1-3	1 1/8"	.71
12A511	3117J	12A512	3217J	1	2-17	1 1/8"	1.06
12A513	3129J	12A514	3229J	2	1-9	1 1/8"	1.06
12A515	3136J	12A516	3236J	3	1-6	1 1/8"	1.15
12A517	3163J	12A518	3263J	6	1-3	1 1/8"	1.15

MALLORY SWITCH PLATES FOR ABOVE

For switch, tone, or volume control. Easy to read figures on black. 1/8" hole. For 1 1/4" and 1 1/2" dia. switches.

Net Price, Each... 12c

For 1 1/4" BASE SWITCHES—30° SPACING

No.	Type	Marked	No.	Type	Marked	No.	Type	Marked
12A726	372	1 to 2	12A733	379	1 to 9	12A740	386	Off 1 to 6
12A727	373	1 to 3	12A734	380	1 to 10	12A741	387	Off 1 to 7
12A728	374	1 to 4	12A735	381	1 to 11	12A742	388	Off 1 to 8
12A729	375	1 to 5	12A736	382	1 to 12	12A743	389	Off 1 to 9
12A730	376	1 to 6	12A737	383	Off 1 to 3	12A744	390	Off 1 to 10
12A731	377	1 to 7	12A738	384	Off 1 to 4			
12A732	378	1 to 8	12A739	385	Off 1 to 5			

For 1 11/16" BASE SWITCHES—20° SPACING

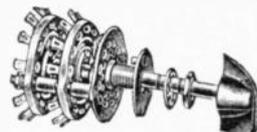
12A745	453	1 to 3	12A752	460	1 to 10	12A759	477	Off 1 to 7
12A746	454	1 to 4	12A753	461	1 to 11	12A760	478	Off 1 to 8
12A747	455	1 to 5	12A754	462	1 to 12	12A761	479	Off 1 to 9
12A748	456	1 to 6	12A755	473	Off 1 to 3	12A762	480	Off 1 to 10
12A749	457	1 to 7	12A756	474	Off 1 to 4	12A763	481	Off 1 to 11
12A750	458	1 to 8	12A757	475	Off 1 to 5	12A764	482	Off 1 to 12
12A751	459	1 to 9	12A758	476	Off 1 to 6	12B765	467	Off 1 to 17

MALLORY PUSH-BUTTON SWITCHES

Ideal for laboratories, on test panels, in meter circuits, etc., anywhere momentary or permanent contact is required. Non-locking type maintain contact while button is held. Locking type keeps circuit closed until button is pulled out again. Mounts in 7/16" hole on panels up to 1/4" thick.

Stk. No.	Type	Circuit Arrangement	Each
① 12A545	2001	SPST—Make Non-locking	76c
② 12A546	2001L	SPST—Make Locking	76c
③ 12A547	2003	SPDT Non-locking	82c
④ 12A548	2004	DPST—Make 2 Non-locking	94c
⑤ 12A549	2004L	DPST—Make 2 Locking	94c

MALLORY CERAMIC SELECTOR SWITCHES



Ceramic Insulation minimizes RF losses and retards moisture absorption. "Snap" action indexing mechanism has adjustable stop feature. Contacts are heavy silver-plated, self-cleaning, non-shorting. Gang spacing 1/2"; Mounting bushing, 3/8" dia. x 3/8" long. 2" shaft is grooved for easy cutting. Bar knob supplied with each. Use Standard 30° switch plates.

No.	Type	Gangs	Poles	Pos.	Net Ea.
17A1113	172C	1	1	11	\$1.32
17A1114	173C	1	2	5	1.32
17A1115	174C	1	3	3	1.32
17A1117	176C	2	2	11	2.06
17A1118	177C	2	4	5	2.06
17A1119	178C	2	6	3	2.06
17A1120	179C	3	3	6	2.94
17A1121	180C	3	3	11	2.94
17A1122	181C	3	6	5	2.94

Mallery "Hamband" Switches



Low loss ceramic insulation, wide contact spacing, improved heavy silver plated contacts. For transmitters with power up to 100 watts. 4 contacts per circuit. With knob as shown. 90° indexing.

No.	Type	Gangs	Cir.	Ea.
12A528	161C	1	1	\$1.32
12A529	162C	2	2	2.06
12A530	163C	3	3	2.94
12A531	164C	4	4	3.53
12A532	165C	5	5	4.41

12A766. Special dial plate for above numbered from 1 to 4... 12c

MALLORY 24-POINT TAP SWITCH

For test equipment or other application where more than the conventional 12-point switch is required. Single circuit, non-shorting. Continuous rotation with 15° indexing action between positions. Has 3/8x3/8" brass bushing, 2" long notched shaft. Complete with dial plate and bar knob.

No. 12A527. EACH... \$2.06

MALLORY CIRCUIT-OPENING SWITCH

Type 1400L. Used in test sets, tube checkers, analyzers, etc., anywhere the use of only one meter is desired. Opens any one of twelve lines for insertion of current reading meter and maintains a through circuit on other 11 lines. Complete with Dial Plate and Bar Knob.

No. 12A555. Net Each... \$3.48

MALLORY "HAMSWITCH" 152L

2-section, 2-circuit, 6-position switch for application where all unused terminals are to be connected and automatically shorted out as the Switch is rotated. Phenolic resin insulation. 1/2" spacing between sections. Adjustable stop. 3/8" dia. x 3/8" long bushing; 2" long shaft grooved for easy cutting to popular lengths.

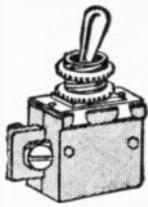
No. 16A730. EACH... \$1.91

TAP SWITCH

8 pos. single pole. Numbers show through window. No. 17A758. Each... 53c



QUALITY RADIO and ELECTRICAL SWITCHES for MOST ANY NEED



Carling Hi-Power Toggle Switch
20 amp., 125 volts; 10 amp., 250 volts. $\frac{1}{2}$ " dia. shank $\frac{1}{8}$ " long. Bat handle, bakelite base, SPST.
12A794. Each 52c
10 at47c



Carling Momentary Plunger Type Switches
Handy for Countless Needs

Double-Pole, Double Throw
6 lug switch suitable for testers, meter panels, etc. Makes DP, ST by using 4 lugs, 1 amp. 125 volts AC only. 15/32" shank, $\frac{1}{8}$ " long.
12A792. Each 53c; 10 at48c

Single-Pole, Two Circuit
4 lug switch, 1 amp. 125 volts AC only. 15/32" shank, $\frac{1}{8}$ " long.
12A793. Each 35c; 10 at 32c



Toggle Switch With Wire Leads
Carling S.P.S.T. toggle switch rating 3 amps. 250 volts. 5/16" shank with two knurled nuts. Attached 6 inch leads provide easy installation.
17A307. Ea. 30c
Lots of 10. Ea. 27c

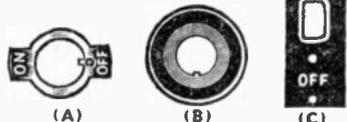


S.P.S.T. Miniature Toggle Switch
Screw terminals and tiny bakelite handle. Light duty service for model aircraft, trains, etc. Size 9/16" W, 3/4" L, 7/16" D. 1/2" mtg. centers.
15A1082. Each 18c
10 Lots 16c



Slide Switches
For any need where a small switch is wanted—make current, tone control, low power supplies, etc. All contacts are silver plated. Ratings, S.P. $\frac{3}{4}$ A., 125 volt AC or DC. 35/64x1 13/32". 1/8" mtg. centers.
No. 12A799. S.P.S.T. Net Each. 18c
No. 12A768. S.P.D.T. Net Each. 19c
No. 17A1040. D.P.S.T. Net Each. 22c
No. 12A769. D.P.D.T. Net Each. 28c

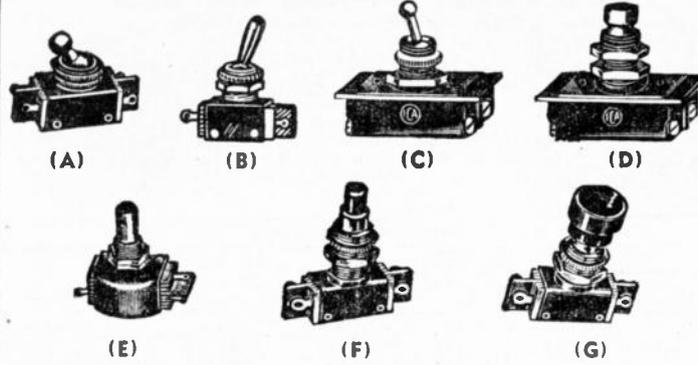
Switch Plates
For Standard Toggle and Slide Switches.



(A) For toggle switches, N.P. steel. No. 12A785. Ea. 2c, 10 at 1/2c
(B) Circular type for toggle switches. Etched, polished aluminum with black background.
No. 17A1013 Off-On } Choice Each
No. 17A1014 Micro-Phono } 12c
No. 17A1015 Phono-Radio }
(C) For slide type switches with 1/8" mtg. hole centers. Antique finish. Size 2 1/2 x 7/8". Choice Each
No. 17A1016 Phono-Radio } 15c
No. 17A1017 On-Off }

ROTARY CANOPY SWITCH
For lamp and appliance repairs SPST switch. Rated 3-amp., 125-volt; 1-amp., 250-volt. Has 1/4" shank, brown bakelite knob, 6" wire leads.
No. 12A725. 10 For \$1.53
Each 17c

HART & HEGEMAN SWITCHES



TOGGLE and BAT HANDLE SWITCHES (A) — (B)
Underwriters Approved: For controlling radio sets, small motors, lamps, meters, etc. Of high quality rugged construction. Rated at 3-amp., 125-volt; 1-amp., 250-volt. Laminated bakelite or fibre insulation. Solder lug connections. Mounting shank diameter 15/32"x13/32" long. Two mounting nuts included. Nickel plated.

(A) TOGGLE				(B) BAT HANDLE					
No.	Type	Lugs	Each	10@Ea.	No.	Type	Lugs	Each	10@Ea.
12A770	SPST	2	25c	23c	12A771	SPST	2	25c	23c
12A586*	SPST	2	30c	27c	12A773	SPDT	3	30c	27c
12A772	SPDT	3	30c	27c	12A775	DPST	4	45c	43c
12A774	DPST	4	45c	43c	12A777	DPDT	6	51c	46c
12A776	DPDT	6	51c	46c					

HI-POWER SWITCHES (C) — (D)

Used on motors, appliances, etc. Rated 12 amps. at 125 volts. Size, 1 3/4" long, 3/4" wide, 5/8" high. Shank is 7/16" long.
(C) TOGGLE TYPE—DPST 12-amps., 125-volts. **66c**
No. 12A779. NET EACH
(D) PUSH-BUTTON TYPE—DPST Normally open. When used in racks as an interlock switch, will break primary circuit when door is opened. **87c**
No. 12A778. NET EACH
EXTRA HEAVY DUTY TYPE—DPDT with neutral position in the center for use in heavy current circuits such as transmitters, amplifiers, motors, etc. "Fast-break" type contacts. Rated 10 amps at 125 volts. Size, 2" long, 1" high, 1 1/4" wide, 5/8" diameter shank. **\$2.62**
No. 12A780. NET EACH

ROTARY SWITCHES (E)

For knob operation. 3 amps., 250 volts. Mounting sleeve, 3/8" diameter, sleeve length, 15/32". Knob shafts extend 1" beyond threaded sleeve.

No.	Type	Lugs	Each	10@Ea.
12A781	SPST	2	28c	26c
12A782	SPDT	3	32c	29c
12A783	DPST	4	51c	48c
12A784	DPDT	6	58c	52c

TWO-CIRCUIT PUSH SWITCHES (F) — (G)

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-volt AC. Bushing 15/32" diameter, 5/8" long.

No.	Type	Each	10@Ea.
12A720	(F) METAL PLUNGER	37c	34c
12A721	(F) BAKELITE TIP Red	49c	44c
12A722	(F) BAKELITE TIP Black	49c	44c
12A723	(G) BAKELITE BUTTON Red	48c	44c
12A724	(G) BAKELITE BUTTON Black	48c	44c

Acro Switches



The wide application of this type switch is familiar to most all who use switches. Case is of plastic 1 1/4"x1 1/4"x27/32", drilled for mounting two 6/32 screws on 1" centers. Type 1P mounts through panel. 1/4" sleeve. Rated 10 amps. at 15 volts; 5 amps. at 230 V. AC. Movement Differential: Type 1A—.005"; Type 5L—.030"; Type 1P—.003". Operating Pressure: Type 1A=2-3 oz.; 5L=1 1/2-2 1/2 oz.; 1P=b-10 oz.

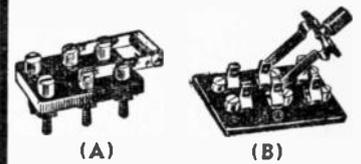
1A—Pin Type			5L—Leaf Type			1P—Panel Type			
Mfrs. No.	Stock No.	Net Ea.	Mfrs. No.	Stock No.	Net Ea.	Mfrs. No.	Stock No.	Net Ea.	
Circuit Code	No.	Ea.	Code	No.	Ea.	Code	No.	Ea.	
XO-	XO-1A	12A800	.93	XO-5L	12A803	1.02	RO-1P	12A806	1.96
N.C.	XC-1A	12A801	.93	XC-5L	12A804	1.02	RC-1P	12A807	1.96
D.T.	XD-1A	12A802	1.12	XD-5L	12A805	1.21	RD-1P	12A808	2.16

PHONO-RADIO SWITCH

For Record Players, Changers, FM Tuners
Connects Record Players, FM Tuners, TV attachments, Microphone, and similar devices into the audio amplifier of existing radio sets. Provides change-over from radio to record player with suppression of radio when in "phono" position.
No. 12A554. NET EACH 95c

RCA RECORD-PLAYER SELECTOR SWITCH
Provides the means for using a 45 RPM record player with existing players or phono-radio combinations by switching between the two pickups. Mount on rear of radio or cabinet. Includes the switch assembly; and plugs for connecting to standard phono jacks used on present day radio combinations. Pick-up leads plug into standard jacks on switch unit.
No. 15A496. NET EACH \$2.37

BAKELITE KNIFE SWITCHES



(A) Miniature Type—For radio and electrical uses. Black bakelite base. Nickel plated brass parts. Insulated handles.

No.	Type	Size	EACH
12A795	SPST	1 1/2 x 1 1/4"	\$0.21
12A796	SPDT	1 1/2 x 1 1/4"	.35
12A797	DPST	1 x 1 1/2"	.41
12A798	DPDT	1 x 1 1/4"	.44

(B) Standard Type—Heavily nickel plated brass hardware is mounted on highly polished black bakelite bases. Firm contact assured.

No.	Type	Size	EACH
16A725	SPST	1 1/2 x 1"	\$0.50
16A726	SPDT	2 1/8 x 1"	.59
16A727	DPST	1 7/8 x 1 7/8"	.88
16A728	DPDT	2 3/4 x 1 7/8"	.79
16A729	3PDT	2 1/8 x 2 1/2"	1.18

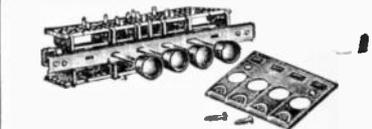
Porcelain Switches

Porcelain base compact knife switches. Screw terminals.
12A550 SPST Size 1 x 1 5/8" 13c
12A551 SPDT Size 1 x 2 5/8" 16c
12A552 DPST Size 1 1/2 x 1 3/4" 23c
12A553 DPDT Size 1 1/2 x 2 5/8" 27c

Nut Type Acro Switch

Push-button type, compact, 29/32" dia. x 1 1/2" overall height. For panel mounting. Bakelite plunger. Rating is 15 amps. at 115 volts AC. Ideal for DC loads because of double break feature.
12A812. Type 3N05-5P—N.O. 1.47
12A813. Type 3NCS-5P—N.C. 1.47

MALLORY MULTIPLE PUSH-BUTTON SWITCHES



Ideal for automatic station selector tuning, intercomm systems, telephone systems, PA, etc., anywhere a device for making, breaking or transferring circuits is required. One or more plungers may be pressed simultaneously, and remain as such until another is pressed. Comes complete with brown phenolic resin knobs, statuary bronze escutcheon plate with blank identification inserts and transparent strip for windows.

No.	Type	Buttons	EACH
16A719	2164	4	\$3.09
16A720	2166	6	3.85
16A721	2168	8	4.66

CIRCUIT TRANSFER TYPE Non-Shorting			
No.	Type	Buttons	EACH
16A722	2194	4	\$3.09
16A723	2196	6	3.85
16A724	2198	8	4.66

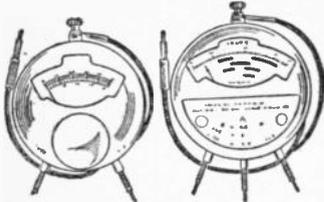
Carling Toggle Switches

For general purpose use. 3/8" mounting sleeves. Rated 3 amps. at 125 V. A. C. With 2 mtg. nuts.

No.	Type	Each	10@Ea.
12A790*	SPST	30c	27c
12A787	SPDT	27c	25c
12A788	DPST	33c	30c
12A789	DPDT	49c	44c
15A2044.	DPDT with off position in center.		
Each.....	56c	10 at.....	51c

PANEL METERS AND ACCESSORIES

STERLING POCKET METERS



No. 31A HEARING AID BATTERY TESTER. Carefully engineered to impose correct loads on the small, delicate batteries used on vacuum tube hearing aids. Has two scales, 0-50 volts in 1-volt divisions and 0-2 volts in 1/10-volt divisions. Case size, 2 1/4" diameter, 5/8" thick, bright nickel finished.

No. 16A734. NET EACH. **\$2.06**

No. 42A PORTABLE RADIO BATTERY TESTER. Equipped with red and green "Good-Bad" color chart for all standard batteries including 45-volt and 90-volt "B" batteries and 1.5, 4.5, 6, and 7.5-volt "A" batteries. Also has 0-100-volt scale for special sizes of "B" batteries, 5 volts per division. All tests are made at correct load to give true battery condition. Case size, 2 1/4" diameter, 5/8" thick, bright nickel finished.

No. 16A735. NET EACH. **\$3.53**

NEON GLOW VOLT METER

Reads AC or DC 65 to 660 Volts



Just rotate the knob until glow lamp goes out and read voltage direct from the calibrated scale. A handy, portable instrument that can stand knocking around. Resistance approx. 1/2 megohm. Neon indicator good for 10,000 hours actual operation. Has flexible leads and test prods. Bakelite case dia. 2".

No. 17A572. Net Each... **\$1.85**



BARGAIN!
G.E. R.F. AMMETER
Range 0-4 Amps. Expanded scale. Bakelite case 2.19" dia. List Price, \$19.75.

No. 20A840. While They Last... **\$2.95**

Lots. Each... **\$2.45**

"NOBELOY" PRECISION RESISTORS

Accuracy, Plus or Minus 1% Especially recommended for meter multipliers. Continental Carbon "X-1", 1-watt. Temperature coefficient 0.0005 (.05% per degree C.) Negative. Negligible noise characteristics. Voltage characteristic does not exceed 1/10 of 1%. Resistance element is a Metal Film, containing no carbon, deposited on surface of low-loss ceramic tube and hermetically sealed with a uniform vitreous enamel coating capable of withstanding temp. to 400° F. 1 1/2" tinned copper leads. Size, 9/32x1".

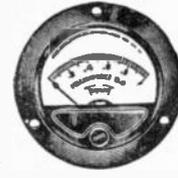
Ohms	Ohms	Ohms	Ohms
11000	10,000	75,000	750,000
10	1450	15,000	90,000
25	200C	20,000	100,000
50	295C	25,000	150,000
100	4450	30,000	200,000
200	5000	40,000	250,000
400	7450	50,000	300,000
500	9950	50,000	500,000

No. 15A110. Specify Values Desired. EACH... **59c**

TRIPLETT PANEL METERS



Round or square flush-mounting, bright bakelite cases, dust-proofed. DC Meters are D'Arsonval type; AC types have moving iron vane, air damped. All have selected jewel bearings, highly polished pivots, aluminum pointers, molded zero adjusters, ceramic pointer stops and white enameled metal dial with easy-to-read scale. Accurate within 2%. Mounting hole, 2" models 2 7/32"; 3" models, 2 3/4".



3-INCH METERS

DC MILLIAMMETERS

Range MA	Mod. 321-T Round	Mod. 327-T Square	Price Each
0-1	19A1183	20A813	\$7.74
0-5	19A1184	19A1197	6.66
0-10	19A1185	19A1198	6.66
0-15	19A1186	20A814	6.66
0-25	19A1187	19A1199	6.66
0-50	19A1188	20A815	6.66
0-100	19A1189	20A816	6.66
0-150	19A1190	19A1200	6.66
0-200	19A1191	20A817	6.66
0-250	19A1192	19A1201	6.66
0-300	19A1193	20A818	6.66
0-500	19A1194	20A819	6.66
0-750	19A1195	19A1202	6.66
0-1000	19A1196	19A1203	6.66

DC MICROAMMETERS

Range Micro A	Mod. 321-T Round	Mod. 327-T Square	Price Each
0-20	16A766	16A767	\$13.33
0-50	16A768	16A769	10.68
0-100	19A1138	20A823	10.19
0-200	19A1139	20A824	8.72
0-500	16A770	16A771	8.13

DC AMMETERS

Range Amps.	Mod. 321-T Round	Mod. 327-T Square	Price Each
0-1	19A1131	20A820	\$6.66
0-5	19A1132	19A1136	6.66
0-10	19A1133	20A821	6.66
0-25	19A1134	20A822	6.66
0-50	19A1135	19A1137	6.66

R.F. AMMETERS (With Internal Couple)

Range Amps.	Mod. 341-T Round	Mod. 347-T Square	Price Each
0-1	19A1092	20A825	\$7.74
0-2.5	19A1093	20A826	7.74
0-5	19A1094	20A827	7.74

2-INCH METERS

DC MILLIAMMETERS

Range MA	Mod. 221-T Round	Mod. 227-T Square	Price Each
0-1	19A1155	19A1169	\$6.76
0-5	19A1156	19A1170	5.68
0-10	19A1157	19A1171	5.68
0-15	19A1158	19A1172	5.68
0-25	19A1159	19A1173	5.68
0-50	19A1160	19A1174	5.66
0-100	19A1161	19A1175	5.68
0-150	19A1162	19A1176	5.68
0-200	19A1163	19A1177	5.68
0-250	19A1164	19A1178	5.68
0-300	19A1165	19A1179	5.68
0-500	19A1166	19A1180	5.68
0-750	19A1167	19A1181	5.68
0-1000	19A1168	19A1182	5.68

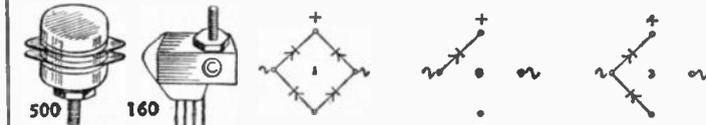
AC VOLTMETERS

Range Volts	Mod. 231-S Round	Mod. 237-S Square	Price Each
0-5	19A1111	19A1117	\$5.68
0-10	19A1112	19A1118	5.68
0-15	19A1113	19A1119	5.68
0-50	19A1114	19A1120	5.68
0-150	19A1115	19A1121	6.76
0-300	19A1116	19A1122	8.33

AC AMMETERS

Range Amps.	Mod. 231-S Round	Mod. 237-S Square	Price Each
0-1	19A1095	19A1100	\$5.68
0-3	19A1096	19A1101	5.68
0-10	19A1097	19A1102	5.68
0-25	19A1098	19A1103	5.68
0-50	19A1099	19A1104	5.68

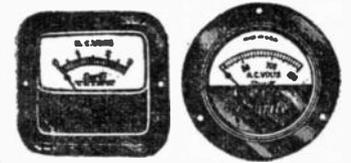
CONANT INSTRUMENT RECTIFIERS



For meters, relays and other apparatus requiring DC output current where the frequency of the AC source extends into the audio range. Series 500 is recommended up to 50,000 cps. in circuits requiring over 1 ma. Disc dia., .500". Series 160 is recommended where linear response is required over entire commercial and audio range at currents up to 1 ma. Disc dia., .160". Both types have flexible pig tail wire leads and single screw mounting. Circuit 1, full wave bridge; Circuit 2, half wave; Circuit 3, half wave bridge. Output ratings are continuous duty.

Stock No.	Mfr's. Type	Series	Internal Circuit	Output Volts	MA	Price Each
14A629	M	500	1	10	30	\$2.08
16A732	HS	500	1	5	30	1.50
14A631	H	500	2	5	30	1.18
14A630	B	160	1	10	5	2.08
16A733	BHS	160	3	5	5	1.50

SHURITE PANEL METERS



Attractive, well-made, dependable instruments, accurate within 5%. DC meters are polarized-vane solenoid type; AC meters are double vane repulsion type. All have white metal dial with black scale calibrated for use in non-magnetic panel. Cases are black enameled brass, and mount in 2 5/32" dia. hole. Model 550 round flush case instruments are supplied with a 2 3/4" dia. flange adapter ring for optional flush or flange mounting. Model 950 is 2 3/8" square.

DC MILLIAMMETERS

Range MA	Model 550 (with Flange Ring) Round	Model 950 Square	Price Each
0-5	16A736	16A737	\$1.99
0-10	19A209	19A216	1.89
0-15	19A210	19A217	1.49
0-25	19A211	19A218	1.45
0-50	19A212	19A219	1.45
0-100	19A213	19A220	1.45
0-200	19A214	19A221	1.45
0-300	19A215	19A222	1.45
0-500	16A738	16A739	1.40

DC AMMETERS

Range Amps	Model 550 (with Flange Ring) Round	Model 950 Square	Price Each
0-1	16A740	16A741	\$1.45
0-5	19A223	19A227	1.45
0-15	19A224	19A228	1.45
0-25	16A742	16A743	1.74
0-50	16A744	16A745	2.14
10-0-10	19A225	19A229	1.45
30-0-30	19A226	19A230	1.94
50-0-50	16A746	16A747	2.14

DC VOLTMETERS

Range Volts	Model 550 (with Flange Ring) Round	Model 950 Square	Price Each
0-3	19A231	19A235	\$1.45
0-10	19A232	19A236	1.50
0-25	19A233	19A237	1.45
0-50	16A748	16A749	1.50
0-100	16A750	16A751	1.65
0-150	19A234	19A238	1.83

AC VOLTMETERS

Range Volts	Model 550 (with Flange Ring) Round	Model 950 Square	Price Each
0-15	19A245	19A248	\$2.48
0-150	19A246	19A249	3.21
0-300	19A247	19A250	3.80

AC AMMETERS

Range Amps	Model 550 (with Flange Ring) Round	Model 950 Square	Price Each
0-1	16A752	16A753	\$2.48
0-3	19A239	19A242	2.48
0-10	19A240	19A243	2.48
0-30	19A241	19A244	2.63
0-50	16A754	16A755	3.12

AC MILLIAMMETERS

Range MA	Model 550 (with Flange Ring) Round	Model 950 Square	Price Each
0-10	16A756	16A757	\$2.77
0-50	16A758	16A759	2.48
0-100	16A760	16A761	2.48
0-250	16A762	16A763	2.48
0-500	16A764	16A765	2.48

RESISTANCE METERS

Direct reading volt-ohmmeter with 4 1/2-volt DC and 10,000-ohm scales. Requires three 1 1/2-volt cells of any type for resistance measurement. Model 550 with round flush case is supplied with flange ring adapter. Model 950 has square flange case.

Stock No.	Model	Chc. Each
19A251	550 Round	\$1.94
19A252	950 Square	

NOTE: We can supply on special order at regular prices all other types of Triplett or Shurite panel meters.

RELAYS FOR EVERY PURPOSE

ADVANCE COAXIAL RELAYS



For use with 52 or 75 ohm RG Coax Cable. Has 1/4" pure silver SPDT internal contacts supported directly from cable connectors. Housing is aluminum, with end inspection port. Connectors are standard Amphenol 83-R. Max. rating 880 watts at 100 MC. Operates on 110 V. 60 cy. A.C. Size 1 3/8 x 2 7/8 x 3 1/2".

No. 19A268. Advance type 7200. Net Each... **\$8.09**
No. 19A269. Advance Type 7204 with auxiliary 3/16" DPDT external contacts. Net Each... **\$10.03**

ADVANCE Time Delay Relay



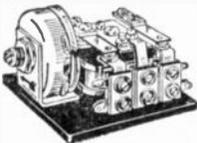
A complete 110 V. A.C. operated DPDT relay with thermostatic control for pre-heating tube filaments. Delay interval adjustable from 10 seconds to 1 minute. Relay has 1/4" silver contacts.

Stock No. 19A166. Type 3048. Net Each... **\$5.50**

THERMOSTAT FOR TIME DELAY RELAY

Same as used in type 3048 assembly above. Operates from 110 V. A.C. Adjustable from 10 seconds to 1 minute. Mounted on statite base. Stock No. 19A167. Net Each... **\$1.29**

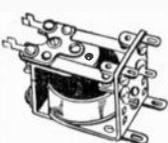
ADVANCE Adjustable Underload Relay



For use in transmitters as a protective device to turn off class "B" modulators when plate current of class "C" stages falls below desired value. Has potentiometer for varying operating point between 150 and 300 MA. Contacts are DPST.

19A260. Type 800A. Each **\$6.57**

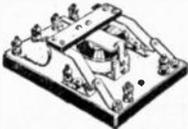
ADVANCE MIDGET ANTENNA RELAY For 300-Ohm Line



DPDT contacts. For RF switching up to 500 watts. Maintains proper line spacing throughout. Has solder lug terminals and silicone glass insulation. Coil operates on AC. Size overall, 1 7/8 x 1 1/2 x 1 9/16" high.

No. 16A718. Net Each... **\$2.65**

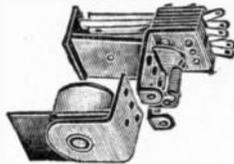
D.P.D.T. Antenna Relay



For any RF or power circuit requiring a high quality well insulated relay. Contacts are 1/4" pure silver. Base plate and contact carrying bar are mycalex. Operates quietly on 110-volt AC. Size overall, 3 9/16 x 2 13/16 x 1 11/16".

Stock No. 17A731. Auto Elec. Mfg. Type R51. Net Each... **\$4.70**

GUARDIAN GENERAL PURPOSE RELAYS SERIES "200" WITH INTERCHANGEABLE COILS & CONTACTS



Relay frame includes armature and either SPDT or DPDT contact assembly. Design allows quick installation or change of actuating coil. Contacts are fine silver rated at 8 amps. 115-volt 60-cycle non-inductive load except type 200-4 which is rated at 12.5 amps. Assembled size using Standard Frame, 1 3/4 x 2 1/8 x 1 1/8"; size using Midget Frame, 1 1/2 x 2 1/16 x 1 1/8".

STANDARD FRAME AND CONTACTS

No. 19A40. Type 200-1 SPDT... **\$1.08**
No. 19A41. Type 200-2 DPDT... **1.47**
No. 14A303. Type 200-4 DPDT... **1.71**

60-CYCLE AC COILS

No.	Volts	Net Each
No. 19A31.	6 Volts	\$1.32
No. 19A32.	12 Volts	1.32
No. 19A33.	24 Volts	1.32
No. 19A34.	115 Volts	1.65

MIDGET FRAME AND CONTACTS

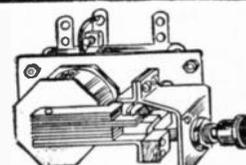
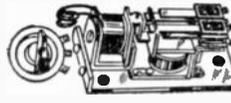
No. 14A301. 200-M1 SPDT... **\$1.00**
No. 14A302. 200-M2 DPDT... **1.32**

DC COILS

No.	Volts	Net Each
No. 19A35.	6 Volts	\$1.32
No. 19A36.	12 Volts	1.32
No. 19A37.	24 Volts	1.32
No. 19A38.	32 Volts	1.32
No. 19A39.	110 Volts	1.65
No. 14A300.	5000 Ohms	1.71

BUILD YOUR OWN CONTACT COMBINATION

Fits above type 200 relays. Consists of contact springs and spacers to make any combination up to 4 P.D.T. To be used with standard size frame, armature and coils above. No. 19A42. COMPLETE KIT, AT ONLY... **\$1.09**



1 GUARDIAN KEYING RELAY

Will follow key or bug at high speed. Double break S.P. contacts can handle up to 5000 watts, non-inductive load. Will key center tap of any stage using up to 2000 volts or grid controlled rectifier handling up to 3000 volts. Coil operates on 6-volt AC. Size, 3 x 1 1/2 x 1 15/16" high. Stock No. 19A157. Guardian K-320. EACH... **\$2.65**

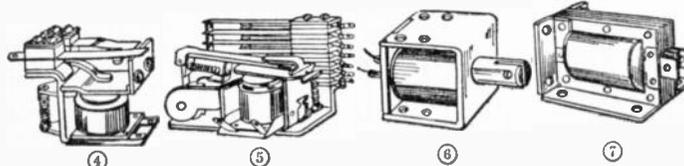
2 ADJUSTABLE OVERLOAD RELAY WITH ELECTRICAL RESET

Operating current can be adjusted from 250 to 600 MA by front panel control potentiometer. Voltage drop across coil is never more than 10-volt. Coil insulation to ground 3000-volt. Has S.P.S.T. contacts for breaking power circuit to transformer primary and S.P.D.T. auxiliary contacts for pilot light indicators. Reset coil is energized momentarily from 6-volt AC to restore power circuit. Size, 4 3/4 x 1 15/16 x 2" high. Stock No. 19A158. Guardian X-300-ER. EACH... **\$5.44**

3 ADJUSTABLE OVERLOAD RELAY WITH MANUAL RESET

Contact rated 1 kw. on inductive loads. Mounts on rear of panel with reset button extending through. Adjustable, to operate at loads of 150 to 650 MA. Stock No. 19A51. Guardian X-100. NET EACH... **\$8.40**

"GUARDIAN" HIGH FREQUENCY RELAYS ALSIMAG INSULATED



4 For use in R.F. or high voltage circuits where leakage and loss must be kept at minimum. Large silver contacts handle 1 kw. at frequencies up to 28 MC. 110-volt AC coils. No. 19A48. Type R-100—SPST. YOUR COST... **\$2.32**

Type R-100C—DPDT handles 400 watts at 14 MC. No. 14A306. YOUR COST... **\$5.03**

GUARDIAN IMPULSE RELAY

5 Heavy 1/4" Silver Contacts. Coils for 110-volt AC. Coil circuits need to be energized only long enough to close armature. Contacts lock automatically—each impulse reverses position of contacts. Contacts carry 1,500 watts non-inductive or 1,000 watts inductive loads.

Type RC-100AR—Four-pole, single throw. No. 19A53. YOUR COST... **\$4.21**

Type RC-100BR—Three-pole with one pole D.T. and two poles S.T. No. 19A54. YOUR COST... **\$4.61**

GUARDIAN 115-VOLT 60-CYCLE AC SOLENOIDS

For countless experimental and industrial applications requiring electro-mechanical actuation. Plunger has slotted end with 1/8" diameter hole for coupling.

6 Type 2 Solenoid. Plunger stroke 1"; lift approximately 5 oz.; coil res. 82.4 ohms; coil amps. .39. Frame size, 1 7/16 x 1 5/8 x 1 9/16" long. No. 17A401. YOUR COST... **\$2.06**

7 Type 14 Solenoid. Laminated construction. Plunger stroke 1 1/4"; lift approximately 64 oz.; Coil res. 12.5 ohms; 1 amp. coil current. Frame size, 1 7/8 x 2 1/16 x 2 7/16" long. No. 17B402. YOUR COST... **\$3.97**

POTTER and BRUMFIELD RELAYS

Heavy Duty Power Relays—Type PR With Coils for 110 V. 60 Cy. A.C.

For power circuits, motors, lights, heaters, etc. Double break types PR3A and PR4A rated at 20 amps. All others, .15 a m.p.s. continuous duty. Contacts are 5/16" dia. silver, self-wiping, mounted on floating carrier. Metal parts are heavily plated. Operating coil requires approx. 5 watts, continuous duty, and operates without hum or chatter. Has screw terminals. Max. size 2 9/16 x 2 9/16" by 2 1/4" high. NO—normally open, NC—normally closed, DB—double break.



No. Type Contacts Net Each
16A181 PR3A SPSTDB-NO **\$3.10**
16A182 PR4A SPSTDB-NC **3.15**
16A183 PR5A SPDT **3.20**
16A184 PR7A DPST-NO **3.65**
16A159 PR8A DPST-NC **3.85**
19A160 PR11A DPDT **4.90**

Medium Duty Power Relays Type MR



Very compact. Has full floating locked-on armature for fast, positive action without hum, chatter or sticking. Coils require approx. 4 watts, continuous duty. Contacts are 7/32" dia. silver, rated at 8 amps. on 110 V. A.C. non-inductive load. Wiping motion keeps contacts clean. Max. size 2 15/16 x 2 1/8 x 1 7/8" high.

No. Type Contacts Coil-V. Each
16A185 MR5A SPDT 6AC **2.15**
16A186 MR5A SPDT 110AC **2.15**
16A187 MR11A DPDT 6AC **2.80**
16A188 MR11A DPDT 110AC **2.80**
16A189 MR5D SPDT 6DC **2.15**
16A190 MR11D DPDT 6DC **2.8**

Plate Circuit Relays

Sensitive relays with adjustable spring tension, adjustable release screw, and 3/16" dia. silver contacts rated at 5 amps. on 110 V. A.C. circuits. Min. MA is lowest coil current for satisfactory operation.



Type LM-5 S.P.D.T.
Stock No. Coil Res. Min. Ma. Net Each
16A191 2,500 2.4 **\$2.55**
16A192 5,000 1.7 **2.55**
19A161 10,000 1.2 **2.95**

Type LM-11 D.P.D.T.
19A162 2,500 5.3 **\$3.40**
19A163 5,000 3.7 **3.65**
19A164 10,000 2.7 **4.05**

Type LS-5 S.P.D.T.
Similar to LM series above but less sensitive. Factory adjusted for optimum performance. Insulated mtg. base.
Stock No. Coil Res. Min. Ma. Net Each
16A193 2,500 6 **\$1.90**
16A194 5,000 4.3 **2.20**

AMPERITE Time Delay Relay Tubes

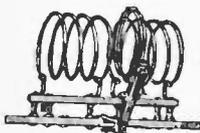
Consists of SPST contacts, normally open, actuated by a bimetal strip and a 2-watt AC or DC heater hermetically sealed in a glass tube envelope with octal base. Heater can be operated continuously. Contact rating 3 amp. 115-volt AC. Delay time can be increased approximately 50% by decreasing heater voltage slightly.



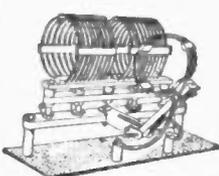
Stk. No. Heater Delay Net Ea.
14A307 2.5 V. 60 Sec. **\$2.35**
20A797 6.3 V. 10 Sec. **2.35**
19A165 6.3 V. 45 Sec. **2.35**
20A798 6.3 V. 60 Sec. **2.35**
20A799 115 V. 10 Sec. **2.35**
20A800 115 V. 30 Sec. **2.35**
20A801 115 V. 60 Sec. **2.35**

LATEST TRANSMITTING COIL and TURRETS

BARKER WILLIAMSON PLUG-IN COILS



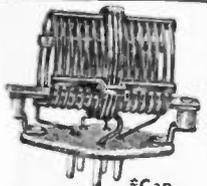
Highly efficient plug-in type air-wound coils with low loss steatite insulation. A suitable type and size is available for all amateur and experimental requirements, together with plug-in bases and swinging link assemblies. Power ratings are conservative. The sturdy design assures stable operation.



FOR UP TO 150 WATTS INPUT			FOR UP TO 500 WATTS INPUT		
End Link—Without Tap Type BEL			Ct. Link—Ct. Tapped Type TCL		
Band	*Cap. Mmfd.	Stock No.	Band	*Cap. Mmfd.	Stock No.
10	21	17A628	10	19	17A612
15	21	17A717	15	21	17A720
20	33	17A629	20	21	17A613
40	36	17A600	40	34	17A614
90	36	17A601	80	35	17A630
160	..	17A809	160	..	17A812
Net Each			Net Each		
\$2.41			\$2.89		
2.48			2.96		
2.48			2.96		
2.83			3.30		
3.16			3.65		
3.44			3.93		
Ct. Link—Ct. Tapped Type BCL			Var. Link—Ct. Tapped Type TVL		
10	20	17A602	10	17	17A631
15	21	17A718	15	22	17A721
20	34	17A603	20	22	17A632
40	37	17A604	40	29	17A633
80	39	17A605	80	39	17A634
160	..	17A810	160	..	17A813
Net Each			Net Each		
\$2.41			\$2.20		
2.48			2.28		
2.48			2.28		
2.83			2.61		
3.16			2.96		
3.44			3.10		
Var. Link—Ct. Tapped Type BVL			JACK BAR ASSEMBLIES		
10	14	17A606	For BEL-BCL For TCL		
15	28	17A719	No. 17A636. No. 17A635.		
20	25	17A607	Each... 85c Each... \$1.25		
40	29	17A608	BASE AND VARIABLE LINK ASSEMBLY		
80	46	17A609	For BVL Coils For TVL Coils		
160	..	17A811	No. 17A611. No. 17A610.		
Net Each			Each		
\$1.93			\$3.44		
2.00			\$5.50		
2.00					
2.28					
2.61					
2.88					

FOR UP TO 1,000 WATTS INPUT		
Ct. Link—Ct. Tapped Type HDCL		
Band	*Cap. Mmfd.	Stock No.
10	20	17A637
15	20	17A722
20	20	17A638
40	20	17A639
80	34	17A640
Net Each		
\$5.85		
6.54		
6.54		
6.88		
7.56		

No. 17A645. Jack Bar assembly for type HDCL inductors. Each \$1.75



B & W JUNIORS 75-WATT RATING

Fitted with standard 5-prong steatite base. Compact, rugged, may be used in the oscillator, buffer or final stage with input power up to 75 watts. Any type may be used in capacity coupled circuits by omitting connections to the links. Steatite or equivalent sockets should be used.

*Cap. to resonance on Low-Frequency end of band.

Band	*Cap. Mmfd.	Type JEL End Link	Type JCL Cent. L	Type JVL Var. L
5	15	17A711	17A713	17A715
10	22	17A615	17A619	17A623
15	22	17A712	17A714	17A716
20	34	17A616	17A620	17A624
40	47	17A617	17A621	17A625
80	60	17A618	17A622	17A626
160	..	17A806	17A807	17A808

YOUR COST, ANY OF ABOVE. NET EACH \$1.38

B & W BABY INDUCTORS

Same as above, except smaller size. Only 1 1/4" dia. x 1 1/2" long. For circuits up to 35 watts.

Band	*Cap. Mmfd.	Type "M" No Link	Type MC Center Tap	Type MEL End Link	Type MCL Center Link
10	30	19A137	19A141	19A145	19A149
20	35	19A138	19A142	19A146	19A150
40	35	19A139	19A143	19A147	19A151
80	50	19A140	19A144	19A148	19A152

YOUR COST, ANY OF ABOVE. NET EACH \$1.04

B & W 5-Band Turrets—For 10-15-20-40-80 Meters



Provides simple, efficient band switching in circuits up to 75 watts. Center or end link types for either push-pull or single ended circuits. Capacity coupling can be used by omitting link connections. Mounts thru panel with single 3/8" hole. 5 position dial plates listed below.

Stock No.	Mfg's. Type	Link	Price
32A258	3810-JTCL	Center	\$9.38
32A259	3811-JTEL	End	9.38

5-BAND BABY TURRETS

Stock No.	Mfg's. Type	Link	Price
32A260	3817-BTCL	Center	8.44
32A261	3816-BTEL	End	8.44

Same as above except coils are smaller in size for use up to 35 watts.

Calibrated 2 1/4" dial plate for use with all turrets above and the band hooper at right.

Stock No. 19A136. NET EACH 25c

BUD AIR-WOUND PLUG-IN COILS



(A)

Precision built coils firmly supported on a steatite strip fitted with banana plugs. All coils are center tapped. Adjustable link, (Illus. A) provides the efficiency of link adjustment at no additional cost.

Variable link, (Illus. B) has link winding on mounting base into which coils are plugged. One link serves all bands. Shaft may be extended for panel control. *Capacity for resonance at low frequency end.



(B)

RCL 150-Watt—Adj. Center Link				RLS 150-Watt—Variable Link			
Stock No.	Band	*Cap. Mmfd.	Net Ea.	Stock No.	Band	*Cap. Mmfd.	Net Ea.
17A294	80	68	\$3.38	17A299	80	78	\$2.79
17A295	40	36	3.03	17A300	40	38	2.41
17A296	20	27	2.73	17A301	20	30	2.15
17A705	15	27	2.70	17A706	15	30	2.15
17A297	10	25	2.59	17A302	10	28	2.03
17A298	Mtg. base for above .83			17A303	Mtg. base and link 2.94		
VCL 500-Watt—Adj. Center Link				VLS 500-Watt—Variable Link			
17A322	80	71	\$3.88	17A332	80	70	\$3.15
17A323	40	26	3.56	17A333	40	36	2.79
17A324	20	21	3.23	17A334	20	28	2.44
17A707	15	23	3.21	17A708	15	25	2.41
17A325	10	26	3.09	17A335	10	25	2.35
17A326	Mtg. base for above 1.03			17A315	Mtg. base and link 4.88		
MCL 1,000-Watt—Adj. Center Link				MLS 1,000-Watt—Variable Link			
17A327	80	67	\$7.41	17A316	80	65	\$6.03
17A328	40	38	6.73	17A317	40	37	5.38
17A329	20	23	6.41	17A318	20	33	5.06
17A709	15	30	6.41	17A710	15	30	5.06
17A330	10	25	5.73	17A319	10	25	4.35
17A331	Mtg. base for above 1.37			17A320	Mtg. base and link 5.88		



BUD 75-WATT PLUG-IN COILS

The finest air-inductions. Uniform windings of enameled copper wire rigidly mounted on ceramic 5-prong base which will fit standard 5-prong tube socket. Only center linked coils have main coil center tapped. The end link coil has new variable link feature.

*Capacity necessary to tune to low end of band.

Band	OCL Ctr. Link	OES Adj. End L	OLS Ctr. L	*Cap. Mmfd.	Price
80	17A151	17A156	17A161	75	\$1.35
40	17A152	17A157	17A162	52	1.35
20	17A153	17A158	17A163	40	1.35
10	17A154	17A159	17A164	25	1.29
6	17A155	.....	.....	17	1.06

NEW B & W PLUG-IN LINKS

Designed for addition to existing swinging link assemblies for better transmission line impedance matching. Requires new plug-in swinging arm to replace standard type on coil jack bar.

No. 17A800. Type 3550 Plug-in arm for Type TVH, TVL and BVL swinging link assemblies. **68c**

YOUR COST, EACH

No. 17A801. Type 3750 Plug-in arm for HDV swinging link assembly. **\$1.37**

YOUR COST, EACH



COILS FOR TYPE 3550 ARM				COILS FOR TYPE 3750 ARM			
Stk. No.	Turns	Type	Each	Stk. No.	Turns	Type	Each
17A802	1	3551	\$0.59	17A496	1	3751	\$1.23
17A803	3	3553	.59	17A493	3	3753	1.23
17A804	6	3556	.59	17A494	6	3756	1.23
17A805	10	3560	.93	17A495	10	3760	1.72

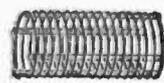
B & W "BAND HOPPER" Type 2A

Provides a compact panel controlled unit to use for interstage coupling between two beam power tubes or between beam power tubes and triodes. Covers 80, 40, 20, 15 and 10 meter bands. A 50 mmf. tuning capacitor is recommended for use with it. No. 17A627. Your Cost, Net Each \$4.81



B & W STANDARD and MININDUCTORS

Very Neat Miniature Coils, 1/2" to 3/4" dia., 2" long; also 1" dia., 3" long. "Air-Wound" construction for very efficient operation as tank coils, RF chokes, etc. Easily cut to required length. Larger Standard coils are listed below with description and size.



Stock No.	Turns	Coil Dia.	Price	Stock No.	Turns	Coil Dia.	Price
17A1076	4	1/2".....	31c	17A1084	4	3/4"....	44c
17A1077	8			17A1085	8		
17A1078	16			17A1086	16		
17A1079	32			17A1087	32		
17A1080	4	5/8".....	37c	17A1088	4	1".....	50c
17A1081	8			17A1089	8		
17A1082	16			17A1090	16		
17A1083	32			17A1091	32		

STANDARD INDUCTORS

Stock No.	Length	Wire	Price
17B1160	6 2 1/2"	#12 Enamel Wire	Choice, Each \$1.50
17B1161	8 2 1/2"	#14 Enamel Wire	
17B1162	10 2"	#16 Enamel Wire	

TRANSMITTING and SPECIAL PURPOSE CONDENSERS

BUD XMITTING TYPE



Ideally suited for low and medium power transmitters. Has low minimum capacity. Spring brass rotor contact. Plates are brass with rounded edges and cadmium plated. Frame provides for chassis or panel mtg. and coil assembly mtg. Panel space only 2 3/4 x 2 7/8".

*For .015 air gap peak voltage = 2000, .078 = 3600 and .175 = 5900.

Stk. No.	Mfg. No.	Max. Mmf.	Min. Mmf.	Air Gap	Net Each
17A128	1526	100	7	.051	\$2.20
17A130	1530	25	4	.078	1.91
17A134	1534	110	10	.078	2.70
17A135	1535	150	11	.078	3.16
17A139	1545	55	13	.175	3.47
17A140	1547	100	18	.175	4.61

DUAL SECTION CONDENSERS

The rods are insulated with steatite. Has four finger wiper contact at center of rotor shaft provide perfect balance between sections. Other features are the same as the single units described above.

Stk. No.	Mfg. No.	Max. Mmf.	Min. Mmf.	Air Gap	Net Each
17A308	1551A	50	5	.051	\$3.58
17A309	1553A	100	7	.051	4.07
17A311	1572A	55	8	.078	4.36
17A312	1561A	110	10	.078	5.00
17A314	1567A	40	11	.175	5.14

BUD MC MIDGET TYPE

The popular high quality steatite insulated midget condenser. Stable two bearing design, 1/4" shaft extends 1" to the front and also 5/16" to rear for gang- ing. Has cadmium plated brass plates. Mounts on base or with single hole through the panel. Air gap .024".

*Semi-circular plates (straight line capacity) all others are mid line plates (straight line wave length).

Stk. No.	Type	Max. Mfd.	Min. Mfd.	Net Each
17A58*	1850	15	3	\$1.23
17A59*	1852	33	4	1.32
17A60*	1853	50	5	1.57
17A78	903	50	6	1.64
17A62	904	75	7	1.71
17A63*	1855	100	7	1.71
17A64	905	100	7	1.84
17A66	906	140	7	2.11
17A65*	1856	140	7	1.96
17A67	908	190	9	2.21
17A68	909	250	11	2.40
17A69	910	300	13	2.69

MC DUAL CONDENSERS

Stk. No.	Type	Max. Mfd.	Min. Mfd.	Net Each
17A1146	929A	50	5	\$2.65
17A1147	911A	100	6	2.99
17A1148	912A	140	7	3.23

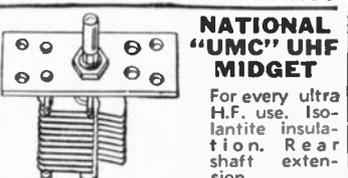
BUD MIDGETS

Single bearing type; wiping spring contact on rotor, mounts in 7/16" hole. Electro soldered semi-circular plates. Ceramic insulated. Double spaced units. .06" air gap, others .024".

Stk. No.	Type	Max. Mfd.	Min. Mfd.	Net Each
17A51	MC1870	15	3	\$0.88
17A52	MC1872	33	4	.98
17A53	MC1873	50	5	1.08
17A54	MC1875	100	7	1.23
17A55	MC1876	140	8	1.37

DOUBLE SPACED

Stk. No.	Type	Max. Mfd.	Min. Mfd.	Net Each
17A56	MC1880	35	5	\$1.23
17A57	MC1881	50	7	1.37

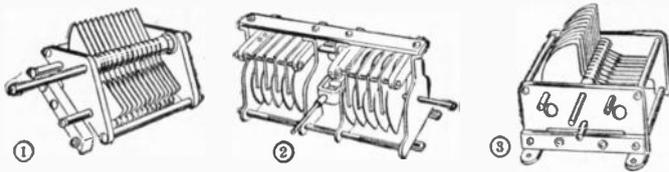


NATIONAL "UMC" UHF MIDGET

For every ultra H.F. use. Isolantite insulation. Rear shaft extension.

No.	Type	Max. Mmf.	Min. Mmf.	Net Each
No. 17A118.	15 mfm.	.....	.....	\$1.02
No. 17A119.	35 mfm.	.....	.....	1.15
No. 17A120.	50 mfm.	.....	.....	1.25
No. 17A121.	75 mfm.	.....	.....	1.45

NATIONAL TRANSMITTING CONDENSERS



① Type TMS and TMSA

Compact transmitting condenser designed for low power stages. Voltage ratings are conservative, has steatite insulation. Mounts on chassis or panel. All types are 3" long and 2 1/2" wide.

① TMS—Spacing, .026; Peak Voltage, 1000

Stk. No.	Mfg. No.	Max. Mmf.	Min. Mmf.	Net Each
17A101	TMS-100	100	9.5	\$2.60
17A102	TMS-150	150	11	2.80
17A103	TMS-250	250	13.5	3.30
17A104	TMS-300	300	15	3.80

TMS Duals (Cap. given per section)

Stk. No.	Mfg. No.	Max. Mmf.	Min. Mmf.	Net Each
17A105	TMS-50D	50	6	\$3.00
17A106	TMS-100D	100	7	3.20

② Type TMSA—Spacing, .065; Peak Voltage, 2000

Stk. No.	Mfg. No.	Max. Mmf.	Min. Mmf.	Net Each
17A107	TMSA-35	35	8	\$3.90
17A108	TMSA-50	50	11	4.40

TMSA Dual (Cap. given per section)

Stk. No.	Mfg. No.	Max. Mmf.	Min. Mmf.	Net Each
17A109	50D	50	10.5	4.40

③ Type TMC

Designed for use in power stages of transmitters where peak voltage does not exceed 3000 volts. Extremely rigid frame for panel or chassis mounting. Has smooth aluminum plates with rounded edges. All types are 3 9/16" wide, 3 3/8" high, .077" air gap.

③ TYPE TMC SINGLE SECTION

Stk. No.	Mfg. No.	Max. Mmf.	Min. Mmf.	Net Each
17A110	TMC-50	50	10	\$3.60
17A111	TMC-100	100	13	4.25
17A112	TMC-150	150	17	5.25
17A113	TMC-250	250	23	5.70
17A114	TMC-300	300	25	6.10

TMC—Duals (Cap. given per section)

Stk. No.	Mfg. No.	Max. Mmf.	Min. Mmf.	Net Each
17A115	TMC-50D	50	9	\$4.35
17A116	TMC-100D	100	11	5.95
17A117	TMC-200D	200	18.5	7.25

③ TMA Single Section

Same general design as TMC but larger size. Air gap for TMA-50 and 100A is .171 (600-volt peak). TMA-100B is .265 (9000-volt peak). Ideal for power stages. Steady aluminum frame construction. Steadily insulation. Has heavy rounded edge aluminum plates. Mounts on chassis or panel. All are 4 3/4" wide and 4 9/16" high. *Cap. per section.

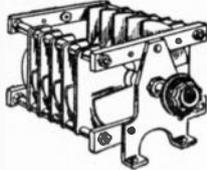
③ Type TMA Single Section

Stk. No.	Mfg. No.	Max. Mmf.	Min. Mmf.	Net Each
16A705	TMA-50A	50	15	\$4.95
16A706	TMA-100A	100	19.5	5.85
16A707	TMA-100B	100	30	8.50

Type TMA—Dual Spacing, .155

Stk. No.	Mfg. No.	Max. Mmf.	Min. Mmf.	Net Each
16A708	TMA-50DA	50	12.5	6.75
16A709	TMA-100DA	100	17	8.75

B & W TYPE CX BUTTERFLY CONDENSERS



Compact heavy duty condensers for medium and high power. The balanced butterfly design permits mounting the tank coil directly to the frame, thereby reducing the RF circuit path and greatly increasing the efficiency. The plates are 1/16" thick. Rounded and buffed to a smooth finish. Low loss steatite insulation is used. A 3/8" shaft extends approximately 2 3/16" from front plate. Rear plate has provision for mounting adjustable neutralizing condensers listed below with other accessory items including jack bars, vacuum capacitor brackets. For example to assemble a KW final on 10-20 and 40 use CX49A Condenser, 32A267 H.D. Jack bar and swinging link assembly with #3913 mounting brackets, HDVL coils from listing on opposite page and necessary neutralizing plates listed below. *Capacity with sections in series.

Stk. No.	Type	Max. Mmf.	Min. Mmf.	Air Gap	Length	Each
32A262	CX30A	18	10	.5"	6 13/16"	\$17.59
37A83	CX49A	28	14	.5"	9 1/16"	22.08
32A263	CX45B	28	12	.375"	7 1/16"	19.34
32A264	CX30C	18	8	.25"	4 15/16"	14.56
32A265	CX78C	42	12	.25"	6 13/16"	20.97

ACCESSORIES

32A267.	H.D. Jack bar & swinging link assembly #3722-1.	Each....	\$6.25
32A266.	T.V.H. Jack bar & swinging link assembly #3507-1.	Each....	5.31
19A153.	Brackets for mtg. H.D. Jack bar on CX frame #3913.	Pair....	4.66
19A154.	N2 Neutralizing plates for 35T-80B, RK35-852, etc.	Pair....	4.66
19A155.	N3 Neut. plates for TZ40, 810, 812, 100TH, 250TH, etc.	Pair....	4.66
19B6.	N4 Neutralizing plates for 838, 805, T200, etc.	Per Pair....	4.66
19A156.	Single vacuum capacitor mount 3930-1.	Each.....	1.85

B & W TYPE JCX BUTTERFLY CONDENSERS

This small butterfly condenser is like the larger CX in most respects but is only 1/4 as large. It will provide peak efficiency in medium power stage where a peak of 1,500 volts is used. It has steel 1/4" shaft and tie rods, smoothly rounded aluminum plates and high quality insulation. *Cap. sections in series.

Stk. No.	Mfg. No.	*Max. Mmf.	*Min. Mmf.	Length	Price
19A133	JCX100E	50	15	5 1/2"	\$9.00
19A134	JCX50E	25	10	3 3/8"	6.75
19A135	JCX25E	16	8	2 3/4"	6.50

JOHNSON DUAL VARIABLES for HIGH POWER

Sturdily constructed of the finest materials—heavy aluminum plates .05 thick, steatite insulation, large laminated phosphor bronze spring contacts to center of rotor, 5/16" diameter aluminum tie rods and 1/4" stainless steel shafts. Width 5 1/2", height 5 13/32". Capacity given per section.

Stock No.	Max. Mmf.	Min. Mmf.	Air Gap	Approx. Lgth.	Net Each
33A95	52	15	.175	6"	\$7.35
33A96	97	22	.175	10"	9.41
33A97	52	19	.250	10"	8.63
33A98	97	30	.250	15"	11.47

Stock No.	Max. Mmf.	Min. Mmf.	Air Gap	Approx. Lgth.	Net Each
33A57	147	30	.250	12"	14.70
33A56	66	21	.350	15"	11.32
33A55	51	24	.500	15"	11.76

JOHNSON SUBMIDGETS



Sub-midget size. Alsimag end plate only 5/8 x 3/4". Depth behind panel 45/64" to 1 11/64". All have 3/16" dia. slotted shaft extending 1/4" from bushing and mount in 1/4" hole. Bushing length 7/32". Has beryllium upper rotor contact and rigidly soldered rotor and stator assemblies. Plate spacing .017, rating 750-Volt R.M.S.

SINGLE SECTION

Stock No.	Mfg. No.	Cap. Min.	Per Sec. Min.	Mfg. No.	Net Each
14A311	160-102	1.5	5.1	LC1659	\$0.94
14A312	160-104	1.7	8.7	LC1660	1.00
14A313	160-107	2.1	14.6	LC1661	1.09
14A314	160-110	2.6	19.7	LC1662	1.18

BUTTERFLY

Stk. No.	Mfg. No.	Cap. Min.	Per Sec. Min.	Mfg. No.	Net Each
14A315	160-203	1.7	3.3	LC1845	1.35
14A316	160-205	2.1	5.3	LC1846	1.47
14A317	160-208	2.7	8.5	LC1847	1.71
14A318	160-211	3.2	11.0	LC1848	1.88

BUD TINY MITE CONDENSERS

Available in dual and triple section units. Small size, 1 5/16" by 1 3/16". Well suited for ultra-high frequency circuits where good stability is required and space is limited. Rigid frame with ceramic insulation, has brass plates, spring rotor ground connections, and a separate shield between each section. 1/4" shaft. Mounts on base or through panel.

DUAL SECTION TINY MITE AIR CAP .017

Stock No.	Cap. Max.	Per Sec. Min.	Mfg. No.	Net Each
16A710	8	2.5	LC1659	\$2.11
16A711	15	3	LC1660	2.30
16A712	25	4	LC1661	2.55
16A713	50	6	LC1662	2.67
16A714	100	9	LC1663	2.89

TRIPLE SECTION TINY MITE OVERALL LENGTH 3 3/8"

Stock No.	Cap. Max.	Per Sec. Min.	Mfg. No.	Net Each
14A308	11	5	LC1845	\$2.94
14A309	17	5	LC1846	3.14
14A310	25	6	LC1847	3.38

HAMMARLUND "HF" MICROS

Very efficient in tuning or trimming critical high frequency circuits. Heavily plated plates. Isolantite insulation. Equipped with special wide front bearing. Plate spacing .015. *Have plate spacing of .045. Overall size, 1 5/16 x 9/32".

Stk. No.	Type	Cap. Per Sec.	Mfg. No.	NET
17A84	HF-15	17.5	2.8	\$1.11
17A85	HF-35	35	3.2	1.17
17A86	HF-50	50	3.7	1.23
17A87	HF-100	100	5.3	1.53
17A88	HF-140	140	6.2	1.74
17A89	*HF-15-X	15	3.6	1.23
17A90	*HF-30-X	30	5.2	1.38

"HFJ" DUAL MICROS

Stk. No.	Type	Cap. Per Sec.	Mfg. No.	NET
17A91	HFD-50	50	5.0	\$3.30
17A92	HFD-100	100	6.0	3.78
17A93	HFD-140	140	7.0	4.20
17A94	*HFD-15-X	16	3.6	3.24
17A95	*HFD-30-X	28.5	5.0	3.60

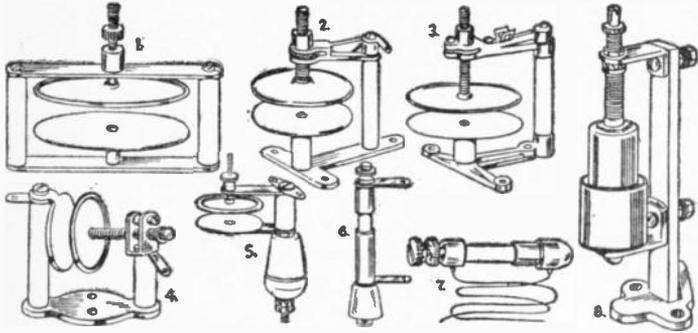
Hammarlund "APC" Micros

Particularly adaptable to S.W. Isolantite base. Air gap .015". Screwdriver adjustment.

Stock No.	Mfr's Type	Max. Mmf.	Min. Mmf.	NET EACH
17A79	APC-25	25	3.0	\$1.11
17A80	APC-50	50	3.9	1

CRYSTALS—NEUTRALIZING CONDENSERS—R. F. CHOKES

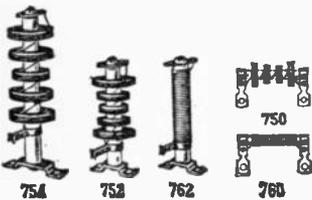
NEUTRALIZING CONDENSERS



- ① **BUD NC-1002.** For large transmitting tubes. Max. capacity 27 mmfd., min. 6 mmfd. Plate dia. 4 3/4". Aluminum and steatite construction. No. 17A576. **\$4.46**
Net Each.....
- ② **NATIONAL NC800A.** Disc type for high voltage. Micrometer adjustment with lock nut. Low-loss Isolantite insulation. Three-hole mounting bracket. For type 808, T40, T35, etc. No. 17A98. **\$3.00**
Net Each.....
- ③ **NATIONAL NC-75.** For 75T, 811, 812, and similar tubes. Aluminum discs, Isolantite insulation. No. 17A577. Net Each... **\$3.60**
- ④ **NEW HAMMARLUND NZ 10 Condenser.** A compact neutralizing capacitor providing fine micrometer adjustment and positive locking. 2.3 to 10 mmfd. range for such tubes as 812's, 811's, 8005's, T40's, etc. Smooth rounded aluminum plates, steatite insulators on aluminum base. No. 17A1154. Net Each... **\$3.15**
- ⑤ **BUD FEED-THRU TYPE.** Bud NC852 feed-thru type condenser convenient for Neutralizing 6L6 and other beam

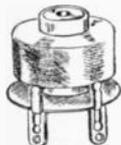
- type tubes with grid connection at the base. 1" plate diameter. Capacity .5 to 6 mmfd. Mounts 5/16" hole. No. 17A96. **98c**
Net Each.....
- ⑥ **BUD NC1928.** Capacity range .75 to 4, very compact. Uses ultra low-loss quartz Q as a dielectric. Mounts single hole or on solder lugs. No. 17A703. Your Cost, Each **54c**
- ⑦ **NATIONAL NC600.** Small neutralizing condenser for use with 6L6's and similar beam power output tubes. Capacity adjustable from .5 to 4 mmfd. Isolantite insulation. Shipping weight, 6 ozs. No. 17A97. Your Cost, Each **32c**
- ⑧ **JOHNSON TYPE N.** Extremely high voltage rating in proportion to size. "Plates" are aluminum cups mounted concentrically on steatite and aluminum frame. Spacing uniform over entire range.
- | Stock No. | MMFD Spac- | Net |
|-----------|--------------------|---------------|
| | ing | Each |
| 17A578 | N125 11 1.1 .125 | \$3.82 |
| 17A579 | N250 10.6 1.4 .250 | 4.41 |
| 17A580 | N375 10.7 1.7 .375 | 5.59 |

JOHNSON R.F. CHOKES



Highly effective chokes made of enameled, silk-covered wire wound on steatite forms and impregnated with high-grade R.F. lacquer. Current ratings may be exceeded for intermittent use. For 1.7 to 30MC except No. 17A1158 and No. 17A1159, which are for UHF.

Stock No.	Type	Ma.	Lgth.	Net Each
17A1155	750	150	1 1/2"	\$1.03
17A1156	752	500	2 1/2"	1.47
17A1157	754	750	4 1/2"	1.76
17A1158	760	250	1 1/2"	.35
17A1159	762	1500	2 7/8"	.68



MEISSNER DELUXE R.F. CHOKES AIR CORE (UNSHIELDED)

Coils wound on specially treated dowels mounted on bakelite base and thoroughly moisture proofed. Single hole mounting.

Stock No.	Meissner No.	Ind.	Net Ea.
12A1431	19-1994	2.5MH	\$.38
12A184	19-4551	5.5MH	.38
12A1432	19-2078	3 MH	.41
12A185	19-8770	10 MH	.44
12A186	19-1995	16 MH	.50
12A187	19-2330	30 MH	.53
12A1433	19-3247	60 MH	.62
12A188	19-2709	80 MH	.65

FAMOUS NATIONAL CHOKES

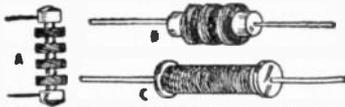


Fig. A. Type R100 RF Choke. Ideal for high freq. circuits. Widely used in receivers and low power stages of transmitters. Has continuous 4-section universal winding on Isolantite form. Distributed capacity is only 1 mmf. 2 1/2 mh., 125 ma., 50 ohm. D.C. inductance.

12A189. Each **35c**
Type R100U. As above but on small stand-off insulator for vertical mounting; has pigtail terminals. **42c**
12A190. Each **35c**
Type R300. Similar to R100. 1 mh., 300 ma., 10 ohm D. C. resistance. **38c**
12A191. Each **38c**

Fig. B. Type R-50. Small size, 1x 1 5/32", 50 MA., 4 section with coaxial leads. **35c**
12A1427 1/2 MH } Choice
16A715 1 MH } Each
12A1428 2 1/2 MH } **35c**
12A1429 10 MH }

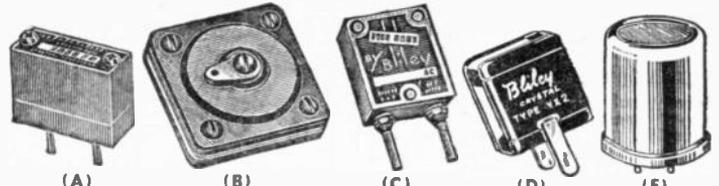
Fig. C. Type R-60. For UHF circuits up to 500 MA. Single layer winding 4 microhenries inductance. Size 1 1/8 x 5/16". **35c**
12A1430. Each **35c**

MEISSNER R.F. CHOKES IRON CORE (UNSHIELDED)

Accurately wound and moisture-proofed. Genuine Ferrocarot iron-cores allow maximum inductance and lower DC resistance. Single hole mtg.

Stock No.	Meissner No.	Ind.	Net Ea.
12A1434	19-6834	2.5MH	\$.56
12A1435	19-6840	10 MH	.71
12A1436	19-6842	30 MH	.82
12A1437	19-6844	60 MH	.94
12A1438	19-6846	80 MH	1.06
12A1439	19-6848	125MH	1.35

BLILEY AMATEUR AND COMMERCIAL CRYSTALS



(A) **TYPE AX2 PLATED CRYSTALS. FIRST FOR AMATEUR FREQUENCIES**
Primary electrodes consist of a micro-thin metal film deposited—almost chemically bonded—directly on major crystal surfaces. Secondary electrodes merely clamp crystal in position and help dissipate heat. Acid etched to frequency to prevent frequency shift with aging. Calibration accuracy within .002%, temperature stability better than .02% between—10° and 60°C. Holder is moisture resistant phenolic with neoprene gasket. Pins are stainless steel spaced 1/2" apart. Size 1 3/8 x 1 3/8 x 23/32".
No. 17A1001. 3,500—4,000KC, within 2KC. Each..... **\$2.80**
No. 17A1000. 7,000—7,425KC, within 2KC. Each..... **2.80**
No. 17A1002. 14,000—14,850KC, within 30KC. Each..... **3.95**

AX2 CRYSTALS FOR 160 METERS

Fits same socket as AX2 crystals for 80-40-20 and is approximately the same size. Accuracy, plus or minus, .002%; frequency stability, plus or minus, .002% per degree C.

We will ship nearest available frequency from stock and within plus or minus 1 KC of specified frequency on special order.

No. 15A131.	1803 to 1822 KC.	\$3.75
No. 15A132.	1878 to 1897 KC.	3.75
No. 15A133.	1903 to 1922 KC.	3.75
No. 15A134.	1978 to 1997 KC.	3.75

TYPE AX2 11 METER MULTIPLIER

15A1095. 13,580-13,715 KC within 30 KC of specified frequency. Each **\$3.95**

TYPE AX3 OVERTONE CRYSTALS

A new Bliley development. Operates at third overtone for crystal control in 6 and 2 meter bands. Calibration accuracy .003% with drift less than .002% per degree. Crystal is plated and holder is similar to AX2 type. Recommended for use with Bliley CCO-2A oscillator. Furnished within 5KC of your specified frequency.

15A1096. 6 Meter Multiplier 25,000-25,500 KC. Choice, Each..... **\$3.95**
15A1097. 2 Meter Multiplier 24,000-24,333 KC. Choice, Each..... **3.95**

(B) **Type SMC-100. Dual frequency crystal provides 100 KC or 1000 KC source, for use in frequency standards. The 1000 KC frequency is correct within 5% and the 100 KC can be adjusted to zero beat. Ideal for alignment of radio receivers. Size 1 3/8 x 1 3/8 x 23/32".**

17A1003. Your Cost, Each **\$8.75**
(C) **Type MC9-3105 KC for private aircraft. Accuracy within .02% between 0° and 50° C. Plug-in type holder gasket is sealed against moisture.**

Stock No. 19A169. Your Cost, Each **\$5.50**
(D) **Type VX2-3105 KC for private aircraft where space is at a premium. Same accuracy as type MC9. Solder lug connections and gasket sealed holder.**

Stock No. 19A170. Your Cost, Each **\$5.00**
(E) **TYPE KV3 100 KC FREQUENCY STANDARD. Crystal is silver plated and spring mounted between supports soldered to plated surfaces. Assembled in metal cased holder that plugs into standard octal socket. Supplied with diagram for constructing a receiver calibration oscillator useful up to 40 MC.**

Stock No. 19A168. Your Cost **\$6.95**
(C) **Crystals for Broadcast. Marine, police and aircraft service can be supplied on special order to the factory. Write us for literature and price quotations stating your requirements.**



MILEN Ceramic Crystal Holder

17A729. 3/4" Spacing .125 pins... **30c**

17A730. .487 Spacing .095 pins... **30c**

Made of low loss plastic with brass pins.

No. 17A728. Adapter 1/2" holder to 3/4" spacing **35c**



Crystal socket of low-loss Amphenol "912A" Polystyrene with phosphor bronze silver plated contacts. Contacts may be removed thru bushing.

and the body used as a two-hole feed thru bushing.

No. 12A355. 3/4" Centers..... **21c**

MOSLEY CRYSTAL HOLDER ADAPTERS

No. 17A738. Adapter for 3/4" holder to 1/2" spacing **35c**

HAMMARLUND BUTTERFLY CONDENSERS



A new butterfly type condenser for use in balanced VHF circuits requiring a great amount of electrical and mechanical stability. All soldered sealed ceramic end plate 3/8" single hole mounting and 1/4" diameter x 7/16" slotted shaft. Rotation from min. to max. capacity 90°. Air gap .030". 1200-volt test. Capacity ratings are for each section. Size, 1 3/8" square, 1" to 1 1/2" deep.

Stock No.	Type	Max.	Min.	Net Ea.
17A1092	BFC-12	14.5	3.5	\$1.50
17A1093	BFC-25	27.5	5.0	1.68
17A1094	BFC-38	40.5	6.3	1.98

OHMITE FREQUENCY RATED R.F. CHOKES

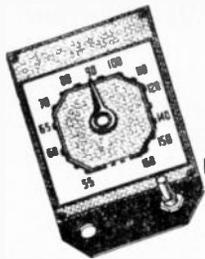


Newly designed single layer wound RF plate chokes for frequency range 3 to 200 Mcs. All are 1000 Ma. except Z14 and Z28 which are 600 Ma. Wound on low loss cores, insulated and moisture proofed. Features small size and excellent results. For correct choke simply select the one covering frequency range desired.

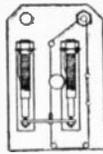
Stock No.	Mfg. No.	Freq. Mcs.	Micro Henry	Net Each
14B11	Z7/Z3	3-20	84.0	92c
14B12	Z14	7-35	44.0	40c
14B13	Z28	20-60	21.0	26c
14B14	Z50	35-110	7.0	19c
14B15	Z144	80-200	1.8	19c

TUNER KITS — SPECIAL COILS — PADDERS

PERMEABILITY TUNERS FOR SUPERHET CIRCUITS TUNING RANGE 540 TO 1600 KC



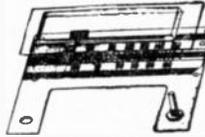
A complete slug-tuned broadcast band R.F. and oscillator coil assembly with dial attached. To be used in place of variable condensers, coils and tuning dial in a superhet circuit. Completely assembled and pretracked at factory. Supplied with diagrams and complete instructions. Dial face finished in gold, buff and brown, with red pointers. For 456 KC IF. Airplane Dial Tuner. Entire assembly 3 1/4" wide, 5" high, extends 1" behind panel. Requires panel cut-out of approximately 3 1/2" square.



Stock No. 17A584. Type A230 Tuner. Net Each..... **\$2.79**

SLIDE-RULE DIAL TUNER

Size over all 6" wide, 4 7/16" high, extends 1 1/2" behind panel. Pointer travel 4". Dial face finished in gold, buff and brown, with red pointers. Supplied with clear acetate window requiring cut-out of approximately 1 1/2" x 4 1/4". For 456 KC. IF.

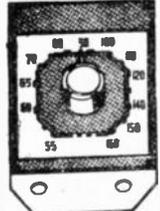


Stock No. 17A585.

Type A210 Tuner. Net Ea. **\$3.97**

REGENERATIVE-TUNER 540-1600 KC

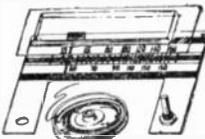
A slick permeability type tuner to take the place of a single gang condenser, coil and tuning dial. Well suited for the experimenter who does not wish to tackle the more complex superhet circuits. Has attractive gold and brown dial and red pointer. Over all size 3 1/4" wide, 4 1/2" high, extends 1 1/2" behind panel. Supplied complete with instructions and diagram.



Stock No. 17A582. Type A260 Tuner. Net Each... **\$1.41**

SLIDE-RULE TUNER for SUPERHET VARIABLE CONDENSER

Supplied with clear acetate window, dial cable, spring and condenser drum. Dial face attractively finished in gold, buff and brown. Pointer travel approximately 5". Over all size 6" wide x 4 7/16" high. For 456 KC. IF.



Stock No. 17A588. Type A-185 Tuner. Net Each **\$1.62**

CHASSIS FOR PERMEABILITY UNITS

Punched for proper mounting of A-230 and A-260 tuners. Has five 1" socket holes and other holes for mounting circuit components. Over-all size 8" long, 4" wide, 1 7/16" deep. (Choice Each No. 17A581. For A-230 or A-260 Tuners. 44c No. 17A410. For A-210 or A-185 Tuners 44c)



F.M. TUNER KIT

Now you can build an F.M. tuner for use on your own radio set and have true static-free reception.

F.M. Dia-Tuner consists of a slug tuned coil assembly with attached dial mechanism, pointer, and attractive gold, buff and brown dial face. High frequency circuits are factory aligned and cover 88 to 108 MC. Furnished with easy-to-build instructions for completing kit.

Stock No. 19A261. Type A275 FM-Dia-Tuner. NET EACH..... **\$4.09**
 Kit of Matched F.M. Coils—To use with Dia-Tuner. Includes High quality F.M. Ratio Discriminator and 2 I.F. transformers, all for 10.7 MC I.F. channel, plus 88-108 MC antenna coupler coil and 4 1/2 micro henry VHF choke—all matched for easy assembly and alignment. **\$8.20**
 Chassis for FM Dia-Tuner—Punched and drilled for tubes, coil mounts, tuning assembly, etc. Size 8x6x1 7/8". **73c**
 Stock No. 19A263. F.M. Kit Chassis Only..... **73c**

MILLEN IF Transformers

De Luxe type as used in Millen factory built equipment. Feature heavy molded end terminal boards, steatite coil forms, rigidly located "down leads", etc. The large size heavy wall extruded aluminum shield cans, high Q condensers and coils result in the overall Q of all transformers being extremely high for their particular type. BFO Units contain the grid condenser and grid leak inside the shield.

AIR TRIMMED IRON CORE
 17A692 1600 Interstage **\$4.50**
 17A693 1600 Diode **4.50**
 17A694 1600 BFO AIR CORE **4.50**

PERMEABILITY TUNED
 17A695 456 Interstage **\$2.85**
 17A696 456 Diode **2.85**
 17A697 456 BFO **2.85**

MILLEN Tunable Coil Form

Standard octal base of low-loss mica-filled Bakelite, polystyrene 1/2" dia. coil form, heavy aluminum shield, iron tuning slug of high frequency type, suitable for use up to 35 mc. Adjusting screw protrudes thru center hole of standard octal socket.

17A698, With Iron Core **\$1.85**
 17A699, Less Iron Core **\$1.50**

MILLEN SLUG TUNED UHF COIL FORM

A steatite form 7/16" dia., 1/4" long with tuning slug adjustable from top or bottom. Mounts in 5/16" hole.

No. 15A1110. Millen Type 69041. Each **75c**

NATIONAL XR-50 COIL FORM

Mica filled bakelite permeability tuned coil form, using iron slug. Coil winding space 11/16", diameter 1/2". This small size coil form is particularly adapted to UHF circuits where space is limited and extreme stability and high efficiency is required.



No. 16A716. Net Each..... **90c**

RIBBED COIL FORMS

Molded of amber colored, low loss bakelite. Ribbed shape holds winding away from form and increases efficiency of coil. Winding space approximately 2 1/2". All have flanged top and pins to fit standard tube sockets.



Diam. 4 Prong 5 Prong 6 Prong Each
 1 3/4" 12A197 12A198 12A199 **27c**
 1 1/2" 12A194 12A195 12A196 **35c**

MILLEN COIL FORMS

① Made of low loss mica base phenolic. Supplied less prongs for permanent mounting or with prongs to fit standard tube sockets. Dia. 1x1 5/8" long.

No. 17A1107. Less prongs. 45000 **35c**

No. 17A1108. 4-prong. 45004 **45c**

No. 17A1109. 5-prong. 45005 **45c**

② Isolantite plug base for mounting air wound coils.
 15A127. 4-prong base. 40104... **30c**
 15A128. 5-prong base. 40105... **30c**



AMPHENOL COIL FORMS



Made from Amphenol 912 "A" Polystyrene. Losses are practically zero. Coils wound on these forms are superior to air wound coils because dirt cannot get between windings and lower "Q" of coil.

"A"—1 1/4" dia. x 2 1/4" long plug-in forms to fit standard tube sockets.

12A201. 4 Prong **36c**
 12A202. 5 Prong **39c**
 12A203. 6 Prong **43c**

"B"—Miniature plug-in forms (3/4" dia. x 1 9/16" long) for use with No. 19A131 and No. 19A132 sockets listed below.

12A204. 5 Prong **28c**
 12A205. 6 Prong **28c**

"C"—Miniature form for mtg. directly on wave band switch, tuning condenser or chassis. Has raised hole in center of base for self-tapping screw.

12A200. Each **11c**

Liquid "912" Coil Dope
 To impregnate wound coils, etc.
 12A206. 4 oz. bottle **38c**

MICA FILLED SOCKETS
 For miniature plug-in coil form above.

19A131. 78-55ST, 5-prong..... **16c**
 19A132. 78-56ST, 6-prong..... **16c**

Short Wave & Broadcast

Plug-In



Coil Kits

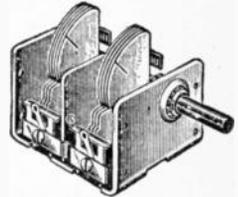
Space wound on 1 3/4" dia. ribbed bakelite forms that plug into standard 4-prong tube sockets. Windings are standard for regenerative circuits and tune with 140 or 150 mmfd. condenser.

Set of Four Short Wave Coils. Tune 9 1/2 to 217 meters. **\$1.85**
 17A291. Your Cost

Set of Two Broadcast Coils. Tune 190 to 550 meters. **\$1.47**
 17B293. Your Cost

Semi-Midget Condenser

Latest mechanical design with ball bearing rotors, heavy brass rotor contact springs, and 1/4" dia. shaft. Precision made throughout.



SINGLE GANG
 (3 3/16" W., 2 3/4" H., 2 7/16" L.)
 Capacity **EACH**
 Stock No. 19A1211 135 Mmfd. **\$1.76**
 19A1212 365 Mmfd. **1.76**

TWO GANG
 (1 13/16" W., 2" H., 3 3/16" L.)
 Cap. Each Sect. **EACH**
 Stock No. 19A1213 135 Mmfd. **\$2.06**
 19A1214 365 Mmfd. **2.06**

THREE GANG
 (1 13/16" W., 2" H., 4 3/16" L.)
 19A1215 135 Mmfd. **\$2.65**
 19A1216 365 Mmfd. **2.65**

MICA TRIMMER AND PADDER CONDENSERS

With low loss ceramic base and clear India Kuby mica dielectric. Solder lugs can be bent to any position desired.



Stock No.	MMFD.	Net Each
17A77	30	18c
15A1527	180	24c
15A1524	280	26c
15A1526	480	32c
15A1525	780	41c

Dual Ceramic, mica insulated type with steatite base. Plates are phosphor bronze, tin plated. Size 1 5/16" square.



15A1514. 85-60 Mmf. Each... **41c**
 15A1515. 185-120 Mmf. Each... **44c**
 15A1516. 200-170 Mmf. Each... **44c**
 15A1517. 350-275 Mmf. Each... **47c**

Padder type adjustable mica condensers. Ceramic base, shaped to protect edges of mica dielectric. Plated phosphor bronze adjusting plates. Single hole mtg., adjustable from top or bottom.

Stock No.	Mmfd.	Net Each
15A1521	115	29c
15A1522	315	32c
15A1523	1050	41c

MORRIS COIL WINDER

Pays for Itself. Factory Accuracy. Winds honey combs, spiderwebs, solenoids, etc., in various widths, diameters and gauges of wire. Recorder and pointer show number of turns.



No. 16A245. Net Each..... **\$4.95**

RADIO and INSTRUMENT DIALS

POPULAR DIALS



(A) **NATIONAL TYPE R** — Neat etched silver dial as used on HRO receivers. Marked 0-10 over 180° clockwise. 12A13. Net Each... **60c**

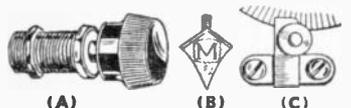
(B) **ICA**. Chrome silver dial with black etched numerals. With finger grip black knob. Marked 10-0-180°. 12A15. Net Each... **50c**



(A) **NATIONAL TYPE O**. Attractive circular-grained Nickel Silver. Reads 0-100 over 180° cc. Large fluted finger grip knob. 12A16. Net Each... **\$1.00**

(B) **MILLEN Heavy Gauge Nickel-Silver** 0 to 100 cc. Large bakelite hub insulates metal scale from shaft. 12A17. Net Each... **\$1.00**

DIAL ACCESSORIES



(A) **ODD**. National Vernier pinch type drive for type O dial above or any similar plain dial. 12A18. Net Each... **42c**

(B) **10021**. Millen index unit, a dial position marker for use with any dial. Mounts through panel. 15c

(C) **ODL**. National dial lock. 12A19. Net Each... **33c**

NEW NATIONAL KNOBS



National Type HRS control knobs. Grey plastic with 1 3/8" dia. chrome plated skirt. All for 1/4" shaft. 15A1099. "ON-OFF". 300° rotation. 15A1100. 5-0-5. 180° rotation. 15A1101. 0-10. 300° rotation. **50c**

Choice, Each.....

National Type HRT tuning knob. Grey plastic with bright trim circle. Dia. 2 1/8". Fits 1/4" shaft. **75c**

No. 15A1098. Each.....

BAR KNOB. HRP-P, as used on HRO dial. 1 1/4 x 1/2" with pointer. Black. No. 12A14. Net Each... **24c**

Vernier INDICATOR DIALS



Beautiful chrome silver. Etcho-Engraved with black numerals and calibrations. With marker and hardware. 0 to 100-180°.

12A18. 2 3/4". Net Each... **\$1.23**

12A19. 4". Net Each... **\$1.62**

RIGHT ANGLE DRIVE



NATIONAL ACD-1. A sturdy, smooth operating drive for condensers, etc., with 1/4" shafts. Simple, compact design, with cast frame and bronze gears. Easy to mount. Frame 1 1/16" wide, overall length 4 1/2". 1/4" drive shaft. No. 17B741. EACH... **\$3.75**

NATIONAL TYPE ACN



An ideal instrument dial for test and lab needs. Uses Velvet Vernier drive unit, with 3 blank removable scales. Holes in pointer for making calibration points. Size 5x7 1/4". No. 12A21. Net Each... **\$3.30**

TYPE SCN

Essentially the same as ACN dial but smaller size, 4 7/16x6 1/4" and has new HRT knob. No. 14A776. Net Each... **\$3.00**

TYPE MCN

Scaled down from the SCN to 2 3/4" high x 3 3/8" wide. On rear side the mechanism extends 1/4" below dial frame. Mounts nicely on 3/2" rack panel. No. 14A777. NET EACH. **\$2.70**

TYPE ICN DIAL



Provides even illumination on all bands by means of special dial window and two pilot lamps. Scales are same as used on ACN dial. Size overall 5 1/8 x 7 1/4". No. 14A778. Net Each... **\$6.00**

MILLEN Panel Marking Kit

Kit consists of 1/8" block letters and special solution for easy transfer to smooth or wrinkle finish panels or chassis. Ample supply of every conceivable word or marking. 17A701. White Letter Kit... **\$1.25**

14A779. Black Letter Kit... **1.25**

MILLEN MIDGET DIAL



Type 10039. Calibrated 0-100 plus 5 blank scales, size only 4x3 1/4". Has completely enclosed 8 to 1 ratio tuning mechanism and attractive dull black enamel finish. No. 17A646. Your Cost, Each... **\$2.70**

MILLEN PANEL DIAL

A combination panel dial. Drive ratio 8-1. Escutcheon size 8 1/4 x 6 1/2". Holes may be drilled to add two small controls as illustrated. Fine black wrinkle finish. Escutcheon for scale calibration. 17A702. Your Cost, Each... **\$6.00**

Tekni-Cal Panel Marking Sets

Provides set builders, amateurs and manufacturers with a permanent inexpensive means of marking panels with titles and dials. A special lacquer base decal which works perfectly on any surface. Each set contains over 1,000 markings, dial set contains 50. All are white except a group of gold ones in receiver and television sets. Stk. No. 20B72 Oscilloscope Set 20B73 Audio Set 20B74 Television Set 20B75 Dials Set 20B76 Transmitter Set 20B77 Receiver Set 20B78 Instrument Set

CHOICE, EACH \$1.35

TRANSFER TYPE TITLE PLATES

For marking controls on transmitters, receivers, amplifiers, etc. Each sheet contains approximately 145 separate markers. Lettering is jet black on rich gold. No. 17A739. Series 1 Techniplat. Per Sheet... **60c**

CROFLEX SLIDE-RULE DIALS BRONZE ESCUTCHEONS, BEAUTIFUL EDGE LIGHTED GLASS SCALES The Most Flexible Tuning Arrangement Yet Devised

The knob can be located at either end of the dial escutcheon or most any place along the lower edge. Your variable condenser may be above or below center, to the left or right. The condenser drive pulley furnished with each tuner is connected to the rest of the mechanism only by drive cable which can be adjusted for clockwise or counter-clockwise rotation. Tuning ratios range from approximately 12 to 1 for No. 231 to 23 to 1 for No. 234. All types extend 1 1/2" behind panel and are furnished with scales for horizontal installation with double channel calibrations for FM and AM Broadcast. See list below for additional selection of both vertical and horizontal scales.

Stk. No.	Type	Escutcheon Size	Scale Length	EACH
17A591	231	2 1/2 x 4 3/4"	3 1/2"	\$2.79
17A592	232	2 1/4 x 6 1/4"	4 1/2"	2.94
17A593	233	3 1/8 x 6 5/8"	5 1/2"	3.15
17A594	234	3 1/8 x 8 1/8"	6 3/4"	3.53

ALTERNATE DIAL SCALES FOR ABOVE

For Dial No.	231	232	233	234	NET EACH
Vertical	17A1187	17A1188	17A1189	17A1190	44c
Horizontal	17A596	17A597	17A598	17A599	44c
AM BROADCAST & SHORT WAVE DOUBLE CHANNEL					
Horizontal	16A783	16A784	16A785	16A786	44c
FM-AM BROADCAST DOUBLE CHANNEL					
Vertical	16A779	16A780	16A781	16A782	44c

TUNING EYE ASSEMBLY

For adapting "Magic Eye" tubes to sets, test equipment and apparatus. Includes tube socket, 22" cable, adjustable mounting bracket, bronze escutcheon and hardware. Tube Not Furnished. No. 17A759. Assembly for 6-prong tube... **89c**

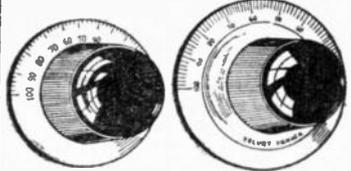
No. 17A760. Assembly for Octal tube... **89c**

MAGIC EYE ESCUTCHEONS

Hood type, large size for mounting over panel or cabinet hole. Bronze finished. No. 17A761. For Single Eye Tube. Each... **18c**

No. 17A762. Full vision type. For use with octal base tubes. Bronze Finished. Net Each... **21c**

NATIONAL VERNIER DIAL



A smooth planetary drive type dial. Highly satisfactory operation through many years of exacting service, has established these dials as the best of their type. Ratio is 5 to 1. Both are calibrated 100-0 in 180°, increase clockwise. Fits 1/4" shaft. AD 4" diameter die stamped scale. Has index pointer. No. 17A570. Net Each... **\$3.00**

AM 3" diameter die stamped skirt, black filled calibration markers and numerals. Has index pointer. No. 17A569. Net Each... \$2.25

NATIONAL TYPE NPW-O

Nicometer dial and gear drive unit reading directly to one part in 500. Originally designed for HRO receiver. Condenser drive at right angles to panel. Ratio is 20 to 1. Supplied with flexible shaft coupling. Has black finish. No. 19A266. EACH... **\$9.00**

BUD VERNIER DIAL

Type D1944. Has smooth positive vernier action, calibration 0-100 clockwise 360 degrees. Face and calibration markers are in black enamel, rim and numerals are polished metal. Diameter 2 3/4" fits 1/4" shaft. Has line indicator and is furnished with knob on vernier drive. No. 17B1. Net Each... **\$1.45**

GORDON HAND WHEELS

Bakelite wheel with pointer and 180° scale. For 1/4" shaft. Will add much to the appearance of your equipment.

No.	Wh. Dia.	Scale Dia.	Net Ea.
12A23	1 1/8"	2 1/8"	\$1.08
12A24	1 1/8"	3 3/8"	1.15
12A25	2 1/4"	3 3/8"	1.47
12A26	3 1/4"	5 1/4"	2.06
12A27	1 1/8"	2 7/8"	1.08

Hand Wheels With Pointer only
12A28—1 1/8", less scale... **53c**
12A29—1 1/8", less scale... **65c**
12A30—2 1/4", less scale... **82c**
12A31—3 1/4", less scale... **94c**

DIAL POINTERS



Dial pointers finished in beautiful red enamel.
① 17A1036—2 1/16" long fits 1/4" shaft. Each... **15c**

② 17A1034—2" long, for slide rule dial. Each... **9c**

③ 17A1037—1 3/8" long fits 1/4" shaft. Each... **9c**

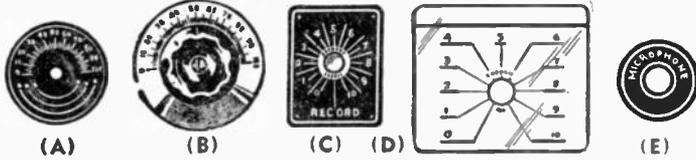
④ 17A1035—3 1/4" long, for slide rule dial. Each... **12c**

SHAFT LOCK

Instantly converts any plain 1/4" shaft. Volume Control, Condenser, etc., from "plain" to "shaft locked type". Easy to mount in place of regular mounting nut. No. 12A1496. Brass Nickel-Plated. SPECIAL, EACH... **36c**

RADIO KNOBS—DIAL PLATES—SHAFT FITTINGS

RADIO AND INSTRUMENT DIAL PLATES



(A) BLACK SATIN FINISH PLATES

Made of brass, black finish with etched silver lines and numbers Calibrated 0-100.

Stock No.	Diam-eter	De-grees	YOUR COST
12A1201	2"	180	\$.27
12A1202	2"	325	.27
12A1203	3 1/2"	180	.36
12A1204	3 1/2"	325	.36

(B) CHROME FINISH PLATES

Grain satin finish with black etched engraving on chrome silver background. Calibrated 0 to 100.

12A1205	2"	180	\$.47
12A1206	2"	325	.47
12A1207	3 1/2"	180	.73
12A1208	3 1/2"	325	.73
12A1209	4"	180	.82
12A1210	4"	325	.82

(D) CROWE PANEL INDICATOR PLATES

Beautiful gleaming silver anodized aluminum plates with black figures and calibration marks. Size, 2 3/16" high, 2 5/8" wide.

CHOICE, EACH 24c

Stock No.	Description	Stock No.	Description
17A1018	No Title 0-10	17A1025	Mike 2, 0-10
17A1019	Tone 0-10	17A1028	Record Mike 5-0-5
17A1020	Gain 0-10	17A1027	Volume 0-10
17A1021	Master Gain 0-10	17A1028	Fader 5-0-5
17A1022	Record 0-10	17A1029	Bass 5-0-5
17A1023	Mike 0-10	17A1030	Treble 5-0-5
17A1024	Mike 1, 0-10	17A1031	Expansion 0-10

All plates supplied less knobs. Make selection in the listing at the right.

(C) RECTANGULAR TYPES

Made of brass, black finish with etched silver markings. Size 1 3/4" x 2 1/4", calibrated for 300° rotation. Marked 1 to 10. 3/8" hole.

No.	Marking	Choice
12A1213	Record	Each 18c
12A1214	Microphone	
12A1215	Gain	
12A1216	Tone	

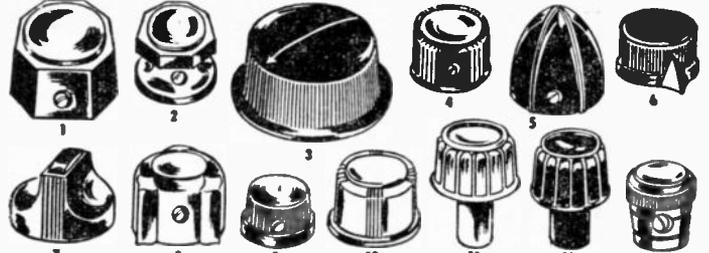
12A1217—Plain, calibrated but no words.

(E) 1-INCH NAME PLATE

Small size plates to identify function of switches and jacks.

No.	Marking	Net
12A1218	Microphone	Each 12c
12A1219	Phone	
12A1220	On-Off	

QUALITY REPLACEMENT KNOBS for EVERY PURPOSE



Type	Stk. No.	Dia.	Color	Net	Screw Type	For	Shafts	Price
1	12A1221	1"	Wal.	12c	6	12A1229	1/2"	Bwn. 9c
2	12A1222	3/4"	Wal.	9c	7	12A1230	"	Blk. 9c
3	12A1223	1 1/4"	Blk.	12c	7	12A1231	"	Wal. 9c
4	12A1224	1 1/8"	Wal.	8c	8	12A1232	"	Wal. 8c
4	12A1225	1"	Wal.	8c	9	12A1233	"	Wal. 9c
5	12A1226	7/8"	Wal.	11c	9	12A1234	"	Iv. 9c
6	12A1227	1 1/2"	Blk.	8c	9	12A1235	"	Red 9c
6	12A1228	1 1/2"	Whi.	9c	9	12A1236	"	Blk. 9c

BAKELITE MOLDED KNOBS—SET SCREW TYPE—FOR 1/2" SHAFTS

Spring clamp type for "D" type shafts. Choice of 2 sizes and colors.

12A1240	Walnut	3/4" Diameter	9c
12A1241	Ivory	{Choice, Each	9c
12A1243	Walnut	1 1/4" Diameter	9c
12A1244	Ivory	{Choice, Each	9c

KNOS FOR KNURED SHAFTS

12A1246 Walnut {3/4" Diameter **8c**
12A1247 White {Choice, Each **8c**

EXTENDED SHAFT KNOBS. Plastic push on type for knurled 1/4" shaft. With 1/2" Shank Extension **10c**
12A667 Brown {15/16" Dia. **10c**
12A668 Ivory {Choice, Each **10c**

AUTO RADIO KNOBS

Chrome plated solid brass, good looking, very durable. Set screw type. No. 19A199. For 1/4" Shaft. Each. **18c**
No. 19A198. For 3/8" Shaft. Each. **18c**

ASSORTMENT OF SIX AUTO RADIO KNOBS. Includes chrome plated brass, and plastic with chrome trim for 3/16" and 1/4" shafts. No. 16A597. Per Asst. **89c**

WITH 3/8" SHANK EXTENSION

12A669 Brown {3/4" Dia. **10c**
12A670 Ivory {Choice, Each **10c**

INSTRUMENT AND EQUIPMENT POINTER KNOBS

CRONAME BAR KNOBS



Smartly designed, serviceable, streamlined and colorful knobs, for test equipment, PA systems and the like where appearance and eye appeal are factors. With brass insert for 1/4" shaft and slotted head set screws.

Fig. Size	Black	Red	Net Ea.
A 1 1/4	17A1042	17A1050	18c
A 2 1/4	17A1043	17A1051	27c
B 1 1/8	17A1045	17A1053	18c
B 2	17A1044	17A1052	27c

Style "C". Black only. Dia., 1 1/16" with 19/32" recess to clear nut for close panel mounting. No. 17A1054. Net Each. **21c**

PENDULUM KNOB

Molded bakelite knob with brass insert for 1/4" shaft, with set screw. 1 3/4" overall, 5/8" thick. No. 12A99. Walnut. EACH. **18c**

PANEL BEARINGS

Cadmium plated brass for panels up to 3/8" thick. Furnished separately or with 3" or 6" cadmium plated brass shafts. 12A1359—Bearing Only **10c**
12A9—With 3" shaft **24c**
12A10—With 6" shaft **29c**

TUNING DRIVE SHAFT

For cable connected drive using drum on condenser shaft. Mounts 3/8" hole. Overall length 1 5/8", shaft 1/4" diameter. No. 17A583. Each. **21c**

Adjustable Slip Clutch

Attaches to either end of shaft and adjusts to slip at any torque desired. Length, 1 9/32". Couples 1/4" to 1/2". No. 17A1033. Net Each. **\$1.00**

BAR KNOBS



Fit 1/4" shafts. Recessed set screws. Choice **10c**
12A42 2" Red **10c**
12A43 2" Black **10c**
12A44 1 1/4" Red **8c**
12A45 1 1/4" Black **8c**
12A46 2 1/4" Black **11c**
12A47 1 1/4" Black **11c**

FINGER GRIP KNOBS

Quality black bakelite. Attractive, professional in appearance. Fluted rim for good grip. All for 1/4" shafts. Brass bushed. Less Pointer **18c**
12A34. 1 1/8" Net. **18c**
12A35. 1 5/8" Net. **24c**
12A36. 2 3/8" Net. **29c**

With Pointer

12A37. 1 1/8" Net. **33c**
12A38. 1 5/8" Net. **38c**
12A39. 2 3/8" Net. **52c**

Flange Type

12A40. 2 1/8" Net. **41c**
12A41. 3" Net. **52c**

Bakelite Knob Assortment

10 Assorted, Brown, Black, Ivory. Bakelite knobs, push-on type to fit standard 1/4" knurled shafts. No. 17A286. Per Asst. of 10. **39c**
25 Assorted, includes types as above and others. No. 18A850. Per Asst. of 25. **79c**

Planetary Drive

Mounts on end plate of condenser, on back of front of panel to provide 5 to 1 ratio. Has 3/8" threaded sleeve with nut to carry dial plate or pointer. Has 1/4" dia. shaft and hub. 17A1032. Net Each. **\$3.38**

SHAFT FITTINGS AND FLEXIBLE COUPLERS



To increase or reduce shaft diameters of volume controls, condensers, etc., for ganging units, or to extend shaft lengths even of different diameters. Available in insulated or brass.

COUPLERS

Hole Sizes	Insulated	Brass	Net Ea.
1/4" 1/4"	12A1181	12A1184	12c
3/8" 3/8"	12A1182	12A1185	10c
1/2" 3/8"	12A1183	12A1186	\$1.10

EXTENDERS (Shaft 3/8" Long)

Hole Shaft Size Dia.	Insulated	Brass	Each
1/4" 1/4"	12A1187	12A1190	12c
3/8" 3/8"	12A1188	12A1191	10c
1/2" 3/8"	12A1189	12A1192	\$1.10

EXTENDERS (Shaft 1 1/4" Long)

1/4" 1/4"	12A1193	12A1196	Each
3/8" 3/8"	12A1194	12A1197	15c
1/2" 3/8"	12A1195	12A1198	10c
			\$1.40

BRASS OR INSULATED SHAFTS

No.	Kind	Dia.	Length	Each
12A4	Brass	1/4"	6"	13c
12A5	Brass	1/4"	12"	18c
12A6	Insulated	1/4"	6"	13c
12A7	Insulated	1/4"	12"	18c
12A8	Insulated	3/8"	12"	18c

SHAFT COUPLINGS

Johnson Steatite solid Coupling. Features long leakage path and accurate alignment of hubs. For 1/4" shaft. No. 12A1402. Each. **53c**

Johnson Compression Coupling

Ideal for coupling together 1/4" shafts where they need not be insulated. Will not burr shafts. No. 12A1199. Each. **11c**

All Fit 1/4" Shafts

National TX10, very compact 1 1/16" dia., canvas Bakelite insulated coupling free from backlash. National TX9, 1 5/8" diameter, Steatite insulation. No. 12A1362. Each. **75c**
Johnson No. 250, 1 1/8" dia., Steatite with phosphor bronze spring. 12A1360. Each. **47c**
Johnson No. 251A, like above, 2 1/4" diameter. No. 12A1403. Each. **82c**

MILLEN Flexible Coupling

Has universal joint. Designed for applications where high torque is desired. No. 18A652. Each. **42c**

STEATITE INSULATED

Universal joint No. 39001. Similar to above but insulated. Couples 1/4" shafts. No. 15A2057. Net Each. **42c**

SPLIT BUSHING

To reduce dial holes from 3/8" to 1/4" or to increase 1/4" shafts to 3/8" diameter. 5/8" long. No. 12A1200. Each. **6c**
10 For. **54c**

FLEXIBLE SHAFTS

Phosphor bronze. When used with suitable couplings, control of units at angles up to 90 degrees with the panel is permitted. No. 12A11. Hub Dia. Length COST
12A11 1/4" 3" **24c**
12A12 1/4" 6" **32c**

INSULATORS-Polystyrene...and NEW CABINETS



E.F. JOHNSON LEAD-IN BUSHINGS

Have many applications in transmitter and antenna installations. Types 50 and 55 are Steatite; others are white glaze porcelain. Types 50, 51, 52 and 55 have nickled brass rod and nuts.

Stk. No.	Type	Fig.	Hgt.	Dia.	NET
12A243	50	D	1 1/2"	3/8"	21c
12A244	51	D	1 1/2"	1 1/4"	29c
12A245	52	D	1 1/2"	1 3/4"	47c
12A246	53	B	1 3/4"	2 1/2"	18c
12A247	54	A	4"	3 1/2"	44c
12A248	55	C	1 1/4"	3/4"	18c
12A304	53	B	Mtg. Flange		21c
12A305	54	A	Mtg. Flange		41c

STAND-OFF INSULATORS

Of white glazed porcelain with hardware as indicated in listing.



Types 65, 66, 67 have Cadmium steel bases. "J" after Type Number indicates Jack Type.

Stk. No.	Type	Fig.	Hgt.	Hdwe.	NET
12A249	20	A	1 1/4"	10-32	12c
12A250	20J	B	1 1/4"	74J	15c
12A251	22	A	1"	8-32	11c
12A252	22J	B	1"	74J	14c
12A254	60	C	4 1/2"	1/4-20	53c
12A255	62	C	2 3/4"	1/4-20	29c
12A256	65	D	1 3/8"	10-32	18c
12A257	65J	D	1 3/8"	74J	21c
12A258	66	D	2 3/4"	1/4-20	41c
12A259	66J	D	2 3/4"	76J	53c
12A260	67	D	4 1/2"	1/4-20	50c
12A261	67J	D	4 1/2"	76J	55c

THRU-PANEL TYPE

Of white glazed porcelain. Have high mechanical strength and long leakage path. Flat mounting surfaces.



"J" indicates Jack Type insulator.

Stk. No.	Type	Fig.	Hgt.	Hdwe.	NET
12A262	40	A	1 1/4"	10-32	21c
12A263	40J	B	1 1/4"	74J	27c
12A264	42	A	1 1/2"	10-32	18c
12A265	42J	B	1 1/2"	74J	24c
12A266	44	A	5/8"	6-32	15c
12A267	45	C	1 3/8"	10-32	26c
12A268	45J	C	1 3/8"	74J	35c
12A269	46	D	2 3/4"	1/4-20	59c
12A270	47	D	4 1/2"	1/4-20	82c

Each of the above furnished with hardware for panels up to 1/2" thick. Longer rods for the larger types are shown below.

THREADED BRASS ROD

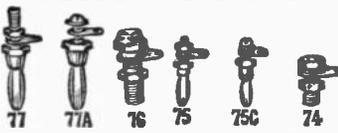
12A279—1/4-20x 8" long. Each .29c
12A280—1/4-20x10" long. Each .35c

ULTRA-STEATITE CONES

Made of high grade, white glaze, low adsorption steatite, which is far superior electrically at high frequencies. Threads are tapped directly into the ceramic. Furnished with machine screws and brass washers top and bottom and with cushion washers. One hole mounting.

Stk. No.	Type	Diameter	Hgt.	NET
12A271	500	3/8"	1 1/4"	18c
12A272	501	1/2"	1 3/4"	21c
12A274	502	1 1/2"	1"	38c
12A276	503	2"	1 1/4"	44c
12A277	504	3"	1 1/2"	85c

JOHNSON PLUGS AND JACKS



Highest Quality BANANA TYPE. Nickel silver springs and nickel-plated brass screw machine parts. Heavy duty type 77, 77A, plugs are .300" diameter and fit jack 76. Type 75, 75C fit 74 jack, the universal size used in test instruments, etc.

Type	Stock No.	Price
77	12A1071	18c
77A	12A1072	21c
76	12A1073	21c
75	12A1075	7c
75C	12A1076	8c
74	12A1077	7c

JOHNSON FEEDER SPREADERS

Finest silicone impregnated porcelain low-loss insulators. All have 1/2x3/8 cross sections.

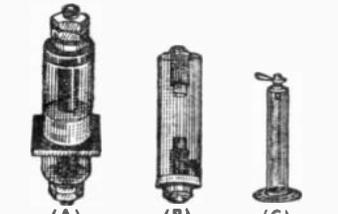
Stk. No.	Type	Length	Net Each
14A769	136-122	2"	10c
14A770	136-124	4"	14c
14A771	136-126	6"	18c

"LUCITE" FEEDER SPREADERS

Furnished with locking screws to clamp wire in place. All are 3/8" diameter, drilled for No. 12 to 18 wire.

12A296	—2"	spacing	20c
12A297	—4"	spacing	25c
12A298	—5"	spacing	29c
12A299	—6"	spacing	32c

"LUCITE" TRANSPARENT INSULATORS



(A) FEED THRU TYPE

Stk. No.	Dia.	Lgth.	Mtg. Hole	Your Cost
12A286	1/2"	1 1/2"	3/16"	29c
12A287	1/2"	3/4"	3/16"	34c
12A288	1/2"	1 1/4"	3/16"	39c
12A289	3/4"	2"	3/16"	84c
12A290	3/4"	2 1/2"	3/16"	73c

(B) STAND-OFF TYPE

Pillar type. Single-hole base mounting with nickel-plated brass hardware.

No.	Hgt.	Dia.	Hdwe.	Cost
12A291	1 1/4"	1/2"	6-32	29c
12A292	2 3/4"	1/2"	6-32	39c
12A293	2 1/4"	3/4"	10-32	42c
12A294	4 1/4"	3/4"	10-32	84c
12A295	6 1/4"	3/4"	10-32	88c

(C) LOW-LOSS STAND-OFFS

912A Polystyrene. Strong, not brittle like ceramic or glass.

Stk. No.	Height	Diameter	Net Each
12A281	1 3/8"	1/2"	\$0.36
12A282	2 1/8"	1/2"	.43
12A283	2 1/8"	3/4"	.78
12A284	4 1/8"	3/4"	.98
12A285	6"	3/4"	1.08

CERAMIC STAND-OFFS

Have 6/32" threads in each end. Ideal for mounting coils, condensers, etc.

12A241.	1/2" dia. x 1 1/4" L.	Each .17c
12A242.	1/2" dia. x 3" L.	Each .24c

NEW BUD MINIATURE CABINETS

Designed for use in building miniature tube apparatus where smaller size is essential. Convenient design with built-in chassis attached to removable front panel. Rear panel is also removable. Steel with black ripple finish.

Stk. No.	Size	Net Each
5B47	4x4x2	\$0.93
5B48	4x5x3	1.03
5B148	5x4x3	1.03
5B162	6x5x4	1.13
5B163	5x6x4	1.13
5A177	6x6x6	1.18

DeLuxe Meter Cases

Steel, finished in Marine Gray Rippled Enamel. Rounded top. Red striped chrome band. Size 4 1/4" deep, 4 1/8" wide, 4 1/8" high.

5A123	—2 3/16"	meter hole.	\$1.32
5A124	—2 13/16"	meter hole	\$1.32

Streamlined Multi-Purpose Cabinets

For the many uses in making up various Electronic equipment. Grey crackle enamel finish with rubber feet on bottoms.

5A121.	3 3/8" wide.	Net Each.	\$1.32
5A122.	7 1/8" wide.	Net Each.	1.71

BUD MINIATURE ALUMINUM CHASSIS

Open end chassis of etched aluminum with 1/4" flanged bottom. Useful in constructing receivers, adapters and any apparatus of small size, particularly when using miniature tubes.

Stk. No.	Size	Net Each
5A178	2 5/8x2 3/4x1 1/4	29c
5A179	1 3/4x3 1/2x1	32c
5A180	3 1/4x4 1/2x2	35c
3A145	2 3/4x4 1/2x1	35c
3A146	3 3/4x4 1/2x1 1/2	35c
3A147	3 x 6 1/2x1 1/4	41c
3A148	5 3/4x4 1/2x1 1/2	44c
3A149	4 x 3 1/2x1	35c
3A150	4 x 4 1/2x1	38c
3A151	4 x 5 1/2x1	41c
3A152	4 x 6 1/2x1	44c

Midget Speaker Cases

Ideal for 2" and 3" speakers. Size 4"x4"x 4 1/2", finished in black crackle.

5A125.	For 2" Speakers.	\$1.23
5A126.	For 3" Speakers.	1.23

Sloping Front Cabinet

Black crackle steel utility case. Good size for building Micro-Match units, Field strength meter, Volt ohm meter and similar apparatus. Size, 4 1/4" high, 7" wide, 4" deep.

Stock No. 5A14. Your Cost. **\$1.42**

ALUMINUM BOX CHASSIS

Features simple interlocking design, which eliminates hard to get at places. Slips together easily making a sturdy finished box requiring only two fastening screws. Made of 18-gauge aluminum. Ideally suited for building preamps, oscillators, junction boxes, etc. Black wrinkle or brushed natural metal finish.

Stk. No.	Size	Finish	Net
20A129	4 x 2 1/8x1 5/8"	Black	56c
20A130	5 x 2 1/4x2 1/4"	Black	74c
20A131	5 1/4x3 x 2 1/8"	Black	85c

Stk. No.	Size	Finish	Net
20A132	4 x 2 1/8x1 5/8"	Natural	56c
20A133	5 x 2 1/4x2 1/4"	Natural	74c
20A134	5 1/4x3 x 2 1/8"	Natural	85c

AMPHENOL "Polystyrene 912A" and "Acrylic 912B" SHEETS, RODS, TUBING, ETC.

912A Polystyrene is the popular thermoplastic, unexcelled for low-loss insulation, in high frequency radio and other electrical circuits. Power factor at 1 MC .00001.



912B Acrylic is a crystal clear tough thermoplastic. Useful for light conduction, meter faces, dials. Has high dielectric strength, used for electrical insulation where no RF is involved. Power factor at 1 MC .015.

912 "A" SHEETS — ALL 4x8"

Stk. No.	Thickness	Net Each
17A753	1/2"	\$0.16
17A754	3/8"	.20
17A755	5/8"	.24
17A756	1"	.29
17A757	1 1/4"	.39

912 "B"

Stk. No.	Diameter	Net Each
12A218	3/8"	\$0.26
12A219	1/2"	.44
12A220	5/8"	.68
12A221	3/4"	.94
12A222	1"	1.26
12A223	1 1/8"	1.68

TUBING 12" LONG

Stk. No.	O.D.	Net Each
17A742	1 1/2"	\$0.07
17A743	1 3/8"	.11
17A744	1 1/4"	.14
17A745	1 1/2"	.22
17A746	1"	.31

12" LONG 912 "B" STRIPS

Stk. No.	Width Strip	Net Each
12A225	1/2"	\$0.18
12A227	3/8"	.31
12A229	1/8" Thick	\$0.22
12A231	1/2"	.38
12A233	3/16" Thick	\$0.26
12A235	1/2"	.46

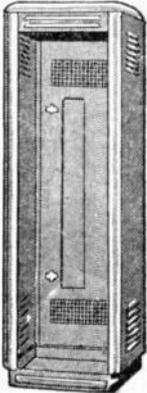
912 "B" — 1/16" Wall

12A213	1 1/2"	\$1.41
12A214	1 3/8"	1.68
12A215	2"	1.88
12A216	2 1/2"	2.21
12A217	2 1/2"	2.53

912 CEMENT — COIL DOPE

12A236.	2-oz. Each	\$0.29
12A206.	4-oz. Each	.38
5A132.	Quart. Each	2.35
912 CEMENT — THINNER		
12A237.	2-oz. Each	\$0.15
17A736.	4-oz. Each	.21
5A143.	Quart. Each	.47

Racks·Chassis·Cabinets·Panels·Accessories

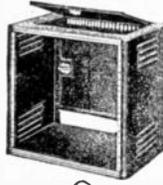


ICA DELUXE RACK CABINETS

Professional type Relay Racks of outstanding modern design, with gracefully rounded top and corners and with well placed chrome trim, provides the commercial quality and appearance desired by all rack users. Built of 1/16" cold rolled steel. Removable vertical corner pieces cover panel edges and mounting screws. Drilled for either Western Electric or Amateour notching. Ample louvers are provided for good ventilation. Hinged rear door has double snap catch. Finished in baked on Marine Grey Ripple. Shipped knocked down. All are 22x18" square.

DELUXE TABLE TYPE CABINETS

Table Model units of new streamlined rounded front corner design ideally suited for Transmitters, PA Amplifiers, etc. Has side louver ventilators and front chrome trim. Hinged doors top and rear with snap locks. *Have top door only. Marine Grey ripple finish.



FLOOR MODEL RACK CABINETS

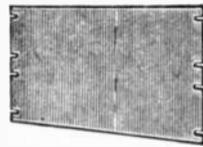
Stock No.	Mfg. No.	Height	Panel Space	Weight	Net Each
40A70	3865	43 1/4"	36 3/4"	110 lbs.	\$36.31
40A71	3866	67 3/4"	61 1/4"	162 lbs.	48.39
40A72	3867	83 1/2"	77"	190 lbs.	55.57

DELUXE TABLE TYPE CABINETS

Stock No.	Mfg. No.	Height	Panel Space	Weight	Net Each
*40A46	3880	10 3/8"	8 3/4"	29 lbs.	\$ 9.12
*40A47	3881	14 1/8"	12 1/4"	32 lbs.	11.76
*40A49	3882	19 1/8"	17 1/2"	40 lbs.	15.48
*40A57	3883	26 1/8"	26 1/4"	50 lbs.	18.82
*40A58	3884	38 1/8"	35"	60 lbs.	20.87

STANDARD RELAY RACK PANELS

Regular 19" length. Standard amateur rack notching; first notch 7/8" from edge and 1 3/4" centers. Steel are 1/8" for rugged strength. Masonite are 3/16", tough, non-magnetic, work nicely with wood tools. Aluminum are 1/8" combining strength with light weight. Easily worked. Supplied in baked on Black Ripple. For Gray Ripple add "C" to Stock Number of size desired.



1/8" Steel			3/16" Masonite			1/8" Aluminum		
Size	Stock No.	Price	Stock No.	Price	Stock No.	Price	Stock No.	Price
1 3/4"	5A21	\$0.66	4A15	\$0.50	5A289	\$0.65		
3 1/2"	5A22	.68	4A16	.65	5A290	.85		
5 1/4"	5A23	.85	4A17	.85	5A291	1.02		
7"	5A24	.91	4A18	.94	5A292	1.34		
8 3/4"	5A25	1.15	4A19	1.18	5A293	1.53		
10 1/2"	5A26	1.29	4A20	1.32	5A294	1.81		
12 1/4"	5A27	1.59	4A21	1.47	5A295	2.08		
14"	5A28	1.82	4A22	1.65	5A296	2.35		
15 3/4"	5A29	2.12	4A23	1.82	5A297	2.65		
17 1/2"	4A27	2.26	4A24	2.12	5A298	2.94		
19 1/4"	4A28	2.44	4A25	2.35	5A299	3.23		
21"	4A29	2.76	4A26	2.58	5A300	3.53		

"HI-QUALITY" METAL CHASSIS BASES



Solidly constructed 1-piece steel chassis bases for receivers, transmitters, amplifiers, etc.—folded over on the bottom (except the 2 smallest sizes) for additional strength. All sizes from 5 1/2"x10" drilled for attaching bottom plates listed opposite chassis.

Size, Inches	CHASSIS BASES		Net Each	Bottom Plates No.	Net Each
	Cat. No.	Blk. No.			
4 1/2 x 8 1/2 x 1 1/2"	5A50	5A51	\$0.63		
6 x 9 1/2 x 1 1/2"	5A52	5A53	.66		
6 x 9 1/2 x 3"	5A54	5A55	.85	5A101	\$0.39
6 1/2 x 10 x 3"	5A56	5A57	.91	5A102	.45
6 x 13 x 3"	5A58	5A59	1.03	5A103	.48
7 x 7 x 2"	5A60	5A61	.74	5A104	.48
7 x 9 x 2"	5A62	5A63	.88	5A105	.48
7 x 11 x 2"	5A64	5A65	.97	5A106	.54
7 x 12 x 2"	5A66	5A67	1.15	5A107	.57
7 x 13 x 2"	5A68	5A69	1.06	5A108	.57
7 x 15 x 3"	5A70	5A71	1.26	5A109	.63
7 x 17 x 3"	5A72	5A73	1.26	5A110	.66
8 x 12 x 3"	5A74	5A75	1.26	5A111	.66
8 x 17 x 3"	5A76	5A77	1.44	5A112	.69
10 x 12 x 3"	5A80	5A81	1.38	5A114	.69
10 x 14 x 3"	5A82	5A83	1.35	5A115	.75
10 x 17 x 3"	5A84	5A85	1.29	5A116	.82
10 x 23 x 3"	5A86	5A87	1.94	5A117	1.06
11 x 17 x 3"	5A88	5A89	1.94	5A118	.82
12 x 17 x 3"	5A90	5A91	1.94	5A119	.88
13 x 17 x 3"	5A92	5A93	2.44	5A120	1.06
10 x 17 x 4"	5A94	5A95	2.06	5A116	.82
13 x 17 x 4"	5A96	5A97	2.76	5A120	1.06

(NOTE:—*Denotes 18 gauge steel. All others 20 gauge.)

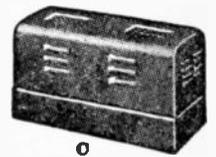
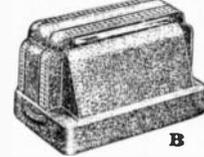
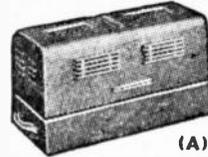
CHASSIS MOUNTING BRACKETS

Fits on Panels 7" High and Over

5A99. For 8" Chassis base. Black. Per Pair.....	\$0.73
5A98. For 11" Chassis base. Black. Per Pair.....	1.12
4A30. For 13" Chassis base. Black. Per Pair.....	1.29

AMPLIFIER FOUNDATION CABINETS

Top-notch quality "Professional" type amplifier chassis units. Pleasing rounded top corners—raised screen openings in tops. Louver ventilators in sides and ends. Units "A" and "B" have Chrome plated ventilators with red striped chrome moldings and handles to match. Marine Grey Ripple.



UNIT "A" — De Luxe Amplifier Foundation Chassis; all units are 9" high; chassis, 3" high. Gives De Luxe "Commercial" appearance to custom built equipment.

Super Amplifier Chassis

Highest quality cabinet of latest modern design. Sloping front panel is removable. Chrome handles and trim, rounded chassis corners. Grey ripple finish. Total height, 9 1/2", 3" chassis.

UNIT "C"—LOW COST Standard Amplifier Foundation Unit; identical to DeLuxe units except chrome trimmings eliminated. All units are 9" high; chassis 3" high.

No.	Size	Net. Ea.	No.	Size	Net Each
5A34	5 1/2 x 10"	\$3.62	5A42	5 1/2 x 10"	\$2.20
5A35	8 x 12"	4.70	5A43	8 x 12"	3.23
5A36	7 x 17"	4.85	5A44	7 x 17"	3.38
5A37	10 x 14"	5.29	5A45	10 x 14"	3.68
5A38	10 x 17"	5.59	5A46	10 x 17"	3.80

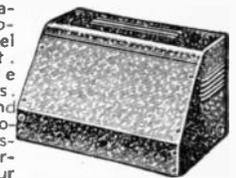
UTILITY STEEL CABINET



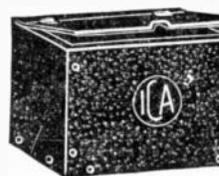
Modern, streamlined, Grey ripple finish. Hinged top lid. Louvers side and back. Removable panel. Rear cable opening. Has embossed feet. Has a really smart commercial appearance.

DELUXE SLOPING PANEL CABINETS

Beautiful Marine Grey Ripple finish steel cabinet. Chrome side ventilators. Smooth round corners. Provides professional appearance to your amplifier, test instrument, etc. Front panel may be attached to chassis and removed as a unit.



HINGE LID CABINET



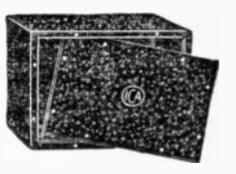
Black wrinkle enamel steel. Front, back and bottom removable separately.

Stock No.	Size	YOUR COST	Requires Chassis No.
5A30	8x10x8"	\$2.94	5A60
5A31	8x12x8"	3.23	5A62
5A32	8x14x8"	4.12	5A64
36A96	12x20x12"	7.64	5A58

Stock No.	Size	Price	Requires Chassis
5A138	8x8x8"	\$3.88	5A60
5A137	8x10x8"	4.26	5A62
5A100	8x14x8"	5.59	5A68
36A95	12x18x8"	7.50	5A84

ALL-PURPOSE CABINETS

Sturdy spot welded steel. Removable front and back covers. Finished in black wrinkle enamel.



Cat. No.	Size	YOUR COST
5A130	4" x 2" x 4"	\$0.78
5A131	4" x 3" x 5"	.84
5A7	6" x 6" x 6"	.97
5A8	9" x 5" x 6"	1.50
5A9	10" x 7" x 7"	1.89
5A10	10" x 8" x 10"	2.35
5A11	12" x 11" x 8"	2.53

QUALITY ALUMINUM CHASSIS

See illustration and general description in metal chassis base listing at left. Aluminum is 1/16 material 35-1/4 hard. Features light weight, exceptional strength and good appearance. Very easy material to work. Highly recommended for transmitters, receivers, etc., where RF circuit components must lie close to the chassis.

Stk. No.	Size	Price
4A32	4x8x1 1/2"	\$0.65
4A33	5x9 1/2x3"	.97
4A34	5x13x3"	1.06
4A35	7x7x2"	.94
4A36	7x9x2"	1.06
4A37	7x12x3"	1.29
4A38	7x15x3"	1.47
4A39	7x17x3"	1.56
4A40	8x12x3"	1.50
4A41	10x12x3"	1.68
4A42	10x17x3"	1.88
4A43	12x17x3"	2.32
4A44	13x17x3"	2.85

TRUCK CASTERS



Heavy duty ball bearing type recommended for DeLuxe Relay Racks and other heavy equipment. High quality rubber composition wheel.

Smooth and quiet running. No. 5A139. Net Each..... 88c

PORTABLE STEEL CABINET

Welded steel cabinet with leather handle. Removable front and back panels fastened with self-tapping screws. Black ripple enamel finish. For Oscillators, Transceivers, etc.



Cat. No.	H.	W.	D.	Wt.	Net Ea.
5A12	12"	7 3/4"	7"	9 lbs.	\$2.50
5A13	15"	7 3/4"	7"	11 lbs.	2.91

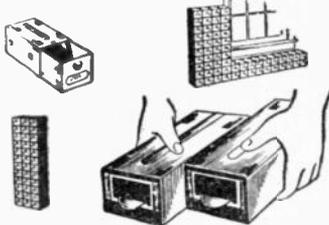
Panels 1/16" Thick Steel



Cat. No.	Size	Net Each
5A15	7"x10"	48c
5A16	7"x14"	71c
5A17	7"x18"	88c
5A18	8"x14"	76c
5A19	8"x18"	84c

Cabinets--Racks-- MISC. NEEDED SMALL PARTS

SAVE . . . SPACE . TIME
TEMPERS
 with **MULTI-DRAWERS**



Build a Small Parts Cabinet to fit any space—add any number of units as needed.

Easy to assemble—all steel construction. Positive rigid interlocking top, bottom, and sides. Drawers are free and smooth operating with provisions for drawer dividers. Has holder for contents identifications. Durable green finish. In two convenient sizes.

LARGE DRAWERS

No. 36B36. 11 11/16" front to back, 3 15/16" wide, 3" deep. Accommodates up to 5 drawer dividers.

Net Each... **99c** Per Doz... **\$10.95**

No. 36B37. Drawer Dividers. **5c**
 Net Each.....

SMALL DRAWERS

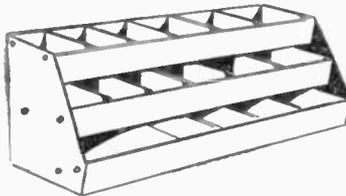
No. 37A77. 5" front to back, 2 7/8" wide, 2 1/4" deep. Accommodates up to 3 drawer dividers.

Net Each... **30c** Per Doz... **\$2.95**

No. 37A79. Drawer Dividers. **2 1/2c**
 Net Each.....

3-TRAY PARTS BIN

Keeps Small Parts Handy



Here is convenience. Parts easily accessible from bins which are set at a 10 degree forward angle. Ideal for resistors, condensers, screws, nuts, etc.—anything needed for the job. Use on bench, or hang on the wall—in workshop or garage.

Of durable construction with baked on enamel finish. Has 3 trays divided into 15 compartments; 14 compartments 3" wide, 1 compartment 8" wide. Each tray 4 3/4" deep from front to back. Overall size 16 3/4" wide x 7 3/4" deep x 9" high. Weight, 5 lbs. No. 36A94. **\$2.25 EACH**

B-A POPULAR HARDWARE ASSORTMENTS in CLEAR PLASTIC ENVELOPES



TERMINALS and LUGS—100 Asst. Most popular solder types. No. 19A1069. Per Asst.... **45c**

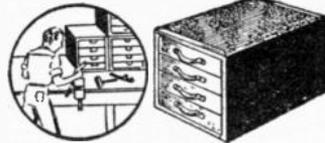
TERMINAL STRIPS—25 Asst. With lugs attached. No. 18A9. Per Asst..... **35c**

SOLDERING LUGS—100 Asst. Types most often used in Radio work. No. 12A665. Per Asst..... **34c**

SHAKEPROOF LUGS—50 Asst. Sizes 4, 6, 8 and 10 No. 19B996. Per Asst..... **29c**

ALL STEEL UTILITY CABINET

Saves time and patience by keeping small parts and tools handy—where they can be found instantly. Attractive with its grey hammertone lacquer finish and bright plated pull handles. Special design makes the stacking of several units simple. Just add them as needed. Sturdy—of welded construction. Size, 5 3/4" wide x 6 1/4" long x 8 1/4" deep. 4 drawers—2 with three compartments each, 1 with six compartments, and 1 with no compartments. Weight, 4 lbs. No. 36A93. Each..... **\$2.45** Lots of 3. Each. **\$2.25**



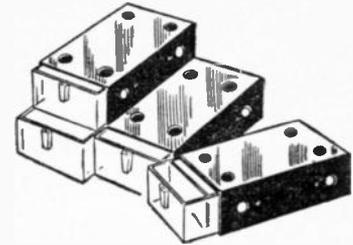
HANDY ASSORTMENTS OF OFTEN NEEDED RADIO HARDWARE Packed in Clear Plastic Envelopes. PER PACKAGE.....



- ① **SCREWS and BOLTS**
- ① **MACHINE SCREWS**—50 Asst. Steel Nickel Plated. Round Head. Sizes, 4-36, 6-32, 8-32, 10-32. No. 19B952. Per Asst. **24c**
- ① **4-36 MACHINE SCREWS**—45 Asst. Steel Nickel Plated. Round Head. No. 19B956. Per Asst. **24c**
- ① **6-32 MACHINE SCREWS**—45 Asst. Steel Nickel Plated. Round Head. No. 19B960. Per Asst. **24c**
- ① **8-32 MACHINE SCREWS**—40 Asst. Steel Nickel Plated. Round Head. No. 19B972. Per Asst. **24c**
- ① **10-32 MACHINE SCREWS**—30 Asst. Steel Nickel Plated. Round Head. No. 19B991. Per Asst. **24c**
- ⑤ **RACK SCREWS & WASHERS**—30 Asst. Steel Nickel Plated. Sizes, 6-32, 8-32, 10-32. No. 19B1047. Per Asst. **24c**
- ⑥ **ORNAMENTAL HEAD SCREWS**—15 Asst. Statuary Bro. ze Plated. No. 19A980. Per Asst. **24c**
- ④ **SHEET METAL SCREWS**—25 Asst. Self-tapping slotted Hexagon Head. Sizes, 4, 6, 8 and 10. No. 19B1048. Per Asst. **24c**
- ③ **WOOD SCREWS**—30 Asst. Round Head. Steel Nickel Plated. Sizes, 4, 6, 8. No. 19B1049. Per Asst. **24c**
- ⑥ **ESCUTCHEON PLATE SCREWS**—30 Asst. Bronze Plated. No. 2 size. No. 18A19. Per Asst. **24c**
- ⑦ **RADIO KNOB SET SCREWS**—20 Asst. Headless. Hardened Steel. No. 19B1050. Per Asst. **24c**
- ④ **PHONO NEEDLE SET SCREWS**—7 Asst. Most popular sizes. No. 19B1059. Per Asst. **24c**
- ③ **TRIMOUNTS, RIVETS, COTTERS, HOLE PLUGS**
- ① **SNAP-IN TRIMOUNTS**—30 Asst. To fasten backs on cabinets, etc. No. 18A5. Per Asst. **24c**
- ⑥ **RIVETS AND EYELETS**—55 Asst. No. 18A6. Per Asst. **24c**
- ① **COTTER PINS**—60 Asst. No. 16A566. Per Asst. **24c**
- ② **HAIR PIN COTTERS**—50 Asst. No. 16A565. Per Asst. **24c**
- ⑤ **SNAP BUTTON HOLE PLUGS**—10 Asst. Covers unused holes. No. 18A10. Per Asst. **24c**
- ④ **GROMMETS, CLAMPS**
- ③ **PLAIN RUBBER GROMMETS**—15 Asst. Soft rubber. No. 18A21. Per Asst. **24c**
- ⑤ **GUM RUBBER GROMMETS**—15 Asst. No. 18A22. Per Asst. **24c**
- ⑤ **CABLE HOLDER CLAMPS**—25 Asst. Steel. No. 19B937. Per Asst. **24c**

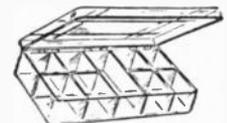
- ⑩ **NUTS and WASHERS**
- ⑩ **HEXAGON NUTS**—45 Asst. Steel Nickel Plated. Sizes, 4-36, 6-32, 8-32, 10-32. No. 19B1060. Per Asst. **24c**
- ⑦ **MOUNTING NUTS**—15 Asst. For Volume Controls, Switches, etc. Nickel Plated. No. 19A979. Per Asst. **24c**
- ⑩ **METAL WASHERS**—100 Asst. Nickel Plated. Sizes, 4, 6, 8 and 10. No. 19B1075. Per Asst. **24c**
- ⑩ **LOCK WASHERS**—65 Asst. Internal and external. Most popular sizes. No. 19B1076. Per Asst. **24c**
- ⑩ **FIBRE WASHERS**—30 Asst. Extruded and flat. Sizes 6 through 15/32". No. 19B1077. Per Asst. **24c**
- ⑩ **"C" WASHERS**—50 Asst.—For servicing Volume Controls, etc. No. 19A965. Per Asst. **24c**
- ⑤ **DUST FELTS, DIAL PULLEYS, TURNTABLE SPRINGS, ETC.**
- ⑤ **VOICE COIL DUST FELTS**—25 Asst. Glues to any speaker. Keeps dust out. No. 16A567. Per Asst. **24c**
- ⑥ **BRASS DIAL PULLEYS**—6 Asst. Several sizes. No. 17A1011. Per Asst. **24c**
- ⑥ **FIBRE DIAL PULLEYS**—10 Asst. Several sizes included. No. 11A80. Per Asst. **24c**
- ⑩ **PHONO TURNTABLE SPRINGS**—10 Asst. Small sizes. No. 16A570. Per Asst. **24c**
- ⑩ **PHONO TURNTABLE SPRINGS**—10 Asst. Large sizes. No. 16A571. Per Asst. **24c**
- ⑩ **DIAL DRIVE SPRINGS**—10 Asst. Regular size. No. 11A78. Per Asst. **24c**
- ⑩ **DIAL DRIVE SPRINGS**—10 Asst. Small size. No. 11A79. Per Asst. **24c**
- ⑩ **COMPRESSION SPRINGS**—20 Asst. Used on dials, phono motors, etc. No. 17A1010. Per Asst. **24c**
- ⑩ **DIAL CABLE CLIPS**—50 Asst. For use on all types of Dial Cord Assemblies. No. 17A1009. Per Asst. **24c**
- ⑩ **KNOB FELTS, SPRINGS, ESCUTCHEON PINS, ETC.**
- ⑩ **KNOB FELTS**—50 Asst. As used behind radio knobs. No. 18A2. Per Asst. **24c**
- ⑩ **KNOB PUSH-ON SPRINGS**—20 Asst. Most popular sizes. No. 19B1051. Per Asst. **24c**
- ⑩ **ESCUTCHEON PINS**—100 Asst. No. 12A664. Per Asst. **24c**

PARTS AT A GLANCE with VISIBLE BINS



Find the parts you want at a glance. Easy sliding clear plastic bins in sturdy steel drawers which snap together on sides, top and bottom to form a strong cabinet to the size and shape of your choice. Add them as you need them. Each drawer is furnished with a removable plastic divider. Drawer size, 6 1/16x3 1/8x1 7/8". Weight, 7 1/2 lbs. No. 33B74. Each..... **40c** Per Doz. **\$4.32**

Clear Plastic Utility Box



Here it is, just the thing for keeping those screws, nuts, lugs, and other small parts separated and easy to find. Ideal for the work bench and for carrying parts on out-of-the-shop jobs. Hinge covered and with partitions. Available in two sizes.

16A398. 8 1/4x4 1/4x1 1/4". Each. **.75c**
 16A399. 7x3 1/2x1 3/16". Each. **.55c**

HANDY GLASS JARS with METAL SCREW LIDS

To Stock Small Hardware, Parts, Resistors, etc.



No. 3A24. 2-oz. 2" diameter x 1 3/4" high. **8c**
 Each.....

Per Doz. **85c**
 Carton of 48..... **\$2.50**

No. 3A25. 4-oz. 1 3/4" diameter x 3 3/8" high. **10c**
 Each.....

Per Doz. **\$1.00**
 Carton of 48..... **\$3.45**

MACHINE SCREWS

Steel Nickel Plated
 Packed in Clear Plastic Envelopes.

Stk. No.	Lgth.	Pkg. 100	Pkg. 500
2-56 ROUND HEAD			
19A702X	1/4"	22c	\$0.93
19A702	1/4"	23c	.97
6-32 ROUND HEAD			
19A857	1/4"	26c	1.10
19A995	1/4"	27c	1.14
19A858	3/8"	29c	1.22
19A859	1/2"	31c	1.31
19A723	5/8"	36c	1.53
19A733	1"	41c	1.73
4-40 BINDER HEAD			
19A706	1/4"	24c	1.02
19A708	1/4"	25c	1.05
6-32 BINDER HEAD			
19A715	1/4"	27c	1.14
19A716	1/4"	28c	1.19
19A718	3/8"	29c	1.22
19A721	1/2"	32c	1.36
19A726	5/8"	34c	1.44
19B727	3/4"	38c	1.53
8-32 ROUND HEAD			
		Pkg. 20	Pkg. 100
19B802	2"	30c	\$1.27
19B803	3"	45c	1.83

For additional types and sizes see page 110.

HEXAGON NUTS

Stock No.	Size	100	500
*19A1026	2-56x1/4"	28c	\$1.19
19A789	4-40x1/4"	32c	1.36
19A792	6-32x1/2"	36c	1.53
19A794	8-32x3/4"	40c	1.70
19A897	10-32x3/8"	44c	1.87

*Brass NP.

Screws---Nuts---OTHER RADIO HARDWARE

Cap Nuts Wing Nuts



Cap Nuts—BRASS-NICKEL PLATED			
Size	No.	Doz.	Per 100
6-32	19A924	26c	\$1.34
8-32	19A925	26c	1.34
10-32	19A926	32c	1.68

Wing Nuts—BRASS-NICKEL PLATED			
Size	No.	Doz.	Per 100
6-32	19A927	41c	\$2.21
8-32	19A928	41c	2.21
10-32	19A929	41c	2.21

For Quantities of 500 or more of above deduct 10% from 100 Lot Price.



Cable Clamps

Heavy gauge steel, cadmium plated. $\frac{3}{8}$ " wide with No. 6 mounting hole. Fit $\frac{1}{4}$ " and $\frac{1}{2}$ " cable.

No.	Size	100 For	500 For
12A1303	$\frac{1}{2}$ "	\$3.30	\$1.11
12A1304	$\frac{1}{4}$ "	\$3.30	\$1.03

MOUNTING NUTS STEEL—NICKEL PLATED



Standard sizes for switches, volume controls, etc. Rotary Switch type is 7/16" wide. All others are 9/16" wide.

No.	Type	Thread	10 For	100 For
15A2045	Rot. Sw.	$\frac{1}{8}$ -32	14c	1.04
15A2046	Vol. Con.	$\frac{3}{8}$ -32	12c	.87
15A2047	Pil. Lite	$\frac{1}{8}$ -27	25c	1.89
15A2048	Tog. Sw.	$\frac{1}{8}$ -32	34c	2.59

ROUND RING NUT

15A2049	Tog. Sw.	$\frac{1}{8}$ -32	22c	1.68
19A979	15 Assorted.		Per Ass't.	24c

For Quantities of 500 or more of above deduct 10% from 100 Lot Price.

PLAIN AND GUM RUBBER GROMMETS

PLAIN RUBBER			
Mtg. Hole	I.D. Hole	Plain	Doz. 100 For
$\frac{1}{8}$ "	$\frac{1}{8}$ "	12A1483	18c \$1.04
$\frac{3}{16}$ "	$\frac{3}{16}$ "	12A1484	21c 1.29
$\frac{1}{2}$ "	$\frac{1}{2}$ "	12A1485	21c 1.47
$\frac{5}{8}$ "	$\frac{3}{8}$ "	12A1486	28c 2.02

15 ASSORTED. No. 18A21. SPECIAL. Per Ass't. **24c**

GUM RUBBER			
Size	No.	Doz.	Per 100
$\frac{1}{8}$ "	12A1487	21c	\$1.20
$\frac{3}{16}$ "	12A1488	24c	1.61

15 ASSORTED. No. 18A22. SPECIAL. Per Ass't. **24c**

Rubber Mounts
For chassis or any place where cushioning is desired against vibration or micro-phonous disturbances.

No.	Dia.	Thick	Each	10 Lots
12A1491	$\frac{1}{4}$ "	$\frac{3}{4}$ "	12c	10c
12A1493	1"	$\frac{3}{8}$ "	8c	7c
12A1494	$\frac{3}{4}$ "	$\frac{1}{2}$ "	5c	4c

12A1495. Flat washer type, without shoulder. 1" diameter, $\frac{1}{8}$ " thick, size 8 hole. Net Each.....3c
10 Lots, Each.....2c

THREADED BRASS RODS

Ideal for making your own long screws by cutting to any desired length. Supplied in 12" lengths.

No.	Size	Each	10 For
12A1474	6-32	17c	15c
12A1475	8-32	22c	20c
12A1476	10-32	26c	24c



Nickel Plated Brass Machine Screws NON-MAGNETIC—RUST PROOF

Stock No.	Length	Pkg. of 20	Box of 100
19B997	$\frac{1}{4}$ "	7c	\$0.24
19B982	$\frac{3}{8}$ "	7c	.26
① 4-36 ROUND HEAD			
19A1000	$\frac{1}{4}$ "	8c	.23
19A1001	$\frac{1}{2}$ "	9c	.32
19A1002	1"	13c	.46
① 6-32 ROUND HEAD			
19A1003	$\frac{1}{4}$ "	10c	.36
19A1004	$\frac{3}{8}$ "	12c	.41
19A1005	$\frac{1}{2}$ "	13c	.45
19A1006	$\frac{3}{4}$ "	16c	.53
19A1007	1"	19c	.63
19A1008	$1\frac{1}{4}$ "	23c	.75
① 8-32 ROUND HEAD			
19A1009	$\frac{1}{4}$ "	14c	.49
19A1010	$\frac{3}{8}$ "	17c	.55
19A1011	$\frac{1}{2}$ "	18c	.61
19A1012	$\frac{3}{4}$ "	28c	.88
19A1029	1"	32c	1.02
① 10-32 ROUND HEAD			
19B711	$\frac{3}{8}$ "	20c	.69
19B712	$\frac{1}{2}$ "	23c	.78
19B720	$\frac{3}{4}$ "	28c	.95
19B729	1"	33c	1.13
19B734	$1\frac{1}{4}$ "	39c	1.33
① 6-32 BINDER HEAD			
19B856	$\frac{1}{4}$ "	10c	.36
19B863	$\frac{3}{8}$ "	12c	.41
19B876	$\frac{1}{2}$ "	13c	.45
19B877	$\frac{3}{4}$ "	16c	.53
19B883	1"	19c	.62
① 8-32 BINDER HEAD			
19B882	$\frac{1}{4}$ "	14c	.49
19B886	$\frac{3}{8}$ "	18c	.59
19B887	$\frac{1}{2}$ "	23c	.75
19B888	1"	28c	.88

For Quantities of 500 or more of above deduct 10% from 100 Lot Price.

Phillips Type Machine Screws

Stock No.	Length	Pkg. of 20	Pkg. of 100
19B779	$\frac{3}{8}$ "	16c	\$0.52
19B780	$\frac{1}{2}$ "	19c	.64
19B785	1"	26c	.83
8-32 ROUND HEAD			
19B788	$\frac{3}{8}$ "	20c	.66
19B787	$\frac{1}{2}$ "	25c	.80
19B793	1"	33c	1.04

Nickel Plated Brass Hexagon Nuts

No.	Size	Pkg. of 20	Pkg. of 100
19A1026	2-56	7c	28c
19A1013	4-36	8c	32c
19A1014	6-32	13c	48c
19A1015	8-32	13c	45c
19A1016	10-32	16c	53c
19A1017	10-32	18c	58c

Deduct 10% from 100 Lot Price for Quantities of 500 or More.

Angle Mtg. Brackets

Hardened Brass, N. P.; Width, $\frac{3}{8}$ "

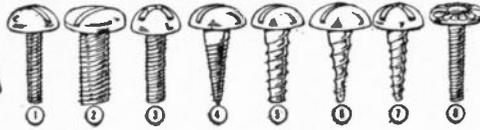
No.	Style	Size	Each	10 for
12A1314	A	$\frac{1}{2}$ x $\frac{1}{2}$ "	1 1/2c	10c
12A1315	B	$\frac{5}{8}$ x $\frac{5}{8}$ "	2c	17c
12A1316	C	1 x 1"	3c	25c
12A1317	D	$\frac{5}{8}$ x $2\frac{1}{4}$ "	5c	41c
12A1318	E	$\frac{5}{8}$ x 1 1/2"	3c	22c

WITH TAPPED HOLES
Designed for assembly of metal cabinets, chassis, cover plates, etc. 8-32 tapped hole and 5/32" plain hole. Heavily plated.

12A1319	$\frac{1}{2}$ x $\frac{1}{2}$ "	Each	4c	10 for	32c
12A1321	$\frac{1}{2}$ x $\frac{3}{4}$ "	Each	5c	10 for	40c

For Quantities of 100 or More Deduct 10% from 10 Lot Price.

RADIO HARDWARE IN PACKAGES



Self-Tapping Metal Screws

CADIUM PLATED			
⑤ ROUND HEAD GIMLET POINT	No.	Size	Lgth.
	19A941	6	$\frac{1}{2}$ "
	19A942	8	$\frac{3}{4}$ "
	19A943	8	$\frac{1}{2}$ "
⑥ ROUND HEAD BLUNT POINT			
	19A944	6	$\frac{1}{4}$ "
	19A945	6	$\frac{1}{2}$ "
	19A946	6	$\frac{3}{4}$ "
	19A1090	8	$\frac{1}{4}$ "
	19A947	8	$\frac{1}{2}$ "
	19A948	8	$\frac{3}{4}$ "
⑦ HEXAGON HEAD BLUNT POINT			
	19A949	6	$\frac{1}{4}$ "
	19A950	6	$\frac{1}{2}$ "
	19A1091	8	$\frac{1}{4}$ "
	19B804	8	$\frac{3}{8}$ "

For Quantities of 5 Gross or More Deduct 10% from 1 Gross Price. 100 Assorted self-tapping screws including some of above and other regular tap screws in popular sizes. 19A953. Per Assortment..... **40c**

Phillips Type Self-Tapping Screws CADIUM PLATED

Stock No.	Size	Lgth.	Pkg. of 20	Per Gross
19A954	8x	$\frac{1}{2}$ "	18c	77c
19A955	8x	$\frac{3}{4}$ "	20c	84c
19A957	6x	$\frac{1}{2}$ "	15c	64c
19A958	6x	$\frac{3}{4}$ "	16c	70c
19A959	6x	$\frac{1}{2}$ "	18c	77c

For Quantities of 5 Gross or More Deduct 10% from 1 Gross Price.

Ornamental Head Screws Statuary Bronze with Rosette Head

No.	Size	Lgth.	Pkg. of 20	Pkg. of 100
12A661	6-32	$\frac{3}{4}$ "	19c	68c
12A662	6-32	1"	19c	68c
12A663	8-32	$1\frac{1}{4}$ "	26c	87c

Wood Screws Nickel Plated—Round Head

No.	Size	Lgth.	Per Doz.	Gross
19A938	4	$\frac{1}{2}$ "	10c	66c
19A939	5	$\frac{3}{4}$ "	11c	71c
19A940	5	1"	12c	80c
19B981	6	1"	13c	88c

For Quantities of 5 Gross or More Deduct 10% from 1 Gross Price.

Nickel Plated FLAT WASHERS

Cat. No.	Size	Pkg. of 20	Pkg. of 100
19A1022	4	5c	15c
19A1023	6	6c	16c
19A1024	8	7c	21c
19A1025	10	9c	29c

Deduct 10% from 100 Lot Price for Quantities of 500 or More.

SNAP-IN TRIMOUNTS

For simple fastening of back covers, built-in antennas, dial scales, etc. Illustrations are actual size.

No.	Hole Dia.	Lgth.	10	100
① 12A1306	$\frac{1}{8}$ "	$1\frac{3}{4}$ "	10c	78c
② 12A1308	$\frac{9}{64}$ "	$\frac{9}{32}$ "	12c	92c

RIVETS

No.	Lgth.	25	100	1000
12A1309	$\frac{3}{16}$ "	15c	48c	\$4.32
12A1310	$\frac{1}{4}$ "	18c	59c	\$4.50

EYELETS—Nickel

No.	Dia.	25	100	1000
12A1311	$\frac{1}{8}$ "	15c	42c	\$3.78
12A1313	$1\frac{1}{64}$ "	24c	70c	6.30

Rack Screws and Washers



Steel—Bright Nickel Finish	Stock No.	Size and Thread	Lgth.	Pkg. of 25	Pkg. of 100
	19A930	6-32	$\frac{1}{2}$ "	14c	56c
	19A931	8-32	$\frac{1}{2}$ "	18c	73c
	19A932	10-32	$\frac{1}{2}$ "	20c	80c
	19A933	10-32	$\frac{3}{4}$ "	22c	90c

CUP TYPE WASHERS

19A934	Size 6	14c	51c
19A935	Size 8	14c	58c
19A936	Size 10	14c	58c

For Quantities of 5 Gross or More Deduct 10% from 1 Gross Price.

Fibre Washers

Ideal for Insulating Needs on Metal Panels.

FIBRE EXTRUDED TYPE				
Stock No.	Screw O.D.	Size	Extr. Thk.	Doz. 100
15A111	$\frac{3}{8}$ "	6	.187	12c 78c
15A112	$\frac{3}{8}$ "	8	.250	12c 78c
15A113	$\frac{3}{8}$ "	10	.255	12c 78c
15A114	$\frac{1}{2}$ "	$\frac{5}{16}$ "	.375	14c 87c
15A115	$\frac{5}{8}$ "	$\frac{3}{8}$ "	.437	15c 95c

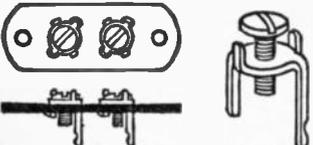
*Shaft.

FLAT FIBRE TYPE

Stock No.	Screw O.D.	Size	Thk.	Doz. 100
15A116	$\frac{1}{8}$ "	6	1/32"	5c 30c
15A117	$\frac{3}{16}$ "	8	1/32"	5c 30c
15A118	$\frac{3}{16}$ "	10	1/32"	5c 30c
15A119	$\frac{1}{2}$ "	$\frac{1}{4}$ "	3/64"	7c 35c
15A120	$\frac{5}{$			

LUGS - BINDING POSTS - TERMINALS - TEST RECORDS

BAKELITE TERM. STRIPS



Made of black bakelite 1/8" thick, 7/8" wide. Steel, hot tinned terminal spaced 1/2" between centers and constructed for open or closed end lugs. Screw Size 8-32.

No.	Term.	Each	10 For
12A1276	2	9c	\$0.82
12A1277	3	14c	1.26
12A1278	4	17c	1.54
12A1279	5	20c	1.80
12A1280	6	23c	2.07
12A1281	7	25c	2.16
12A1282	8	30c	2.70
12A1283	9	32c	2.88
12A1284	10	35c	3.16
12A1285	Lugs Only	5c	.40

JONES BARRIER TYPE TERMINAL STRIPS

Type 140 has 7/8" wide x 13/32" high bakelite base; 3/8" terminal centers. 141 is 1 1/8" x 1/2", has 7/16" centers.

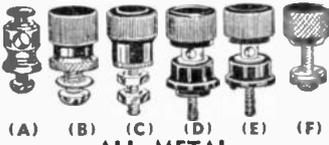
Type 140				Type 141			
Term.	No.	Each		No.	Each		
2	14A541	14c		14A547	18c		
3	15A2050	20c		15A2052	25c		
4	14A542	24c		14A548	31c		
5	15A2051	30c		15A2053	38c		
6	14A543	34c		14A549	45c		
8	14A544	45c		14A550	58c		
10	14A545	56c		14A551	72c		
12	14A546	66c		14A552	84c		

Type 142					
1 5/16" Width, 3/8" High, 9/16" Center	Term.	No.	Each		
6	15A1161	21c	6	15A1165	54c
8	15A1162	30c	8	15A1166	71c
10	15A1163	38c	10	15A1167	87c
12	15A1164	46c	12	15A1168	1.04

JONES SOLDER TYPE TERM. STRIPS

Type 2000—Heavy Duty					
Term.	No.	Each	Term.	No.	Each
2	18A1093	4c	6	18A1097	6c
3	18A1094	5c	8	18A1098	7c
4	18A1095	5c	10	18A1099	7c
5	18A1096	6c	12	18A1100	8c

BINDING POSTS



ALL METAL
 (A) Single Post. **7c**
 (B) Heavy Duty for high amp. work. Approx. 1" h. x 1/2" dia. head, 8-32x 5/8" screw. Brass nickel plated. **12c**
 (C) Combination. Takes a banana plug through the top and a phone tip or wire through hole in stem. 1/2" dia. Head 1 3/8" long. 8-32x9/16" screw. Red or Black composition. **15c**
 (D) Ensign No. 38. Has insulated shoulder for centering and mounting in 11/32" hole. **23c**
 (E) Ensign No. 39. Has 3/32" dia. x 1/16" long dowel in base. Black or Red. **23c**
 (F) Bakelite head. Red or Black Single Post. 1/2" dia. head, 8-32x5/8" stem. Overall length 1". **11c**

SOLDERING LUG STRIPS

Very popular for all types of radio-amplifier work. Terminals securely riveted to bakelite insulation strip. Mounting lugs for quick, handy solder or screw mounting. Rigid and sturdy. Simplifies all wiring.

No.	Type	Each for
12A1261	5101	.02 .15
12A1262	5110	.02 .15
12A1263	512	.02 .15
12A1264	501	.02 .15
12A1265	502	.03 .18
12A1266	503	.04 .25
12A1267	5201	.03 .18
12A1268	5210	.03 .19
12A1269	5202	.03 .24
12A1270	5211	.04 .26
12A1271	5220	.04 .30
12A1273	5302	.04 .31
12A1272	5302A	.04 .30
12A1274	5320	.04 .32
12A1275	5402	.05 .36
12A1256	5411	.05 .37
12A1257	5420	.05 .38
12A1258	5511	.06 .41
12A1259	5620	.06 .47
12A1260	51023	.13 .99

For Quantities of 100 or More Deduct 10% From Above 10 Lot Price. **35c**
 TERMINAL ASST. Terminal strips with lugs, as listed above.
 No. 18A9. PER ASSORTMENT OF 25

MILLEN HIGH VOLTAGE SAFETY TERMINAL

Black bakelite insulated bushing extends through chassis. Single conductor fully enclosed. Easily mounted in 1/2" round hole. Millen No. 37001. **40c**

NATIONAL TERMINAL ASSEMBLY

A low-loss binding post for high frequency use. Mounts solidly on any thickness panel. Posts take banana plugs at top and guy wire through holes at bottom simultaneously if desired. National type FWH. **66c**
 No. 17A1068. Each

SUPER QUALITY BINDING POST

Rating 30 amps. 1000 Volts. Insulated bakelite collars for mounting on panels up to 5/16" thick. Has center hole in top for Standard banana plug and cross hole for up to size 12 wire. 5/8" overall diameter. Mounts 7/8" above panel. 10-32 thread stem. No. 15A1102. Black. No. 12A585. Red. **40c**
 EACH
 100 LOTS. Each. **34c**

MILLEN STEATITE TERMINAL STRIPS

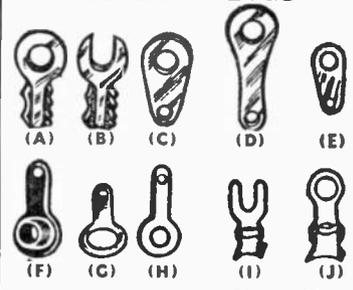
For RF, AC or DC connections to equipment requiring better than average insulation. Each terminal is feed-thru-type with solder studs and 6-32 screw connections. Has holes for surface mounting. **1.00**

FAHNESTOCK CONNECTORS

Stk. No.	Terminals	Type	Price Each
15A1105	2	37302	\$0.60
15A1106	3	37303	.70
15A1107	4	37304	.80
15A1108	5	37305	.90
15A1109	6	37306	1.00

For Quantities of 1,000 or more deduct 10% from 100 Lot Price. **19c**
 FAHNESTOCK SPRING CLIP Assortment. Various types and sizes. No. 17A267.

SOLDERING LUGS



No.	Type	Lgth.	Hole of 100	Pkg.	Pkg. of 1000
12A1286	A	5/8"	6-8	34c	\$3.06
12A1287	B	3/4"	8	34c	3.06
12A1288	C	5/8"	6-8	34c	3.06
12A1289	D	3/4"	6-8	34c	3.06
12A1290	E	1 1/2"	6	34c	3.06
12A1291	F	1 1/2"	4-6	34c	3.06
12A1292	G	3/4"	6-8	27c	2.43
12A1293	F	1/2" Rivet		32c	2.91

No. 12A665. 100 Assorted of above lugs. **34c**

No.	Type	Lgth.	Hole of 20	Pkg.	Pkg. of 100
12A1294	I	7/8"	8	21c	\$0.70
12A1295	J	3/4"	11-64	17c	.55
12A1296	J	7/8"	10	32c	1.06
12A1297	J	1 1/8"	19-64	29c	.97

*Heavy duty type as used on automotive cables, etc.

SHAKE-PROOF TYPE

Stock No.	Hole Size	Pkg. of 20	Pkg. of 100
12A1298	4	14c	56c
12A1299	6	14c	56c
12A1300	8	14c	56c
12A1301	10	14c	56c

Spade Type Soldering Lugs

Cadmium Plated. 6-32 screw end. 12A1302. Pkg. of 20 13c; 100 49c

SHAKEPROOF WASHERS

No.	Fits Screw	100	500
① 19A919	# 4	35c	\$1.45
① 19A920	# 6	35c	1.45
① 19A921	# 8	35c	1.45
① 19A806	# 4	35c	1.45
② 19A922	# 6	35c	1.45
② 19A923	# 8	35c	1.45
② 19A808	#10	40c	1.65

BUSHINGS, SPACERS

Available in Insulated or Brass
 Quite the thing for raising condensers, transformers, sub-panels, etc.

1/4" DIAMETER		3/8" DIAMETER	
Insulated	Brass	Insulated	Brass
12A1449	12A1459	12A1464	12A1464
12A1450	12A1460	12A1465	12A1465
12A1451	12A1461	12A1466	12A1466
12A1452	12A1462	12A1467	12A1467
12A1453	12A1463	12A1468	12A1468

THREADED TYPE BRASS

Threaded on the inside to take a 6-32 screw. All are 1/4" diameter.

No.	Length	Each	10 For
12A1469	1/2"	4c	28c
12A1470	3/8"	4c	34c
12A1471	1/2"	5c	42c
12A1472	3/8"	6c	49c
12A1473	1"	7c	54c

WALSCO TEST RECORDS FOR TESTING AND ADJUSTING OF RECORD PLAYERS, CHANGERS, PICKUPS, AMPLIFIERS, ETC.

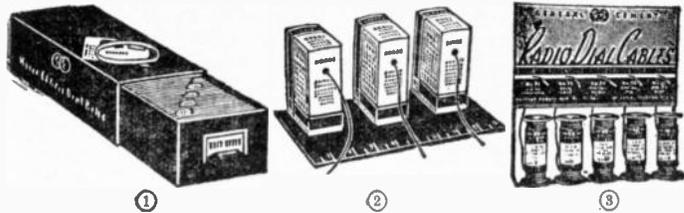
Provides Servicemen, Experimenters, Radio Engineers, etc., with an accurate means for checking the mechanical performance of record changers and players, and for checking the frequency response of pickups, amplifiers and speakers. Records are made of unbreakable plastic and are long lasting.

No. 720. Has 3 tone signals in lead-in groove for indicating proper set-down position of pickup arm. Tone signal at end of record indicates proper tripping action. Saves time—record plays only 45 seconds. 10" and 12" records can be mixed for checking intermixed changers.

No. 4A47. 10" Record. EACH	\$0.97	4 Lots. EACH.	\$0.88
No. 4A48. 12" Record. EACH	\$1.46	4 Lots. EACH.	\$1.31
No. 726. 10" Record. One side is a test frequency record at the National Association of Broadcasters Standard level. Range 10,000 to 50 cps. in 16 steps. For checking frequency response of pickups, amplifiers and speakers. Other side is the same as No. 720 described above. EACH	\$1.12		
No. 4A80. EACH	\$1.12		
No. 727. 10" Record. One side has 1000 and 400 cycle tones for 1 min. each. Tests for irregular turntable speed (wow). Other side is the same as No. 720. EACH	\$1.12		
No. 4A81. EACH	\$1.12		
No. 728. 10" Record. One side has silent (no modulation) groove. Checks for turntable rumble. Other side same as No. 720. EACH	\$0.97		
No. 4A82. EACH	\$0.97		
SET OF 4 RECORDS. One each of Nos. 720 (10"), 726, 727, 728.	\$3.91		
No. 4A83. PER SET			

GE SERVICE ITEMS, DIAL BELTS and ACCESSORIES

POPULAR DIAL BELTS AND CABLE KITS



① KIT OF 25 DIAL BELTS

Woven fabric made-up dial belts in handy kit with chart.
No. 15A2023. Per Kit..... **\$4.41**

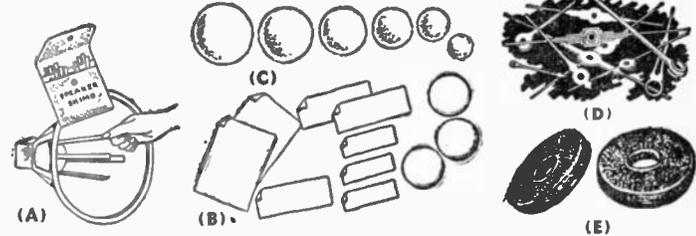
② 300 FEET DIAL CORD AND RACK

Assortment Includes 100 Ft. pre-stretched Special Thin Cord, fibreglas core. Just right for most small sets. 100 Ft. of pre-stretched Standard Cord, fibreglas core, diameter .031". 100 Ft. of Medium Cord.
No. 11A277. 300 Ft. Cable With Rack..... **\$5.82**

③ FIVE 25-FOOT SPOOLS WITH RACK

Metal rack hangs on wall. Has ruler on rack to measure length of cable desired. Contains 25-foot spool each of 42-strand Phosphor Bronze cable, Heavy Linen, Light Linen, Special Thin Linen and Special Thin Phosphor Bronze.
Stock No. 15A2026. Your Cost Per Assortment..... **\$3.82**

SPEAKER SHIMS—DIAL POINTERS—ACCESSORIES



(A) SPEAKER SHIMS

Kit of 16 assorted Swedish Steel Shims, very flexible.
No. 11A158. Per Kit..... **41c**

Kit of 20 assorted Fibroid Shims, especially flexible and tough
No. 11A159. Per Kit..... **38c**

(B) SPEAKER CONE PATCHES
12 assorted. Speedily patches cones. A specially fabricated material and adhesive which forms a permanent bond.
No. 16A430. Per Asst..... **24c**

(C) VOICE COIL DUST FELTS

25 assorted, Felt disc same as used on speaker voice coils to keep dust out. Can be glued on any speaker.
No. 16A567. Per Asst..... **24c**

(D) DIAL POINTERS

10 Assorted Pointers for replacement needs on many makes of sets.
No. 12A1171. Per Assst. of 10... **50c**

(E) KNOB FELTS

50 Felts as used behind radio knobs on all the latest sets.
No. 18A2. Per Env. of 50... **24c**

DIAL CABLES IN PLASTIC CONTAINERS

Containers are non-breakable and transparent.
Phosphor Bronze Cable

A good quality cable made of phosphor bronze wire, braided on a finely spun glass core.
11A66. Per 25-Ft. Spool..... **73c**

NYLON DIAL CABLES

Made of braided nylon as used by 95% of all sets. All 25-Ft. Spools.
No. 11A67. Extra Thin..... **73c**
No. 11A68. Medium..... **73c**
No. 11A69. Heavy..... **88c**

DIAL BELTS WOVEN FABRIC

Exact duplicates of originals. Finest quality, heat and moisture proof. Treated to prevent slipping. State make and model of set for which desired.
No. 21A1006. Each..... **15c**

Non-Slip Compound

A special compound for application to slipping dial cables, friction drives, belts, cords, etc. Makes them hold instantly.
11A73. POWDER. 2-Oz. Bottle..... **29c**
16A429. LIQUID. 1/2-Oz. Bottle..... **18c**

Dial Cord Dressing

Apply to slipping dial cords and drives.
No. 11A74. Per Stick..... **15c**

Dial Oil

A special oil for radio dials and fine mechanisms. Treated with graphite. Long lasting. Will not gum.
No. 11A75. 4-Oz. Can..... **29c**

Dial Drive Cement

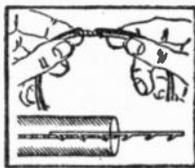
To cement rubber dial drives to metal shafts, rubber mountings to chassis, or any rubber to metal.
No. 11A76. 2-Oz. Bottle..... **29c**

Plastic Dial Crystals

Special design makes it possible to use one basic crystal to fit any dial. Template, supplied with crystal, is used to cut a circle of any diameter with ordinary scissors. Made of unbreakable plastic. It can be cemented firmly in place. For Radios, Clocks, test instruments, dash board dials, etc.
No. 16A431. 6" Max. Diam..... **85c**
No. 16A432. 9" Max. Diam..... **\$1.06**
No. 16A433. 8x10" Flat Sheet..... **97c**

J.F.D. BALLAST KIT

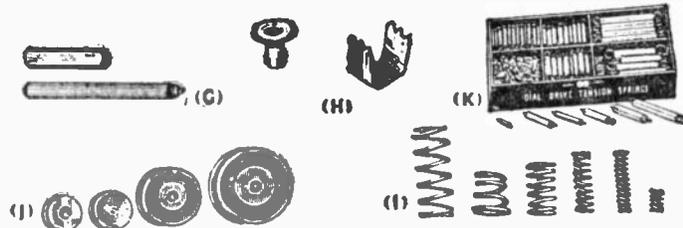
Contains 5 adjustable ballasts: 2 type A, 2 Type B, and 1 Type C with complete instructions for replacing over 2500 exact duplicates.
15A2012. Per Kit..... **\$4.41**



WALSCO "UNIBELT"

THE UNIVERSAL DIAL DRIVE BELT—CAN BE CUT TO FIT ANY DIAL DRIVE—Will Not SLIP or STRETCH
Comes in 5-foot length spools and can be installed without taking dial mechanism apart. A real time and money saver. Eliminates the need for stocking numerous sizes of belts.
No. 19A1207. Per 5-Ft. Spool..... **\$1.62**

CABLE CLAMPS—CLIPS—PULLEYS—ETC.



(G) CABLE EYELET TOOL
Consists of base and clincher. Handy for riveting or turning eyelets on dial cables.
No. 11A275. Per Set..... **59c**

(H) CABLE CLAMPS, EYELETS
60 Assorted. Same as used on ready made dial cables. Make up your own cable and belts.
No. 11A72. Per Assortment... **24c**

(I) DIAL CABLE CLIPS
Envelope of 50 Clips (ONLY). For use on all types of Dial Drive Cord assemblies. Make up your own special cords with these clips.
No. 17A1009. Env. of 50 Clips **24c**

(J) COMPRESSION SPRINGS
Assortment of 20. For use on dials, push-button tuners, phono motors, etc.
No. 17A1010. Per Assortment of 20..... **24c**

(K) BRASS DIAL PULLEYS
Kit of 6 Assorted Idler dial pulleys, several sizes included.
No. 17A1011. Per Assortment **24c**

(L) FIBRE DIAL PULLEYS
Kit of 10 Assorted Idler dial pulleys, several sizes included.
No. 11A80. Per Assortment... **24c**

(M) ALUMINUM DIAL PULLEYS
Kit of 10 Assorted Idler dial pulleys. Precision made, distortion free—non-warping. Handy for replacements.
No. 15A1116. Per Assortment..... **19c**

(N) DIAL DRIVE SPRINGS
Kit of 25. Contains 6 sizes to take care of any dial job.
No. 11A77. Kit of 25..... **70c**
No. 11A78. Pkg. of 10 assorted springs of various sizes... **24c**
No. 11A79. Pkg. of 10 assorted small dial springs..... **24c**

BALLAST TUBES FOR AC-DC SETS

J.F.D. AIR-COOLED ADJUSTABLE

Just 3 Types Replace Over 2500 Exact Duplicates. Easily adjusted to the correct resistance. Housed in air-cooled perforated shell. Types A and B have octal base, Type C, 4 prongs.

REPLACES BALLAST TUBES

J.F.D. Type No.	Stock No.	Beginning With Letter	No. From	Ending In the Letter
"A"	15A2009	K, L, M, BK, BL, or BM	6 to 42	A to H
"B"	15A2010	K, L, M, BK, BL, or BM	45 to 105	A to H, S1, S2, S3
"C"	15A2011	All 4-prong	80 to 350	R, R4, R8, L, L4, L8L

YOUR CHOICE, Type A, B or C. Net Each..... **88c**

AMPERITE BALLAST TUBES FOR AC-DC SETS

REPLACES BALLAST TUBES

Amperite Type No.	Stock No.	Starting With Letter	Numbered From	Ending in the Letter
KL 45	15A2000	K, L, M, or BK	36 to 67	A, B, C, or D
KL 75	15A2001	BL or BM	67 to 105	A, B, C, or D
KL 50H	15A2002	K, L, M, or BK	36 to 67	F, G, or H
4P45	15A2024	KX, or LX	42, 49, 55	B, C, or D

For L55B, order 15A2006; for 200R, 15A2007; for 250R, 15A2008.
YOUR CHOICE, ANY TYPE. NET EACH..... **73c**

PHONO TURN-TABLE DRIVES

No. 17A1004—Envelope of 2 No. 18 Phono Drives for General Industries RX-LX Motors, etc. Env. **24c**
No. 17A1005—Envelope of 2 No. 17 Phono Drives for Alliance Model 80 and Motorola Motors. Per Env. **24c**
No. 17A1006—Envelope of 3 No. 18 Phono Drives for RCA. Env. **24c**
No. 17A1007—Envelope of 3 No. 19 Phono Motor Drives for Philco, RCA and etc. Per Env. **24c**
No. 17A1008—Envelope of 1 No. 20 Phono Drive for Detrola. Ea. **24c**
17A1012. Spring phono drive for Detrola Model 550, etc., Utah, Trela and others. Each..... **29c**

TURNTABLE SPRING ASST.

As used in most popular types of changers.
16A570. Asst. of 10 Small Sizes. **24c**
16A571. Asst. of 8 Large Sizes... **24c**

RESISTOR CORDS

For AC-DC Sets

Flexible, sturdy, 6 ft. cords with trim bakelite plug and three well insulated color coded leads. End terminals are tinned.

Ohms	Stock No.	Ohms	Stock No.
135	15A2015	290	15A2013
160	15A2014	300	16A451
180	15A2020	330	15A2016
200	16A450	350	15A2017
220	15A2019	390	16A452
250	15A2018		

CHOICE EACH..... **69c**

High Resistance Line Cords.
450 Ohms, Stock No. 16A453.
560 Ohms—For 3-way portable radios.
Stock No. 15A2022.

960 Ohms—For sets using 4523 rectifier. Stock No. 15A2025.
Choice High Resistance Cords, Each..... **\$1.01**

MOTOROLA LINE CORD
For Models 41D, 51D, 52D, 41H. Contains 1,100 ohm and 280 ohm resistors. 8 ft. long.
Stk. No. 16A454. Net Ea. **\$1.21**

UNIVERSAL A.C.-D.C. LINE CORD
Adjustable 22 to 330 ohms.
No. 15A2021. Each..... **99c**

J.F.D. AC-DC BALLAST MANUAL
Information on how to adapt adjustable ballasts to all service jobs. FREE when requested with order. 16A317.



Service Aids for the KIT, SHOP or LAB

RADIO CEMENTS



SERVICE CEMENT
Especially suitable for replacing and repairing speaker cones. Also used on glass, to seal adjustments, hold wires in place, etc. Dependable, Vibration - proof, water-proof, and fast-drying.
No. 11A33. 2-Oz. .29c
No. 11A34. 6-Oz. .82c
No. 16A499. 1 Pt. 1.94
In Handy Tubes. .29c

SOLVENT THINNER FOR ABOVE
Also ideal for loosening old cement, cleaning switch points, controls, etc.
11A35. 2 Oz. 29c 11A36. 6 Oz. 50c
No. 16A498. 1 Pt. .82c

CEMENT-SOLVENT KIT
Consists of a bottle each of cement and solvent in a kit to carry on job.
11A37. Per Kit. .44c

RUBBER CEMENT
Best quality for general use on paper, cloth, rubber, etc. A necessity in every shop.
11A12. Per 4-Oz. Bottle. .41c



BAKELITE CEMENT
Made especially for cementing bakelite to bakelite or to other materials. Produces bond as strong as material itself. Ideal for radio cabinets, knobs, dials.
11A39. 2 Oz. Price 35c

PLASTIC CEMENT
Pyroxilyn cement for cementing all types of plastic.

Excellent for cementing broken cabinets, knobs, etc.
No. 16A440. 2 Oz. Bottle, Ea. .35c

VINYLLITE CEMENT
Specially made for cementing vinylite materials. Has excellent adhesion, high tackiness, and extreme flexibility. Also can be used for cementing metals, plastics, paper, leather, etc., and as a thermoplastic cement for non-porous materials.
No. 16A441. 2-Oz. Bottle, Ea. .35c

LUCITE CEMENT
For cementing Lucite, Plexiglass, etc. Fast drying.
No. 16A575. 2-Oz. Bottle. .35c

RUBBER TO METAL CEMENT
Cements rubber dial drives to metal shafts, rubber mrgs. to chassis, etc.
No. 11A76. 2 Oz., Price. .29c

FABRIC TO METAL CEMENT
For cementing cloth and felt to metal. Ideal for cementing felt to turntables, grille cloth to metal cases, etc.
No. 16A442. 4-Oz., Price. .41c

GRILLE CLOTH FABRIC CEMENT
For cementing grille cloth, luggage fabric, leather, etc., to metal or wood.
No. 11A11. 1/2 Pt. Can. .59c

ELECTRICAL and RESISTOR CEMENT
Heat-proof, hardens like porcelain. Same as used on resistors, Irons, Electrical appliances, etc.
No. 16A574. 2 Oz. Bottle. .35c

WOOD CABINET GLUE
Finest quality, fast drying. Will not injure finest of cabinets. Holds fast.
No. 11A41. 4-Oz. Bottle. .41c
No. 11B177. 1-Pt. Bottle. .97c

FILM SPLICING CEMENT
For Splicing Motion Picture films or similar material. Makes splice as strong as film itself.
No. 11A64. 1-Oz. Bottle. .24c

LACQUER THINNER
For lacquers, lacquer enamels, telephone black and gray, etc.
No. 16A578. 2-Oz. .29c
No. 16A579. 8-Oz. .56c

CEMENT LAB-KIT
A cement and adhesive for every conceivable use and purpose. A necessity in every shop and factory.
No. 16A569. Per Kit. \$3.53

CRYSTALLIZING LACQUER
Produces a professional crystal effect on metal panels or parts. Can also be used for wood or other materials. Easy to apply, quick drying.
11A53. 2 Oz. Bottle. Black. .35c
11A54. 1/2 Pt. Can. .103

POPULAR TELEPHONE BLACK AND GRAY
Satin finish lacquer enamel of rich professional looking appearance. Not glossy, it is a lasting, fast drying, one-coat finish. Black will produce an ebony black finish that is so familiar on telephone devices. Grey is excellent for panel work and

DIAL LITE COLORING KIT
Long lasting coloring for multi-colored dials. Instant drying. Bright colors of red, green, blue, amber, purple, and solvent. Dress up those old sets.
11A65. Per Kit. .59c

R M A COLOR CODING KIT
Kit contains jar each of red, gray, white, black, brown, orange, purple, blue, green and yellow high quality fast drying lacquer enamel. Complete with brush and color code chart.
11A57. Per Kit. \$1.15

LUMINOUS LITE-KOAT KIT
"Glow in the Dark"
A long - life, non - poisonous luminous coating. Ideal to coat or stripe dials, knobs, switch plates, panels, etc. Kit contains Lite Koat Powder, Mix-Koat and brushes.
16A436. Per Kit. 97c

"RUF-KOAT" AIR DRY WRINKLE VARNISH
Require No Baking or Heating, Dry Fast.
Same professional finish as used on P.A. Test equipment, I.F. transformers, chassis, panels, racks, etc. Easy to apply. Can be brushed or sprayed.
2 Oz. 11A47 11A49 11A51 35c
1/2 Pt. 11A48 11A50 11A52 1.03

PAINT THINNER
Paint Thinner—For Ruf-Coat, Krome-Koat, B-K Cement, Insulating Varnish and Rubber Cements.
No. 16A576. 2-Oz. .29c
No. 16A577. 8-Oz. .56c

PAINTS — VARNISHES — COMPOUNDS

SCRATCH STICK
Contains filler and scratch polish in one. Handy for tool kit or pocket.
No. 11A17. Each24c

SCRATCH REMOVER POLISH
Contains proper stains to eliminate surface scratches on cabinets.
Size Dark Shade Light Shade Ea.
8-Oz. 11A60 16A438 29c

LEMON OIL POLISH
Polish sets after repair for customer good will. Fast working. Low cost.
No. 11A7. 16-Oz. Bottle. .35c

FRENCH VARNISH KIT
Contains French Varnish, Emulsion, Polishing Pad and directions to blend cabinet repairs with old finish.
11A10. Per Kit. .82c

PLASTIC TOUCH-UP KIT
Contains six shades of lacquer enamel and brushes. Easy to touch up scratches and nicks in plastic cabinets.
11A63. Per Kit. .82c

SCRATCH REMOVER KIT
Kit contains 6 Stain Crayon fillers and 2 bottles of scratch fluid. For light and dark shades of wood.
11A58. Per Kit. .82c

VARNISH, STAINS, ETC. FOR CABINET REPAIRS

PLASTIC CABINET TOUCH-UP KIT

PLASTIC TOUCH-UP KIT

SCRATCH REMOVER KIT

PLASTIC TOUCH-UP KIT

SCRATCH REMOVER KIT

RADIO - REFRIGERATOR CABINET REPAIRS



(A) **DE LUXE CABINET REPAIR KIT**
FOR WOOD, PLASTIC OR BAKELITE RADIO CABINETS

A complete professional kit in a handy grey metal case. Contains 9 shades of shellac sticks, bottles of light and dark oil stain, metal shading lacquer, polish, scratch remover, alcohol lamp, spatula, brushes, steel wool, sandpaper, etc. Everything to do a professional repair job on any type or color cabinet, knobs, etc. No special skill required.
No. 11A2. Complete Kit. . \$3.20



(B) **PORCELAIN CABINET REPAIR KIT**

For Refrigerator, Stove, Washing Machine or other porcelain cabinets. Kit contains lacquer enamel, tinting colors, glazing compound, solvent, spatula, steel wool, sandpaper, mixing tins, brushes, etc. Everything to do a perfect job.
No. 11A1. Complete Kit. . \$2.55



(C) **CABINET TOUCH-UP KIT**

Includes light and dark stain, brushes, wiping cloth and scratch filler. To service scratches and dents on the job.
No. 11A18. Complete Kit. . \$5c



FRENCH VARNISH KIT

Contains French Varnish, Emulsion, Polishing Pad and directions to blend cabinet repairs with old finish.
11A10. Per Kit. .82c



PLASTIC TOUCH-UP KIT

Contains six shades of lacquer enamel and brushes. Easy to touch up scratches and nicks in plastic cabinets.
11A63. Per Kit. .82c



SCRATCH REMOVER KIT

Kit contains 6 Stain Crayon fillers and 2 bottles of scratch fluid. For light and dark shades of wood.
11A58. Per Kit. .82c

VARNISH, STAINS, ETC. FOR CABINET REPAIRS

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Contains filler and scratch polish in one. Handy for tool kit or pocket.
No. 11A17. Each24c

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VARNISH, STAINS, ETC. FOR CABINET REPAIRS

PLASTIC CABINET TOUCH-UP KIT

PLASTIC TOUCH-UP KIT

SCRATCH REMOVER KIT

PLASTIC TOUCH-UP KIT

SCRATCH REMOVER KIT

RADIO CHEMICALS

CONTACT AND CONTROL REPAIRS

Specially made to eliminate noise on controls and contacts without taking them apart.



CARBON CONTROL CLEANER

Repairs noisy volume controls, switches, etc., while chassis is in cabinet. Removes oxidation and minimizes future trouble by coating contacts. Special applicator supplied.
No. 16A443. 2 Oz. Each.35c

CONTACT SILVER PLATE

For plating new or worn contacts and metals (Copper, brass, bronze, zinc, German and nickel silver) without special equipment. Merely wipe into metals with soft cloth.
No. 16A439. 2 Oz. Each.44c

CARBON TETRACHLORIDE

For cleaning electrical controls and contacts. Brush supplied in bottle.
No. 16A580. 8 Oz. Each.56c
No. 16A581. 16 Oz. Each.97c

GRAFOLINE

To eliminate noise on wire-wound controls, switches and contacts on tube prongs.
11A24. 2 Oz. Bottle.29c

CONTACT DOPE

To prevent corrosion and eliminate noise on electrical or radio switches, contacts, relays, etc. Put up in handy, long-neck tubes.
11A22. Per Tube.24c



CARBON-X

For noisy carbon controls. Apply on the worn and noisy spots and the job is done.
11A23. 2 Oz. Bottle.59c

LUBE-REX

Moisture repellent, rust and corrosion preventive, and cleaner for all types contacts, switches, attenuators, locks, reels, guns, dial mechanisms, phone equipment, etc. Clings to metal.
11A21. Per 2-Oz. Bottle.35c

CONTACT AND CRYSTAL CLEANER

To clean crystal and delicate contacts without injury.
11A19. Per 2-Oz. Bottle.29c

INSULATING and DIPPING VARNISH

Clear, amber colored insulating varnish. Produces smooth, tough film, waterproof, oilproof, non - corrosive. For field coils, buzzing or noisy transformers and choke coils. Dip or apply with brush. Requires no baking, dries in air. Protects, insulates.
11A27. 1/2 Pint.85c
11A28. Full Pint. \$1.15

"Q-DOPE"

For HF Coils, Insulation, etc. An ultra low-loss compound made from Polystyrene and recommended for HF work. Absolutely no loss in Q—fast drying, maintains coil characteristics.
11A25. 2-Oz.35c

ORIGINAL "LIQUIDOPE"

For holding all wave coil windings firmly in place. Automatically tightens winding and gives tough, protective film assuring firmness and preventing characteristic changes due to moisture or weather. Non-inductive, fast and clear drying.
11A26. 2-Oz. Bottle.35c

RADIO CHEMICAL KIT

8 radio chemical necessities, including bottle each of Service Cement, Rubber Drive Cement, Carbon X, Grafoline, Scratch Polish, Non-Slip Dial Compound, Dial Oil, and Contact Cleaner.
No. 11A32. Per Kit. \$1.94



SERVICE STANDS—and OTHER SHOP AIDS

SWISS COLD SOLDER

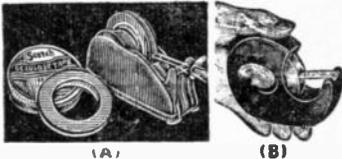
A waterproof putty-like material made from metal for the purpose of filling holes, cracks, dents, seams, etc., in any metal object. Applies with an ordinary putty knife and requires no heat or flame. Dries quickly and adheres permanently to bare metal. Does not shrink or pull away. Can be sanded or filed smooth after applying. Looks like metal and takes paint like metal itself. An ideal material for the hobby-builder, repairman or for use around the home and automobile. Not intended for soldering wires or making electrical connections. **54c**
No. 16A337. 8-Oz. Can. Each.

WALSCO PROTECTO-TUBE KIT



New synthetic tubing for insulating handles of pliers, screwdriver blades, test prods, etc. Abrasion resistant, will not crack or shatter. Special Expanding Solution causes tubing to swell for easy application, then to shrink on tight upon drying. Kit consists of 12 ft. of assorted sizes and colors of tubing, jar of Expanding Solution, and instructions. **97c**
No. 20A572. COMPLETE KIT.

"SCOTCH" Cellulose Tape



"Scotch" Transparent Tape—sticks to anything. Handles numerous mending and sealing needs, including repairing of torn cones, anchoring coils, etc.

2592 Inches to Roll
No. 11A278 1/2" Wide Each 6 at Ea. \$1.28 \$1.16
11A279 3/4" 1.60 1.44
(A) 3A22. Dispenser for above.
Each \$1.95

1296 Inches to Roll
No. 11A280 1/2" Wide Each 6 at Ea. \$0.75 \$0.68
11A281 3/4" .90 .81
(A) 3A23. Dispenser for above.
Each \$1.69
(B) Hondy plastic dispenser and 1296 inches of 1/2" tape.
No. 11A283. Each \$1.14

QUIK-LABELS CODE CARD SYSTEM

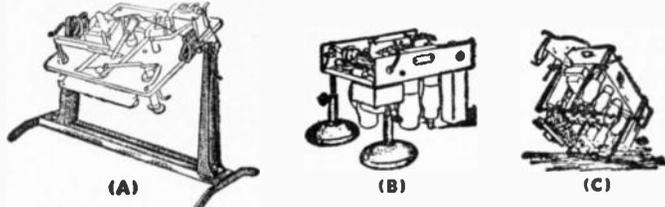


Codes wires, leads, circuits, relays, and other parts fast and cheap. Easy to use, they stick-quick without moistening. Comes on handy card, 6 of each number, 1 to 33. **15c**
No. 19A259. Per Card.

WALSCO CONTACTENE INJECTOR

For applying Radio Chemicals (No-ox, contact dope, dial oil, etc.) to spots not accessible with ordinary applicators. Made with highest quality surgical grade needle and oil resistant rubber bulb. **44c**
No. 11B234. EACH.

CHASSIS AND TURNTABLE STANDS



(A) **ACRO CHASSIS CRADLE FOR RADIO, AMPLIFIER & PHONO**
Improved Extra-Sturdy construction eliminates wobble, provides rigid dependable operation. Holds any radio, amplifier, or record-changer chassis in any position for inspection, repairing, or assembling. Non-slip jaw-type clamps can be rotated to quickly change chassis to any angle. Uprights are adjustable to suit chassis width. Fingertip control provides fast easy manipulation.

STANDARD MODEL
Made of pressed steel. Shipping wt., 8 lbs.
No. 33B12. Each \$4.95

(B) **RADIO CHASSIS JACKS**
Use to prop up sets on bench. Adjustable to fit any set, or any condition. Convenient to have on the bench—takes up little space. Made of Metal.
No. 11A4. Per Pair \$1.26

DELUXE MODEL
Made of cast aluminum. Shipping wt., 5 lbs.
No. 33B85. Each \$6.81

(C) **RADIO CHASSIS GUARDS**
Fits any chassis. Easy and Fast to apply! The answer to the Radioman's problem—protects Tubes and Parts, while working on set in any position.
No. 33C87. Per Pair \$1.47

SERVICEMEN LOOK!

CUSTOMER GOOD WILL—More Efficient Turnover of Work—Better Procedure Methods—These are just a part of the advantages gained with the use of the following books and aids. Look them over carefully. Each is a "must" for every shop.

JOB TICKETS

100 Job Tickets in spiral bound pad and numbered. Each ticket consists of Customer's Receipt, Tag to attach to repair job, and Permanent Record Card—all detachable. Space provided for serviceman's rubber stamp. Size, 9 1/2 x 4 x 7/8. **\$1.25**
No. 16B53. Pad of 100.

RADIO SERVICE WORK SHEET

Show your customer full details on his repair job. Sheet has 38 possible minor repair check-offs plus space for parts used, labor, service charges, etc. A complete statement of the job. Keeps track of work done. **60c**
No. 16B7. Pad of 60 Sheets.

RADIO SERVICE STANDARD RATE BOOK

NEW 3rd Edition—Helps determine service rates, retail prices on standard parts, and general service procedure. **\$1.00**
No. 16A17. EACH.

TROUBLE TRACING IN AC-DC RADIO RECEIVERS

For Serviceman, Radio Dealer, and Student—Servicing data written simply with technical terms held to minimum. Includes test cases, parts analysis, alignment and repair procedures. 56 pages. **\$1.00**
No. 16B19. EACH.

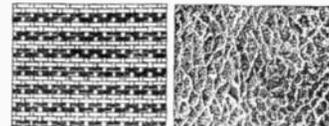
RADIO FABRICS FOR CONSTRUCTION and REPAIR

SPEAKER GRILLE CLOTH



Finest quality with beautiful tapestry effect pattern.

Size	Brown	Ivory	Price
18x20"	11A45	16A434	\$0.73
9x18"	11A46	16A435	.34
6x6"	16A424	16A425	.15
1 yd.x1 yd.	20A795	20A796	3.38



(A) **AEROPLANE-TYPE FABRIC**
Fabric used on all portable radios. Ideal for repairing, or modernizing portables, test apparatus, home-built radios, etc. 36" wide. Brown. **\$1.79**
No. 21A1008. Per Yd.

(B) **LEATHERETTE FABRIC**
For instrument cases, portables, etc. Same as used by most manufacturers on original cases. Ideal for repairing or new work. 36" wide. Specify Brown or Black. **\$1.79**
No. 21A1009. Per Yd.

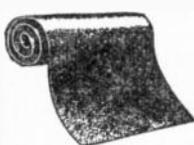
GRILLE CLOTH FABRIC CEMENT
For cementing grille cloth, luggage fabric, leather, etc., to metal or wood. No. 11A11. 1/2-Pt. Can. **59c**

Turntable Replacement Felts

11A42	7 7/8" diam.	Each	28c
11A43	9 7/8" diam.	Each	38c
11A44	11 7/8" diam.	Each	44c
11B310	15 7/8" diam.	Each	78c

Use Fabric to Metal Cement listed on opposite page to apply felts above.

METAL FLOCKED GRILLE SCREEN



For use on intercom systems, speakers, radios, or anywhere where a strong protective grille is necessary. Made of electro galvanized metal screen, it is flocked with a smooth rayon velvet-like flock on both sides. It can be bent to any shape, and is weatherproof for outside use.

Size 8x11"
No. 16A522. Walnut. **50c**
No. 16A523. Ivory.

Size 18x24"
No. 16A456. Walnut **\$1.71**
No. 16A457. Ivory.



Chrome-O-Plate READY MIXED ALUMINUM PAINT
● HEAT PROOF ● RUST PROOF ● WEATHERPROOF
Makes old equipment look as good as when new. Use on chassis, Transmitters, anywhere a chrome metal finish is desired. Fast drying—dries in approximately four hours; easy flowing—can be brushed, dipped or sprayed. **44c**
No. 11B294. 1/2-PINT CAN.

DeLuxe FELT-KOAT FLOCK BLOWER KIT

Professional job done without experience or special skill. Special designed gun distributes flock evenly and blows each fibre into the undercoat vertically, giving a smooth velvet finish. Use on phono turntables, Cabinets, grilles, tool boxes, hobby items, etc. Kit contains blower gun, cans of brown and ivory flock, brown and ivory under-coat, thinner, brush and instructions. **\$6.17**
No. 32B207. Per Kit.

DE LUXE BLOWER GUN
As used in above kit. **\$2.56**
No. 16A418. Each.

FELT-KOAT FLOCK KITS
Kit containing flock, special applicator, and 4-oz. can of undercoat.
No. 11A6. Brown. Per Kit
No. 16A407. Black. **\$1.26**
No. 16A406. Ivory.

FELT-KOAT FLOCK MATERIALS
Flock Undercoat
16A409 Brown. 16A412 Brown.
16A410 Black. 16A413 Black.
16A411 Ivory. 16A414 Ivory.
1 1/2-Oz. Can. 59c 8-Oz. Can. \$1.15
No. 16A415. Thinner. 8-Oz. \$35c

INSULATING MATERIALS

Radio Friction Tape
High quality friction tape, specially made for radio work.
11A31. 3/8" narrow 65 ft. roll. **32c**
20A65. 3/4" regular 1/2 lb. **35c**

Insulating Cambric

Breakdown voltage 10,000 volts. Handiest item in any service shop for insulating. Prevents grounds and shorts on field coils, transformers, resistors, condensers, wires, etc. Dry Yellow Cambric in rolls of over 210 square inches. No. 11A29. **44c**

"Fish Paper"

High grade fibre sheet paraffined for insulation purposes. Fine for field coils, transformers, etc. .010 thick, sheet of 240 sq. in. **29c**
11A30—Per Sheet

Laminated Bakelite Panels

For insulating parts, terminal strips, etc. Glossy Jet Black. Select quality. 6x6x1/16". **35c**
No. 11A179.

CLEANERS for RADIO and TELEVISION

CHASSIS CLEANER
Removes dirt, grease, scum from radio chassis, etc. Non-explosive. Will not injure surface. **41c**
11A62. 8-Oz. Bottle.

TELEVISION LENS and TUBE CLEANER
Eliminates finger marks and spots. Make tube and lens crystal clear. No. 11B61. **44c**
8-Oz. Bottle. Each.

WALSCO "NO-OX"

DISSOLVES CORROSION BY CHEMICAL ACTION
Fast acting non-gumming lubricant, cleaner, and preserver which contains no solvent. Its action is entirely chemical. Highly recommended as a contact and control cleaner. **50c**
No. 20A571 1 Oz. Bottle, Ea.

B-A stocks All popular Radio Books



Elements of Radio

By Marcus and Horton

Second Edition. A-to-Z of basic radio communications. Learn radio in a few short weeks without previous instructions in radio, electricity, math, or physics. Features included: 535 working diagrams and illustrations, step-by-step directions for actually building experimental radio sets, non-technical explanations throughout. Handbook style. 768 pages. **\$4.17**
No. 16A47. Each.....

FM Simplified

By Kiver

Clear explanation of FM receiving and transmitting. 347 pages. **\$5.88**
No. 16A573. Each.....

Terman's Radio Engineering

Revised Third Edition

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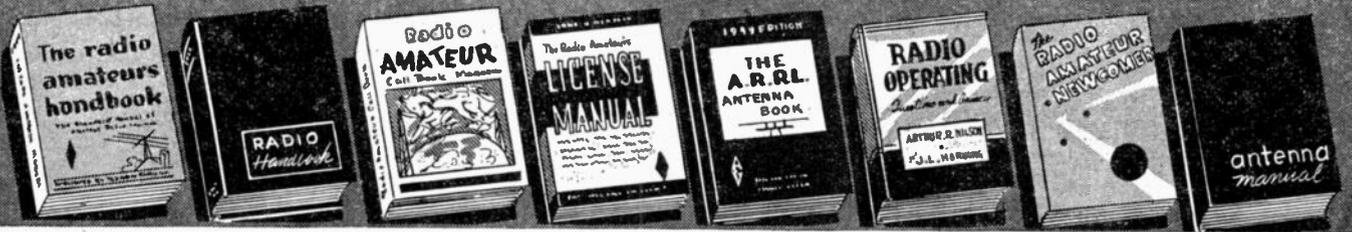
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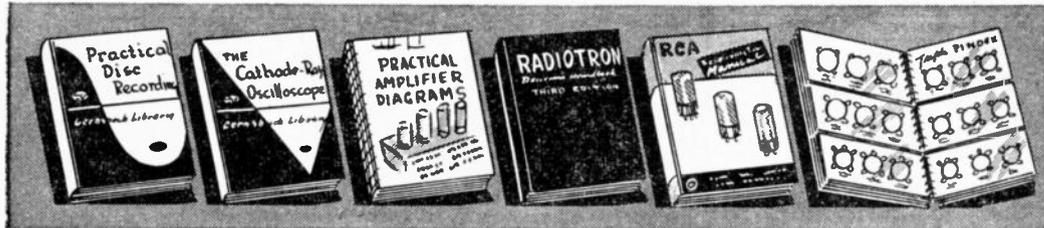
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Tells all you need to know about TV antennas—what type to select; how to install it. how to solve troubles. 192 pages. 124 illustrations.
No. 16B292. EACH..... **\$1.25**

PHOTOFAC SERVICE MANUALS SAVES TIME — EARNS MONEY

Accurate and complete service data on post-war receivers. Includes: Schematics, photo views keyed to parts lists and alignment data; parts listing and placements; alignment, coil resistances; dial cord stringing; disassembly instructions; Record changer repair instructions. Volumes contain 10 sets of folios with 30 to 50 sets in each.
Vol. 6, No. 33A25—From December, 1948, to May, 1949.
Vol. 5, No. 33B58—From July, 1948, to December, 1948.
Vol. 4, No. 36A87—From January, 1948, to July, 1948.
Vol. 3, No. 33A54—From July, 1947, to January, 1948.
Vol. 2, No. 33A53—From January, 1947, to July, 1947.
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PhotoFact Folios—Published to date available upon request.
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PHOTOFAC BINDER
Made especially for the Photofac Folders. Expands as sheets are added and lies perfectly flat when open. Will hold 1,000 sheets, accommodating 10 complete Folios. Individual sheets can be removed or inserted quickly. Will stand hard use in the busy shop.
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TUBE REPLACEMENT GUIDE

Shows where to replace each tube in 5500, 1938 to 1947 model receivers. Clear accurate tube diagrams save time—eliminates risky hit-and-miss methods. Handy to have in any shop. Pocket size, 192 pages, completely indexed.
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A specialized photofact volume covering all audio amplifiers, FM tuners, and intercoms published in post-war photofact folders. Includes Webster Models 79 and 80 wire recorders. 352 pages.
No. 16B247. EACH..... **\$3.87**

POST-WAR AUTO RADIOS
EARN EXTRA MONEY... HERE'S HOW
Auto-Radio servicing made easy. Everything you need to know in 360 profusely illustrated pages covering practically every auto set made since 1946. Complete service data on over 100 sets. 8 1/2 x 11". Sturdy binding. **\$4.85**
No. 16B293. EACH.....

Special: Complete section on how to operate a profitable auto-radio servicing business.

RECORDING BOOKS HOWARD W. SAMS

The RECORDING and REPRODUCTION OF SOUND

By Oliver Read
A complete, up-to-date, authoritative reference book essential for those interested in any or all phases of sound recording and reproducing. A thorough treatment of basic Recording methods, Mikes, Pick-ups, Speakers, Amplifiers, and hundreds of other subjects. 180 illustrations. 304 pages. 6x9" cloth bound.
No. 16B294. EACH..... **\$5.00**

ELEMENTS OF SOUND RECORDING

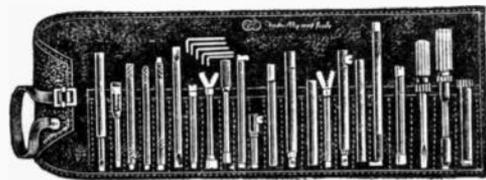
By Froyne S. Wolfe
The basic theory and practice of all phases of sound Recording and Reproducing, including the very latest developments are covered comprehensively. Written expressly for the designer and engineer, it discusses in detail many subjects not covered in other electronic and radio engineering texts. Includes data on noise suppression methods, loud speaker systems, audio amplifiers, sound film, all types of recorders, etc. Profusely illustrated with 483 diagrams and photographs. 686 pages. 6x9 1/4".
No. 16B86. EACH..... **\$8.50**

HOW TO MAKE GOOD RECORDINGS

A complete handbook for the everyday disc recordist.
No. 18A318. EACH..... **\$1.20**

TV and RADIO ALIGNMENT TOOLS-TEST LEADS

G-C RADIO ALIGNMENT TOOL KITS



① Professional Kit
30 Alignment and Neutralizing Tools in a handy leatherette roll type case.
No. 15A2027.
Per Set... **\$11.73**

Each... **\$11.73**
No. 15A2028. As above except in steel box.

② Handy Roll Kit
Contains 17 tools designed into nine basic tools. Takes care of most sets.
15A2029.
Per Kit... **\$3.68**

③ Vest Pocket Kit
Handy all purpose kit in leatherette case. Carry it anywhere. 5 tools including screwdriver for RCA sets.
No. 11A231.
Complete Kit... **\$1.76**



①



②

③

U.H.F. Aligning Tool Redesigned for TV Use

Made from pure Polystyrene — no capacity effect upon critical circuits. No. 11A153. Each... **15c**

Dual Purpose Aligning Tool

For IF and "K-tran" midget transformers. All-insulated tool made of trim fiber, and milled at one end; screw driver at other end. No. 16A520. Net Each... **44c**

Adjustable Neut. Tool

No metal parts. Extension screwdriver on end; Hex socket on other. Tough bone-fibre, shock proof. No. 11A152. Extends 6" to 11". Each... **44c**

G-C Test Probe

Handy to "dig-in" to find the trouble. Fiber point on one end and metal hook on other. No. 11A311. Each... **35c**

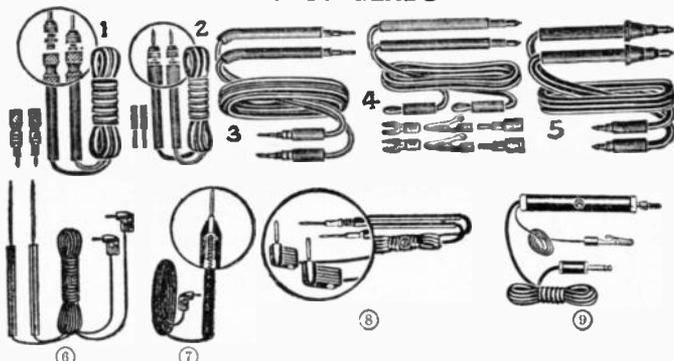
Dial Cable Adjuster

Replaces slipped-off dial cable over drive drum. Permits easy manipulation in cramped spaces. No. 16A469. Net Each... **44c**

Duplex Tip Screwdriver

Low inductance metal tip on both ends. One end is 1/4" and other is turned down to 7/32" diameter for small holes. Strong, durable, completely insulated. No. 11A312. Each... **44c**

TEST LEADS



Made Up of Best Quality Flexible, Kinkless Wire 48" to 50" Long

① LABORATORY TYPE
With removable phono needle chucks and 6" slim red and black handles knurled at end for finger grip ease. Heavy duty kinkless wire with knurled grip handle, insulated solderless plugs. No. 11A166. ICA Type 400. **97c**

② PHONO NEEDLE TYPE
With chucks in which phono needles can be replaced at will. Slim handles and extra flexible kinkless wire and standard phono tips. Slim 4" red and black handles. No. 11A167. ICA Type 382. **53c**

③ UNBREAKABLE TYPE
Long, narrow brass handles covered with shockproof live rubber sleeves. Needle point tip prods and insulated solderless plugs. No. 11A168. ICA Type 331. **68c**

④ ALL PURPOSE TYPE
Sturdy slim 6" Fenolite handles with sharp point tips. Equipped with banana plugs allowing for interchange of spade lugs, phone tips or alligator clips all supplied. No. 11A169. ICA Type 312. Complete Kit... **\$1.47**

⑤ HIGH VOLTAGE TYPE
Safety up to 15,000 volts. For use in TV or wherever high voltage prevails. Thick wall bakelite needle point handles with fingerguards; 48" heavy duty cable; insulated needle point prods. No. 11B170. ICA Type 4317. Each... **\$2.94**

⑥ SLIM LINE TYPE
Long vinyl-insulated shaft permits probing in closely wired circuits without fear of shorting. Red and black tenite handles. 48" wire lead and molded phone tip plug. No. 16A517. Per Pair... **88c**

⑦ SAFE-T-TESTER
Ideal for probing in cramped space. Specially for TV needs. Spring-controlled test point eliminates danger of shorts by making contact only when pressure is applied. Has 7" prod handle and 48" test lead with phone tip plug. Insulated for 10,000 volts. No. 16A519. ICA Type 446. **88c**

⑧ WESTON TYPE
5" long handles of red and black phenolite. Molded finger grip tips. No. 11A171. Type 373. **\$1.03**

⑨ RF & SIGNAL TRACER PROBE

Germanium crystal circuit. Used with audio amplifier for audible tracing, or with V.T.V.M. for RF and AF measurements. 3 mmf. input capacitance minimizes circuit disturbance. Has sturdy bakelite barrel with sealed tenite ends and solderless phone tip; 48" RG59/u coaxial cable with phone plug and 18" rubber covered ground lead with alligator clip. No. 16A840. ICA Type 4310. Each... **\$7.50**

TELEVISION ALIGNMENT TOOLS



① TELEVISION HANDI-SERVICE KIT

TV installing and servicing made easier with this handy kit of 9 of the newest tools. In leatherette roll case. Includes: Dual Aligner; Slim Aligner; Tuning Wand; Deep-Nib Aligner; "Big Stretch" Aligner; and channel tuner, as listed plus dual purpose Aligning tool listed above and "Core" Aligner for stackpole adjustable cores. No. 16A841. ICA Type 6165. Each... **\$4.09**

② SLIM-ALIGNER

Has extra thin recessed blade and slim metal shaft for cramped probing in "Admiral" and similar make TV sets. No. 16A842. ICA Type 6161. Each... **59c**

③ TUNING WRENCH

Insulated fibre tool with extra thin recessed blade on one end, extra thin 4 3/4" long screwdriver blade on other end. For "Zenith" and similar make TV sets. No. 16A843. ICA Type 6164. Each... **44c**

④ TUNING WAND

Fits small coil openings in "Zenith", etc., TV sets. Of flexible vinylite with brass insert on one end and molded powered iron core on other to vary inductance. No. 16A844. ICA Type 6163. Each... **59c**

⑤ ADJUSTING TOOL

For aligning iron core tuning systems. Fenolite handle with screwdriver blade on one end, socket screwdriver on other. No. 16A845. ICA Type 1002. Each... **44c**

⑥ DEEP-NIB ALIGNER

For tuning IF and RF shielded coils and trimmers. Metal nib insulated and set within barrel end. Fits under TV Tubes without removing them. 2 1/2" long by 1/4" dia. No. 16A846. ICA Type 6156. Each... **29c**

⑦ STUB ALIGNER

Tuning tool for cramped spaces. Has exposed nib for screwdriver type controls not carrying high voltages. Of tough fibre. 2 1/2" long by 1/4" diameter. No. 16A847. ICA Type 6155. Each... **24c**

⑧ "BIG STRETCH" ALIGNER

Extra thin and extra long (9"). For adjusting nested iron cores of Admiral, Zenith, etc. TV sets and RCA front ends. No. 16A849. ICA Type 6162. Each... **59c**

⑨ CHANNEL TUNER

All insulated narrow fibre screwdriver for deep, inaccessible tuning. 7" overall length. Blade is 4 1/2" long by 1/8" diameter. No. 16A848. ICA Type 6157. Each... **44c**

⑩ DUAL ALIGNER

Narrow shaft fibre tool for trimmers, IF transformers, etc. Has recessed screw nib on one end, metal screwdriver on other end. No. 16A850. ICA Type 6166. Each... **44c**

G-C TELEVISION SERVICE MIRRORS



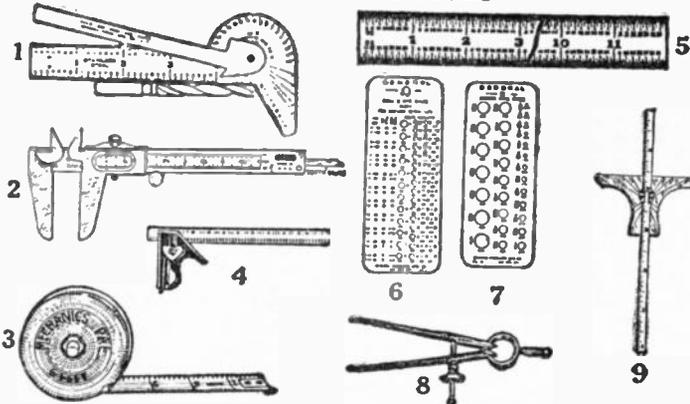
View the screen while adjusting the controls located in the rear of the TV Receiver. Saves time—makes the job easier. 10x16" mirror is mounted in a wood frame. Type 8198 with rubber lined clamp for clamping on chair, etc., in front of receiver. No. 20B898. Each... **\$1.62**
Soft cloth bag for carrying mirror. No. 20A901. **59c**
Each... **59c**
Type 8197. Can be screwed on wall or back of work bench. No. 20B899. Each... **\$1.47**

KNOB PULLER

Makes the job easy. Simply slip behind knob and pull. No. 15A122. Each... **24c**

RULES, GAUGES, WIRE STRIPPERS and TOOL HOLDERS

RULES AND GAUGES



① **Multi-Use Rule and Gauge**
Combines a 4" rule with 32nd and 64th scale, a drill point gauge; a square, a bevel protractor, a circle divider, center finder, and tap drill table. Made of stainless steel with leather case.
No. 11A196. Net Each **98c**

② **Vernier Caliper**
1001 Uses Every Day. Made of cold rolled steel, graduations deeply etched of 1/16" and 1/32" permit close readings. Inside jaws offset and may be used for scribing circles or dividers. 5" capacity. Vernier reading and depth gauge.
No. 11A195. Your Cost, Each **98c**

③ **Combination Square**
A 12"x1" steel blade with clearly etched figures and graduations. Graduated in 8ths and 16ths on one side and 16ths and 32nds on the other. Black enameled beam is equipped with a level and scriber.
No. 16A472. EACH **\$1.25**

④ **6-Ft. Retractable Rule**
Handy 6-foot rolling rule with push-button return. Steel case.
No. 11A230. EACH **38c**

⑤ **12-inch Steel Rule**
Mechanic's Stiff Tempered 12" steel rule, 1" wide. One side calibrated in Quick Reading 32nds and 64ths, other in 8ths and 16ths.
No. 11A303. EACH **\$1.35**

Steel 6-inch Rule with B & S Wire Gauge (Not Illustrated)

Handy pocket all-purpose rule that no serviceman should be without. Made of stainless steel with 1/32" and 1/64" graduations. Has American of Browne & Sharpe wire gauge. Reverse side has gauge numbers and decimal equivalents. With pocket clip.
No. 16A536. NET EACH.... **41c**

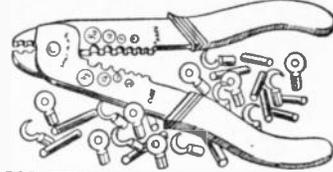
⑥ **Drill and Wire Gauge**
Of tempered steel, highly accurate, easy to read. Drill, tap size and decimal equivalents of each.
No. 11A193. EACH **98c**

⑦ **Jobbers' Drill Gauge**
Same fine quality as above.
No. 11A194. Net Each **98c**

⑧ **Spring Divider**
Well balanced of round stock, swage tapered. Equipped with tempered stiff spring, assuring uniform tension and easy operating screw and solid nut.
No. 11A221. 4".
Each **\$1.43**

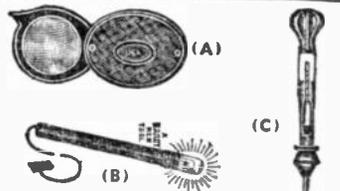
⑨ **Angle & Depth Gauge**
Milled and ground head is 2 1/2" at base. 6" spring tempered steel rule held in milled slot by spring tension nut is adjustable to 90°, 30°, 45° or 60° angles. Rule graduated in 32nds and 64ths.
No. 18A419. EACH **\$1.49**

SPEEDX SOLDERLESS CONNECTOR KIT



FOR TELEVISION, RADIO and ELECTRICAL WORK. Solderless terminals are connected to ends of wire quickly and surely by a handy crimping tool which also cuts and strips the wire. It's clean and fast, no solder necessary. Ideal for TV antenna installation or other outdoor jobs where the use of a soldering iron is not possible. Kit comes complete with tool and generous assortment of terminals.
No. 16A823.

COMPLETE \$5.85
EXTRA TERMINALS. Assortment of 50. No. 16A824. EACH 94c



(A) **Folding Pocket Magnifier**
Handy for vest pocket or tool kit, 1 3/4" diameter lens of 2 1/2" Power in moulded non-inflammable frame which folds into stiff leather case to protect lens.
No. 11A308. Your Cost, Each .. **73c**

(B) **Inspection Light**
Light where you want it — 110-Volt AC or DC. Just the light for service work in the field. Lights up those hard-to-see corners in chassis or refrigerators, also handy as a holder when coloring dial light bulbs. Dip bulb in coloring and job is done.
No. 11A83. Each **\$1.15**

(C) **Battery Hydrometer**
Large size with beaded float.
No. 11A157. Net Each **54c**

SPEEDX WIRE STRIPPER KIT



No crushing of wire with this automatic wire stripper. Kit comes complete with stripper and seven different size blades in handy steel box. Strips solid or stranded wire No. 8 to No. 30 Deluxe type 744-K.
No. 16B363.
Complete Kit \$10.00

SPEEDX WIRE STRIPPERS
Strips insulation automatically from wire easily and cleanly without crushing it. It saves time — just squeeze the handles and the job is done. Deluxe Models are fully automatic. Jaws are held open until wire is removed.



DELUXE MODELS
No. 16A828. Type 744. For 12 to 20 wire.
No. 16B364. Type 744A. For 14 to 30 wire.
No. 16A829. Type 744H. For 300-Ohm Twin Cable.
CHOICE, EACH \$4.70

STANDARD MODELS
No. 16A825. Type 733. For 12 to 20 wire.
No. 16A826. Type 733A. For 14 to 30 wire.
No. 16A827. Type 733H. For 300-Ohm Twin Cable.
CHOICE, EACH \$3.53

"QUICK STRIP" WIRE STRIPPER



Strips insulation from solid or stranded wire sizes 12 to 22. Has tempered steel blades with special slot for scraping wire clean and a comfortable plastic handle.
No. 16A538. Net Each **56c**

WIRE GAUGE

American Standard gauge for gauging all types of wire used in radio and electrical work. Best quality, tempered steel.
18A420.
Each **\$2.65**

POCKET RULE and DEPTH GAUGE

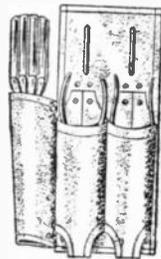
Tempered steel 6" rule with pocket clip. Quick reading 64th graduation.
No. 18A421.
EACH **10c**

JIFFY WIRE STRIPPER

Strips wire quickly and cleanly. A very handy tool to have in tool box or on work bench.
No. 18A422. Each **17c**

"AMO" MINIATURE TUBE PULLER

Extract and replace miniature tubes easily from the hard-to-reach places without breakage or burning the hands. Simple to operate. Choice Ea.
No. 17A1095. For 7-Pin. **97c**
No. 16B461. For 9-Pin.



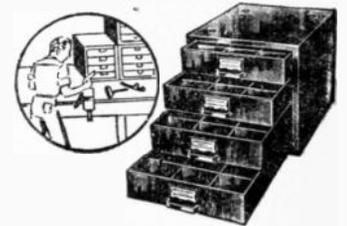
TOOL POUCH FITS ON YOUR BELT

Just it for keeping your essential tools within quick and easy reach when on service calls, TV installation jobs, etc. Made of high quality leather. Tools slip in and out with ease . . . No rough edges to interfere. Pouches are riveted and stoutly stitched.
No. 17A491. For Plier, Screwdrivers, etc., 6x10 1/2".
EACH (Less Tools) **\$1.75**



"REMOVABLE" TRAY PROFESSIONAL CHEST

Of finest quality steel. Has two bolt catches; Built-in padlock eye in addition to regular key lock; rust-proof handle. Interior has forest green enamel finish, exterior a gray ripple finish. Of full lock-seamed construction with rounded cover design. Hinged continuous type with lid opening entirely back. Reinforced corners stand hard knocks. Sliding tray, size 15 1/4 x 4 1/2 x 1 1/2"; easily removed, narrow a lid need not be lifted to remove article below. Overall size, 16x7x7".
No. 36A13.
YOUR COST \$3.18



UTILITY CABINET

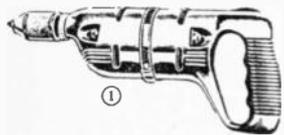
Keep Small parts and tools in one of these handy 4-drawer all-steel cabinets. Sectional design allows for use of one or more units. Add them as you need them. **Cabinet Size:** Width 10", Length 11 1/2", Height 10". **Drawer Size:** 9" Wide, 11 1/2" Long, 2" Deep. Twelve 3x2 3/4 x 2" compartments in each. Removable partitions make possible alteration of each compartment size. **Construction:** Made of heavy gauge steel. Flush lap joint corners electrically welded. All edges hemmed. **Finish:** Outside of cabinet attractive grey ripple hard baked enamel. Wt. 9 lbs. 14 ozs.
No. 34A162. Each **\$4.02**

G-C INSPECTION MIRROR

Just the thing for seeing in the chassis and inspecting coils, parts, and connections. With long handle, will get into most anyplace.
No. 20A573. EACH **29c**



ELECTRIC DRILL KITS • DRILLS and OTHER ACCESSORIES



Fairchild 1/4-IN. ELECTRIC DRILL

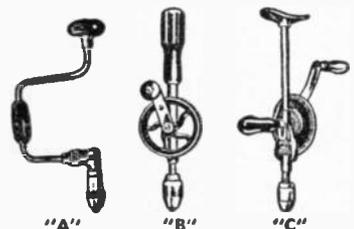
① The drill with the perfect "Feel". New Streamlined Design, Modern, AC-DC 1/4" Light-Duty Drill. Ideal for Home and Professional Repairman. An Outstanding Value. Housing made of 2-piece precision cast aluminum alloy. Improved sturdy, keyless 3-jaw chuck. Lacquer sprayed with hard finish that will not peel. Saw grip handle gives grip and balance that makes for greater drilling efficiency. Quality Fairchild AC-DC 1200 RPM motor. Long-life cord and plug. Operates on 110-volt AC-DC. List Price, \$15.95. (Less Drill Stand.)

No. 37A32. Dealer's Price in Single Lots. Each **\$12.76**
Two to Six. Each **\$11.87**
Six or More. Each **\$11.19**

Fairchild ELECTRIC DRILL KIT

② Designed for usefulness, performance and value. Includes the new Fairchild 1/4" capacity electric drill described above — complete with 7 high speed twist drills of the highest quality, sizes 1/16" to 1/4" by 32nds. In an attractive fitted metal case—handy as an on the job utility box. Weight, 6 lbs. List Price, \$19.95. No. 16A405. Dealer's Price in Single Lots. Each **\$15.86**
Two to Six. Each **\$14.97**
Six or More. Each **\$13.98**

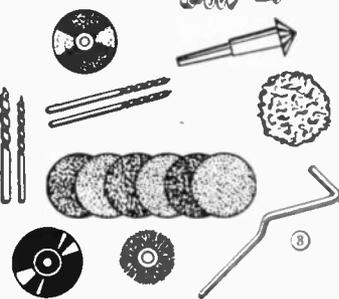
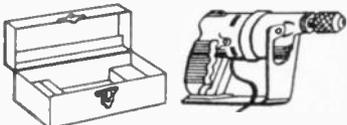
MILLER FALLS DRILLS



(A) RATCHET BRACE—Has Barber Chuck with alligator jaws. Mahogany head has steel-clad ball bearings. Metal parts are nickle-plated and buffed. 10" sweep. No. 16A473. Net Each **\$2.94**
(B) HAND DRILL—Steel Frame, cut gears. 3-jaw case-hardened chuck holds 0-1/4" round shanks. Length, 11". No. 11A192. Net Each **\$1.59**
(C) BREAST DRILL—3-jawed case-hardened steel chuck holds up to 1/2" round shanks. Cut gears, steel frame. No. 33A17. Net Each **\$3.67**

Automatic Center Punch

For simple and accurate punch marking before drilling. Just push and automatic internal spring loaded mechanism does the rest. No. 20A135. Each **\$2.55**



Fairchild HOUSEHOLDER KIT Polishes, Sands, Drills, Grinds, Mixes Paints, Etc.

KIT INCLUDES:
The New Improved Fairchild 1/4" Electric Drill (as described on the left).
Stand for Horizontal Mounting of Drill.
Adapter for Sander and other accessories.
4" Sanding back-up disc with 6 sanding discs (Fine and coarse grades).
4 3/4" Lambswool Polishing Bonnet.
3" Wire Scratch Brush.
Paint Mixer.
4 Hi-Speed Drills—1/4", 3/16", 1/8" and 3/32".
Countersink—5/8".
In an attractive grey wrinkle finished metal case with nickel plated snap catch.

A handy kit with hundreds of uses. Designed to appeal to hobbyist, handyman, or housewife. Makes an attractive display in show window or show case. It's a natural for year around sales. List Price, \$26.25. No. 36B50. Dealer's Price in Single Lots. Each **\$20.97**
Two to Six. Each **\$19.87**
Six or More. Each **\$18.37**
DRILL STAND (as illustrated with drill above). For horizontal mounting of Fairchild drills when used for sanding, grinding, etc. No. 17A818. EACH **\$1.59**

MILLERS FALLS AUTOMATIC DRILL

A push type drill that does a remarkably fast and easy job of drilling holes in hard or soft wood, plaster, soft metals, or other similar materials. The handle contains eight drill points, sizes 1/16" to 11/64" by 64ths in separate compartments with sizes marked. 4-jaw chuck holds points securely. No. 16A549. Complete with Drills **\$2.65**

Century BIT STOCK DRILLS Fits All

Standard Brocas NINE-PIECE SET —9 Carbon steel bit stock drills, most popular sizes from 1/16" to 5/16" in handy container. Weight, 8 oz. No. 18A424. Per Set **\$2.25**

INDIVIDUAL DRILLS
Stk. No. Size Net Each
16A383 1/16" 18c
16A384 1/8" 20c
16A385 3/16" 23c
16A386 1/4" 27c
16A387 5/16" 38c
FIVE-PIECE DRILL SET—Sizes 1/16" to 3/16" by 32nds. For metal, wood, or plastic. Use with hand drill. No. 16A388. Per Set **52c**

HI-SPEED AND CARBON DRILL SETS

CENTURY M15 HI-SPEED. 15 high speed drills sizes 1/16" to 1/2" by 32nds in all-steel Huot index container. Has extra capacity for adding 14 more drills in 64ths sizes as needed. Container opens like pages of a book, and stands on bench. Every drill accessible and identified as to size. Weight, 1 lb. 11 ozs.

No. 18A425. PER SET **\$11.21**

CENTURY M11 HIGH SPEED

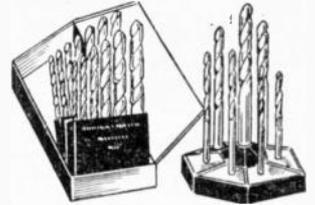
11 high speed drills. Sizes 1/16" to 3/8" by 32nds with Huot index. Has extra capacity for 10 more drills in 64ths sizes. Wt., 1 lb. 8 ozs.

No. 18A426. Per Set **\$6.25**

CENTURY M7 HIGH SPEED

7 high speed drills. Sizes 1/16" to 1/4" by 32nds with a sturdy red bakelite stand.

No. 18A427. Per Set **\$2.04**



CENTURY M3 HIGH SPEED

13 high speed drills. Sizes 1/16" to 1/4" by 64ths with Huot index container for on the job or bench use. Weight, 9 ozs.

No. 16A382. Per Set **\$4.12**

EAGLE E-7 CARBON

7 carbon drills. Sizes 1/16" to 1/4" with sturdy red bakelite stand.

No. 16A381. PER SET **\$1.25**

TWIST DRILLS

Size	CARBON No.	Each	HI-SPEED No.	Each
1/16	12A1509	14c	16A474	21c
5/64	12A1510	14c	16A475	21c
3/32	12A1511	14c	16A476	22c
7/64	12A1512	14c	16A477	23c
1/8	12A1513	14c	16A478	23c
9/64	12A1514	16c	16A479	24c
5/32	12A1515	16c	16A480	27c
11/64	12A1516	17c	16A481	27c
3/16	12A1517	17c	16A482	30c
13/64	12A1518	20c	16A483	33c
7/32	12A1519	20c	16A484	36c
15/64	12A1520	20c	16A485	38c
1/4	12A1521	22c	16A486	42c
5/16	16A496	26c	16A487	60c
3/8	16A497	35c	16A488	83c

Microstat SANDING and POLISHING KIT

Attaches simply to electric drill or flexible shaft tool. No cement or special attachments required. Waxes, polishes, buffs or sands. Kit complete with 6" metal disc, 7" lambswool polishing bonnet, one sheet of high grade sandpaper. No. 16A416. Complete **\$1.89**
No. 16A839. Extra Sandpaper. **59c**
Package of 5



AUTOMATIC SELF-POSITIONING DRILL CASE

For sizes 1/16" to 1/2" by 64ths. Drills are instantly accessible. Lift cover and drills automatically come into place. Indexed for quick locating. No. 18A423. (Less Drills) EACH **\$3.38**



CENTURY 5-PIECE WOOD BIT SET

For use with 1/4" Electric Drill. Drills holes up to 1/2" in diameter in wood. Contains five round shank drills, sizes 1/4", 5/16", 3/8", 7/16" and 1/2". No. 16B422. EACH **\$2.85**



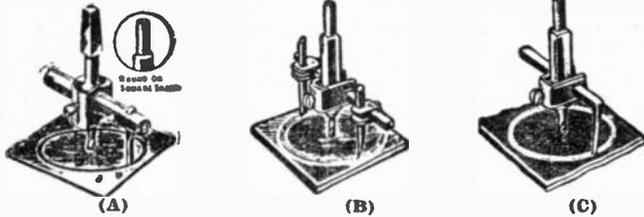
ROTARY SURFACE SANDER FITS ANY DRILL PRESS OR 1/4" PORTABLE ELECTRIC DRILL

Precision sander that produces a beautiful finish on wood, plastics, and metals. Results in true and even surfaces. Removes paint and varnish on cars, floors, sets, etc. Made of light weight aluminum. Sanding discs are changed instantly with special "Speed Cement". Sander includes tube of cement and 12 sanding discs. No. 20A590. COMPLETE **\$2.58**
No. 20A588. Extra Tube of Cement. Each **18c**
No. 20A589. Set of 24 Discs. Per Set **72c**
POLISHER (For Use with Above)
No. 17A796. Lambswool Polishing Bonnets. EACH **92c**



POWER TOOLS • SAWS • PUNCHES • CIRCLE CUTTERS

CIRCLE CUTTERS—A Type for Every Need

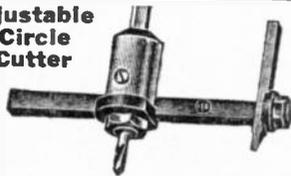


For cutting round holes in metals, wood, plastics, etc. Drill acts as center pilot, keeping cutter in constant alignment. Cross bar and cutting bits are easily adjusted. May be used in slow speed drill press or hand brace. Cutting bits are of high speed steel.

(A) **HEAVY DUTY Type 5.** Cuts holes 1" to 5 1/2" diameter.
 No. 11A181. Round Shank. Choice Ea.
 No. 11A182. Square Shank. **\$1.88**
 Type 4 (not illus.) like (A) but smaller. Cuts holes 3/8" to 4". Has combination round or square shank.
 No. 11A183. Net Each. **\$1.30**
 No. 12A1501. Extra Cutter for types 4 or 5 listed above. Each. **30c**

(B) **Type 1.** Cuts holes 1" to 4" and beads edge at same time. Has comb. shank. For medium work.
 No. 11A185. Net Each. **\$1.88**
 No. 11A186. Like type 1 except Less beading cutter. Each. **\$1.13**
 No. 12A1500. Extra cutters for any above. Each. **30c**
 (C) **JUNIOR.** Cuts holes 1" to 2 1/2" for light work.
 No. 11A187. Net Each. **78c**

Adjustable Circle Cutter



CUTS 3/4" TO 8-INCH HOLE
 Hex shank fits either hand brace, or electric drills. Has removable 3/16" centering drill and adjustable 3/8" square cutting bar.

No. 11A184. Each. **\$2.95**
 No. 12A1502. Extra Cutter. **50c**

Greenlee Chassis Punches



Driven by Screw Action.
 Quick and simple. Cutting done by **TWO-POINT** punch driven by 3/8" diam. square head cap screw, supported by accurate die. 1/2" guide hole required at desired location. Merely turn screw with wrench until metal is cut through.

No.	Size	Each	No.	Size	Each
11B40	1/2	1.94	11A215	1 3/8	2.25
11A299	5/8	1.94	11A202	1 1/2	2.25
11A198	3/4	1.94	11A203	1 3/4	2.25
11A199	7/8	1.94	11A204	1 7/8	2.57
11A201	1	2.11	11A205	1 1/2	2.88
11A300	1 1/8	2.25	11A222	2 1/4	5.58
11A200	1 1/8	2.25			

Extra Drive Screws for Above. For 3/8", 15A1129; for 3/4" and 7/8", 15A1130; for 1" through 1 1/2", 15A1131. Choice Each. **25c**
 for 2 1/4", 15A1132. Each. **50c**
 See Page 88 for New Square Hole Punches.

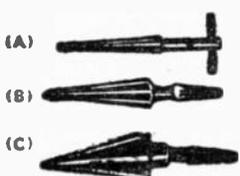
Square Hole Punch



Permits the cutting of any odd shape hole (square, rect., hex., oblong, etc.) on any size panel or chassis. Will cut up to 14 gauge thickness of any metal. A hammer the only other tool necessary.
 11A206.
YOUR COST... \$9.70

T-HANDLE REAMER

Tool for enlarging of holes in chassis, racks and sheet metal. Made of highest quality steel.
 No. 18A428. Tapers 1/8" to 1/2". **65c**



GREENFIELD REAMERS
 (A) Tapers 1/8" to 1/2".
 No. 11A188. Each. **\$1.43**
 (B) Bit Shank Type. Tapers 3/16" to 15/16". Drop forged steel, tempered.
 No. 11A189. Each. **\$1.79**
 (C) Large Burring Type. For holes 1/4" to 1 1/4". Has bit shank.
 No. 11A190. Each. **\$1.61**
 No. 11A191. As above for holes 1/4" to 2". **\$2.87**

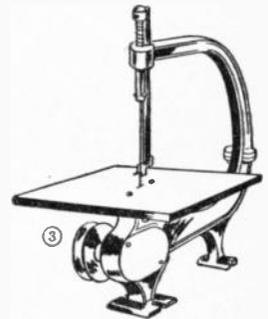
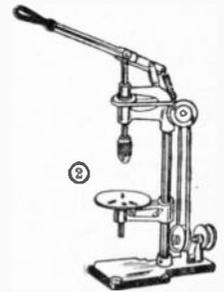
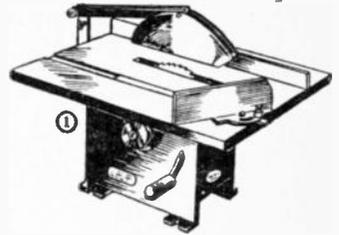
POWER TOOLS FOR THE HOME WORKSHOP

Light duty tools, designed, built and priced to meet the requirements of the beginner, hobbyist, or handyman. Simple to operate. Use with any 1/4 h.p. motor.

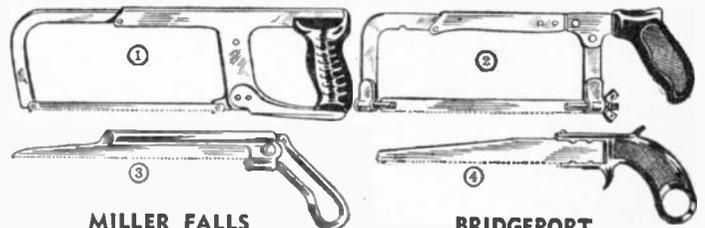
① **BENCH SAW.** Uses standard 6" blade with 1/2" saw. Crosscuts, rips, grooves, etc. to exact dimensions. 12x14" steel table tilts to 45°. Sawblade is raised, lowered and locked into position by handle. Cuts to maximum depth of 2". Mitre bar is graduated to 45° in both directions for cutting at desired angle. Adjustable fence and saw guard furnishes adequate protection. Of durable all metal construction. Shaft hardened and ground to precision limits. Torrington needle bearings. 1 1/2" pulley takes a 1/2" V-belt. Recommended blade speed 2000-4000 RPM. Height, 10". Weight, 17 lbs. List Price, \$18.95.
 No. 36B71. Less Blade. **\$15.85**
YOUR COST, EACH. . . . \$14.99
 No. 16A600. 6" Blade. EACH. **\$1.49**

② **DRILL PRESS.** Drills to center of 8" circle. Hardened three-jaw chuck accommodates any size drill up to 3/8". Lever action—drilling is accurate. 4 3/4" table can be swung in either direction—raised or lowered by loosening of thumb screw lock. Maximum distance from chuck to table is 7 1/2", from chuck to base 10 1/2". All metal construction. Steel drive pulleys are 2 1/2" O.D. Supplied with endless corded V-belt. 5x10" base is corner drilled for simple bench mounting. Height, 24". Weight, 13 lbs. List Price, \$16.95.
 No. 36B72.
YOUR COST, EACH. . . . \$12.71

③ **JIG SAW.** Cuts to center of 24" circle and to depth of 3". 8 1/2 x 8 1/2" heavy gauge metal table tilts to 45°. Uses standard 6" or 6 1/2" blade, any width up to 3/16". Length of stroke is 9/16". Soundedly made of cast iron and steel. Has two-piece cast frame; enclosed mechanism; self-lube bronze bushings; 3" V-belt drive pulley. Height, 16". Weight, 14 lbs. List Price, \$12.50.
 No. 36B74. EACH. **\$9.35**
 No. 16A601. Extra 6 1/2" Blades. **12c**



HACK SAWS



MILLER FALLS

ADJUSTABLE HACK SAWS

① No. 300. Heavy duty steel frame, nickel plated. Faster, easier, more accurate cutting. Cam action lever at bottom of frame and handle assures greater blade tension. Adjustable for 10" or 12" blades. Blade faces in any one of four direction for cutting. Extremely durable red plastic handle with a comfortable pistol grip and excellent balance. Throat depth, 3 7/8". Weight, 2 lbs.
 No. 16B404. With 10" Blade. Each. **\$2.65**

② No. 99. Substantial steel frame, nickel plated. Adjustable for 8" to 12" blades. Blade may be faced for cutting in any one of four directions. Black composition pistol grip handle. Throat depth, 2 3/4". Weight, 1 1/8 lbs.
 No. 11A209. With 10" Blade. Each. **75c**
EXTRA BLADES—Made of special analysis tungsten steel 3/8" wide, with milled teeth.
 11A210—10". Ea. **10c**; Doz. **1.08**
 11A211—12". Ea. **11c**; Doz. **1.19**

BRIDGEPORT

KLOSE KUT HACK SAW

③ Heavy steel frame; nickel plated. Fits where ordinary hack saws cannot be used. Takes any 10" blade, also broken blades.
 No. 16A367. Cpt. with Blade **75c**

KEYHOLE SAW

④ Iron handle with comfortable grip. 7 1/2" blade tapers from 3/4" to 5/32". Cuts wood or metal.
 No. 11A301. Net Each. **29c**
 No. 11A302. Extra Blades. **15c**

UNIVERSAL HACK SAW



Adaptable for general purpose use, especially in small places. Has quick cutting thin blade and tension adjusting handle.
 16A350. Extra Blades **35c**
 11A298. Ea. **10c**

5-INCH BENCH GRINDER

Clamps on table or bench. Has adjustable tool rest. Accurately made grinder with 5" abrasive wheel for sharpening knives, drill bits, screwdrivers, etc. All gears properly machined and meshed. Dirt proof gear case has extra long bearings to assure proper alignment and smooth running of wheel. Finished in baked red enamel.
 No. 17A829. Complete with 5" Stone. **\$2.65**



HANDY TOOLS FOR ALL PURPOSE NEEDS

BURGESS-ELECTRIC VIBRO-SPRAYER

SPRAYS ENAMEL, LACQUER, VARNISH, SHELLAC, INSECTICIDE

- **SIMPLICITY.** It's as easy as a paint brush... Yet twice as fast.
- **AMAZINGLY LOW PRICED.** Cost less than a set of good paint brushes.
- **UNIQUE DESIGN.** Has professional appearance and gets professional results. Molded bakelite handle is designed for comfort and easy, one handed operation.
- **NO EXTRAS TO BUY.** Just Plug it in and spray. Pull the trigger and watch it take care of those utility painting and spraying jobs with speed, ease and perfection. Comes with removable 25-oz. jar, extra nozzle discs, and instructions. Unit has standard Mason jar thread. Use any size jar you like. Operates on 110-125 volt AC current. No. 36B67. List Price, \$12.95.



\$9.75

Dealer's Price in Single Lots. EACH... **\$8.65**
TWO TO FIVE. EACH... **\$8.65** SIX OR MORE. EACH... **\$7.80**

The New BURGESS VIBRO-TOOL MASTER KIT



With a Burgess Vibro-Tool you have electrical power at your finger tips to write your name on tools or other belongings—engrave jewelry, put designs on glass, metal, plastic; carve on wood; tool leather, and a host of other big and little craft and shop jobs—all in a jiffy. Operates on 60-cycle, 110-volt AC.

No. 20A214. Vibro-Tool and 9 Accessories with sharpening stone in a convenient kit. List price, \$9.95.

Dealer's Price in Single Lots. EACH... **\$7.50**

Two to Five. EACH... **\$6.65**
Six or More. EACH... **\$6.00**

The Famous BURGESS VIBRO-TOOL



With tantalum carbide needle for marking or engraving on metals, glass, plastics, and ceramics. Writes like a pencil. Vibro-Tool operates by vibration, 120 strokes per second. 110-volt, 60-cycle AC. List Price, \$7.50. No. 16A360. Dealer's Price in Single Lots. EACH... **\$5.65**
Two to Six. EACH... **\$5.00**
Six or More. EACH... **\$4.50**
No. 16A352. Extra Needles. EACH... **\$1.15**
Two or More. EACH... **90c**

The New BURGESS VIBRO-GRAVER



For Industrial Marking. With tantalum carbide point for permanent marking of tools, parts, rejects, inspector's O.K., etc. Replaces slow hand stamping methods or chalk marks. Operates by vibration, 7200 strokes per minute. 110/125-volt 60-cycle AC. List Price, \$8.95.

No. 20A215. Dealer's Price in Single Lots. EACH... **\$6.70**

Two to Five. EACH... **\$6.00**
Six or More. EACH... **\$5.40**

No. 16A352. Extra Needles. EACH... **\$1.15**
Two or More. EACH... **90c**

FAIRCHILD FLEXIBLE SHAFT TOOL IT ENGRAVES . . BUFFS . . GRINDS . . POLISHES . . ETC.

LOOK AT THESE FEATURES . . .

- Pencil-Sized Hand Piece for Easy Handling.
- POWERFUL—Turns up 15,000 RPM.
- LOW PRICE—Yet High in Quality. A Precision Tool for Precision Work. Hobbyists—Here is the tool to handle one hundred and one of your needs. 1/20 hp. universal type motor is dynamically balanced to insure smooth operation and is housed in hard, baked gray enamel case with bracket for mounting on wall or work bench. The 3-ft. flexible shaft is plastic covered. Hand-piece takes 3/32" and 1/8" shank tools permitting the use of most small accessories furnished with standard hand-type grinders.

Kit Comes Complete with Motor, Tool, Flexible Shaft, 10 Accessories and two Wrenches. All in a blande wooden case. 110/120-volt AC-DC. List Price, \$19.95.

No. 33B72. Dealer's Price in Single Lots. EACH... **\$15.86**
Two to Six. EACH... **\$14.97**
Six or More. EACH... **\$13.98**

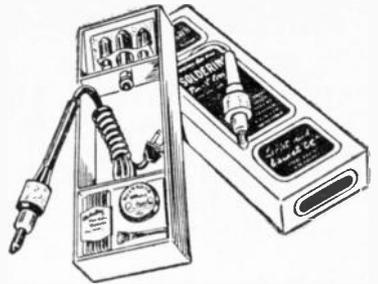


Ungar

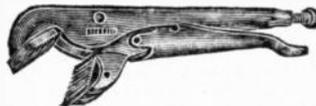
HANDY SOLDERING KIT

For Home, Hobby, or Shop Use. A hot value all-purpose soldering Kit. Includes the popular 20-watt UNGAR soldering pencil; 3 tips (Heavy duty 3/8", Medium 5/16", and Fine 3/32"); Flux brush; package of core solder; emery cloth; and instruction folder. Operates on 110/120-volt AC-DC. Weight, 11 1/2 ozs.

No. 16B378. Complete, EACH... **\$2.19**
Lots of Six. EACH... **\$1.65**

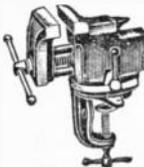


PLI-RENCH COMBINATION PLIERS, WRENCH CLAMP AND HAND VISE



Cadmium plated tool with self-aligning lower jaws. Gives full jaw-length grip on straight or angular objects with terrific power plus equalized pressure. Size 10". No. 16A526. EACH... **\$1.46**

SWIVEL VISE



Has 2 1/2" jaw. Can be swung to any angle and locked to that position. Clamps to bench up to 2" thick. Wt. 4 1/2 lbs. 33A18. Net Each **\$2.65**

BOSTITCH "3-IN-1" STAPLER



DESK FASTENER, TACKER, HAND STAPLER For the school, shop or home. Handy for fastening letters, checks, packages; tacking notices; sealing paper sacks; attaching tags and labels, etc. In your pocket—on work bench, counter, or desk—always convenient and ready to use. Includes box of 1,000 staples.

No. 20A592. Complete. **\$1.85**
No. 20A593. Extra Staples. **35c**
Box of 1,000

HANDY TOUCH-UP SPRAYER USES SPARE TIRE FOR AIR

Operates on low pressure from spare tire or any other air container. Airtight valve, adjustable spray tip, rubber hose and two 4-oz. jars. Handy for touching up cabinets, panels, etc. No. 11A5. Complete, EACH... **\$1.35**

AMBERLITE HANDLE WOOD CHISELS



Handle absorbs blow from hammer without shock. Blades made from high grade chisel steel are brightly polished and treated with rust preventive. Perfectly suited for fine cabinet work. Set contains sizes 1/4", 1/2", 3/4", and 1"

in a strong canvas roll. No. 16A365. Per Set... **\$2.35**

XCELITE ADJUSTABLE SOCKET WRENCH WITH SCREWDRIVER BIT AND PLASTIC HAMMER HEAD

The handiest multi-use tool you ever owned—For shop, or home. Overall length 6". Chrome molybdenum steel jaws open up to 1" for hex or square nuts. Plastic hammer or square shank screwdriver can be inserted for use easily and quickly. No. 20A586. Complete... **\$2.06**



TWEEZERS FOR HOBBY AND RADIO USE

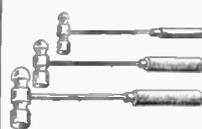


(A) 7" Long, curved smooth point tweezers. No. 11A307. Each... **45c**
(B) 6" Long common soldering tweezers, plain steel. No. 11A306. Each... **25c**
(C) 6" Long Slide Lock, blunt smooth point tweezers, plated. No. 20A578. Each... **45c**
(D) 5 1/2" Long Self-Closing, blunt serrated points, plated. No. 20A577. Each... **35c**

TWEezer KIT

Contains the four tweezers listed above. No. 16B546. ONLY... **\$1.29**

All-Purpose HAMMER SET AN AMAZING VALUE!



Here's a handy trio for the workshop, hobbyist, and handyman. Precision made hardened steel ball pein hammers. Rust-proof plating. 8", 6 1/2", and 5 1/2" long. No. 16A548. Set of 3... **87c**

MIDGET PLIER KIT

Four accurately designed, alloy steel pliers for a variety of small jobs in tight places. Standard and parrot nose types are slip-joint. Others are needle and flat nose. Each 4 1/2" long. Jaws are milled, handles knurled, tempered to correct hardness for long service. A quality kit in pocket size fabric oil. No. 16A54. Net Per Kit... **\$1.91**



HYTRON SOLDERING AID

One end acts as a probe while the other end is slotted for guiding and holding wire when soldering in tight spots. No. 16A855. EACH... **49c**

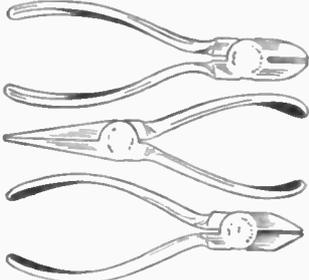


QUALITY TOOLS for RADIO MAN and HOBBYIST

KRAEUTER PLIERS

"INDUSTRIAL" FINEST QUALITY LINE

Finest Kraeuter quality, made from highest grade steel. Polished heads with blue temper finish handles.



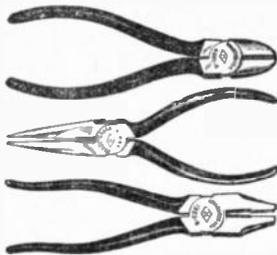
DIAGONAL CUTTING PLIERS
For close cutting. Size 6".
No. 11A218. Each..... **\$1.96**

LONG NOSE PLIERS
Tapered jaws and needle nose with cutter. Size 6".
No. 11A219. Each..... **\$1.91**

NEEDLE POINT PLIERS
"Professional" Line
Full polished diagonal cutter. Invaluable for delicate adjustments. Size 5".
No. 16A470. Each..... **\$2.26**

"K" SPECIAL VALUE LINE

Genuine Kraeuter quality, drop forged from a good grade of steel. Semi-polished heads. Blued steel handles.



DIAGONAL CUTTING PLIERS
For close cutting. Size 5".
No. 16A529. Each..... **\$1.29**

LONG NOSE PLIERS
Long tapered jaws with cutters and slender nose for getting into confined working space. Size 6".
No. 16A528. Each..... **\$1.50**

SIDE CUTTING PLIERS
Electricians type plier with sturdy tap joint—milled jaws—hardened and tempered cutters. Size 5".
No. 16A527. Each..... **\$1.33**

KRAEUTER JEWELERS' PLIERS

FOR FINE WORK

Perfect for accomplishing the most delicate job, yet large enough for easy handling. Quality made, drop forged from the finest steel and fully polished. Endorsed by instrument manufacturers.



① **DIAGONAL CUTTING PLIERS**
For fine close work. Size 4 1/2".
No. 16A603. Each..... **\$2.08**

② **CHAIN NOSE PLIERS**
Jaws 1/32" diameter at nose point. Size 4 1/2".
No. 16A602. Each..... **\$1.87**

③ **END CUTTING NIPPERS**
Carefully edged cutting jaws. Size 4 1/2".
No. 16A606. Each..... **\$2.50**

④ **FLAT NOSE PLIERS**
Jaws 1/8" wide at nose point. Size 4 1/2".
No. 16A604. Each..... **\$1.87**

⑤ **ROUND NOSE-ROUND JAW PLIERS**
Each jaw 1/32" diameter at point of nose. Size 4 1/2".
No. 16A605. Each..... **\$1.87**

SET OF FIVE PLIERS. As listed.
No. 16A607. COMPLETE..... **\$10.20**

CASCO FAMOUS POWER TOOL KITS



COMPLETE PORTABLE POWER WORKSHOPS Polishes, Engraves, Routs, Drills, Buffs, Grinds and Saws ON Wood, Plastic, Glass, Metal and Other Materials

New improved power tool with a built-in static suppressor. Finely engineered, precision made and designed for the professional craftsman as well as the hobbyist or beginner. Operates on 110 volts AC-DC.
IT'S THE TOOL OF 10,000 USES — Available with accessories to answer every need.

THREE ATTRACTIVE KITS

① **THE CASCO ELECTROMATIC**
Includes electric tool as described above and 50 accessories. The kit that scooped the electric power tool field for 1950. In sturdy, compact, yet eye-appealing plastic case of lustrous burgundy. Complete with illustrated project booklet. List Price, \$19.95.
No. 32B252. Dealer's Price in Single Lots. EACH..... **\$12.97** Lots of 4. EACH **\$11.97**

② **THE CASCO TOOL N'RAK**
With electric tool as described above and 35 accessories. The hottest power tool idea in years! A complete set of motor-driven tools at your fingertips—all on an enduring beautifully finished solid hardwood rack that hangs conveniently on wall—takes the clutter off work bench. Complete with project booklet. List Price, \$17.95.
No. 33B44. Dealer's Price in Single Lots. EACH..... **\$11.67** Lots of 3. EACH **\$10.77**

③ **THE CASCO ELECT-O-TOOL**
With electric tool and 20 accessories. A real value! It's the same tool available in kits above, with the same unbeatable features—designed to give smooth vibrationless operation at high speed—handles as easy as a pencil. Rugged durable construction. Complete with illustrated instruction booklet. In a handy durable cardboard box. List Price, \$14.95.
No. 36A14. Dealer's Price in Single Lots. EACH..... **\$9.97** Lots of 6. EACH **\$8.97**
Naturals for all year around sales. Display all three kits in your show window, or on your counter... Watch them go!

STEEL TOOL MARKING SET

Machine made Roman face 1/8-inch letters and figures of good quality tool steel. Produces clear, sharp impressions for long wear. Letter set consists of 28 characters including "G" and a period.
11A273. Per Set..... **\$2.97**

FIGURE SET

Consists of nine characters from 0 to 8, the "6" being also used for the "9".
11A274. Per Set..... **99c**



PLASTIC RADIO PLIERS

Weights only 1 1/2 ozs., a handy pocket pliers. Shockproof and non-magnetic—can be used on apparatus while in operation. 6000-volt breakdown, heat resistance 240 to 300°. Tensile strength of material, 5,000 lbs. per square inch.
No. 11A220. Each..... **90c**

Can't-Rol Center-Punch

Tempered steel with large head and knurled grip.
16A366. Each..... **15c**

Handy Scriber

Knurled steel handle with chuck that holds needle point and retracts into handle when not in use.
11A271. Complete, Each..... **45c**
11A272. Extra Pointe..... **15c**

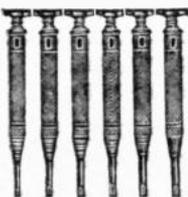


FOUR TOOLS IN ONE



Bone fibre tool of fountain pen size. Has 1/4" and 5/16" nut wrenches; small metal nib and full size screwdrivers. Very handy.
No. 11A150. EACH..... **79c**

JEWELERS' SCREWDRIVER SET



6 sizes, #0 to #5, each with hexagon swivel head. Removable blades are firmly held by threaded chuck, eliminating any back lash. 3" long x 1/8" diameter; total length, including blade, approximately 3 3/4".
No. 11A309. Set of SIX.. **\$2.94**

PRECISION SCREWDRIVER SET with 5 INTERCHANGEABLE BLADES



Blade sizes: .100", .080", .070", .055", .040". Handle length 2 3/4"; overall length 4 1/8". Blades are heat treated and nickel plated. Handle is knurled steel with aluminum swivel top. Comes with a machined aluminum stand and plastic cover.
No. 18A392. PER SET... **\$1.19**

6-IN. SLIP-JOINT PLIERS



With wire cutter. Made of high quality steel, drop forged and hardened. Jaws are milled, and holes accurately punched.
No. 16A531. Net Each..... **39c**

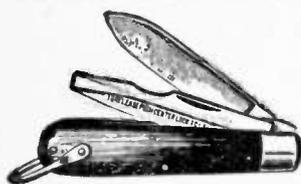
FOUR-WAY OFFSET SCREWDRIVER



Four different positions for hard to get at or tight screws where extra leverage is necessary. Blades of special hardened Chisel Steel. Overall length, 5 1/4". Blades, 1/4" wide.
No. 11A296. Each..... **45c**

TOOLS for ELECTRICIANS and RADIO MEN

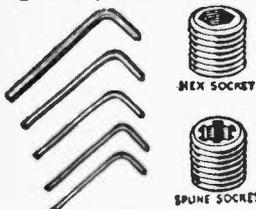
UTICA "Kutmaster" Heavy Duty ELECTRICIAN'S KNIFE



Handy to have on the job—any time, any place. Has standard 2 3/4" knife blade and a special screwdriver blade with insulation cutter and wire scraper. Screwdriver blade locks in open position. 3 3/4" Rosewood handle with shackle ring, polished bolsters, and brass linings. Made to government specifications.
No. 17A492. Each..... **\$1.29**
12 Lots. Each..... **\$1.15**

KEY WRENCHES

For HEX and SPLINE
SOCKET SET SCREWS



Set of 5 Hex Wrenches to fit set screws No. 4, 6, 8, 10 and 1/4" and cap screws No. 2 to 8. **24c**
No. 11A270.
Set of 4 Spline Wrenches to fit set screws up to 1/4" and cap screws to No. 8. **24c**
No. 19A1210
HEX and SPLINE WRENCH KIT
Kit contains complete range of wrench sizes used in electronics. Includes hex (Allen) and Spline (Bristol) wrench keys for No. 2 to 3/8" screws. In Leatherette roll case. **97c**
No. 15A123. Complete Kit.



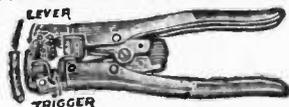
American Electrician's Handbook By Terrell Croft.
Revised 5th Edition. 1600 Pages.
Covers fundamentals, generators, motors, outside distribution, interior wiring, transformers, and electric lighting. Full description, definitions and methods. Fully describes up-to-date applications and codes. Covers 1935 National Electric Code. World famous among contractors, linemen, and general electricians. **\$5.88**
No. 16A91. Net Each.
The Electricians' Pocket Companion
By Benjamin Goldberg
Handy size reference guide for the practical electrical worker. Written in accordance with the code. Contains a new selection of descriptions, diagrams, tables and other data on wiring. 432 pages. 320 illus. **\$2.50**
No. 16B71. Each.....

SCOTCH VINYL PLASTIC ELECTRICAL TAPE No. 33

Resistant to grease, acids, alcohols, water, gasoline, etc. Non-corrosive. Has high tensile strength, 7 mills thick. Dielectric strength of 7000 V. No. 20B96. 66 ft. 3/4" **\$1.50**
wide. ROLL, EACH.....
12 ROLLS, EACH..... **\$1.35**

"E-Z" AUTOMATIC WIRE STRIPPER

NEW MODEL! STRIPS TV-FM
300-OHM TWIN LEAD, ALSO
STANDARD HOOK-UP WIRE



STRIPS FAST... CLEAN
Won't Crush or Scratch Wire
Removes plastic insulation from both conductors of twin lead in one squeeze of the handle. Simple, quick — no jamming of wires. Also strips No. 16, 18, 20, 22 solid or stranded electrical wire without changing blades.
No. 16A830. **\$4.80**
NET EACH.....
STANDARD MODEL. Strips all sizes of wire, Solid or Stranded, from 22 to 10 gauge. **\$4.80**
No. 16A831. Net Each..

Wire
Stripper
and
5 in 1 Tool
15c

Combination Wire Stripper, Screw Driver, Scraper, Cutter and Wire Winder.
11A276. Each..... **15c**

BRISTOL WRENCH

For Bristol set screws.
Has plastic handle with 1" long steel blade.
No. 17B685. SPECIAL, EACH. **10c**

Reversible Blade Pocket Screw Driver

Handy for fine work. Made of heavy knurled steel tubing with hex head. Blades are tempered and polished and will not turn in chuck. Body dia. 1/4", blade length 2 1/2".
11A304. **38c** 11A305. Extra
Blades, Ea. **15c**

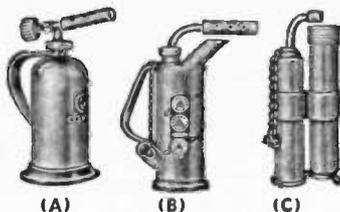
HYTRON SERVICE AIDS

① **TUBE LIFTER**
Lifts tubes, vibrators, plugs and similar type parts easily and quickly. Simply insert tool under base of part and lift. Right angle end is for compact auto radios and for pulling knobs. Made of stainless steel. **15c**
No. 16A832. EACH.....
② **AUTO RADIO TOOL**
For manual adjustment of volume and tone controls, tuners and on-off switches after control cables have been removed from set. Has square tip for slotted fitting on one end, and V-shape tip for any thickness of spade type fittings on the other. Made of steel, bright-zinc plated. **24c**
No. 16A833. EACH.....

ILLUMINATED Switch Link

Glow in the Dark. Easy to install. Bakelite switch plate stays lit when light is off. Eliminates groping in dark for switch. Extremely low current consumption. Complete with lamp, connecting wires, mounting screws, and instructions. For 110 volts AC or DC.
No. 20A124. **59c** 10 at **53c**
Net Each.....

LENK ALCOHOL and GASOLINE TORCHES



(A) Gasoline Torch, 3/4 pt., with flame control, shut-off valve. 7 1/2" high x 3" dia. base. **\$1.99**
No. 11A253. Net Each..
Alcohol Torch, same as above.
No. 11A254. **\$2.15**
Net Each.....
(B) Alcohol Torch — Double Burner, one for a needlepoint flame and the attachment for a heavy intense flame. Practical for fusing large terminal lugs and heavy duty soldering jobs. Size 7 1/2 x 5 1/2 x 2 1/4". **\$3.15**
No. 11A255. Net Each..
(C) Alcohol Torch for light service needs. Compact, leak-proof. **99c**
No. 11A256. Net Each.....

NE-O-LITE ELECTRIC TROUBLE SHOOTER

Handy for radio men and electricians for testing AC lines, polarity of AC or DC, for blown fuses, tracing ground line in AC circuits, as an RF indicator, spark plug and cable tester, etc. Can be used on voltages of 60 AC to 500 volts AC or DC. **35c**
11A84. Each.....

Soldering Heat in Just a Matter of Seconds



SUPER INSTANT IRON
Designed for light soldering in Radio, TV, etc. A flick of a switch gives sufficient soldering heat in a matter of seconds. Cools quickly when switch is turned off. Extremely light weight — easy to handle. Small size makes it convenient to solder in tight places. Heat is concentrated in thin nickel-alloy tip. No filing or tinning is necessary. Tip with element is replaceable. **\$5.29**
No. 20A213. Each.....
No. 20B184. Replacement Tip with Element. Each..... **\$1.00**

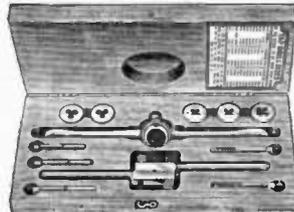
Fairchild ACCESSORY KIT FOR 1/4" ELECTRIC DRILLS

For Polishing, Sanding, Drilling,
Grinding, Paint Mixing, Etc.



For use with any make 1/4" electric drill. Includes arbor assembly; Rubber backing disc; 3" grinding wheel; 3" wire wheel brush; 5" lamb's wool bonnet; 3 5" coarse grade sandpaper discs and 3 5" medium grade sandpaper discs; paint mixer; 5/8" countersink; and set of four high speed drills, sizes 1/4", 3/16", 1/8", 3/32".
No. 17A826. **\$4.60**
Complete.....
EXTRA SANDPAPER DISCS
17A827. Coarse Grade. Pkg. 6. **25c**
17A828. Medium Grade. Pkg. 6. **25c**

SPECIAL VALUE! TAP and DIE SET



Good quality tool set with the most popular sizes for radio and hobby work. Consists of tap wrench; die stock; and one each of size 6-32, 8-32, 10-32, 4-36 and 1/4" plug taps and solid dies. Made of high carbon alloy steel. Complete kit comes in mahogany box.
No. 18A430. EACH..... **\$3.45**

MACHINE SCREW TAPS AND DIES

Threadwell carbon steel, Dies O.D. 13/16".

Size	Stk. No.	Each	DIES	Stk. No.	Each
4-36	12A1503	21c	16A585	44c	
6-32	12A1504	21c	16A586	44c	
8-32	12A1505	21c	16A587	44c	
10-32	12A1506	21c	16A588	44c	
10-32	12A1507	21c	16A589	44c	
1/4"-20	12A1508	21c	16A590	44c	

TAP WRENCHES

Best quality. For holding taps, reamers, drills and other small tools. Has adjustable handle, knurled chuck shell, and tempered jaws. For sizes 1/16" to 1/4".
No. 16A471. Each..... **80c**
Good quality tap wrench for use with No. 2 through No. 10 taps.
No. 18A431. Each..... **29c**

DIE STOCK

For use with 13/16" dies. Of rugged construction.
No. 16A591. EACH..... **38c**

NEW! GREENLEE SQUARE HOLE CHASSIS PUNCHES

Cuts clean, accurate square holes in chassis. Operates on the same principle as the popular Greenlee Round Punches. Driven by screw action. Use an ordinary wrench for drive power.

No.	Size	EACH
18A432	3/8"	\$3.01
18A433	1/2"	3.51
18A434	3/4"	4.05

SPECIAL VALUE! PUTTY KNIFE



With 2" tempered steel blade and wood handle.
No. 16A828. Each..... **15c**

MINIATURE TUBE-PIN STRAIGHTENERS

Handy tools that will make the job of straightening the pins on miniature tubes a simple one. Assures socket contact. Dies made of steel.
No. 17A434. For 7-Pin
Miniature. Each..... **59c**
No. 16A851. For 9-Pin
Jumbo. Each..... **59c**

SCREWDRIVERS • SOCKET WRENCHES etc.



SHOCK PROOF, BREAK PROOF AMBER PLASTIC HANDLE SCREWDRIVERS



Top quality Screwdrivers skillfully designed for better performance. Full sized handle is correctly shaped for grip and balance. Chrome Vanadium steel blade embedded in handle. Square blades.

Stock No.	Blade Size	Overall Length	NET EACH
11A85	3x1/8"	5 1/4"	27c
11A86	4x1/8"	6 1/4"	27c
11A87	5x1/8"	7 1/4"	27c
11A88	3x3/8"	6 3/8"	45c
11A89	4x3/8"	7 5/8"	48c
11A90	6x3/8"	9 5/8"	54c
11A91	8x3/8"	11 5/8"	57c
11A92	4x1/2"	8"	57c
11A93	6x1/2"	10"	59c
11A94	8x1/2"	12"	65c



Stubby Type 1/4" diameter x 1" long blade. **39c**

Phillips Screwdrivers



With Round Blades and Amberyll Handles.

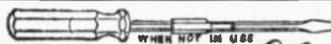
Stock No.	Blade Size	O'all Point Lgth.	NET EACH
11A96	3/8x3	5 1/2"	\$0.57
11A97	1/2x4 3/4"	7 1/2"	.73
11A98	3/8x6	10"	.97
11A99	3/8x8	12"	1.21

Thin Blade for Set Screws



Small sizes—ideal for set screws in knob and other hard to reach places. Tempered tool steel blades. Amberyll handles.

No.	Blade Size	Lgth. Overall	Net Each
11A103	3/32x2"	4 1/4"	18c
11A104	3/32x3"	5 1/4"	18c
11A105	3/32x4"	6 1/4"	18c



"Hold-E-Zee" Screwdrivers
Stock No. Hex. Dia. Blade Overall Lgth. YOUR COST

11A110	5/32"	2"	4 1/8"	\$.27
11A111	5/32"	4"	7 1/4"	.47
11A112	5/32"	10"	13 3/8"	.54

FOR RECESSED HEAD SCREWS
(Phillips or Reed & Prince)

20A585	5/32"	2"	4 1/4"	.47
20A584	5/32"	4"	7 1/4"	.57
20A583	5/32"	6"	9 3/8"	.62

Insulated Blade



Shock-proof, break-proof Amberyll handle, with insulated blade.

11A114.	Size 1/8x6"	Each....	40c
11A115.	Size 3/8x8"	Each....	58c



Amberyll all insulated break and shock-proof screwdriver. 1/2"x6" all-insulated, hand forged vanadium 1/8" bit.

Small Pocket Sizes



Amberyll handle, with pocket clip. Blade 1/8x2".

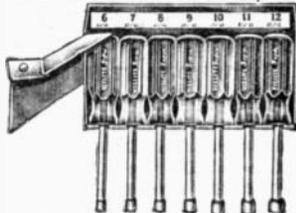
No. 11A106.	Net Each....	17c
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For Phillips Type Screws
Blade 3/16x1 3/4" with No. 1 point.
No. 11A107. Net Each..... 39c

XCELITE SUPER DELUXE NUT DRIVER SETS

WITH LARGER, BETTER GRIP HANDLES

Plastic handles are newly designed to better fit the hand. Double heat-treated blades with double depth sockets are highly polished.



Type 127 Handles are color coded for easier selection of sizes. Metal container can be fastened to wall or work bench. Contains sizes 3/16", 7/32", 1/4", 9/32", 5/16", 11/32", and 3/8".

No. 11A229. Per Set.... **\$3.82**
Type 117 Identical to set above, except with amber transparent handles (not color coded) and bench stand as in set illustrated at right.

No. 11A180. Per Set.... **\$3.79**

XCELITE NUT DRIVERS



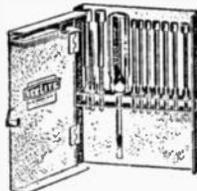
With Amber Plastic Handles

Stock No.	Nut Size	Your Cost	Stock No.	Nut Size	Your Cost
11A128	3/16"	44c	11A133	1/2"	44c
11A129	7/32"	44c	11A134	3/8"	44c
11A130	1/4"	44c	11A135	5/8"	88c
11A131	9/32"	44c	11A136	3/4"	88c

ELECTROLYTIC CONDENSER NUT WRENCH
2" deep Socket; Amberyll handle; 7" length overall. Choice
11A141. For 31/32" Nuts. Each
11A142. For 15/32" Nuts. 98c

NEW! "XCELITE" MULTI-PURPOSE KIT

Chrome plated quality snap-in tools in convenient and compact kit. Consists of amber plastic handle; 9 detachable nut drivers, sizes 3/16" to 1/2"; Double end screwdriver bit with 3/16" and 9/32" blades; and 1/8" to 5/16" tapered reamer. Tools fasten simply—are held securely in handle. In sturdy metal box which opens like a book—will stand on work bench or can be fastened to wall.



No. 16A838. Complete..... **\$5.85**

Set of 5 Screwdrivers



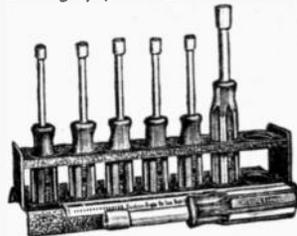
Shock-proof, break-proof amberyll handles. 5000-volt insulation. Sizes: 5/16x8" sq. bit, 1/4x6" round, 3/16x6" round, 1/16x4" with pocket clip, 1/4x1 1/4" stubby. Set of 5 deluxe lifetime screwdrivers.

No. 11A100. Per Set of 5 **\$2.49**
SET OF 3 THIN BLADE DRIVERS
Sizes 1/4x4", 1/8x8", 3/16x6".
No. 11A101.
Per Set of 3 in Case.... **\$1.79**



For Cross Slot Screws One Size Fits All

Fits all Reed & Prince and other recessed head cross slot screws from the smallest to the largest. 3/4" round blade in amberyll handle, over-all length 3 3/4".
11A102—Net Ea. **90c**



Type 137 Handles are color coded. Drivers are easily accessible from attractive metal stand. Contains sizes: 3/16", 1/4", 5/16", 11/32", 3/8"; and Hollow Shaft Drivers 7/16" and 1/2".
No. 20A587. Per Set..... **\$4.35**

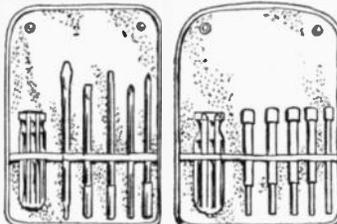
XCELITE HOLLOW SHAFT NUT DRIVERS



Full length hollow shaft. 5,000 volts shock-proof handle. Fits right over volume control shaft or other protruding bolts and stubs.

Stock No.	Depth of Hole	Nut Size	Lgth.	COST EACH
11A143	2 1/4"	3/8"	6"	62c
11A144	2 1/4"	1/2"	6"	62c
11A145	5"	3/8"	6"	62c
11A146	5"	1/2"	6"	71c
11A147	5"	3/8"	6"	73c
11A148	5"	1/2"	6"	76c
11A149	5"	3/8"	7"	88c

VACO HANDY POCKET TOOL KITS



① **SCREWDRIVER KIT.** Set of 5 snap-in bits—3 regulars, sizes 1/4x5", 3/16x4 1/2", 1/8x4 1/2"; one each No. 1 and No. 2, Phillips blades. Supplied with 1x3 3/8" Amberyll shock and breakproof handle. Blades are chrome vanadium steel with bright cadmium rustproof plating. In neat tool roll.
No. 16A444. Per Set.... **\$2.28**

② **NUT DRIVER KIT.** Set of 5 snap-in Hex wrenches, sizes 1/4", 5/16", 11/32", 3/8" and 7/16". Supplied with 1x3 3/8" Amberyll shock and breakproof handle. Sockets are super hard with bright cadmium rustproof plating. In neat tool roll.
No. 16A445. Per Set.... **\$2.58**

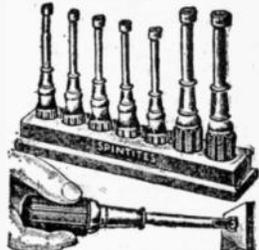
Phillips Offset Screwdriver



Handy for Tight Places. Finest alloy steel, carefully finished points.

No. 11A108. With Nos. 1 and 2 points for up to No. 9 screws..... **36c**
No. 11A109. With Nos. 2 and 3 points for No. 5 to No. 16 screws.... **59c**

Handy Pocket Wrench Set
Three double end wrenches in leather case. Sizes 1/4", 3/8", 7/16", 1/2" and odd sizes.
No. 11A138. Set..... **20c**



Bench Set of 7

One each 3/16" to 1/2". Spintites as listed below in handy stand. Affords quick selection.

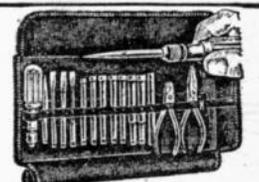
No. 11A117. Complete Set **\$3.82**
No. 11A118. Bench Stand Only... **97c**

Individual "Spintites"

Use like a screwdriver. Built with a thin walled hexagon socket on end. Hollow shanks, socket reaches down over to grip nut.

Stock No.	Hex. Size	Your Cost	Stock No.	Hex. Size	Your Cost
11A119	1/4"	41c	11A124	5/8"	59c
11A120	3/8"	41c	11A125	1/2"	59c
11A121	1/2"	41c	11A126	3/4"	1.03
11A122	5/8"	41c	11A127	3/4"	1.03

Stevens Walden WRENCH SETS



Handy Leatherette Roll Sets
T52. Contains Chuck-Type Handle with Ream-awl, 3 Screwdrivers, 7 Spintites, 3/8" to 1/2" insulated neutralizing Alignment Wrench, a pair of diagonals and side-cutting long nose pliers, in Leatherette Roll. **\$9.11**

No. 11A228. Complete, Only **\$9.11**
T51. Same as above except without pliers.
No. 11A140. Complete, Only **\$5.44**

MIDGET WRENCH SET

Handy pocket set that fills the needs for light work. Kit contains: 8 midget hex sockets — 3/16" to 7/16"; 3 midget double square sockets — 1/4", 5/16", 3/8". Spintite and hinge handle.
No. 16A455. Complete, Each **\$4.87**

RADIO WRENCH SET



Handy kit of socket wrenches useful for any service shop. Hollow handle holds case hardened sockets, sizes 1/4", 5/16", 3/8", 7/16" and 1/2". Heavily knurled handle is 7 1/2" long, made of high grade steel and nickel plated.
No. 16A368. Your Cost.... **71c**

Magnetic Pick-Up Tool

Reaches what your hands can't grasp. Use for picking up small parts from chassis or other hard to reach places. With permanent Alnico magnet. 10 1/2" overall length.
No. 16A854. Each..... **35c**

SOLDERING IRONS · SOLDERING GUNS · SOLDER

"DRAKE"—QUALITY, YET LOW IN PRICE ECONOMY MODELS | DE LUXE MODELS

60 WATTS— $\frac{3}{8}$ " TIP. A VALUE!
Type No. 315. Excellent for light work. Highest quality nichrome wire in porcelain element. With 6-ft. cord, rubber plug and stand. **\$1.12**
No. 11A214. Only.....
No. 16A508. Extra Tips.....53c

100 WATTS— $\frac{3}{8}$ " TIP. LOW PRICE!
Type No. 316. Highest quality nichrome wire in porcelain element. With 6 ft. cord, rubber plug and stand. **\$1.88**
No. 11A236. Only.....
No. 16A507. Extra Tips.....\$1.06

NEEDLE POINT MIDGET IRON WITH TWO HANDY TIPS
Type 350, 35-Watt High Quality, mica-wound iron for meter and hearing aid needs, provided with two $\frac{1}{8}$ " tips, one standard and the other a special 45° angle tip. **\$2.94**
No. 16A510. Each.....
No. 16A511. Standard Tip. Chc. **15c**
No. 16A512. Special Tip. Ea.

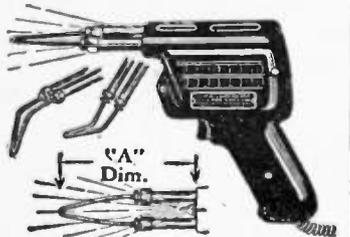
100-Watt IRON with $\frac{3}{8}$ " Plug Tip
Type 325. Ideal for general radio work. Highest quality Nichrome wire wound on amber mica. Complete with 6-ft. cord, rubber plug and stand. **\$2.94**
No. 11A233. Net Each.....
No. 20A574. Extra Tip.....47c

Special 125-Watt "EXTRA HOT"
Type 326. Special heavy service element, baffle fins keep handle cool. With $\frac{3}{8}$ " plug tip. A favorite with service men. **\$3.53**
No. 11A284. With Stand.....
No. 20A574. Extra Tip.....47c

The Popular "400" for Tight Spots and Delicate Work. 60 watts with $\frac{1}{4}$ " tip—only 9" long, weight only 8 oz., yet will stand the "gaff" for even industrial use. Magic cup stand packed with iron. **\$3.23**
No. 11A237. Net Each.....
No. 11A239. Extra Tips.....35c

NEW! HEAT CONTROL STAND
Type 305. Thermostatically controlled stand for all irons. Keeps iron at correct soldering temperature for instant use. **\$4.41**
No. 20A211. Each.....

Pull the Trigger, Start to Solder Within 5 Seconds



WELLER SPEED IRONS WITH SOLDERLITE

Power used only when trigger is held. Built-in spotlight focuses on work, making it easy to solder in dark corners. Loop tip has long reach to get farther down into work, and can be bent in any desired shape to solder around corners, etc. Easy to handle plastic case. Stays cool. Operates on 115 Volts, 60 Cycles A.C. 100 Watt Single Heat Models—for normal soldering.

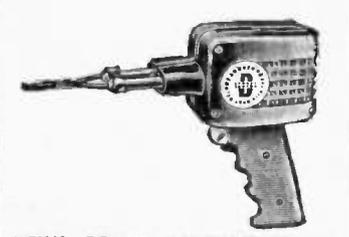
Dual Heat Models—has second heat that gives 35% reserve power—instantly—when needed for chassis or other heavier soldering.

STANDARD 100-WATT
No. 20B102. Single Heat S-107. Each **\$11.71**
No. 16A513. Dual Heat D-207 with "A" Dim 4". **\$13.67**
Each.....
No. 20A570. Dual Heat DX-8 with "A" Dim 8". **\$14.45**
Each.....

NEW! HEAVY DUTY 200-WATT
New streamlined design, no increase in weight over 100-watt gun "A" Dim 4".
No. 37B1. Single Heat **\$12.69**
WS-200. Each.....
No. 37B4. Dual Heat **\$14.65**
WD-250. Each.....

EXTRA TIPS
For 100-Watt Models
No. 20A103. Long Life Tip. **24c**
Pkg. of 4.....
No. 16A598. Duratip. **24c**
Pkg. of 2.....
For 200-Watt Models
No. 20A541. Rigid Tip. **34c**
Pkg. of 2.....

Trigger Action Gives Instant Heat When Needed



NEW! DRAKE "INSTANT HEAT" SOLDER GUN

Gun operates only when trouble-free trigger is squeezed. Built-in spotlight focuses on spot being soldered—keeps work always in view. Perfectly balanced, functional in design. Hand-some, durable maroon plastic case is properly louvered for cool operation. Tips are easily removed. Complete with $\frac{3}{16}$ " tip for ordinary soldering; $\frac{6}{16}$ " tip for deep chassis soldering. 110/120-volt, 60 cycles AC. 135 watts. **\$11.76**
No. 20A212. EACH.....

EXTRA TIPS
No. 20A543. $\frac{3}{16}$ ". Pkg. of 4. **29c**
No. 20A542. $\frac{6}{16}$ ". Pkg. of 2. **29c**

SOLDERING IRON STANDS



① Hooded Safety Stand. Prevents accidental burns of hands and test leads. **73c**
No. 20A581. Each.....
② Plain Stand. As above except without safety hood. **35c**
No. 20A580. Each.....
③ Magic Cup Stand. Iron rest with "Magic Cup" for cleaning tips. **44c**
No. 20A579. Each.....

LONG LIFE TIP
For Weller Irons
Designed for long use without breaking or "Eating through." Chromium Plated. **64c**
16A550. Each.....

"AMERICAN BEAUTY" IRONS



① 100-WATT MODEL 3138
This iron needs no description, it being an old stand-by in the industry for years. $\frac{3}{8}$ " tip, with 6-ft. cord and stand. **\$5.36**
No. 11A241. Your Cost, Each...
In Lots of SIX. Each.....\$5.08
No. 11A242. Extra Element.....\$2.39
No. 11A243. Extra Tips.....\$0.33

60-WATT MODEL 3128
A smaller "American Beauty" for lighter work and tight places. Plug type iron. $\frac{7}{16}$ " tip. **\$3.34**
No. 11B244. Complete with Stand.....
No. 11B245. Extra Tips.....27c

③ THERMOSTATIC CONTROL
To regulate heat of irons used at long intervals. Has adjustable thermostat. Made of durable plastic. Complete ready to use on 110-volt AC. **\$3.88**
No. 11A246. Net Each.....

② 200-WATT MODEL 3158
For work of a somewhat heavier nature. Complete with $\frac{5}{8}$ " tip, stand, and cord. **\$6.41**
No. 37A8. Your Cost, Each.....
In Lots of SIX. Each.....\$6.07
No. 20A576. Extra Tips.....73c

SOLDER FAST WITH "FLASH" SOLDERING IRON Streamlined, Perfect Balance, Non-Tiring Natural Grip TRIGGER CONTROLLED MODEL



Heats to soldering temperature in a few seconds following pressure on trigger. Heat is kept on and controlled (High or Low) as desired by trigger pressure. Ideal to work with in cramped or small spaces. Operates from a 6 volt storage battery. For use on 110 volt AC use transformer listed below. Comes complete with $\frac{5}{16}$ " tip. **\$2.85**
No. 11B225. Each.....
No. 11B224. Extra Carbon Element. Each.....8c

Transformer for 11B225 Iron for operation on 110-volt AC. **\$3.72**
No. 16A502. Each.....

No. 16A504. Extra $\frac{5}{16}$ " Tip for flash irons listed. EACH.....23c



Operates Directly from 110 Volts A.C.-D.C. Quick heating. Has a natural gun grip with a cool, protected plastic handle. Light weight, handy to use. Comes complete with $\frac{5}{16}$ " tip. **\$2.37**
16A503. Each.....
16A505. Replaceable Heating Element. Each... **\$1.12**

TIP ASSORTMENT
For Flash Irons
 $\frac{3}{8}$ " TIP PENCIL TIP CRAFTSMAN TIPS
Containing $\frac{3}{8}$ " Pencil, and Craftsman Tips. **75c**
No. 16B506. Asst. of 3 Tips.....

KESTER QUALITY SOLDER ROSIN OR ACID CORE



High quality solder for Radio, Television, Hobby, and Automotive work. Put up in 1 lb. or 5 lb. spools and $\frac{3}{16}$ oz. packages.
KESTER $\frac{3}{32}$ " (40% Tin, 60% Lead) Rosin Acid Put CHOICE
Core Up EACH
11A257 11A260 1 lb. **\$1.01**
11A258 11A261 5 lb. **4.85**
11A259 11A262 $\frac{3}{16}$ oz. **.18**
KESTER $\frac{1}{16}$ " Thin Core (40-60%)
11A263. 1-Lb. Rosin Core... **\$1.04**
11A264. 5-Lb. Rosin Core... **5.00**

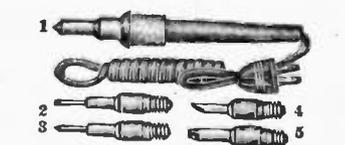
NEW! KESTER "RESIN FIVE"
 $\frac{3}{32}$ " (50% Tin-50% Lead)
The better solder for TV, Radio, Electronics—everything electrical. More active and stable.
198853. 1-Lb. Rosin Core... **\$1.14**
198866. 5-Lb. Rosin Core... **5.50**

BURNLEY SOLDERING PASTE
No. 11A267. Per 2-Oz. Can... **10c**

MALLORY SOLDERING IRON TIPS

Long Lasting Tip made of special copper alloy of great hardness and high electrical conductivity. Nickel plated to resist corrosion. Size $\frac{3}{8}$ " diameter, 4" length. **47c**
No. 20A574. Each.....

UNGAR SOLDERING PENCIL



Features New, Cooler Handle of Durable Plastic and Ceramic Separators For double Safety.

For those delicate jobs and hard-to-reach places. Weighs only 3.6 ozs. Over-all length 7". Draws 17 watts. Note the wide choice of tips—one for every need. They screw in handle like a lamp.
Soldering Pencil, less tip. **78c**
11A247. Your Cost, Each...
(1) $\frac{3}{8}$ " Standard Copper tip only. 11A248. Each... **78c**
(2) $\frac{1}{8}$ " Chisel tip made of Elkaley A. 11A249. Each... **78c**
(3) $\frac{1}{8}$ " dia. pencil tip made of Elkaley A. 11A250... **78c**
(4) Brass tip for plastics or marking. 11A251... **78c**
(5) Extra hot tip made of Elkaley A. 11A252... **78c**
Use It as Inspection Lamp.
Regular S6 candelabra 110 V. lamp screws in place of tip and you have a neat service light.
No. 16A168. S6 Lamp. Each. **18c**

HANDY TOOLS BARGAIN PRICED

TYLER "SPIRAL" SAW



Saws in any direction, without turning frame. Cuts wood, plastic or light metal without binding or breaking. Blades are made of High Carbon Spring Steel with teeth cut spirally the full length, providing a sharp cutting surface completely around the blade. Sturdy steel frame has lever adjustment for proper tension.

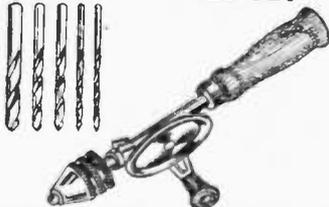
No. 16A544—Frame and 15 Spiral Blades..... **95c**
 Extra Blades, also fit any standard coping saw frame. \$1.00 value.
 No. 16A545.
 12 for..... **50c**

PLIER SET



Set consists of one "diagonal" and one "needle nose" side cutting pliers—both the product of a maker known for top quality. Drop forged from a good grade of steel. Semi-polished heads—blued steel handles. Fully guaranteed.
 No. 20B643.
 Special, Per Set..... **\$2.49**

MIDGET HAND DRILL and 5-PIECE DRILL SET



Drill has 3/16" capacity chuck with 3 case hardened jaws. 2 1/4" gear wheel with small gear for 3 3/4 to 1 ratio. Entire drill nicely finished and hardwood mahogany handle. Overall length only 7 7/8". Comes with good quality 5-piece drill set, sizes 1/16 to 3/16" by 32nds.
 No. 16A534—Hand Drill and 5-piece Drill Set. Only **\$1.35**

TUBE PULLER

For the small series of metal tubes that are usually so hard to get at.
 No. 17A360—SPECIAL, EA. **39c**

ROUND BASTARD FILE

3/8"x10". Ideal for smoothing and enlarging chassis cut-outs and for other general purpose use.
 No. 18A395. Special, Each **39c**

STAR MASONRY DRILL



1/4"x12". Every serviceman needs one, for installations of antennas, guy wire to brick or concrete walls and chimneys.
 No. 18A394. Special, Each **33c**

Remember... the B-A reputation for honest, dependable and friendly dealings protect your every purchase.

Caltronic (Ceramicore) Electric Soldering Irons



NOW at 1/2 WHOLESALE PRICE!

Made of highest quality materials, distinctive in their mechanical and electrical construction, streamlined, well balanced, light in weight and sturdy; designed with the Caltronic Ceramicore Heating Element for durability and featuring a comfortable, cool handle. Tips are standard, easily replaceable by merely loosening set screw.

Rigidly constructed, soundly engineered, you can depend on them to give long uninterrupted service. A Special B-A Purchase makes possible A Terrific Saving! One-Half Regular Wholesale Cost. Every One Brand New—individually boxed with Stand.

100-WATT TYPE C100
 3/8" diameter tip. Net weight, 16 ozs.; Length overall, 12"; Housing diameter, 7/8". Shipping weight, 1 1/2 lbs.
 No. 17B421. List Price, \$7.50. Regular Net, \$5.25. **\$2.62**
 Now While They Last! SPECIAL, EACH.....

150-WATT TYPE C150
 1/2" diameter tip. Net weight, 20 ozs.; Length overall, 12"; Housing diameter, 1". Shipping weight, 1 3/4 lbs.
 No. 17B426. List Price, \$8.25. Regular Net, \$5.78. **\$2.89**
 Now While They Last! SPECIAL, EACH.....

NEUTRALIZING TOOLS ALIGNMENT TOOL



Made of "tuff" Low Loss Bakelite. Has 3/16" wide metal blade insert. A quality tool for radio and TV alignment. Overall length, 4 1/2".
 No. 19B619. A Buy at Each. **19c**

Adjustable Neutralizing Tool



Finest quality bone-fibre. Extension screwdriver adjustable from 6 to 11" on one end and hex socket on other. Ideal for crowded spaces.
 No. 17B662. SPECIAL, EACH **29c**

NEUTRALIZING TOOL



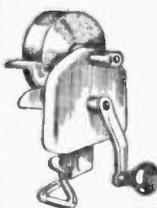
Sturdy, unbreakable. Has metal collars each end with 1/4" and 5/16" hex sockets.
 11A232. BARGAIN, Only..... **30c**

INSULATED HEX WRENCH



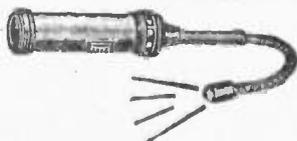
Inside hexed for 1/4" nuts. Hexed all through so when worn or broken merely saw off and you have a new wrench. Made of tough bone-fibre. 5" long.
 No. 16A371. Special, Each... **10c**

HOBBY HAND GRINDER



Handy clamp-on high speed grinder well suited for the amateur builder and hobbyist. A 2 3/4"x5/8" wheel driven at just the right speed for sharpening drill bits, knives, and other small shop tools. Has stamped metal case, tool rest, bronze bearings and screw-on clamp.
 No. 16A535. **99c**
 Net, Each.....

FLEX NECK FLASHLIGHT



Sturdily built bakelite case with 13" flexible steel neck—"just it" for getting light to out of way places such as in chassis and other blind spots. Can even be used in the gas tank, and in water—it is vapor and moisture proof. Bulb is protected against breakage. Built for the Air Force at a cost of several dollars. Comes ready to use, less batteries. Uses two standard flashlight cells available everywhere.
 No. 16A402. **95c**
 Special, Each.....

A HOT BUY! A HOT SOLDERING IRON!



Belden 8110

80-watt Belden Type 8110 with 3/8" "plug-in" type tip, extra long to hold the heat. With heat radiator fins to keep the large comfortable handle cool. Finest quality throughout. UL approved. Regular Net Price, \$3.40.
 No. 18A1059. Now While They Last. Each **\$1.99**

3/8-INCH SOLDERING IRON TIPS



3/8" diameter, 4 1/4" long Copper. Replacement for 100-watt irons using set screw type tips. "A Buy."
 No. 17B277. **28c** 6 Lots. **25c**
 Special, Each.....

MECHANICAL FINGERS



The handiest tool you can have for getting into those inaccessible places for retrieving or installing small parts, screws, nuts, etc. Has powerful spring tension and sure-grip jaws. 12" long.
 No. 16A401. At Least a \$1.00 Value for Only **50c**

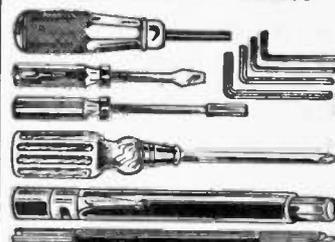
Jeweler's Screwdrivers



Hexagon swivel head, removable blade firmly held by threaded chuck eliminates any back-lash. Finest quality, at least a regular 65c value.

Stock No.	Blade Size	Overall Length	Choice Each
16A379	.080	3 11/16"	29c
16A551	.025	3 13/16"	

HANDY TOOL ASSORTMENT



Consists of a "5-in-1" alignment tool, an alignment screwdriver, a Bristol set—screwdriver, 4 Allen set-screw wrenches, a No. 1 Phillips screwdriver, a permeability IF wrench and a small screwdriver. Priced individually, this kit would cost at least \$1.00 more.
 No. 17A361. **\$1.65**
 A REAL BARGAIN.....

SOFT FACE HAMMERS



(A) Amber Plastic. 7/8" face fitted to metal shank on hickory handle. Made by Stanley.
 No. 16A373. Special, Each **65c**
 (B) 8-oz. Brass Hammer. Soft brass, 3/4" diameter head with metal tang and wood handle. For working metal and use where injury would occur from use of a hard metal hammer.
 No. 16A377. Special, Each..... **60c**

BERNARD PARALLEL ACTION PLIERS

Milled parallel jaws provide vise-like grip that won't slip. Has powerful side cutter on outside of head. Made of nickel chrome alloy steel—blue-black finish.



No. 16A543. Special, PER PAIR..... **\$1.25**

PEXTO 7" METAL SNIPS

Highest quality drop forged steel shears accurately machined to government specifications. Shaped to cut straight as well as right or left curves. An indispensable tool for the repairman and hobbyist.



No. 16A542. While They Last **\$1.19**

"CLEAN 'EM" AS YOU "FIX 'EM"



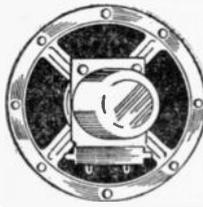
A must in every shop and tool kit. Quick and efficient for brushing dust out of chassis and parts; to clean switches, etc. This pair of brushes and a little carbon "tet" will do wonders.

Set consists of 1 duster brush 3/4" dia., 10" overall length and 1 wire handle bristle brush 1/2" dia., 8" overall length.
 No. 18A398. Per Set..... **39c**

See Pages 82 to 91 for Complete Listing of Tools.

Crazy Low Prices ON THESE POPULAR EVERYDAY NEEDS

These Speaker Values Defy ALL Competition



NOT a .68-oz., NOT a 1-oz. BUT a full 1.47-oz. Alnico V-Magnet—fully enclosed. NOT factory rejects BUT first quality—clean, perfect, with the usual guarantee. Note the handy bracket for mounting of output.

No. 14C616. 4" PM. **\$1.19** Lots of 10. Each **\$1.09**
 SPECIAL, EACH. No. *4A649. 5" PM. **\$1.29** Lots of 10. Each **\$1.19**
 SPECIAL, EACH. No. 14A654. 6" PM. **\$1.79** Lots of 10. Each **\$1.49**
 SPECIAL, EACH. No. 21A1030. 8" PM. A husky speaker with 3.16-oz. Alnico V-Magnet. Special, Each... **\$2.95**

ELECTRO-DYNAMIC SPEAKERS



450 Ohm Field With Output Transformers for 50L6 and similar tubes.

No. 14A645. 4". Spec. **\$1.39**
 No. 14A652. 5". Spec. **\$1.49**
 Each... **\$1.49**

HEAVY DUTY OVAL P.M.



6 3/8" x 9 1/4" x 4 1/2" Deep Overall

Has heavy slug to handle high output. Voice Coil 3.2 ohms. Just it for Auto Radio Speaker replacements and other applications where space is limited and a heavy duty speaker is desirable.

14A651. **\$2.65** Case of 4 **\$9.95**



6-INCH PM WITH ADJUSTABLE CONE

Alnico V-magnet 1.47-oz., wattage rating 4 normal, 6 peak. Dustproof all welded construction. The Adjust-A-Cone feature allows spider to be moved if necessary to recenter voice coil by merely loosening two screws and moving spider and voice coil laterally.

No. 20A780. Special, Each **\$1.95**

OVAL SPEAKERS at BIG SAVINGS!

No. 21A1023. 4x6" PM. EACH **\$1.39**
 No. 21A1024. 5x7" PM. EACH **\$1.79**
 No. 21A1025. 4x6" 450 Ohms. EACH **\$1.29**
 No. 21A1026. 6x9" 4-Ohm, 6-Volt. EACH **\$2.65**

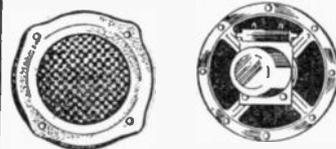
2x3-INCH OVAL PM SPEAKER



RCA Type 423S1. Perfect for building or replacement in "Personal Portable" type sets. Voice coil impedance 11.8 ohms; 1/2-watt output; 1.5-oz. Alnico V magnet. Ruggedly built.

No. 14B688. A VALUE. **\$1.19**

REAR SEAT AUTO SPEAKER



Consists of 5" PM, 1.47-oz. Alnico 5 Speaker, steel braid grille screen, grille cloth to fit; and Hammarloid finish mounting plate—harmonizes with all interiors.

No. 21A1028. Special, Each **\$2.95**
 6 Lots. **\$2.50**
 Each..... **\$2.50**

RCA 12-INCH PM

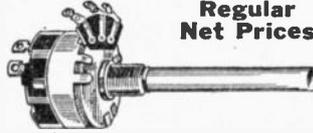


15-WATT OUTPUT ONLY **\$4.95**

Ruggedly built, 1-piece steel stamped frame; seamless felted cone. Voice coil impedance 3.2 ohms; 15-watt output; 6.8-oz. Alnico V magnet. "Controlled Resonance" for finer tone. Shipping weight, 7 lbs. Priced Less than Half of regular.

No. 30A123. Each **\$4.95**
 Case Lots of 6. Each **\$4.45**

VOLUME CONTROLS at LESS Than 1/2 of Regular Net Prices



Standard quality makes, midget all-purpose type with 1 1/4" round shafts.

500,000-Ohm, Less Switch. No. 19A1208. **18c** Lots of 10. Ea. **16c**
 200,000-Ohm, With Switch. No. 18A387. **27c** Lots of 10. Ea. **23c**
 500,000-Ohm, With SPST Switch. No. 17A446. **27c** Lots of 10. Ea. **23c**
 500,000-Ohm DPST Switch, the popular control for battery sets. No. 14A772. **39c** Lots of 10. Ea. **34c**
 1 MEG. CONTROL With DPST Switch No. 18A1002. **39c** Lots of 10. Ea. **34c**

N.U. "Sav-A-Shaft" VOLUME CONTROLS



EACH CONTROL COMPLETE WITH SWITCH

If no switch is needed, you still use same control. No shaft size or knob fitting problems—provides for use of shaft and knob from old control. All are Logarithmic taper except the 5000 and 25,000-ohm controls which are Linear. *Indicates tapped controls which can be used with or without tap.

Stk. No.	Res. Ohms	While They Last! Choice, Each
18A1012.	5,000	
18A1013.	10,000	
18A1014.	25,000	32c
18A1015.	50,000	
18A1113.	100,000	Lots of 10. Each 27c
18A1018.	*250,000	
18A1020.	*500,000	
18A1021.	*1 Meg.	

SAVE ON Auto Radio Suppressors

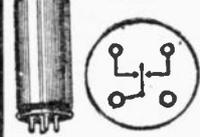


(A) and (B) Wire spring permits mounting in any position and makes a connection that won't shake loose. Cable ends mount by cutting ignition wire for a secure screw connection. Standard 10,000-ohm resistance for all around use.

(A) No. 17A248. For Distributor. **7c** 10 Lots. **5c**
 (B) No. 17A247. For Spark Plug. **7c** 10 Lots. **5c**
 (C) Universal for either Distributor or Spark Plug. Inserts in Cable by means of pointed screws in each end. No. 12A401. **10c** Lots of 10. Each. **7c**

A TERRIFIC VIBRATOR BARGAIN!

Well known quality make re-leased from government Surplus. BRAND NEW — PERFECT.



Non-Sync. 4 Contacts—4 Prongs (Standard) Fits Many Popular Auto Radios

19A25. Special, Each **\$1.19**
 TEN Lots, Each **99c**

MINIATURE TUBE PIN STRAIGHTENER

Made to Jan. specifications at a cost of several times our price. Precision machined stainless steel pin straightening die in cadmium plated frame. For 7-pin miniature tubes. Do not compare with the usual low priced straighteners.

No. 18A404. SPECIAL, EACH **\$1.45**

"RE-MOTE" REAR SEAT CAR RADIO SPEAKER



Easy to install in a few minutes—no cutting of holes required. Furnished complete with 17 ft. wire, fittings, resistor to match speaker to any standard Auto Radio and complete instructions. Consist of 5" quality PM speaker in beautiful marbled french gray plastic case, volume control built-in.

No. 14A650. Your Cost, Each **\$4.95**

REMEMBER... THE B-A REPUTATION FOR HONEST, DEPENDABLE AND FRIENDLY DEALINGS PROTECT YOUR EVERY PURCHASE.

TUBES

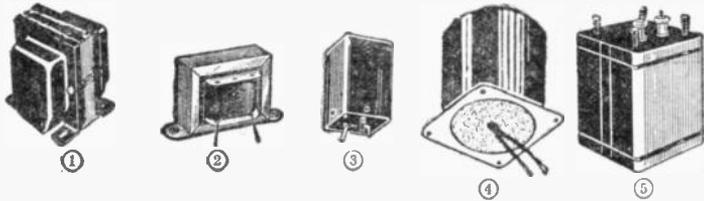
Standard Brands... some boxed, some in bulk—but all First Quality, Brand New and Guaranteed. In ordering please indicate types wanted giving stock numbers as listed below. Limited quantities—subject to Prior Sale.

Type	Stock No.	Type	Stock No.	Type	Stock No.
6C4	14A1012	6U6GT	14A993	6X4GT	14A1021
12A6	14A999	7A7	14A1021	7C6	14A1023
28D7	14A998	7C6	14A1023	12J5GT	14A1052
9003	20A728	12J5GT	14A1052	12S17	14A1049
1625	37T1002	12S17	14A1049	12SQ7	14A1026
1619	37T1015	12SQ7	14A1026	35W4	14A1028
CHOICE, ABOVE.....	29c	35W4	14A1028	35Z5GT	14A1029
6F6	14A1056	6H6GT	14A1036	7E	14A1053
6J5	21T3988	6SA7	14A1016	7T	14A1054
6K7	14A1057	6SC7	14A1046	14A1055	14A1055
6SH7	14A1051	6SJ7GT	14A1041	14A1056	14A992
12AU6	14A991	6SK7	14A1017	14A1057	21T3980
12SH7	14A1037	6SL7GT	14A1042	14A1058	20A729
CHOICE, ABOVE.....	39c	6SQ7	14A1018	CHOICE, EACH.....	49c

Type	Stock No.	Type	Stock No.	Type	Stock No.
OZ4	14A1001	1N5GT	14A1006	814	20A809
1H5GT	14A1004	1T4	14A995	SPECIAL, EACH.....	\$1.95
1R5	14A1050	3Q5GT	14A996		
1S5	14A1008	1LN5	14A1005	37T1001	
3Q4	14A1031	6SN7GT	14A1033	SPECIAL, EACH.....	\$1.19
354	14A1032	12SN7GT	14A1039		
6AC7	14A1058	50A5	21T3997	394A	37T1000
6V6GT	14A1019	50B5	14A1030	SPECIAL, EACH.....	\$1.95
6X5GT	14A1020	50L6GT	14A1045		
12SA7GT	14A994	117Z6GT	14A1048	371B	36T202
12SK7	14A1025	1616	20A665	SPECIAL, EACH.....	\$1.45
12SL7GT	14A1027	CHOICE, ABOVE.....	69c		
25L6GT	14A1043	6J6	14A1014	CL8020	36T205
35L6GT	14A1047	SPECIAL, EACH.....	89c	SPECIAL, EACH.....	\$1.95
14A7	21T3993	807	20A668	5F7	36T200
14B6	21T3995	SPECIAL, EACH.....	\$1.19	SPECIAL, EACH.....	\$1.45
14Q7	21T3994	866A	20A791	SPECIAL, EACH.....	\$1.95
35Y4	21T3996	SPECIAL, EACH.....	\$1.29		
2050	21T3987				

Transformers and Chokes at BIG SAVINGS!

BARGAINS IN FILTER CHOKES

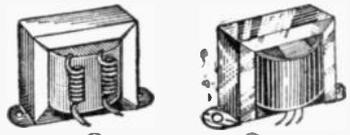


- 4 HENRY 270 MA.**
 ① Inductance, 4 henries. Fully encased upright mounting with leads out bottom. Size, 3x2 7/8 x 3 3/4" high. Weight, 4 lbs. Shipping wt., 5 lbs. **No. 4A71. Special, Each... \$1.88**
- 10 HENRY 75 MA.**
 ② 240-ohm filter choke with strap mounting. 240 ohms DC resistance. 2 7/8" mounting centers. You'll want several of these at this price. **No. 13B263. Special, Each... 69c**
- 8 HENRY 100 MA.**
 ③ A Terrific Value. Strap mounting with 2 7/8" mounting centers. **No. 18A1075. Special, Each... 79c**
- 5 HENRY 50 MA.**
 ④ 500 Ohms, 1000 test volts. Size, 2 3/8 x 1 3/8 x 1 3/8". **No. 18A1078. ONLY... 29c**
- 4.2 HENRY 300 MA.**
 ① DC resistance 78 ohms, 2500 volts breakdown. Fully enclosed round metal case, 4 1/2" high x 3 3/4" diameter, base 4" square with 4 screw holes for easy mounting. Insulated wire leads. A Top Quality Choke Built by a Leading Maker. Weight, 9 lbs. **No. 3A135. Special, Each... \$2.45**
- 2.5 HENRY 375 MA.**
 ② 5000-volt insulation. DC resistance only 20 ohms permitting use in multiples for better filtering with extremely low voltage drop. In black enameled hermetically sealed case with 4 mounting studs and ceramic post terminals. Size, 3x2 3/4 x 3 5/8" high. Made to government specifications. **No. 18A1032. Special, Each \$1.49**

FILAMENT TRANSFORMERS

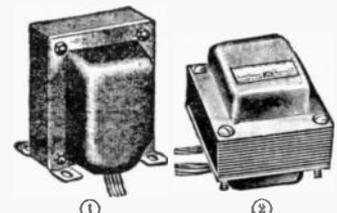
- ① Two secondaries, 5-volt 6 amps., 6.3-volt C.T. 6 amps. Primary 115-volt 60-cycle. Has electrostatic shield between windings. Fully encased, double half-shell mounting. Size, 3 7/8 x 3 3/8" wide x 3 3/4" deep. Weight, 4 lbs. Would Regularly Cost You Twice as Much. **No. 3A137. SPECIAL, EACH... \$1.95**
- ② 2.5-VOLT. Secondary 1-amp., Primary 115-volt 60-cycle. Size, 2" high x 1 1/2" thick. 2" mounting centers. **No. 20B14. SPECIAL, EACH... 59c** Lots of 10. **55c**
- ③ 6.3-VOLT. Secondary 1-amp., Primary 110-volt 60-cycle AC. Strap mounting. Size, 1 5/8" high x 1 1/2" thick. Mounting centers, 2 3/8". At This Give Away Price You Can Afford One for Each Tube. **No. 18A1076. SPECIAL, EACH... 95c**

OUTPUT TRANSFORMERS



- ① FOR 50L6, ETC.**
 2000-ohm primary to couple one tube of following types to 3 or 4-ohm voice coil: 25L6, 35L6, 50L6, 50A5, 70L7. 2" mounting center x 1 1/4" high. **No. 18A888. 45c** Lots of 10. **Each... 39c**
- ① FOR SINGLE 6V6**
 Matches single 6V6 to 4-ohm voice coil. Mounting centers, 2 3/8". **No. 18A1072. Special, Each... 68c**
- ① PUSH-PULL 6F6**
 For 6F6 tubes to 4 ohms. **No. 13A264. Special, Each... 65c**
- ① PUSH-PULL 6V6**
 Matches push-pull 6V6's to 4-ohm voice coil. Mounting centers, 2 3/8". **No. 18A1073. Special, Each... 87c**
- ① PUSH-PULL 6L6**
 Matches push-pull 6L6's to 4-ohm voice coil. Mounting centers, 2 7/8". **No. 18A1074. Special, Each... \$1.19**
- ② UNIVERSAL OUTPUTS**
 Primary 2500 to 13000 ohms. Secondary 2 to 15 ohms with instructions. Mounting centers, 4-watt 2 1/8", 8-watt 2 3/8". **No. 13A300. 87c** 5 For. **\$3.95**
No. 13A301. 98c 5 For. **\$4.75**

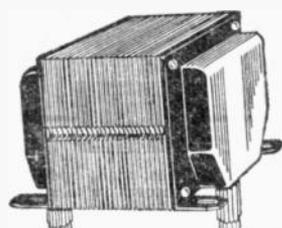
POWER TRANSFORMERS



- 200 MA. 850-VOLT C.T.**
 ① Furnishes high voltage plus 6.3-volt C.T. at 5 amp. and 5-volt at 3 amp. filament. Pri. 110-volt 60-cycle AC. Top quality construction. Fully shielded, upright mounting with wire leads. Size approx. 3 7/8" square x 4 3/4" high. Weight each, 7 3/4 lbs. **No. 3A122. Special, Each... \$3.97**
- 150 MA. 750-VOLT C.T.**
 ② High voltage plus 6.3-volt at 5 amp. and 5-volt at 3 amp. filament. Pri. 110-volt 60-cycle AC. Double half-shell construction. Fully shielded with coded wire leads. Size overall 3 1/8 x 3 3/4 x 4 1/4" high. Wt. each, 6 lbs. **No. 3A123. Special, Each... \$2.97**

- 190 MA. 780-VOLT C.T.**
 ③ Size, approximately 4 1/2 x 3 3/4 x 4 1/2". Weight, 9 lbs. Otherwise as above. **No. 3B101. Special, Each... \$3.47**
- 90 MA. 650-VOLT C.T.**
 ④ For sets up to 10 tubes. Filaments, 5-volt at 2-amp. and 6.3-volt at 3.5-amp. Size, 3 3/8 x 2 7/8 x 3 1/4" high overall. Double half-shell mounting. Shipping weight, 4 lbs. **No. 4A72. Each... \$2.29**

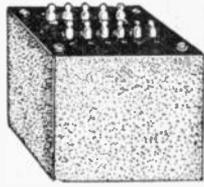
HEAVY DUTY PLATE and FILAMENT TRANSFORMERS



900-Volt C.T. at 270 M.A.—Plus Five Filament Windings: 6.3-volt @ 3A., 6.3-volt @ 3A., 6.3-volt @ 10A., 2 1/2-volt @ 10A. and 5-volt @ 6A. Primary 110-volt.
 The core stack measures almost 4" wide, 4 1/2" high, and 3 7/8" deep. Overall length, 6". Weight, 17 1/2 lbs.
 We highly recommend this transformer for transmitters, excitors and high power amplifiers. Perfect for use with surplus command transmitters. Regularly you would pay more than twice this price. Shipping weight, 19 lbs.
No. 4A73. SPECIAL, EACH... \$5.47

ADC HEAVY DUTY POWER TRANS.

Primary 115 volts 60-cycle; Secondaries 650 volts C.T. at 250 ma., 5 volts at 3 amps., 36 volts at 1 amp. and 36 volts at 1 amp. Ideal for low voltage high current plate supplies. 36-volt windings can be used with dropping resistor for 24-volt equipment or may be connected together and used as bias supply. Steel case, black crackle finish. Size, 4 3/4 x 4 3/8 x 5 1/2". Weight, 16 lbs.
No. 3A126. SPECIAL, EACH... \$3.95



SAVE HALF on THESE HEAVY DUTY OUTPUT TRANSFORMERS EVERY ONE BRAND NEW! (NOT WAR SURPLUS)

- MADE BY AMERTRAN, an old and respected name in transformers.** All types are upright mounting fully encased, with lug terminals. Much needed for amplifier repairs and construction. Buy several while they last! Quantities limited! Secondary impedance all types 4, 8, 15, 250, 500 ohms.
- For Class AB1 operation of PP 6V6, 7C5, 45 or Class B 6N7, 53.** Primary impedance 8000 ohms. Primary current each side 45 MA. Maximum watts 15. Wt., 3 lbs. **No. 3A128. Special, Each \$1.95**
- For Class AB1 operation of PP 2A3, 6A3, 6B4 or Class AB2 PP 45.** Primary impedance 3000 ohms. Primary current each side 70 MA. Maximum watts 20. **No. 3A129. Special, Each \$2.45**
- For Class AB operation of PP 6L6.** Primary impedance 4300 ohms. Primary current each side 95 MA. Maximum watts 25. Wt., 3 lbs. **No. 3A130. Special, Each \$2.15**
- For Class AB2 operation of PP 6L6, 2A5, 6F6, 42 (Triode connected) or Class B 46, 59.** Primary impedance 6000 ohms. Primary current each side 75 MA. Maximum watts 30. Weight, 4 lbs. **No. 3A131. Special, Each... \$2.75**
- For Class AB1 operation of PP 6L6 (Fixed bias).** Primary impedance 6600 ohms. Primary current each side 70 MA. Max. watts 30. Wt. 4 lbs. **No. 3A132. Special, Each... \$2.75**

MIKE TRANSFORMER

Compact in Gray case, 1 3/4" square x 2 5/16" high. Matches either 200-ohm dynamic or single-button carbon mike to grid. Electrostatic shielded. Has four threaded mounting studs. **No. 18A960. Each 95c**



Save Plenty on this UNIVERSAL Speaker Matching Transformer

TV POWER TRANSFORMER

Suitable for type 630TS TV Sets or other Radio Gear. Primary: 110-V., 60 cycles AC. 730-V. C.T. at 275 MA., 5-V. at 6 amps. for 2 5U4C rectifiers, 5-V. at 2 amps., 6.3-V. at 8 amps. Electrostatic shielding. Size overall, 3 3/4 x 4 1/2 x 5 1/8". Half shell mounting extends 4 1/4" above chassis. Mounting size, 3 3/8 x 3 3/8". Chassis cut out required 2 7/8 x 3 3/8". Top quality and equal to transformers selling regularly at Double Our Price.
No. 5A153. Shipping weight, 14 lbs. Limited Quantity. Special, Each... \$5.95

10 WATTS RANGE 100/10,000 CPS. Potted and fully cased. Top Quality. Comes with full instructions for properly matching almost any number of speakers having voice coils of 3 to 4 or 15 ohms to any line impedance between 50 ohms and 10,240 ohms. Use one on each speaker for multiple sound installations in schools, plants, etc. By selecting proper primary taps almost any number of transformers can be paralleled or connected in series to match a 500-ohm line or other line impedance you choose. Equally well suited for single speaker jobs and for radio and amplifier repairs. High Primary impedance allows direct match to single plate of many tube types. OK for use on the service test bench and for countless experimental applications. Case size, 3" wide, 3" high overall, 1 3/4" deep. Black enamel finished. Weight, 2 lbs.
No. 18A1022. Special, Each \$1.95

For Low Cost Replacement. Type BAH THORDARSON OUTPUT TRANSFORMERS

Stock No.	Thord No.	Impedance		Single Tubes	Prim. Ma.	Wts.	Mtg. Area	Your Cost
		Primary	Sec.					
20A594	TS-24950	2000	3-4	50L6-25B5	55	5	2 3/8 x 1 1/4	\$0.82
20A595	TS-24551	5000	3-4	35L6-154	40	5	2 3/8 x 1 1/4	.91
20A596	TS-24552	7000	3-4	3Q5-6V6	30	5	2 3/8 x 1 1/4	.94
20A597	TS-24554	15000	3-4	6F6-1T5	10	5	2 3/8 x 1 1/4	.97
UNIVERSAL TYPE								
20A598	TS-24560	4M to 14MCT	1-29	Single or P.P.	35	4	2 3/8 x 1 1/2	1.41
20A599	TS-24561	4M to 14MCT	1-29	Single or P.P.	40	4	2 7/8 x 1 1/2	1.59

Take Time, Check every item FOR TERRIFIC VALUES

TRANSMITTING MICA CONDENSERS



Every one factory marked for rating. Most celebrated makes, many specially prepared with salt spray test, high capacity stability with respect to temperature change. Buy Them Now For Future Needs.

1000 DC TEST VOLTS				2500 DC TEST VOLTS			
Cap. Mfd.	Type (above)	Stock No.	Special Each	Cap. Mfd.	Type (above)	Stock No.	Special Each
.00005	4	15A26	\$.18	.00025	3	15A43	\$.35
.0001	4	15A27	.18	.00025	1	18A614	.35
.005	4	17A287	.20	.0005	3	15A44	.35
.005	5	18A612	.20	.006	1	15A47	.47
.006	3	15A35	.25	.002	1	15A46	.43
.003	4	15A32	.22	.02	2	18A118	.85
.02	5	18A628	.32	5000 DC TEST VOLTS			
.01	5	18A627	.32	Cap. Mfd.	Type (above)	Stock No.	Special Each
.01	1	18A116	.45	.00025	1	18A613	\$.45
				.005	2	18A121	.65
				.002	3	15A56	.55
				.001	3	18A870	.50
				.01	2	18A615	.85

Bargains in Small Micas



Every One of Recognized make and quality in standard size with factory marked ratings.

Stk. No.	Cap. Mfd.	Choice Each
18A133	.00005	10c
18A134	.0001	Per 100
18A135	.00015	\$8.00
18A136	.00025	
18A137	.0005	
18A138	.00075	
18A139	.006	Choice Each
18A872	.005	12c
18A667	.004	
18A618	.003	
18A140	.002	
18A611	.0015	
18A610	.001	

18A229 .01 Each.. 15c

Mica Condenser Asst.

TEN, assorted of those listed above and other popular ones. A Real Bargain! No. 18A633—Per Asst... 75c

SOLAR—"Domino"

Bakelite Molded Paper Capacitors



Cap. Mfd.	Volts	Stock No.	Special Each
.1	400	18A622	13c
.25	200	18A237	15c
.5	200	18A624	25c

KIT of 10 MOLDED PAPER CONDENSERS, assorted from above and others. No. 18A827. Per Kit Only.. 75c

"HOT" TUBE BARGAINS

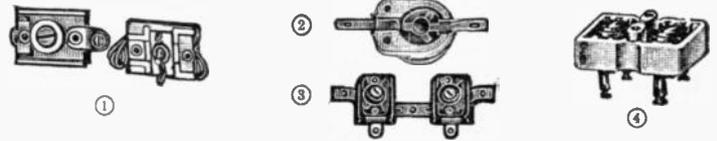
"Sylvania" identical to tubes that cost twice these prices except—not boxed.

Type	Stk No.	Each	25 Lots
14A7	21T3993	59c	53c
14Q7	21T3994	59c	53c
14B6	21T3995	59c	53c
35Y4	21T3996	59c	53c
50A5	21T3997	69c	62c

KIT OF FIVE

1 of each type as listed.
No. 21T3998..... \$2.95
10 Kits, Per Kit..... \$2.70

CERAMIC TRIMMER CONDENSERS



① MIDGET PADDERS and TRIMMERS

Stock No.	Cap. in mmfd.	Min.	Max.
17B283	2	5	30
17B249	5	10	15
15A1126	10	15	250
15A1127	15	30	375
15A1114	30	40	450
15A1112	40	65	450
15A1111	65	175	600
15A1113	175		300

CHOICE EACH... 10c LOTS of 10. EACH... 8c

② CRL MIDGET TRIMMERS

For soldering into circuit or can be fastened flat to chassis. Very stable and vibration proof. Size 1"x3/8". No. 17A431. 7 to 45 mmfd. No. 17A432. 4 to 30 mmfd. CHOICE EACH, SPECIAL... 19c

③ DUAL SECTION

2-30 mmfd. each section, mounted on handy bracket. Can be removed and used individually. No. 17A433. Per Assembly... 15c

④ DUAL CERAMIC TRIMMER

Sec. 1, 120 mmfd.; Sec. 2, 45-180 mmfd.

No. 18A1000. Special, Each... 10c For. 75c

DUAL PADDER. 15 to 365 mmfd. No. 17B284. Each... 15c

TRIMMER AND PADDER ASST. 25 assorted ceramics in popular capacities and types. No. 18A156. Per Asst... 65c

CERAMIC CAPACITORS



Stock No.	Cap. Mmfd.	WELL KNOWN QUALITY MAKE	Stock No.	Cap. Mmfd.
17B670	3	18A141	15	
17B668	5	17B671	30	
17B667	8	17B669	70	
17B672	10	18A848	250	

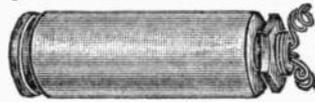
YOUR CHOICE... 8c LOTS of 10. EA... 5c

Ceramic Condenser Asst.

KIT of 10 Fixed Condensers Assorted from those listed above and other popular capacities. The use of any at regular price would pay for entire lot. No. 17A376. Per Asst. of 10... 39c

Aluminum Can Screw Neck Electrolytics

Direct Replacement for Right Wet and Dry Electrolytics



450 Working, 525 Peak Volts

Designed for heavy duty service—size 1"x4" with 3/8" standard threaded neck—easy to mount in holes of old condenser to be replaced. Finest Quality, Fully Guaranteed.

8 Mfd. No. 15A378.	Each... 49c
16 Mfd. No. 15A379.	Each... 59c
20 Mfd. No. 15A383.	Each... 65c
30 Mfd. No. 15A380.	Each... 73c
8-8 Mfd. No. 15A381.	Each... 73c

ELECTROLYTICS for Motors, Rectifiers, Etc.



115 Mfd. 110-Volt AC. In cardboard insulated can, 1 3/8"x3 1/2". For motor starting, etc. No. 17A480. EACH... 65c

BUY WITH CONFIDENCE. B-A list ONLY NEW, TOP QUALITY items—even though surplus.

Sub-Midget "MATCHSTIX" 400 V. Tubular Condensers



Tiny, high-quality tubulars that can really "fake-it". Overall size only 5/32" dia., 1" long with cemented-in, 2" flexible, tinned wire leads.

Stk. No.	MFD	While They Last
15A384	.001	
15A385	.002	Your
15A386	.004	Choice Ea.
15A387	.01	10 for 85c

PAPER TUBULARS



No. 18A981. .2 mfd., 400-Volt Paper Tubulars, top notch quality, standard make and size. No. 15B367. .1 mfd., 400-Volt. No. 15B368. .003 mfd., 600-Volt. Choice, Any of Lots of Above. Each... 8c 10. Each 6c

BUFFER CONDENSER

.02 mfd., 1600 Volt, oil filled tubular, sealed and externally insulated. Size 1 1/2"x3/4" with tinned wire leads. 75c Value!

No. 17A364. Special, Each 15c Lots of 10. Each 12c

BARGAIN ASSORTMENT 25 PAPER TUBULARS

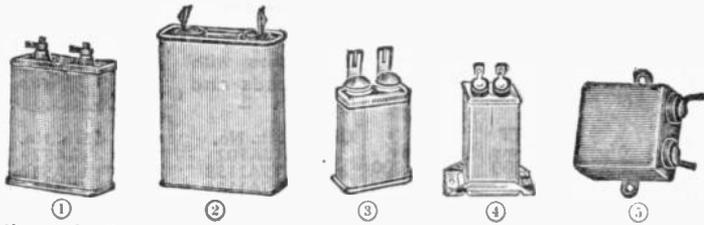
A handy assortment of 25 paper tubular Condensers, in good usable capacities and voltages. All first quality standard makes. No. 18A203. 25 Assorted. Only... 99c
Kit of 25 Paper Tubulars, 5 each .01, .02, .05, .1, .5 mmfd., all 600 volt. Special, Per Kit. No. 21T3999... \$2.85

SAVE WHILE YOU CAN ON 807 TUBES

JAN inspected, quality make, individually boxed, clean, perfect. GUARANTEED. No. 20A668. Special, Each... \$1.19

Condensers ★ Priced as low as 1/10th of regular price!

OIL FILLED CONDENSERS



Known Quality Brands in hermetically sealed metal case. Ratings and voltages are exact as marked on each unit by the maker. Built to rigid A. & N. specifications. Buy Now for Future Needs—they can't spoil. You will pay up to five times as much when present surplus stocks are gone.

(Fig. 1) Rectangular Cans with Ceramic Pillar Terminals

Cap. Mfd.	Working Volts	Size	Stock No.	Price Each	Lots of 10
	1000	2 3/4 x 1 3/8 x 1"	17A169	\$0.65	\$0.62
1	2500	4 3/4 x 3 3/4 x 1 1/8"	17A485	1.45	1.40
1.5	1500	4 3/4 x 1 3/8 x 1"	17A473	.80	.75
2	600	2 7/8 x 1 3/4 x 1"	18A214	.65	.62
2	1000	4 x 1 3/4 x 1"	17A170	.95	.89
2	1500	4 x 2 3/8 x 1"	17A470	1.55	1.88
2	2500	4 1/2 x 3 3/4 x 1 3/8"	21T3990	2.95	2.85
2	4000	4 3/4 x 4 3/8 x 3 3/8"	4A59	3.95	3.65
2	5000	6 x 4 1/2 x 3 3/4"	4A60	6.95	6.65
3	1000	3 1/2 x 2 5/8 x 1"	17A484	1.25	1.18
3	4000	6 1/2 x 4 1/2 x 3 3/8"	4A61	6.95	6.65
4	600	3 7/8 x 2 1/2 x 1 1/8"	17A486	.65	.60
4	1000	4 5/8 x 2 1/2 x 1 1/8"	18A226	1.35	1.30
4	1500	4 5/8 x 3 5/8 x 1 1/2"	17A474	1.95	1.88
5	600	4 3/4 x 1 3/4 x 1"	18A366	.65	.60
6	600	4 3/4 x 2 3/8 x 1"	17A482	.75	.70
8	600	4 1/4 x 3 3/4 x 1 1/8"	17A469	.88	.88
8	1500	4 3/4 x 3 3/4 x 2 1/2"	17A475	2.45	2.35
10	600	4 5/8 x 3 1/2 x 1 1/2"	18A111	.95	.88
10	1000	4 5/8 x 3 3/4 x 1 3/4"	17A268	1.95	1.85

(Fig. 2) Rectangular Cans with Lug Terminals

Cap. Mfd.	Working Volts	Size	Stock No.	Price Each	Lots of 10
2	400	2 3/4 x 1 3/4 x 1"	17A342	\$0.29	\$0.25
2	600	2 3/4 x 1 5/8 x 1"	18A881	.45	.40
4	400	3 1/4 x 2 1/2 x 1 1/8"	17A340	.49	.40
4	600	3 1/4 x 2 1/2 x 1 1/8"	18A971	.60	.55
6 Mfd. 330-Volt AC		4 3/4 x 2 3/8 x 1 1/8"	17A478	.85	.80

Terminals have insulating barrier.

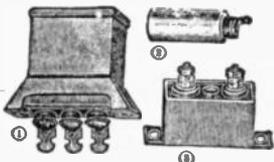
(Fig. 3) Compact Rectangular Cans

Cap. Mfd.	Working Volts	Size	Stock No.	Price Each	Lots of 10
.025	1000	1 1/4 x 1 x 5/8"	18A213	\$0.40	\$0.36
.25	400	1 1/4 x 1 x 5/8"	18A224	.35	.32
.5x.5	400	1 7/8 x 1 1/8 x 1 1/8"	18A209	.35	.32
1.5	600	1 3/4 x 1 1/4 x 1 1/8"	18A211	.40	.36
1	400	1 3/4 x 1 1/4 x 1 1/8"	18A212	.50	.45
1	1200	3 7/8 x 1 5/8 x 1 1/8"	17A472	.75	.68

(Fig. 4) As Above Mounting Bracket Attached

Cap. Mfd.	Working Volts	Size	Stock No.	Price Each	Lots of 10
.05	600	1 3/4 x 1 x 3/4"	18A228	\$0.25	\$0.23
.1	1000	1 3/4 x 1 x 3/4"	18A664	.45	.41
1.	400	2 x 1 3/4 x 1 1/8"	18A206	.35	.32
1.	600	2 x 1 3/4 x 1"	18A207	.45	.41
2.	600	2 x 2 x 1 1/8"	18A113	.60	.54
2x2	100	2 7/8 x 1 3/4 x 1"	18A112	.25	.23

MISCELLANEOUS OIL FILLED CONDENSERS



All are hermetically sealed in metal containers.

① 3X .1 MFD. 600-Volt DC. Size 2 5/8" overall height x 2 3/8" wide at mounting bracket x 1/2" thick. No. 18A592. Special, Each... **10c**

② .5 MFD. 200-Volt. Size 3/4 x 2 1/4". No. 17B727. Special, Each... **15c**

③ .1 MFD. 350-Volt. Size 1 7/8 x 1 1/4 x 3/8". No. 18A109. Special, Each... **15c**

Oil Filled Condenser Assortment

10 Assorted of those listed above and other popular capacities in Bath-Tub and tubular types.

No. 18A968. Per Assortment... **95c**

\$1.88 VALUE FOR ONLY... 59c

PAPER REPLACEMENT CONDENSERS for 8 Mfd. ELECTROLYTICS 800-Volt Peak 600-Volt DC Working



Paper Dielectric Capacitors in standard inverted Aluminum can 1 3/8 x 4 3/8" and with 6" insulated wire leads. Made of sealed paper windings of high voltage breakdown, high insulation resistance, and low power factor. Known to maintain their actual capacity permanently.

Well Known Quality Make — Brand New. Buy Plenty at this Crazy Low Price—paper condensers won't deteriorate in stock. List Price, \$3.25. Regular Net Price, \$1.88.

Stock No. 18A1055. Scoop Price! Each... **59c**

10 Lots. EACH... **49c**

TUBULAR OIL FILLED CONDENSERS



In convenient hermetically sealed round aluminum containers. Mount upright or inverted. Come with mounting clamps or nuts.

① 2 Mfd. 1500 Volts D.C.W. with high voltage pillar terminals. Size, 2" diameter x 4 3/4" high. No. 17A471. Special, Each **\$1.95**

② "TLA" C.D. DYKANOL

One terminal is well insulated, the other is the can itself. Standard inverted mtg. with threaded neck and nut. 2 Mfd. 600 Volts D.C.W. Size, 1 1/2 x 2 7/8". No. 17A466. Special, Each **60c**

2 Mfd. 600 Volts D.C.W. Size 1 3/8 x 3 3/4". No. 18A594. Special, Each **60c**

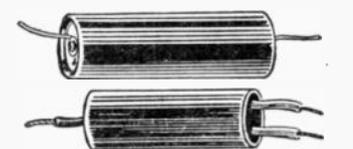
1 Mfd. 1500 Volts D.C.W. Size, 1 1/2 x 4 1/2". No. 17A467. Special, Each **95c**

2 Mfd. 1000 Volts D.C.W. Size, 1 1/2 x 4 1/2". No. 18A890. Special, Each **75c**

③ "TZ" MALLORY

Internally Insulated From Case. 2 Mfd. 1000 Volts D.C.W. Size, 1 3/8 x 3". No. 17A468. Special, Each **95c**

Electrolytic Condensers at DEEP CUT PRICES POPULAR STANDARD BRANDS EVERY ONE GUARANTEED



Quality makes, fully guaranteed, waxed cardboard encased with tinned or insulated wire leads. Dual types have common negative.

Cap. Mfd.	DC Wkg. No.	Stock No.	Net Ea.	10 Lots
8	450	17A225	29c	27c
8-8	450	17A234	59c	48c
16	450	17A232	41c	39c
20	450	14A775	59c	54c
20	350	18A1118	29c	26c
30	450	17A233	55c	53c
40	350	18A1117	29c	26c
8	150	14A774	32c	29c
20	150	18A634	25c	23c
30	150	15A412	40c	38c
40	150	15A413	44c	42c
20-20	150	17A235	33c	31c
30-30	150	17A440	45c	43c
40-20	150	18A632	50c	48c
40-40	150	15A416	59c	57c
50-30	150	17A441	50c	48c
25	25	15A418	32c	30c
10	50	15A419	32c	30c

Terrific Price Cuts on Popular Size F.P.'s

Top Makes, Brand New, Fresh, regular in every way except our Crazy Low Prices. Every One Guaranteed.

15-15 Mfd. x 20 Mfd. 450 Volts 25 Volts

18A1054. 10 Lots **39c**

Spec., Ea. **49c**

Stk. No. Capacity Each

18A1023. 15 Mfd., 450-Volt... **55c**

18A1024. 20 Mfd., 450-Volt... **63c**

18A630. 20-20 Mfd., 450-Volt... **49c**

18A1025. 40 Mfd., 450-Volt... **79c**

18A1026. 30-30 Mfd., 150-Volt... **69c**

MALLORY CONDENSERS

A special purchase enables us to offer these at prices even less than 1/2 of regular on some types. First Quality Clean Stock—Every One Fully Guaranteed.



(A) and (B) are popular cardboard tubulars with inner seal and ample wax seal at ends and flexible insulated leads. The single units (A) are provided with feet for vertical mounting in addition to an adjustable strap with each for horizontal mounting like on Dual unit (B). Type (C) are encased in aluminum cans with threaded necks for mounting.

(A) 8 Mfd. 450 Working Volts. Type ST595, size 3/4 x 2 1/2". List Price, \$1.15. No. 15A284. 10 Lots. **34c**

Special, Each **39c**

(A) 16 Mfd. 450 Working Volts. Type ST597, size 13/16 x 2 3/4". List Price, Each \$1.55. No. 15A285. 10 Lots. **43c**

Special, Each **49c**

(A) 30 Mfd. 450 Working Volts. Type ST599, size 1 x 3 1/2". List Price, \$1.85. No. 15A287. 10 Lots. **49c**

Special, Each **59c**

(A) 8-8 Mfd. 450 Working Volts. Dual separate sections. Type 25567, size 1 1/8 x 2 7/8". List Price, Each \$2.30. No. 18A1066. 10 Lots. **49c**

Special, Each **59c**

(A) 8-8-8 Mfd. 450 Working Volts. Triple separate sections. Type 35584, size 1 3/8 x 2 7/8". List Price, Each \$2.75. No. 17A487. 10 Lots. **65c**

Special, Each **69c**

(B) 20-20 Mfd. 150 Working Volts. Type 2N509, size 7/8 x 2 3/8". List Price, Each \$1.30. No. 17A463. 10 Lots. **43c**

Special, Each **49c**

(B) 20-20 Mfd. 150 Volt x 20 Mfd., 25-Volt. Triple section common negative, Type 3N527. List Price, \$1.90. No. 17A488. 10 Lots. **54c**

Special, Each **59c**

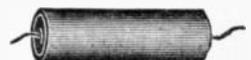
(C) 8 Mfd. 600 Working Volts. Type H5693, size 1 3/4 x 4". Insulated wire leads. Ideal for high surge voltage conditions. List Price, Each \$4.00. No. 17A464. 10 Lots. **89c**

Special, Each **99c**

(C) 8 Mfd. 450 Working Volts. Type RS213, size 1 x 2 3/4". List Price, \$1.75. No. 17A489. 10 Lots. **54c**

Special, Each **59c**

PAPER TUBULAR CONDENSERS



Compact, ruggedly built, full ratings; here are great values in tubular paper condensers. Wound absolutely non-inductively with tin foil. Made with hot soldered leads, assuring freedom from contact resistance. Completely sealed against moisture.

600 WORKING VOLTS D.C.

Cat. No.	Cap. Mfd.	Each	10 at
15A420	.001	8c	7c
15A421	.002	8c	7c
15A422	.005	9c	8c
15A423	.01	9c	8c
15A424	.02	10c	9c
15A425	.05	11c	10c
15A426	.1	13c	12c

Kits of Paper Tubulars

Kit of 18 CONDENSERS. Contains 2 Each .001, .002, .005 and 3 Each .01, .02, .05, .1. All 600-Volt top quality paper tubulars. **\$1.29**

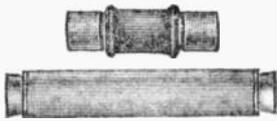
No. 15A388. Your Cost... **\$1.29**

Kit of 36 CONDENSERS. Contains 4 Each .001, .002, .005 and 6 Each .01, .02, .05, .1. All 600-Volt top quality paper tubulars. **\$2.39**

No. 15A389. Your Cost... **\$2.39**

Resistors AT PRICES YOU CAN STOCK UP FOR YEARS TO COME!

FERRULE TYPE



Ohms	Watt	Cat. No.
125	3 Watt	18A76
	$\frac{1}{4} \times 2$	
	10 Watt	
125	$\frac{1}{2} \times 3 \frac{1}{2}$ "	18A77
1600	$\frac{1}{2} \times 3 \frac{1}{2}$ "	18A78
3000	$\frac{1}{2} \times 3$ "	18A576
3150	$\frac{1}{2} \times 3$ "	18A79
7.5	$\frac{1}{2} \times 3 \frac{1}{2}$ "	18A80
15	$\frac{1}{2} \times 3 \frac{1}{2}$ "	18A81
16000	$\frac{1}{2} \times 3 \frac{1}{2}$ "	18A85
	25 Watt	
315	$\frac{1}{4} \times 4 \frac{1}{2}$ "	18A571
400	$\frac{1}{4} \times 4 \frac{1}{2}$ "	18A572
400	$\frac{1}{4} \times 5 \frac{1}{2}$ "	18A86
6000	$\frac{1}{4} \times 5 \frac{1}{2}$ "	18A573
8000	$\frac{1}{4} \times 4 \frac{1}{2}$ "	18A88
10,000	$\frac{1}{4} \times 5 \frac{1}{2}$ "	18A574
	100 Watt	
800	$1 \frac{1}{2} \times 7 \frac{1}{2}$ "	18A577
2000	$1 \frac{1}{2} \times 7 \frac{1}{2}$ "	18A578

Choice, Each **10c**

Choice, Each **15c**

25c

BARGAIN Assortment Ferrule Resistors

Includes 10 Resistors from above or other size ferrule type. Ideal for experiments, etc. **No. 18A93. Per Asst. of 10. 79c**

CLIPS for Above Resistors or for Cartridge Fuses



No. 12A1324. For 9/16" dia. **CHOICE, EACH..... 4c**

TYPE 3AG FUSES



Class enclosed, 9/32" dia. x 1 1/4" long. Designed for use where there is considerable vibration such as in aircraft, etc. Being only 1/32" larger in dia. than the 3AG type, they can usually be used to replace the 3AG. **No. 18A778. 2-Amp. Choice, 3c**
No. 18A779. 3-Amp. Each..... 3c
No. 18A780. 5-Amp. Choice, 3c
No. 18A785. Asst. of above. Box of 100..... \$1.95

TYPE 3AG FUSES

No. 18A787. 2-Amp. EACH. 2c Box of 100... **95c**
20-Amp. 250-Volt FUSES
 250-Volt, standard cartridge fuses 2" long x 1/2" diameter, Chase-Shawmut No. 2008.
No. 18A177. Per Box of 10... 50c

HIGH VOLTAGE FUSE



1 1/2-Amp. 2500-Volt. Fibre enclosed with brass end caps 13/32" diameter x 4 1/2" long. **No. 18A777. Special, Each... 10c**

FUSE CLIPS for ABOVE

No. 12A1322. Phosphor bronze N.P. clips for 1/4" dia. fuses such as 3AG, etc. EACH..... 1c
No. 12A1323. Beryllium copper clips for 13/32" dia. fuses such as high voltage, etc. EACH..... 3c

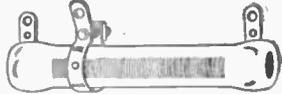
FUSE EXTRACTOR



Very Handy for Removing 3 or 4 AC Fuses. **No. 18A873. Special Each... 10c**



RESISTORS AT ONE-HALF OF REGULAR NET PRICE

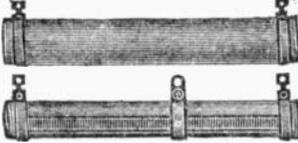


Adjustable Vitreous Enameled 25-50-100 WATT RATINGS

Not War Surplus... Shiningly New just as they come from GE stocks in a huge special purchase. Made by Ohmite for GE and comparable to the popular Ohmite "Dividohm". Vitreous enameled on porcelain cores with a narrow strip of the turns of wire exposed to form a contact surface for the embossed contact on the adjustable lug (one lug with each). May be adjusted to any value from zero to the maximum value of the unit. It also permits an adjustable tap for use in voltage divider circuits. **Every One Guaranteed Perfect — Brand New — Regular.**

100-WATT ADJUSTABLE				
Core: 6 1/2 x 3/4" Mtg. Centers 7 3/8"				
Value	Stock No.	List Price	Special	
25,000	18A1045	\$3.25	93c	
50,000	18A1046	3.50	99c	
50-WATT ADJUSTABLE				
Core: 4x9/16" Mtg. Centers 4 3/4"				
5,000	18A1037	\$1.95	58c	
10,000	18A1038	2.15	64c	
15,000	18A1039	2.15	64c	
20,000	18A1040	2.15	64c	
25,000	18A1041	2.15	74c	
30,000	18A1042	2.47	74c	
40,000	18A1043	2.47	74c	
25-WATT ADJUSTABLE				
5,000	18A1050	\$1.24	39c	
15,000	18A1051	1.43	43c	
20,000	18A1052	1.56	47c	

OTHER TOP MAKES



FIXED TYPE	
No. 18A789. 100,000 ohms, 100-watt. Size, 3/4x6 1/2".	45c
Special, Each.....	25c
No. 18A799. 4,000 ohms, 25-watt. Size, 3/4x2".	25c
Special, Each.....	19c
No. 18B596. 5,000 ohms, 20-watt. Size, 3/8x2".	19c
Special, Each.....	19c
No. 18A794. 100,000 ohms, 50-watt. Size, 3/4x4 1/2".	45c
Special, Each.....	45c
ADJUSTABLE TYPE	
No. 18A796. 75 ohms, 50-watt. Size, 3/4x4 1/2".	50c
Special, Each.....	50c

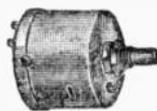
Fuse Extractor Posts



For 3 or 4 AG Fuses. Mounts on panels up to 1/8" thick, 1/8" mtg. hole, extends behind panel 1 1/4". Fuse easily replaced from front of panel by screw type finger grip knob. **18A788, Special Each..... 15c**
100 Lots, Each..... 12c

FOR 3AG FUSES otherwise as above **No. 15A1125. SPECIAL, EACH..... 10c**

30-OHM, 50-WATT Ohmite Power Rheostat



1.70 amps., metal encased wire wound aircraft type AN3155. Overall size, 2 1/2" dia. x 1 3/4" deep. Single hole mtg. extends 7/16". **No. 18A402. Special, Each... 95c**

FINEST GRADE INSULATED RESISTORS



Standard RMA Color Coded, well known quality brands. In ohms ONLY as listed.

1/2-WATT			
Ohms	Ohms	Ohms	Ohms
68	2,500	22,000	220,000
150	3,000	25,000	470,000
180	3,300	39,000	1.0 Meg.
560	10,000	50,000	2.2 Meg.
1,500	12,000	100,000	
2,200	15,000	150,000	

(When ordering specify ohmage)
No. 12A654X. 1/2-watt any size listed. 10 FOR..... 25c
Lots of 100. Each Value. ONLY..... \$2.00

1-WATT			
47	6,800	27,000	.12 Meg.
100	8,200	30,000	.15 Meg.
1,200	10,000	33,000	.25 Meg.
1,500	12,000	39,000	.51 Meg.
2,000	15,000	47,000	1.0 Meg.
2,200	20,000	56,000	1.8 Meg.
3,000	22,000	68,000	
3,300	24,000	.1 Meg.	
5,000	25,000	.11 Meg.	

(When ordering specify ohmage)
No. 12A655X. 1-watt any size listed. 10 FOR..... 35c
Lots of 100. Each Value. ONLY..... \$3.00

INSULATED RESISTOR ASSORTMENTS

Contains all most popular capacities. 100 assorted, 50 each 1/2 and 1-watt. **No. 18A74. Per Asst.... \$1.95**
200 assorted, 100 1/2-watt, 75 1-watt, 25 2-watt. No. 18A75. Per Asst.... \$2.25
200 assorted, 100 1/2-watt, 75 1-watt, 25 2-watt. No. 18A786. Per Asst.... \$3.95
FREE — Handy Color Code Chart with each of the assortments listed.

PRECISION Wire Wound Resistors



Accurate within 1%. Shallcross AKKA-Resistors. OHM Type 190, 1 watt wound on ceramic, size 1/2x1" with tinned wire leads. **CHOICE EACH 35c**

PRECISION RESISTOR ASSORTMENT

10 ASSORTED IRC and Shallcross wire wound precision resistors, accurate within 2%. A variety of values. Any one resistor is usually priced what we ask for the TEN. **No. 17A379. Per Asst.... \$1.95**

Fuse & Resistor Mtgs.



(A) 3AG FUSE HOLDER
 For two type 3AG fuses. Bakelite base. **No. 18A887. SPECIAL, EACH... 10c**
 (B) FUSE and RESISTOR MTG.
 No. 18A94. Black bakelite base, 3 3/8"x1 1/4", height 1 1/4", with beryllium copper clips for 1/8" dia. x 2 1/2" long fuses or ferrule resistors. Ea. **10c**

10 WATT Wire Wound Resistors

Well known quality makes with wire leads and lugs.



Ohms	Stk. No.	Ohms	Stk. No.
15	18A102	1,200	12A579
25	15A1133	1,500	12A580
50	15A1134	2,000	15A1140
100	15A1135	5,000	15A581
150	15A1136	7,500	12A582
200	15A1137	10,000	15A1142
250	12A577	12,000	12A583
500	15A1138	15,000	18A217
1,000	12A578	25,000	15A1145

CHOICE, EACH..... 15c

WIRE WOUND Resistor Assortment

10 Watt resistors handy for service and other needs. All quality makes in good usable values. **18A801. Assortment of TEN..... 95c**

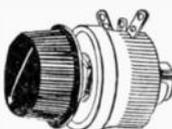
50 Ohm 3 Watt Carbon Resistor



Size, 3/8x2". With tinned wire leads. **No. 18A800. Special, Each..... 5c**



POWER RHEOSTATS



at 1/2 of REGULAR NET PRICES

A permanently smooth, close control. Made of all ceramic and metal with insulated shaft. Winding form and mounting are fused together with vitreous enamel and fired at high temperature. **The finest you can Buy and LOOK What You Save.**

25-Watt. Rotation 295° ± 5%
 Resistance Tolerance ± 10%

Res. Ohms	Stk. No.	List Price	Special, Each
25	18A1047	\$5.20	\$1.56
500	18A1048	5.20	

 50-Watt. Rotation 300° ± 5%
 Resistance Tolerance ± 10%

10,000	18A1049	\$6.50	\$1.95
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OHMITE "J" 50-WATT

75 Ohm Rheostat. All porcelain, Vitreous enameled. Shaft 1/4" long 3/16" dia. A \$5.85 List Value. **No. 18B663. Special, Each 50c**
Lots of 10. Each..... 45c

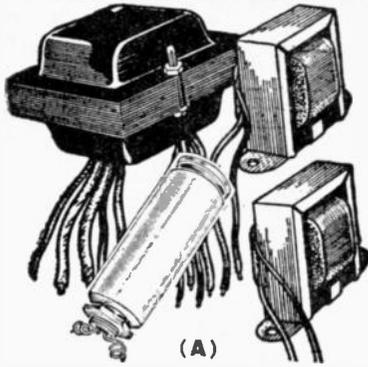


25 Watt Power Rheostat

IRC 5 OHM. An all-metal unit with die cast aluminum case. Heat is uniformly distributed throughout the element, regardless of percentage of element actually used. Dissipates heat rapidly. Screwdriver type adjustment. Single hole mtg. for panels up to 7/16" thick. List Price Value \$4.50. **No. 18A773. Lots of 10. Each..... 45c**



B-A's SUPER VALUES in POWER SUPPLY KITS



(A)

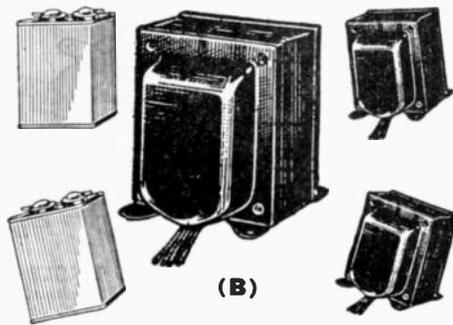
B-A'S MATCHED POWER SUPPLY KITS

Here in kit form are the BEST values in power supply components. Each part carefully selected and chosen to give the best possible performance, resulting in a kit supplying well filtered DC output suitable for receivers, testers, oscillators, pre-selectors, monitors, amplifiers, transmitters and hundreds of other applications requiring a well filtered, high voltage DC supply in conjunction with filament voltages.

(A) 275-VOLT DC 80 MA KIT

Complete Kit consisting of the following: 1 Transformer, Pri., 110-volt, 60-cycle, Plate Sec. 630-volt C.T., 80 MA. Rectifier filament 5-volt @ 2-amp. Also has Sec. 6.3-volt @ 2.3-amp. Size, 3 3/8 x 2 3/4 x 3 3/8" high. 2 Filter Chokes, 80 MA, 10 Hy. 240 ohms. Res. 1 Filter Condenser, two sections with 8 mfd. capacity, each section in metal can. Shipping weight, 8 lbs.

No. 4A78. Your Cost Per Kit as Described. **\$3.45**



(B)

(A) 300-VOLT DC 90 MA KIT

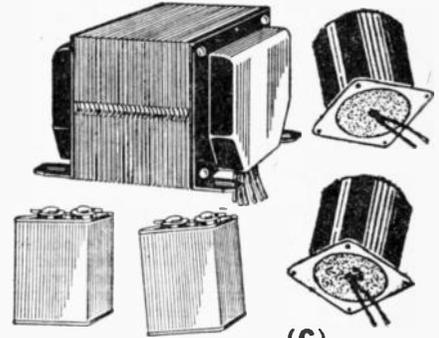
Complete Kit consisting of the following: 1 Transformer, Pri., 110-volt, 60-cycle. Plate Sec. 650-volt C.T., 90 MA. Rectifier filament 5-volt @ 2-amp. Also has Sec. 6.3 @ 3.5-amp. Size, 3 3/16 x 2 7/8 x 3 1/4" high. 2 Filter Chokes, 100 MA, 8 Hy. 1 Filter Condenser, two sections with 8 mfd. capacity, each section in metal can. Shipping weight, 6 lbs.

No. 4A77. Your Cost Per Kit as Described. **\$3.95**

(B) 350-VOLT DC 185 MA KIT

Complete Kit consisting of the following: 1 Transformer, Pri., 110-volt, 60-cycle. Plate Sec. 750-volt C.T., 185 MA. Rectifier filament 5-volt @ 3-amp C.T. Also has Sec. 6.3-volt @ 5-amp. Size, 4 3/4 x 3 3/4 x 4" high. 2 Filter Chokes, 270 MA, 4 Hy. 2 Filter Condensers, 4 mfd. 600-volt oil filled in hermetically sealed rectangular can. Shipping weight, 18 lbs.

No. 4A76. Your Cost Per Kit as Described. **\$7.45**



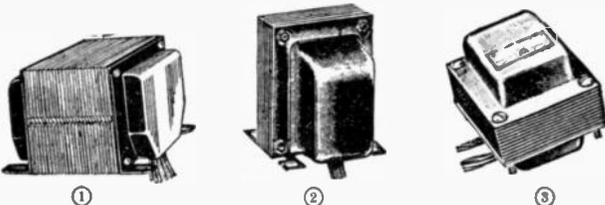
(C)

(C) 450-VOLT DC 270 MA KIT

A real heavy duty power supply kit large enough for almost any class of service. Kit consists of: 1 Power Transformer, weight, 16 lbs. with a core stack almost 4" thick, overall size 4 1/2 x 6 x 3 7/8". Primary 110-volt 60-cycle. Plate Sec. 900-volt C.T. @ 270 MA. Filaments: 5-volt @ 6-amp, 6.3-volt @ 3-amp, 6.3-volt @ 3-amp and 6.3-volt @ 10-amp. A real heavy duty transformer. 2 Filter Chokes, 300 MA, 4.2 Hy., 78 ohms, 2500-volt breakdown. Fully enclosed round metal case 4 1/2" high x 3 3/4" diameter, base 4" square with 4 screw holes for easy mounting. Weight, 9 lbs. each. 2 Filter Condensers, 4 mfd., 600-volt oil filled in hermetically sealed rectangular can. Shipping weight, 32 lbs.

No. 4A79. Your Cost Per Kit as Described. **\$9.95**

"WHOPPING" BARGAINS IN POWER TRANSFORMERS



Priced as Low as Less than One-Half of Regular, made possible by a huge B-A Special Purchase from a manufacturer who quit radio sets and amplifiers and turned to television. He wanted the space, the money—B-A had both! Top quality, Brand New, regular in every detail except the price. Buy Now! It isn't always such values in really good transformers are available.

① 270 MA—850-VOLT C.T.

Has Four Filament Windings
A Real Husky Transformer; core stack measures almost 4" long. Fully enclosed vertical mounting. Primary 115-volt, 60-cycle, 850 volts C.T. at 270 MA. Filaments: 6.3-volt @ 3-amp, 6.3-volt @ 3-amp, 6.3-volt @ 10-amp and 5-volt @ 6-amp. Overall size, 4 1/2 x 6 x 3 7/8". Shipping weight, 19 lbs. No. 3B35.

SPECIAL, EACH. **\$4.97**

① 270 MA—900-VOLT C.T.

Has Five Filament Windings
Has a 2 1/2-volt @ 10-amp winding in addition to the 4 windings listed in transformer above. Otherwise identical to transformer above. 900-volt C.T. at 270 MA. Overall size, 4 1/2 x 6 x 3 7/8". Shipping weight, 19 lbs. No. 4A73.

SPECIAL, EACH. **\$5.47**

② 190 MA—780-VOLT C.T.

Fully enclosed, upright mounting. Primary 115-volt, 60-cycle. 780 volts C.T. at 190 MA. Filaments: 5-volt C.T. @ 3 amp, 6.3-volt @ 5 amp. Size overall, 4 3/4" high, 3 3/4" wide x 4". Shipping weight, 8 1/2 lbs. No. 3A141.

SPECIAL, EACH. **\$3.47**

② 200 MA—780-VOLT C.T.

Otherwise identical to No. 3A141 at left below. Size, 4 3/4" high x 3 3/4" wide x 4 1/2". Shipping weight, 9 lbs. No. 3A143.

SPECIAL, EACH. **\$3.77**

③ 190 MA—780-VOLT C.T.

High voltage plus 6.3-volt @ 5 amp and 5-volt @ 3-amp filament. Pri. 115-volt 60-cycle AC. Double half-shell construction fully shielded with coded wire leads. Size overall, 4 1/4 x 4 1/2 x 3 3/4". Shipping weight, 9 lbs. No. 3A142.

SPECIAL, EACH. **\$3.19**

③ 80 MA—630-VOLT C.T.

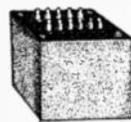
315-volt each side center @ 80 MA. 5-volt rectifier winding at 2 amps. 6.3-volt filament at 2.3-amp. Pri. 115-volt 60-cycle AC. Double half-shell construction fully shielded with coded wire leads. Size, 3 3/8 x 2 3/4 x 3 3/8" high. Shipping weight, 4 1/2 lbs. No. 19B709.

SPECIAL, EACH. **\$1.88**

No. 19B714. Primary 115-volt and 220-volt universal, otherwise as 19B709 above.

SPECIAL, EACH. **\$1.98**

BUY WITH CONFIDENCE . . . The B-A reputation for honest, dependable and friendly dealings protect your every purchase.



ADC 75-WATT MODULATION TRANS.

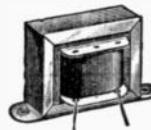
Pri. for a pair of 807's operating Class "B". Sec. for 3500-ohm load with current of 200 MA DC through winding. Exactly right for amplitude modulating a command transmitter or similar gear. In black wrinkle enameled steel case, fully potted lug terminals. Size, 4 1/8 x 3 1/2 x 5 1/8" high. Weight, 9 1/2 lbs.

No. 3A139. SPECIAL, EACH. **\$3.96**

ADC MULTIPLE FILAMENT TRANSFORMER

Sec. No. 1, 6.3-volt at 12-amp; sec. No. 2, 5-volt at 2-amp; sec. No. 3, 5-volt at 2-amp. Primary 115-volt 60 cycles. In black wrinkle enameled steel case, fully potted. Lug terminals. Size, 4 1/8 x 3 1/2 x 5 1/8" high. Weight, 9 lbs. No. 3A140.

SPECIAL, EACH. **\$2.49**



PUSH-PULL 6V6 OUTPUT TRANSFORMER

3.3-ohm secondary. Overall size, 2 1/4 x 1 7/8 x 1 1/2". Mounting centers, 2 7/8". Weight, 1 lb. No. 19B724. Special, Each. **\$5.9c**



4.2 HENRY 300 MA FILTER CHOKE

DC resistance 78 ohms, 2500 volts breakdown. Fully enclosed round metal case, 4 1/2" high x 3 3/4" diameter, base 4" square with 4 screw holes for easy mounting. Insulated wire leads. A Top Quality Choke Built by a Leading Maker. Weight, 9 lbs. No. 3A135. Special, Each. **\$2.45**

2 MFD.—4000-VOLT OIL FILLED CONDENSERS

Top make and quality. Size 4 1/2 x 3 3/4 x 5 1/4" can size, with ceramic pillar terminals 1 3/4" high. Weight, 5 1/2 lbs. No. 4A59. Each. **\$3.95**
10 Lots. Each. **\$3.85**

2 MFD. 2500-VOLT OIL FILLED CONDENSER

Well known brand. Ceramic pillar terminals, in hermetically sealed metal case. Size overall, 1 3/4 x 3 3/4 x 5 1/2" high. Comes with handy removable mounting bracket and solder lug terminals. No. 21T3990. Special, Each. **\$2.95**

10 Mfd. 600-Volt DC Wkg. Oil Filled Condenser

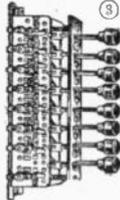
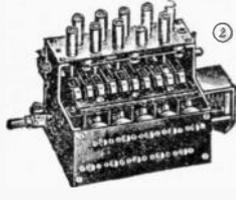
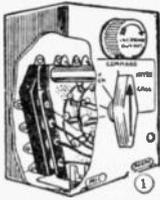
45 x 3 1/2 x 1 1/8" hermetically sealed can with flat lug terminals. What a BUY! No. 18A111. **95c AT ONLY**

.5 MFD. 1000-VOLT DC GE PYRANOL CONDENSER

Compact hermetically sealed drawn metal case, overall size 3 1/4" high, 1 3/16" wide x 9/16" thick. Mounting bracket attached. A Whale of a Bargain! No. 18B609. Each. **49c**
Lots of 10. Each **45c**

Relays and Switching Units at Crazy Low Prices

SWITCH ASSEMBLIES and PUSH-BUTTON UNITS



① INTERPHONE SWITCHING ASSEMBLY

Consist of 5-position selector switch (4 positive and 1 spring return) operated with bar type pointer knob. Included in assembly is a 10,000 ohm control with knob; one 1K33A mike jack, one JK34A phone jack, an 11-point terminal block and receptacle of standard banana plugs and jacks. Entire assembly in a handy cast aluminum box, size $4\frac{3}{8} \times 3\frac{1}{4} \times 2\frac{1}{8}$ ". Has many applications for switch control in intercoms and PA. Easy to rewire for individual needs or to dismantle for parts, which are a tremendous bargain at the price we ask for the complete unit.
Stock No. 21T3984. SPECIAL, EACH, ALL BRAND NEW..... 59c
21T3984A. As above except without back cover and 11-point terminal block receptacle for banana plugs. All other parts as above.
All Brand New. SPECIAL, EACH..... 29c

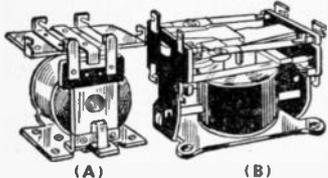
② PUSH-BUTTON TUNING UNIT

Consists of Ten $7/16$ " dia. Chrome-plated push buttons that extend $1/4$ " from plate. Each button DPST positive action and automatic release. Assembly includes: Ten adjustable 100 mmf air padders, a 50 mmf variable automatically cam-adjusted or set manually by rotating external shaft, and an adjustable 25 mmf air padder. Mounting drilled for 6-32 and 8-32 screws. Condensers are easily removed; parts value of this unit is many times greater than our low price! Size $6 \times 8 \times 1\frac{1}{2}$ ".
Stock No. 3B74. ALL BRAND NEW. Special, Each..... \$2.45

③ PUSH-BUTTON SELECTOR SWITCH

An eight-button switch designed for push-button tuning and numerous other switching applications. Has seven two-circuit sections which are all bridged together when all buttons are out (normal). Operating any one button releases all others to normal and inserts into the circuit the coils, resistors or whatever is being switched. The eighth button operates a SPST and a SPDT switch. Contacts can be easily modified and shunting sections removed for other circuit combinations. With removable walnut bakelite buttons. Size overall $6\frac{3}{8}$ " long, $1\frac{5}{8}$ " deep behind panel, $1\frac{1}{4}$ " thick. BRAND NEW.
Stock No. 17A344. SPECIAL, EACH..... 65c **LOTS OF 10, EACH..... 50c**

24 VOLT G.E. RELAYS



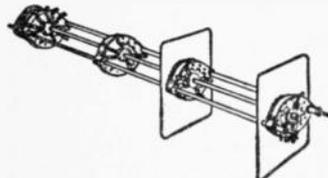
(A) S.P.S.T. Normally open double break Midget relay. Positive noiseless operation. Coil resistance 175 ohms. Has $3/16$ " silver contacts. Size $1\frac{3}{4}$ " high, $1\frac{1}{2}$ " wide, $1/4$ " deep. Has four 6-32 tapped holes for mtg. G. E. No. CR2791-B100A3.

No. 17B660. SPECIAL, EACH..... 59c **LOTS OF 10, EACH 49c**

(B) 4 poles single throw normally open. Will handle up to 10 amperes non-inductive load. Coil voltage 24 V. DC. Resistance 300 ohm. Size $1\frac{1}{2} \times 1\frac{3}{4} \times 2\frac{1}{2}$ " long. Made by G. E. No. CR2791C100.

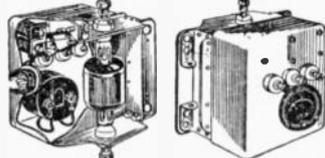
No. 17B656. SPECIAL, EACH..... 69c **LOTS OF 10, EACH 59c**

CERAMIC GANG SWITCH



8 circuits, 2 positions, 4 sections. The two center sections are 2 cir., 2 pos. Front section is 3 cir., 2 pos. Rear section is 1 cir., 2 pos. The two rear sections are individually shielded. Overall length 10". Can be easily disassembled and converted to a variety of combinations.
No. 17A428. SPECIAL, EACH..... 50c **10 Lots, Each... 40c**

ANTENNA RELAY UNIT



Contains: 0-10 G.E. meter with 19.5 millivolt movement, a 50 mmf., 5000 volt vacuum condenser, and a SPDT antenna switching relay with 28-volt winding all wired in an aluminum box. No. 3A114.

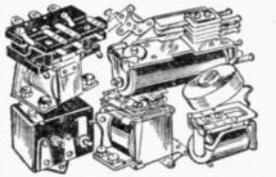
SPECIAL, EACH..... \$2.95

LEACH 6-VOLT DC RELAY

D.P.S.T. normally closed, plus S.P.S.T. normally open. 16-ohm coil for 6-volt DC operation. Has $4 \times 4 \times 1\frac{1}{4}$ " bakelite base. Leach type 1252-567.

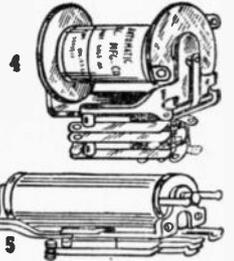
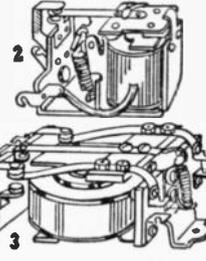
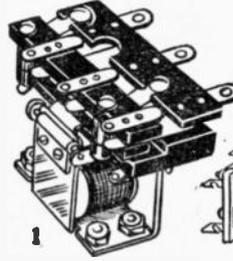
No. 18A1112. A Buy. Each... 99c

AN OUTSTANDING VALUE IN RELAYS and RELAY PARTS



An assortment that provides unlimited experimental fun. Consists of 5 various relays, an extra relay coil and extra contact points. ALL BRAND NEW.
No. 15A2036. Per Asst., ONLY... \$1.95

RIDICULOUSLY LOW PRICES on RELAYS



① 3-POLE SINGLE THROW

Coil resistance 200 ohms. Operates on 100 to 150 MA at 20 to 30 volts DC. Contacts will safely handle 10 amps. at 110 volts AC. All bakelite insulation. Overall size $2 \times 2 \times 2$ ".
No. 17A355. Special, Each..... 79c **LOTS OF 10, EACH 65c**

② S.P.D.T. MINIATURE

Coil 115 volts AC. Overall size $1\frac{1}{4} \times 1\frac{3}{4} \times 1$ ". Single screw mounting. Brand New.
No. 17A351. SPECIAL, EACH 95c

③ 24-VOLT DC D.P.D.T.

ANTENNA RELAY. Operates on 24-volt DC or in series with bias supply bleeder or tube cathode circuits. Coil resistance approx. 250 ohms. Operating current approx. 90 MA. Has additional SPST contacts, normally open. Very neat with ceramic insulation throughout and $1/4$ " silver contacts. Size $3 \times 1\frac{1}{2} \times 1\frac{5}{8}$ " wide. Made by Advance Elec. or Leach Relay Co. Brand New.
No. 18A988. A Real Value. Each..... \$1.65

④ SENSITIVE RELAYS

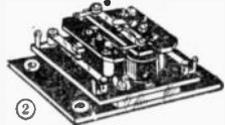
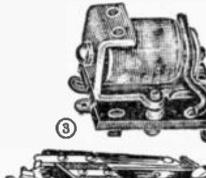
4.5 MA. Contact arrangement in normal position, make one, break one. 6500 ohm coil. Can be used as single SPDT. Size $1\frac{1}{2} \times 1\frac{1}{2} \times 1$ ".
No. 17A377. Special, Each..... 95c **LOTS OF 10, EACH 85c**
2 MA. S.P.S.T., 6500 ohm coil, size overall $1\frac{3}{8} \times 1\frac{3}{16} \times 1$ ".
No. 19A27. Each..... 95c **LOTS OF 10, EACH 85c**

⑤ 24-VOLT AC RELAY

S.P.S.T. & S.P.D.T. int. Can also be used on 6 V. DC continuous duty. Size overall $1\frac{3}{8} \times 1\frac{3}{16} \times 1$ ".
No. 19A28. Each..... 85c **LOTS OF 10, EACH 75c**

⑥ SENSITIVE 6500 OHM

Telephone type, for vertical or horizontal mounting. Contact arrangement, SPDT plus SPST normally open. Operates nicely on any 24-volt DC source or in tube plate or Cathode circuits carrying current of 4 MA or more. Size $4 \times 1\frac{1}{4} \times 1\frac{3}{4}$ ". BRAND NEW.
No. 18A989. SPECIAL, EACH..... \$1.45



① **ADVANCE 60-VOLT DC D.P.S.T.** normally open 10 amp contacts. 1500 ohm coil. Normally operating on 40 MA, it is ideal for underload or remote control applications. Mounted on mica base, $3\frac{1}{4} \times 2\frac{1}{4}$ ", overall height $1\frac{3}{8}$ ".
No. 18A542. SPECIAL, EACH 95c

② **KEYING-BREAK-IN RELAY** Double coil type for operation on 12-volt DC or 6-volt DC with coils in parallel. Has 2 sets of heavy $1/4$ " silver contacts normally open and 2 sets of light duty contacts normally closed. Well insulated for high voltage. Beautifully constructed of black bakelite. Size $2\frac{5}{8} \times 3\frac{7}{8} \times 1\frac{3}{4}$ " high.
No. 18A957. SPECIAL, EACH..... \$1.49

③ **12-VOLT DC MIDGET** S.P.S.T. contacts, normally open. All ceramic insulation. Coil resistance 150 ohms. Operates on approx. 80 MA. Can be used in tube Cathode or power supply bleeder special control circuits. Made by Allied Control. Size $1\frac{1}{4} \times 1\frac{1}{8} \times 7/8$ ".
No. 18A990. SPECIAL, EACH..... 85c

④ **24-VOLT MIDGETS** S.P.D.T. By removing one screw, coil can be slipped out and easily rewound for other voltages. Size $1\frac{1}{4} \times 1\frac{1}{8} \times 7/8$ ".
No. 17A458. SPECIAL, EACH..... 95c
D.P.S.T. normally open, otherwise as above.
No. 18A953. SPECIAL, EACH..... \$1.25

④ **Leach Type 1127 110-V. AC D.P.D.T.,** ruggedly built with $3/16$ " silver contacts. All circuits insulated from metal frame. Quiet—will allow keying. Coil resistance 530 ohms. Overall size, $2\frac{9}{16} \times 1\frac{1}{2} \times 1\frac{3}{8}$ ".
No. 18B828. Special, Each \$1.39

④ **Leach Type 1024 24-V. DC 2-Pole Single Throw** normally open. Has 10 ampere contacts. Coil voltage 24-volt DC. Resistance 265 ohms. Easily rewound. Size, $1\frac{3}{8} \times 1\frac{1}{2} \times 2\frac{1}{2}$ " long.
No. 17B661. SPECIAL, EACH..... 49c

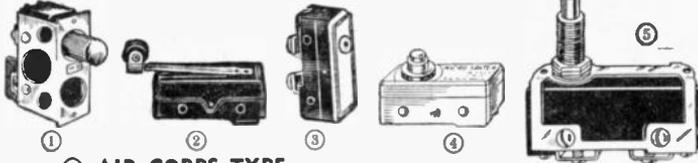
④ **ADVANCE 40-VOLT DC** Type 975-B-3B, 3-pole, center contact S.P.D.T., outer contacts ST. Normally open. 40 volts DC, 1000-ohm coil, 10-amp. at 115 volts contacts. Area required for mounting $2\frac{5}{8} \times 1\frac{7}{8}$ ". Ideal for many industrial applications.
No. 18A157. Special, Each... 95c

⑤ **KLIXON 24-VOLT CIRCUIT BREAKER.** Type PLM 90, will handle very high current. Screw terminals. Mounting centers, $2\frac{3}{8}$ ".
No. 18A197. SPECIAL, EACH..... 50c

⑥ **ULTRA SENSITIVE RELAY** S.P.D.T. contacts, 16,000-ohm coil. Fully adjustable. Mounted on $2\frac{5}{8}$ " square molded bakelite base. Screw terminals. Fine for plate circuits, photo cell applications and other uses where an exceptionally good relay is needed.
No. 17B233. Special, Each..... \$1.95

SWITCHES are always staple... You can go all out at these prices

MICRO SWITCHES for MOST ANY NEED



① AIR CORPS TYPE
Push-button type with bracket and mtg. holes. Rated at 25 amps., at 28.5 volts DC and 10 amps., at 125 volts AC.
Type WZ-RQ41, Norm. closed.
No. 18A991, Ea. **35c** 10 Lots **30c**

② LEAF TYPE
Roller pin plunger type, all rated at 16 A. at 125 volts—3 A. at 460 volts. Pressure to operate 5 to 6 ounces.
Type CUM-24155, S.P.S.T. norm. open.
No. 17A255, Special, Each **40c** Lots of 10, Each **35c**
No. 18A1027, As above leaf type, less roller.
Special, Each **40c** 10, Each **35c**

③ PIN PLUNGER TYPE
Type YZR31, S.P.S.T., norm. open. Operating pressure 7 to 8 1/2 oz.
No. 18A168, Special, Each **45c** Lots of 10, Each **35c**

④ Type BZR5, S.P.D.T., with lug terminals, otherwise as Fig. ③.
No. 18A994, **50c** Lots of 10, Each **40c**

⑤ 3/16" DIAMETER BUTTON PLUNGER TYPE
Type BZ3RDT, S.P.D.T., otherwise like above.
No. 18A1101, **50c** Lots of 10, Each **40c**

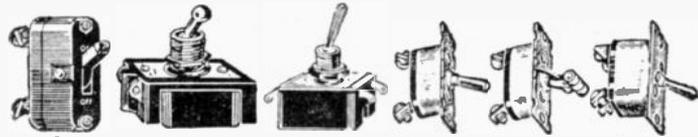
⑥ PUSH-BUTTON, PANEL MOUNTING
Type YZ-7RA6, S.P.S.T., norm. open switch mounted in metal bracket with 15/32" dia. shank 1 1/16" long for single hole panel mtg. Has M2, 1/4" dia. metal plunger. Screw terminals.
No. 18B225, **45c** Lots of 10, Each **40c**

Note: Z type Micro Switches as listed here possess highest sensitivity. White top indicates N.C.; Yellow, N. O., and Brown, the double throw.

ACRO MINIAC SWITCH

S.P.D.T., type 2MD3-1AX rated at 15 amps. 115-volt AC. Snap action, silver contacts. Bakelite case only 1 3/16x13/16x17/64" provides four 3/32" diameter mounting holes. Stacks in multiple.
No. 17B666, Special, Each **39c** 10 Lots, Each **35c** 100 Lots, Each **25c**

TOGGLE SWITCHES AT TERRIFIC BARGAINS!



① HEAVY DUTY—BAKELITE
6 amp., "KLIXON" all bakelite, off-on switch. Size overall 2x1x3/4". Mounts with 8-32 screws. Has screw type connecting lugs.
No. 17A354, SPECIAL, EACH **65c**

② G.E. SPST TOGGLE SWITCH
3-amp. 250-volt, 6-amp. 125-volt. Bakelite enclosed 1 1/4x1/2x1/2" with 15/32" dia. mounting sleeve 13/32" long. Nickel finished hardware complete with mounting nuts.
No. 15A1157, Special, Each **20c** 10 Lots, Each **18c** 100 Lots, Each **16c**

③ C-H BAT HANDLE
D.P.S.T. 6 amps. at 125 volts; 3 amps. at 250 volts. Has 1/2" standard shank. Bakelite encased, compact, solder lug terminals.
No. 18A552, **35c** Lots of 10, Each **30c**

④ C-H HEAVY DUTY
OFF-ON. Rated at 5 amp., at 125 volts; 35 amp., at 24 volts. Has mtg. plate size 3/4x2 1/16".
No. 18A993, Special, Each **18c** Lots of 10, Each **15c**

⑤ C-H MOMENTARY TYPE
S.P.S.T. Normally on, in "OFF" position with lever held down, spring return to "ON" when released. Rated at 5 amp., at 125 volts; 35 amp., at 24 volts. Has 3/4x2 1/16" mounting plate with 1 13/16" mounting centers.
No. 18A27, Special, Each **15c** Lots of 10, Each **12c**

⑥ C-H D.P.D.T. SWITCHES
Rated at 20/30-amp. at 125 volts. Has mounting plate size 1 1/2x2 1/16" with 1 13/16" mounting centers.
No. 18A236, **75c** 10 Lots, Each **65c**

No. 17A797, D.P.D.T. with center off, otherwise as above. 10 Lots, Special, Each **85c** Each **75c**

S.P.D.T. PUSH SWITCH
Leaf type. Makes one—breaks one. Silver contacts, has 3/8" threaded shank. Size 2x3/4x5/8".
No. 15A1156, **29c** 10 Lots, Each **25c**

C-H PLUNGER TYPE SWITCH
Bakelite plunger type normally closed S.P.S.T. .75 amp. at 125-V. Mounts in 15/32" hole. Neck length 7/16". Smooth operating for door operated lights, etc. With mounting nuts.
No. 18A399, **15c** 10 Lots, Each **13c**

C-H POSITIVE ACTION PLUNGER SWITCH
High quality push type S.P.S.T. Circuits remain closed or open after metal plunger is actuated. Rating 3A, 125-volt. Has bakelite shell, solder terminals and standard 15/32" dia. shank for mounting in panels up to 5/8" thick.
No. 18A1067, **39c** 10 Lots, Each **39c** For **\$3.50**

BARGAINS in PUSH-BUTTON SWITCHES



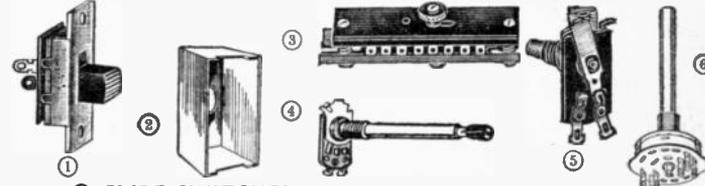
① C-H PLUNGER TYPE
Normally open. In "ON" position with pressure on plunger, in "OFF" position when plunger is released—the ideal safety switch for cabinets housing high voltages.
No. 17A257, **45c** 10 Lots, Each **40c**

② MOMENTARY D.P.S.T.
Normally closed. Finest quality make. Has bakelite push knob, mounts in panel up to 1/2" thick.
No. 18A874, **45c** 10 Lots, Each **40c**

③ CIRCUIT CLOSING SWITCH
S.P.S.T. Normally open. Leaf type construction with 3/32" flat silver contacts. Flush mtg. Size 3/4x2".
No. 17A276, **15c** Lots of 10, Each **12c**

④ SURFACE MTG. SWITCH
Momentary type, normally open. Ideal for surface mtg. on floor, panels, etc. Has metal cover with bakelite body and screw terminals. Ruggedly constructed. Size 1" dia. x 3/4" high. Mtg. centers 1 3/8".
No. 15A1128, Ea. **18c** Each **15c**

HANDY SLIDE and ROTARY SWITCHES



① SLIDE SWITCHES
Small compact switch for a multitude of uses. Solder lug terminals and screw holes for mounting.
Each 10 Lots
No. 17A438 S.P.S.T. **10c** 8c
No. 17B390 S.P.D.T. **12c** 10c
No. 17B403 D.P.S.T. **12c** 10c
No. 17A437 D.P.D.T. **14c** 12c

③ LOCKING SLIDE SWITCH
Completes 4 isolated circuits in each of TWO positions. Double break contacts. Thumbscrew locks it in either position. Has bakelite insulation throughout. A very high grade switch with many possible uses.
No. 17A273, **25c** 10 Lots, Each **20c**

② METAL SWITCH BOX
(Not illustrated.) Slip-on metal switch box that provides a protective cover for terminals. Has 3/8" dia. hole for leads. Fits all standard midget slide switches.
No. 17B678, SPECIAL, EACH **5c**

④ S.P.D.T. ROTARY SWITCH
With off position, shorting type. 2 3/4" split knurled shaft, 5/16" threaded shank.
No. 18A166, Ea. **18c** Each **15c**

SLIDE SWITCH WITH PLATE
S.P.S.T. Switch with plate marked on-off. Plate size, 2 1/2x7/8", 2 3/16" mounting center.
No. 17A358, **19c** Lots of 10, Each **15c**

⑤ WAFER TYPE
S.P.D.T. Compact, with 3/8" threaded shank 1/4" long plus 5/16" long 1/4" shaft.
No. 18A534, Ea. **10c** Each **8c**

⑥ D.P.D.T. ROTARY SWITCH
1 1/4x1" diameter with bushing for up to 3/8" panel. 1/4" shaft 1 1/2" long.
No. 17A798, **15c** 10 Lots, Special, Each **15c** Each **12c**

MISCELLANEOUS — POPULAR SWITCHES



① C-H TOGGLE SWITCH
S.P.S.T., ON-OFF. Has special handy finger lever and mounting plate, size 2 1/16x3/4". Mtg. centers 1 13/16". Rated 5 amp., at 125 volts.
No. 18A34, **25c** Lots of 10, Each **20c**

③ DOOR SWITCH
S.P.S.T. Norm. closed, spring return. Recommended for cabinets, closets, refrigerators, etc., where opening door turns on light or alarm. Small easily mounted. Has 20" wire leads. Rated at .75 amp., at 125 volts.
No. 17B258, **35c** Lots of 10, Each **31c**

② TOGGLE SWITCH with WIRE LEADS
S.P.S.T. enclosed in metal shell for surface mounting on panels or motors, etc. Has heavy lead wires.
No. 17A382, **12c** Lots of 10, Each **10c**

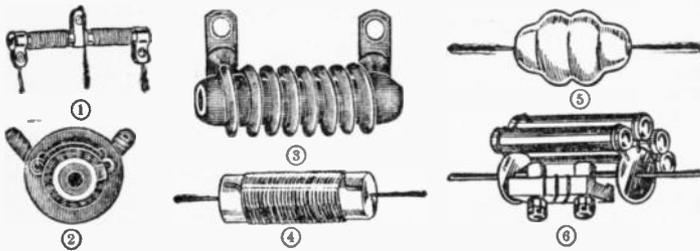
④ ROTARY SELECTOR SWITCH
Mallory 4-position, single circuit, 1 1/4" dia. Has 1/2" shaft 1/2" long.
No. 17A389, **15c** Lots of 10, Each **12c**

HERE'S A REAL BARGAIN in SWITCHES

10 ASSORTED FOR ONLY 95c
A handy assortment of Toggle, Push-button and slide switch types. All Brand New — Perfect. IF YOU USE SWITCHES AT ALL YOU SHOULD HAVE THIS ASSORTMENT!
No. 18A935, **10 ONLY 95c**
Per Asst. of

Take Time, Check every item FOR TERRIFIC VALUES

UHF CHOKES and PARASITIC SUPPRESSORS



CENTER TAPPED CHOKE

① 4.8 MH, .15 ohms D.C. Wound with 63 turns of No. 25 P E wire on steatite form 1 3/4 x 1/4". No. 18A562. SPECIAL, EACH... **20c**

1.5 MH—125 MA

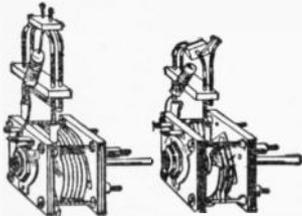
② 21 ohms wound on wood dowel fastened to 1" dia. bakelite plate, with solder lugs. Very compact. Size, 5/8" high, 1 1/8" dia. Thoroughly impregnated against moisture. No. 18A554. SPECIAL, EACH... **12c**

OHMITE PARASITIC

③ P300 Suppressor designed to prevent unwanted U.H.F. parasitic oscillations which occur in push-pull circuits. The parasitics are suppressed without loss of driving power. P300 is a non-inductive vitreous-enameled resistor combined with a choke, only 1 3/4" long x 5/8" diameter. No. 18A593. SPECIAL, EACH... **55c**

BUTTERFLY CONDENSERS

For VHF Only..... **29c**



A sturdy well designed condenser with low loss ceramic insulation and adjustable ball bearing rotor. Has three studs for easy panel or bracket mounting. 5/32" shaft extends 1 3/16 inches. There are provisions for direct mounting of circuit components resulting in minimum length of leads necessary for high efficiency and stability in VHF circuits.

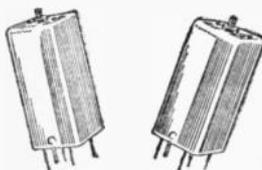
In addition there is a silver plated hair pin inductance with pickup loop and R.F. choke with each condenser. All brand new as removed from other equipment. Size 1 5/8" square, front to back 1 1/2".

Stock No. 18A1057. *Capacity 5 to 35 mmf. Inductance loop 2 1/4 x 1 1/4".

Stock No. 18A1058. *Capacity 3 to 12 mmf. Inductance loop 1 1/8 x 1 1/4".

*Measured in series. CHOICE, EACH..... **29c**

456 KC. I.F. COIL SETS



Midget I.F. Transformers. Size, 2 3/4 x 1 1/2". No. 18A383. PER PAIR..... **50c**

PARASITIC SUPPRESSORS

④ An ultra high frequency choke of 22 turns on a 1/4" dia. x 13/16" long ceramic form with axial wire leads. No. 17B658. SPECIAL, EACH..... **15c**

MIDGET R.F. CHOKE

⑤ 37 turns on 3/16" diameter x 1/2" long phenolic form. Axial wire leads. No. 18A393. SPECIAL, EACH..... **10c**

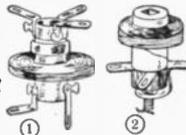
1 MA RF CHOKE

⑥ Midget size—only 7/16 x 3/4" long. Heavily wax coated with axial leads. Will handle 200 Ma. No. 17B659. SPECIAL, EACH... **15c**

HIGH FREQUENCY SUPPRESSOR

⑦ Carefully designed suppressor for 810's. Contains four 5% tolerance 10 ohm 1 watt resistors and a ceramic mounted inductance. A big value as a unit or for the parts. No. 17B684. SPECIAL, EACH..... **15c**

ANTENNA and OSCILLATOR COIL



① ANTENNA COIL

Unshielded, ideal for replacements, etc. For broadcast band with a 365 mmfd. tuning condenser.

No. 18A1001. 10 Lots. **15c** Each... **10c**

② MIDGET OSCILLATOR COIL

For 456KC I.F. Wound on ceramic form with single stud mounting. 5/8" diameter x 1" high. No. 17A398. Your Cost..... **39c**

FLEXIBLE CONDENSER COUPLINGS



All of the finest quality, well known makes with set screw. ALL ARE FOR 1/4" SHAFTS.

① Steatite 1 3/8" Diameter. No. 18A500. SPECIAL, EACH. **30c**

② Steatite 2 1/4" Diameter. No. 18A501. SPECIAL, EACH. **50c**

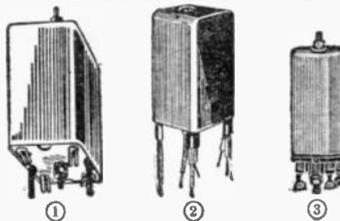
③ Canvas Bakelite 1 1/16" Diameter. No. 18A502. SPECIAL, EACH..... **25c**



1.7 to 30 MC at 150 MA R.F. CHOKE

Well known make choke of enameled silk covered wire impregnated with R.F. lacquer and wound on steatite core. Length, 1 1/2". No. 18A867. Special, Each.. **25c**

HIGH QUALITY I.F. TRANSFORMERS



456 KC IRON CORE

① Wound with litz wire, dual slug tuned. In aluminum can 1 3/8" square, 2 1/2" high. Has 4 solder terminals and spade mounting lugs. Will operate as I.F. input or output. No. 18A580. **49c** Lots of 10. Each **39c** Special, Each

456 KC I.F.'S

② Universal input or output type. All ceramic insulated, with dual mica trimmers. Mounted in aluminum can 1 1/4" square, 2 1/2" high. No. 17A412. Special, Each... **39c**

456 KC, SLUG TUNED

③ Has screwdriver slot adjustments top and bottom. Quality built throughout, low-loss polystyrene bottom with 4 solder lugs. Can size 2 1/2" high x 1 1/8" square, with spade 6/32 x 3/8" mounting studs. Ideal for replacement or experimental use as it can be easily rewound for higher frequencies. No. 17A343. 10 Lots. **50c** Each... **40c** Special, Each

456 KC MIDGET I.F.

④ Only 1 1/8" high x 3/4" square. Universal input or output. Ideal for Midget sets. No. 16A717. EACH..... **49c**

MICA TUNED MIDGET

⑤ 456 KC Iron Core. 1 7/8" high, 1 3/16" square, with wire leads at bottom. Designed for output to diode load, but can be easily converted for any standard IF circuit. No. 18A846. Per Set of Two... **65c**

FINEST QUALITY, Mica Condensers at RIDICULOUS PRICES

.00025 m f d. 2500 test volts.	35c
18A614.....	
.02 mfd. 2500 test volts.	85c
18A118.....	
.005 mfd. 5000 test volts.	65c
18A121.....	
.01 mfd. 5000 test volts.	85c
18A615.....	
.001 mfd. 5000 test volts.	50c
18A870.....	
.002 mfd. 2500 test volts.	43c
15A46.....	
.0005 mfd. 2500 test volts.	35c
15A44.....	

TOP MAKE TUBES NEW... GUARANTEED Type 807

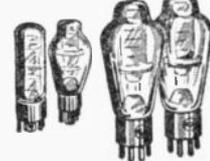
No. 20A668. Special, Each..... **\$1.19**

Type 872A

No. 37T1001. Special, Each..... **\$1.19**

Type VR150

No. 21T3980. Special, Each..... **49c**



\$19.75 VALUE.. **\$2.95**

R.F. GE TYPE DW52 AMMETER



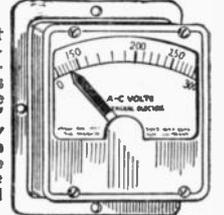
4 Amperes, 2% accuracy. EXPANDED scale. 2.19" diameter body. Has internal thermocouple G.E. type DW52. List Price, \$19.75. Every One Brand New! 20A840. **\$2.95** Lots of 10. Ea. **\$245** Spec. Ea.

HOYT DC AMMETER

Range 0-5 DC amperes. Magnetic-va instrument with accuracy of 5%. Movement is air damped. Standard 3" round flange type bakelite case for panel mounting in 2 3/4" hole. Limited quantity at this low price—order at once! No. 18A1028. Price, Each..... **\$1.19**

\$62.00 VALUE FOR ONLY..... \$16.95

GIANT AC VOLTMETER RANGE 0-300 VOLTS



Just the ticket for power panels, test benches, etc. Has non-glare scale approx. 5 1/2" long. Easily read from a distance. Made by G.E. Type AD-7, Model 8AD7VBD16. Accurate over frequency range of 25 to 125 cps. Internal resistance over 10,000 ohms. Case size overall, 6 1/2" wide, 7" high. Mounts in hole 5 1/2" wide, 6" high. List Price, \$62.00. No. 5B166. SPECIAL, EACH..... **\$16.95**

PRECISION VERNIER DIALS



2 3/4" Dia. Black etched calibrations and numerals on brushed aluminum backgrnd. Large flanged bakelite knob, brass bushed for 1/4" shaft. With micrometer indicator allows logging to one tenth of one dial division. No. 18A516, 0 to 100, over 180". SPECIAL EACH..... **65c**

No. 15A2037 (Less micrometer indicator) with Black etched calibrations 0 to 100, over 320" on brass chrome plated background. SPECIAL EACH..... **75c**

866A TUBES Brand New — NOT WAR SURPLUS. \$1.95 Value. No. 20A791. EACH..... \$1.29

EVERY ONE GUARANTEED!

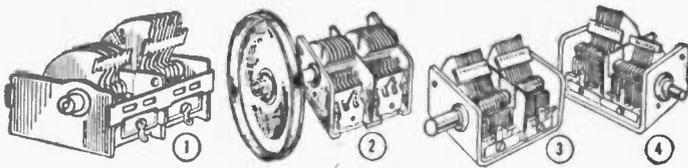
BC 459, ETC. SPARE TUBE KIT

Set of spares or replacements for BC 459A and similar units. Kit consists of 2 1625, 1 1626 and 1 1629. Brand New in individual boxes, quality brands —GUARANTEED.

No. 37T1021. Per Kit, 4 Tubes as Listed. ONLY..... **\$1.19**

CRAZY LOW PRICES on TOP - QUALITY! Variable Condensers

TWO-GANG BC BAND VARIABLES



① **COMPACT TUNING CONDENSER FOR SUPERHETS.** Cut plate type to be used with standard 456 KC oscillators and IF coils. Has trimmers, ball bearing rotor and $\frac{3}{8}$ " dia. shaft for drums or can be reduced to $\frac{1}{4}$ " with shaft coupling. Overall size $2\frac{3}{4} \times 2\frac{1}{4} \times 1\frac{3}{8}$ ". No. 17A350. **SPECIAL, EACH..... 49c**

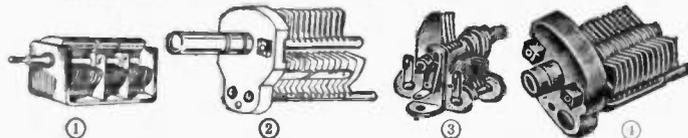
② **FOR TRF SETS, 365 mmfd per section.** Has ball bearing rotor and $\frac{1}{4}$ " dia. shaft with $\frac{1}{8}$ " dia. extension to take pointer. Size $1\frac{7}{8} \times 2\frac{1}{4} \times 1\frac{3}{8}$ ". No. 17A447. **SPECIAL, EACH..... 75c**

③ **CUT PLATE TYPE FOR SUPERHETS.** To be used with standard 456 KC oscillator and IF coils. Has trimmers, ball bearing rotor and $\frac{3}{8}$ " dia. splined shaft for drum or coupler. Supplied with universal mtg. bracket. Size $1\frac{7}{8} \times 2\frac{1}{4} \times 1\frac{3}{8}$ ". No. 17A451. **SPECIAL, EACH... 89c**

④ **SHAFT COUPLING.** To reduce above $\frac{3}{8}$ " shaft to $\frac{1}{4}$ " diameter. No. 12A1191. **EACH..... 14c**

⑤ **CUT PLATE TYPE** to be used with standard 456 KC oscillators and IF coils. Has trimmers, ball bearing rotor and $\frac{3}{8}$ " dia. splined shaft with $2\frac{1}{8}$ " dia. drum. Has 8-32 threaded holes for easy mounting. Condenser size $1\frac{7}{8} \times 2\frac{1}{4} \times 1\frac{3}{8}$ ". No. 17B197. **SPECIAL, EACH... 95c**

MIDGET VARIABLE CONDENSERS



① **VERNIER 3-GANG CONDENSER**
For superhets or TRF receivers. Has two 365 mmfd. sections, plus 220 mmfd. center section, all with trimmers and isolating shields. Shaft is $\frac{1}{4}$ " dia. with built-in 7 to 1 vernier operated thru $\frac{1}{8}$ " dia. shaft. All ball bearing construction. Size $1\frac{1}{2} \times 1\frac{3}{8}$ " wide, $2\frac{1}{2}$ " long. No. 17B444. **Special, Each \$1.49**

② **BUD TYPE MC1855**
Semi-Circular—Double Bearing, Steatite insulated 100 mmfd max., 7 min., air gap .024", 14 plates. Can be single hole or chassis mtd. Has $\frac{1}{4}$ " shaft $\frac{1}{2}$ " long, overall size of condenser behind panel $2 \times 1\frac{3}{4}$ ". No. 18A804. **Special, Each..... 65c**

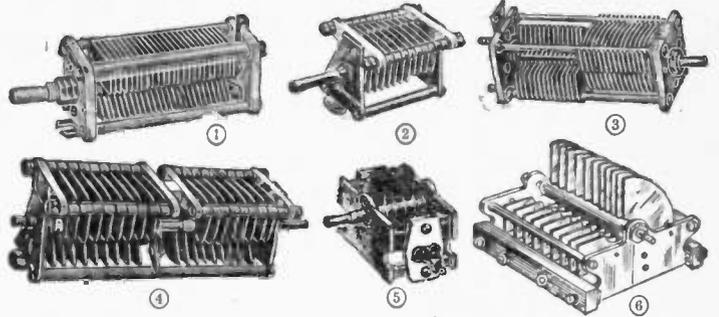
③ **APC SHAFT TYPE**
Ceramic insulated air padder condensers. Finest quality makes. Adaptable for wide variety of uses. All have $\frac{1}{4}$ " shafts.

Stock No.	Cap. MMFD	Shaft Length	Price Each
18A880.	140	1"	50c
18B92.	100	$\frac{7}{8}$ "	40c
17A182.	75	$\frac{1}{2}$ "	35c

④ **APC SCREWDRIVER SLOT**
Finest quality, well known brand, ceramic insulated air padder condensers adaptable for a wide variety of uses. Has screwdriver slot adjustment. (Mounts behind panel with 8-32 machine screws.)

Stock No.	Cap. MMFD	PRICE EACH
18A512.	100	35c
17A178.	75	25c
17A181.	20	10c

TRANSMITTING VARIABLE CONDENSERS



① **JOHNSON 250 MMFD**
Type M (250H15) 250 mmfd max., 11 min., .02" plates, compact yet very rugged. Panel space $1\frac{1}{2}$ " square x $3\frac{13}{32}$ " deep. $\frac{1}{4}$ " shaft, $1\frac{1}{8}$ " long. 51 plates .030 spacing. **REG. LIST PRICE, \$5.75.** No. 18A506. **SPECIAL, EACH 65c**

③ **DUAL 170 MMFD**
Split stator, silver plated plates .03" spacing. Ceramic end plates. Mtg. space $2 \times 2 \times 5\frac{1}{4}$ " overall length. Has $\frac{1}{4} \times \frac{3}{4}$ " long shaft. No. 18A508. **SPECIAL, EACH... 99c**

② **JOHNSON TYPE 250E20**
Capacity 244 max. 12 min. MMFD. 2000 volts. 23 plates. Stator plates can be removed to vary capacity and to increase voltage breakdown. .045" spacing. $\frac{1}{4}$ " shaft. Size $1\frac{1}{2} \times 1\frac{1}{8} \times 2\frac{3}{8}$ ". \$6.10 List Value. No. 17A397. **Special, Each... \$1.19**

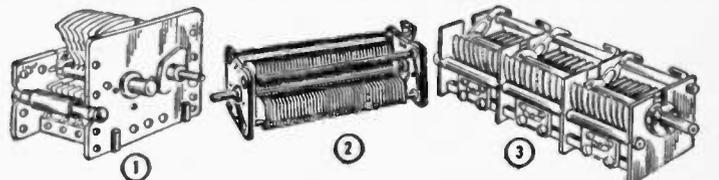
④ **JOHNSON DUAL 207 MMFD**
Type F (200FD20) Capacity 207 mmfd max., 13 mmfd min. each 33 plate section. .045" spacing — 2000-volt. Type F with the same features as Type E listed below. Panel space $2\frac{1}{8}$ " wide x $2\frac{1}{8}$ " high x 8" deep. **LIST PRICE, \$11.00.** No. 18A510. **Special, Each... \$1.95**

⑤ **26 MMFD VARIABLE**
26 mmfd maximum capacity, 8 mmfd min. Rated at 4000 volts test. All aluminum construction, with Isolantite insulation. $\frac{1}{4}$ " shaft, 1" long. Overall size, $1\frac{3}{4}$ " deep, $3\frac{1}{8}$ " wide, $1\frac{1}{8}$ " high with plates closed. No. 17A461. **Special, Each.... 95c**

⑥ **CARDWELL "MIDWAY"**
74 mmfd, 19 plates, air gap .070". Panel mtg. space $3\frac{1}{4}$ " deep x $2\frac{3}{4}$ " wide. $\frac{1}{4}$ " steel shaft; aluminum frame; brass bearings; plates buffed and rounded. Supplied with aluminum mounting feet. G.E. Mycalex insulation. **Less Than Half Price.** No. 18A853. **Special, Each... \$1.45**

⑦ **Type 150E30. 154 max. 14 min. MMFD. 3000 volts. 23 plates. .075" spacing, $\frac{1}{4}$ " shaft. Size $2\frac{3}{8} \times 2\frac{3}{8} \times 4\frac{1}{4}$ ". \$6.00 List Value. No. 14A673. **Special, Each... \$1.65****

⑧ **Type 70F30. 67 max. 11 min. MMFD. 3000 volts. 17 plates. .075" spacing, $\frac{1}{4}$ " shaft. Size $2\frac{1}{8} \times 2\frac{1}{8} \times 3\frac{1}{8}$ ". \$5.35 List Value. No. 14A675. **Special, Each... \$1.45****



① **SINGLE GANG 365 MMFD**
Ceramic insulated, precision built. Has $\frac{1}{4}$ " dia. x $3\frac{1}{4}$ " long shaft with 10 to 1 ratio, anti-back-lash tuning mechanism. Size $2\frac{3}{4}$ " high x $3\frac{1}{2}$ " wide x $1\frac{3}{4}$ " deep. No. 18A974. **Special, Each... \$1.45**

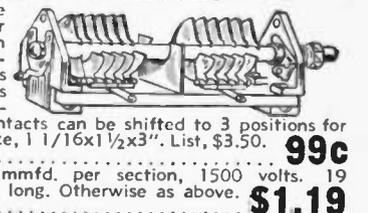
② **SINGLE GANG 440 MMFD**
Straight line capacity, silver plated plates .03 spacing. Ceramic end plates. mtg. space 2×2 ", overall length, $7\frac{1}{4}$ " shaft $\frac{1}{4}$ ". O.K. for many broadcast band circuits. No. 18A507. **Special, Each..... 79c**

③ **HAMMARLUND 3 GANG 236 MMFD PER SECTION**
Each section shielded. Isolantite insulation, enclosed precision bearings, $\frac{1}{4}$ " steel shaft. Panel mounting space $1\frac{7}{8}$ " high x $2\frac{5}{8}$ " wide x $6\frac{3}{4}$ " deep. No. 18A958. **SPECIAL, EACH... 95c**

"HFD" MICRO DUAL CAPACITORS

Hammarlund type HFD-15-X. Double spaced 15 max.-6 min. mmfd. per section 1500 volts. 11 plates per section .030" spacing. Screwdriver slot for tuning with shaft lock. Soldered brass plates cadmium plated. Aluminum end plates mounted on Isolantite base. Has isolating center shield. Silver plated rotor contacts can be shifted to 3 positions for shortest possible leads. Base mounting size, $1\frac{1}{16} \times 1\frac{1}{2} \times 3$ ". List, \$3.50. No. 14A680. **SPECIAL, EACH... 99c**

Type HFD-30-X. 28.5 max.-8 min. mmfd. per section, 1500 volts. 19 plates per section. .030 spacing. $3\frac{5}{8}$ " long. Otherwise as above. No. 14A681. **SPECIAL, EACH... \$1.19**



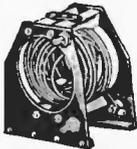
VERNIER 3-GANG CONDENSER

A precision made assembly that can be used for single dial control of receivers, frequency meters, VFO units or medium power transmitters up to 75 watts. Includes two single-spaced 250 mmfd. sections and a heavy, double-spaced 260 mmfd. section, all ceramic insulated, and a worm driven 50-to-1 ratio dial drive mechanism attached. Gears are spring loaded. Has shaft lock and 4" calibrated metal dial with transparent hair line indicator. Size overall, 7" long, $4\frac{3}{4}$ " high, $4\frac{3}{4}$ " deep. A "Honey" of a Unit, That Cost Many Times the Price We Ask! No. 5A168. Limited Quantity. **SPECIAL, EACH..... \$2.95**



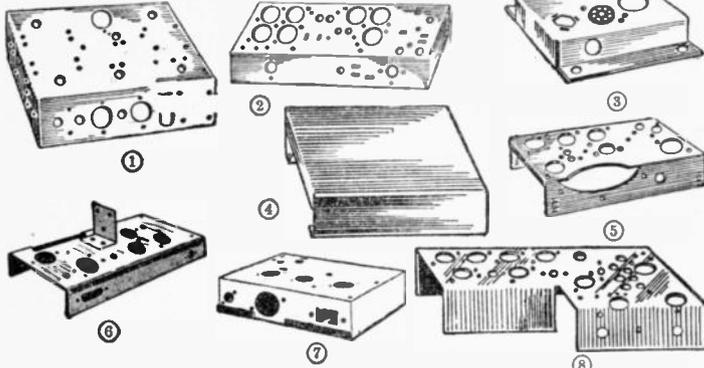
VARIOMETER

Variable inductance, range 2.5 to 7 microhenrys. Wound with size 10 silver plated solid copper wire. Has ceramic insulation, low loss linen base phenolic frame and ceramic shaft coupler. Continuously rotatable. Makes an unusually good variable tank coil or variable antenna inductance. Mounts flush against panel. Overall size $5 \times 4\frac{1}{2} \times 2\frac{7}{8}$ ". No. 3B2. **SPECIAL, EACH... 59c**



Terrific Values for THE BUILDER

BARGAINS IN PUNCHED CHASSIS



14x10 1/4 x 3 1/2"

① Heavy duty chassis. Extra heavy cad. plated steel. Ideal for heavy power supplies and equipment requiring extreme rigidity. Practically blank—the few holes in it are well placed. Corners are seam welded. Has 1/2" bottom lip.
No. 5A172. SPECIAL, EACH **\$1.45**

10 1/4 x 3 5/8 x 1 1/2"

② Already punched with 7 socket holes but can be used for any number desired. Well made. Has base mounting brackets.
No. 5A173. Special, Each... **35c**

9 3/4 x 4 x 1 1/2"

③ Extra heavy steel, well built, cadmium plated. Turned down on all sides for greater strength. Has 6 socket holes, IF mounts and holes for other circuit components.
No. 17B416. While they last... **49c**

CADMIUM PLATED STEEL CHASSIS

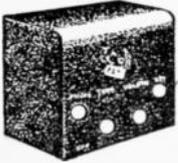
④ Ready punched with octal socket mounted for building pre-amplifier, oscillator, power supply, etc. Has six point terminal strip mounted inside. Chassis size, 5 1/4 x 3 1/8 x 1 1/4" deep. Has 5/8" mounting flange turned out along the base on each side. Ends are straight. A smooth, well made chassis for building up many types of apparatus.
No. 3A138. Special, Each... **25c**

DOUBLE CLIP BOARD



A Terrific Value made possible by a huge surplus purchase—Built to Army engineers specifications. Has numerous applications in any business or home. Sturdily constructed of 1/8" masonite with smooth durable finish. Overall size, 12 1/2 x 9". Can be separated into two complete clip boards.
No. 3A124. EACH... **\$1.45**

MIDGET CABINET AND CHASSIS



Steel, gray wrinkle finished. Chassis is punched for one tube. Cabinet front has four holes for controls, switches, etc. Originally designed for code practice oscillator. Cabinet size 4 5/8" wide, 3" deep, 4 1/2" high. Chassis fits inside cabinet and is 1 5/16" high.
No. 4A57. Cabinet and Chassis... **65c**
No. 4A58. Cabinet Only... **49c**

ALUMINUM BLANK CHASSIS

⑤ Made of bright new 20-gauge Aluminum. Turned down on sides with 3/8" bottom lip for added rigidity.
No. 3B30. 9 1/2 x 5 x 1 1/2". **59c**
Special, Each... **49c**

No. 3B40. 8 1/2 x 4 3/4 x 1 1/2". **49c**
Special, Each... **49c**

8 1/4 x 3 5/8 x 1 1/2"
⑥ Punched with 5 socket holes, speaker cut-out, etc. Fine for small sets and inter-coms.
No. 17B415. Special, Each... **29c**

5-TUBE CHASSIS

⑦ Made of heavy aluminum, size 8" long, 4" wide, 1 7/16" deep. Punched for five 1" sockets and other circuit components. With handy mtg. bracket. Ideal for building small receivers, amplifiers, etc.
No. 17A411. Special, Each... **35c**

STEEL CHASSIS BASE

⑧ Size 5x3x1 1/4" deep. Punched for miniature tubes. Ideal for phono amplifiers or battery type midgets. Has bottom plate.
No. 5A170. Special, Each... **20c**

8-TUBE STEEL CHASSIS

⑨ Just fit for the large Radio Tuners, amplifiers, etc. Punched for sockets, I.F. Coils, Volume Control, etc. Recessed at left for 6" or 8" speaker. Size 13x6x2".
No. 4A45. SPECIAL, EACH... **35c**

CABINET HARDWARE AT LOW PRICES

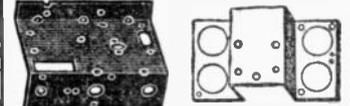


① Cabinet Lid Support. Bronze finish. No. 19B618. Each... **5c**
② Lock Type Lid Support. Bronze finish. No. 19B617. Each... **10c**
③ Snap Catch Set. Brass finish. No. 19B616. Per Set... **10c**
④ 1 1/4" Cabinet Hinge. Brass finish. No. 19B615. Each... **5c**

CABINET HARDWARE ASST.

10 Pieces Assorted from above and others.
19B1021. Special, Per Asst. **35c**

HANDY BRACKETS



18A104. Bracket. Size 2 1/2 x 4 1/2". Mtg. flange 3/4" wide. Front flange 1 1/2" wide. Handy for oscillators or mounting for various needs. CHOICE EACH... **10c**
18A105. Bracket. Size 2 1/2 x 4 1/2". Handy for many needs. Offset is 1 1/2 x 2 x 3/4" with extension 1 1/2" each side. Mounts as shown or reverse. CHOICE EACH... **10c**
10 Lots... **8c**

METAL AND BAKELITE CABINETS



BAKELITE CABINET

① Attractive grille design, natural brown bakelite, sturdy construction. Inside measurements 9 3/8" wide, 4 5/16" deep, 6 1/4" high. Dial opening 3 1/16" wide x 3 7/16" high. Ideal for replacements or new construction. **95c**
No. 4A50. A REAL VALUE.

METAL RADIO CABINET

② Trim, neat appearing, all heavy gauge metal construction with beautiful grey hammertone finish. Size 11 1/2" long, 6" deep x 7" high. Has metal grilled cut-out for 5" speaker. OK for radios, inter-coms, etc. **\$1.95**
No. 5B161. SPECIAL, EACH

BAKELITE CASE

③ Sturdy black bakelite, size 3" sq. x 2 1/8" deep. For 3" square meters, but also handy for countless other uses. Makes fine parts bins for the service or hobby bench. Buy plenty of them while available at this crazy low price. **19c**
No. 4A51. SPECIAL, EACH... **10 For... \$1.45**

BINDING POST



EBY ALL METAL POSTS

① Non-removable top, type 14CD Sergeant. Features 1/8" x 5/32" slot in which clamp moves up and down by turning cap. Provides vibration-proof contact for pin terminals or any type wire. Cap dia. 1/2", height open 7/8", closed 11/16". 8-32 stem 13/16" long. Tumble nickel finish. **10 Lots 8c**
No. 12A1375. Each... **10c**
As above except 1/2" long stem. **10 Lots 8c**
No. 19A1085. Each... **10c**

EBY BAKELITE INSULATED SPRING TYPE

② Non-removable bakelite top 7/16" dia. Has hole for phone tip and 6-32 stud 7/16" long. **10 Lots 4c**
No. 17A385. Each... **10c**
③ 7/16" dia. black bakelite top, pushes down on spring to provide hole for standard tip. Has 6-32 1/2" long stem. With marking that can be easily removed. **10 Lots 4c**
No. 18A855. Each... **5c**

NEEDLE CONTACT TYPE

④ Type 95V—Has needle contact for piercing cable without removing insulation. Cap dia. 5/8", height open 1 5/32", closed 13/16". Stem 12-24x 3/4" long. All brass nickel finish. No. 12A1376. **10 Lots 15c**
Each... **12c**

EBY ADMIRAL TYPE

⑤ Knob 5/8" dia. of molded bakelite, 17/32" high, base 23/32x1/4" thick with 8-32x3/4" stem. **10 Lots 10c**
No. 18A857. Each... **12c**

BINDING POST ASST.

25 Assorted from those above and others.
No. 18A1004. Per Asst... **95c**

DOUBLE BINDING POST

Has wire channel for making connection to screw terminals. Universal mtg., above or through chassis. Made of sturdy brown bakelite. **10 Lots 8c**
No. 18A849. Special, Each... **10c**

CABINET LID SUPPORT

Brass Finish. 19B988. Spec., Each **5c**

BARGAINS in ALUMINUM PANELS

.081-gauge 52-51/2 hard. Clean, easy to work and drill. Handy for many needs.

Size	STOCK No.	SPECIAL EACH
7x10"	4A52	40c
7x12"	4A53	45c
7x14"	4A54	55c

1/16" ALUMINUM PANELS Etched or Gray Wrinkle Finish

Size	Grey Wrinkle	Etched
7x10"	17A47	60c
8x14"	11A292	99c
	11A291	90c

BAKELITE PANEL BARGAINS

Top quality glossy black laminated bakelite. Handy for insulating parts, terminal strips, etc.

Stk. No.	Size	Each	10 Lots
14A683	6x 6x 1/8"	40c	35c
15A2033	6x 6x 1/8"	50c	45c
14A682	7x10x 1/8"	70c	65c
15A2034	7x10x 1/8"	85c	80c

RUBBER SHOCK MOUNTS

17A250. 1 3/4" square; 1/4" hole, rubber 1/2" thick each side of plate. **20c**

18A836. 2 3/8" square, .257" center hole, .196" corner holes on 1 15/16" centers. Has flat mounting surface at top 1 3/8" dia. with 1/2" thick rubber cushion. Cad. Plate... **15c**

HANDY CABINET WITH PARTS



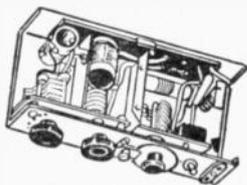
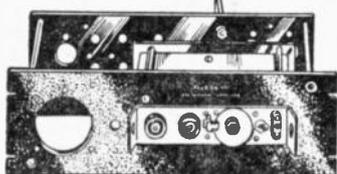
Ventilated, aluminum drawer cabinet and chassis, black crackle finish. Ideal for building audio amplifiers, power supplies, or any small electronic apparatus. Drawer feature makes all components easily accessible both above and below chassis. Contains: power trans., condensers, (mica and oil) resistors, sockets, etc., easily disassembled and worth more than the price we ask for complete assembly. Size 8 3/4 x 4 1/2 x 3 3/4".
No. 5A167. Special, Each. **95c**
While They Last...

ALUMINUM RODS

Handy for corner posts, mountings, etc. 3/8x1/2", tapped for 8-32 machine screws. 9 1/2" long.
No. 3A111. Special, Each... **15c**

Terrific Values! but Limited Quantities Hurry

25 TO 40 WATT EXCITER — 10 TO 80 METERS



FOUNDATION KIT

Engineered around the BC-610 series of plug-in tuning units. Described in the 11th edition Radio Handbook. Completed exciter uses 6AC7 crystal or electron coupled oscillator, 6L6 buffer-doubler and 807 amplifier. Kit includes four tuning units (illustrated at right above with cover removed), special 5 1/4" aluminum relay rack panel, socket for plug-in units and special hardware, together with full instructions and diagrams for assembling complete exciter.

No. 31A28. FU-40 Foundation. SPECIAL..... **\$9.95**

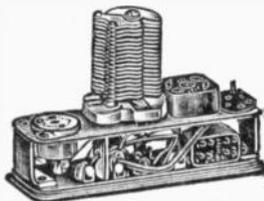
PARTS KIT. Everything needed to complete exciter except tubes and power supply. Includes all mica condensers, resistors, RF chokes, sockets, meter switch, 0-200 ma meter, key jack, and miscellaneous parts. **\$9.31**

No. 31A28A. Special Per Kit, Each..... **\$9.31**

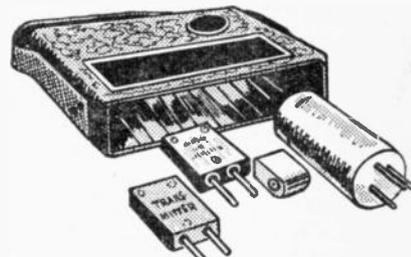
Exciter Assembly, Less Tuning Units. Consists of front relay rack panel, back panel, sub panel with coil sockets attached, 807-tube mounting bracket, spacer rods and hardware. (Illustration above shows the assembly with BC610 unit inserted.) **\$2.95**

No. 33B82. SPECIAL, EACH..... **\$2.95**

BARGAIN PARTS ASSEMBLY



(A)



(B)

(A) Consists of 140 mmf. midget variable, (alone worth what we ask for entire assembly), miniature 3 prong polystyrene coil socket, dual crystal socket, 10 contact terminal strip, resistors, etc., neatly assembled on metal chassis with fibre bottom plate 4" long, 1 1/4" wide x 1 1/8" high. Easy to disassemble for the parts or to convert to low power transmitter or receiver. See QST Jan. 1948 for article on Bantam 1-Watter, suggesting this unit as foundation. **29c**

No. 17B654. SPECIAL, EACH..... **10 For.. \$2.50**

COMPLETE with CRYSTALS and COILS

(A and B) Tuning unit BC746 is the Complete Assembly, the unit above PLUS TWO CRYSTALS in FT243 Holders, ONE in Ham Band, midget polystyrene coil form and RF Coil. The complete unit including wrinkle finish fibre cover measures 4" long x 2 3/4" high x 1 1/4" thick. **\$1.35**

No. 17A456. While They Last! Complete, Each..... **\$1.35**

AS ABOVE Crystal unit with crystals outside Ham bands. Can be ground down to 7 M.C. band. **65c**

No. 17A457. SPECIAL, EACH..... **65c**

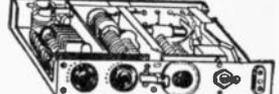
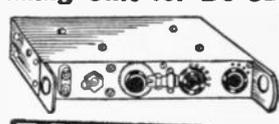
28 VOLT DYNAMOTOR



WEBSTER. Input 27.9 volts, amps 1.28; Output 224 volts, at .070 amps, 4400 R.P.M. continuous. Has mounting holes but no mtg. bracket, overall size, 5 1/4 x 2 1/4".

No. 3A42. Special, Each.. **\$1.95**

Tuning Unit for BC-610



A swell addition to any Ham collection. Contains 3 midget variable condensers. Slight changes convert it into basic unit for VFO or ECO. Tubes mounted externally provide crystal or VFO stage, buffer-doubler and final amp. stages. 6AC7, 6L6 and 807 used in final conversion to make 25-40 watt xmitter-exciter. Used in BC-610 and Hallicrafters HT-4. 9x6 1/4 x 2" D. (Tubes not included.)

No. 3A117. SPECIAL, EACH **\$2.59**

No. 3B133. Unit as above with damaged plug in terminal strip, otherwise Brand New. **\$1.25**

EACH..... **\$1.25**

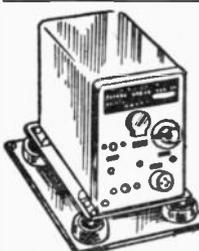
PARTS ASSEMBLY MICA CONDENSERS-RESISTORS



Contains 6 Sprague Mica Condensers 1000 V. Test 600 V. DC working, .01, .02, .05 and 1 .001 plus 6 1/2-W. resistors, 4 1 meg., 1 30 M and 1 150 M. All parts clean and new and easily removed from 3 1/8" x 4" terminal board. Worth several times the price. **59c**

No. 17B652. SPECIAL, EACH.. **59c**

CABINET TUBES RELAY and a NICE BUNCH OF PARTS ONLY



MARKER BEACON RECEIVER BC 1023A

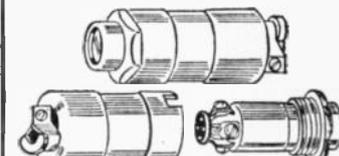
Consists of a shiny drawn Aluminum Cabinet, size 3 1/4" wide x 5 1/4" high x 5" deep. Has removable shock mounted base. Chassis with front panel attached slides out. Equipped with four Tubes, 6SQ7, 6U6CT, 6SC7 and 12SH7 plus sockets, resistors, condensers, chokes, coax connector, etc. Included also is an Ultra sensitive relay (SPDT contacts 16,000-ohm coil) fine for plate circuits, photo cells, etc. Brand New in original factory packing. **\$3.95**

No. 36A64. Complete..... **\$3.95**

CABINET AND PARTS ONLY

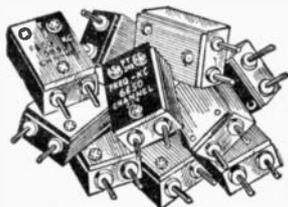
As above except less tubes and relay. No. 36A86. **\$1.65**

MOMENTARY PUSH-BUTTON SWITCH HAS MANY USES A GREAT VALUE!



Mounts to Cable end or on Panel, making it extremely versatile for photo flash units, mikes, etc. Contact arrangement S.P.S.T., normally open, or two isolated normally open circuits to a common point, all insulated from ground. Rating 3A, 110-volt AC. Top quality switch body with handy screw terminal connections screws into heavy molded bakelite shell, 1 1/8" dia. x 2 1/4" long; push-button of bakelite 1 1/16" dia., 5/16" deep. Shell has sturdy cable clamp making it a trouble-free hand switch and is also provided with mounting nut for panels up to 3/16" thick. Requires 7/8" hole. Made to government specifications SA-26U. Priced at a Fraction of Original Cost. Brand New. No. 18A408. **39c** Lots of **29c** Each..... **10. Each 29c**

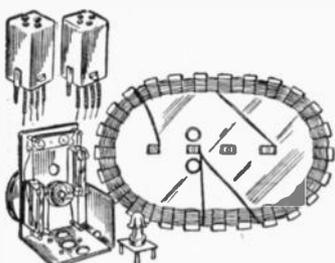
80, 75 and 40 Meter CRYSTALS, 10 for..... **\$3.95**



In FT 243 holders, cut from highest quality quartz accurately ground and acid etched. Frequency marked on each within 2 KC. Sorry we must sell them in assortments our pick of frequencies — But you can't go wrong! There are choice frequencies for 80, 75 and plenty for 40 meters or for doubling to 20 and 10 meters in each assortment. Every one guaranteed to be an active oscillator.

Stock No. 21T3991. Assortment of TEN. ONLY. **\$3.95**

PERMEABILITY TUNER COIL KIT

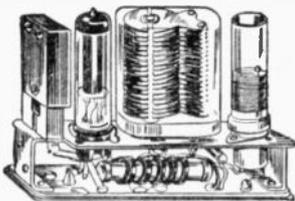


A basic coil kit for the construction of a 5- or 6-tube AC-DC superhet broadcast receiver. Excellent for students, set builders and experimenters. Kit includes a slug-tuned assembly as illustrated, that takes the place of old-style gang condenser, RF and antenna coils; a permeability tuned 455 KC oscillator coil; a loop antenna that matches the input circuit of the tuner and two good quality 455 KC IF transformers, plus two wiring diagrams using all standard parts and conventional tube line-up. Tuner measures 4x2 1/2 x 2 1/4" overall with 2 1/4" diameter dial drum. No. 14A661. Tuner and Coil Kit. Special, Each..... **\$1.95**

No. 18A987. Special, Each..... **\$1.95**

Permeability Tuner Only. Consists of the slug tuned assembly with 455 KC oscillator coil. No. 18A403. Permeability Tuner. Special, Each..... **95c**

A SUB MIDGET TRANSMITTER FOR 80 METERS



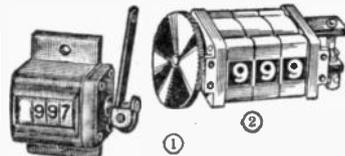
Built from the BC746 tuning unit chassis. Size only 4x3x1 1/4". Simple to convert. It can be easily completed in one evening. Diagram and instructions furnished. Uses 1 1/2-volt A and 45 to 90-volt B batteries. Plate current 8 to 12 Ma. Kit includes the tuning unit chassis, sending key with cord, 80 meter crystal, tube, resistors, condensers, etc. Less batteries. No. 18B201. **\$3.95**

YOUR COST..... **\$3.95**

BATTERY KIT FOR ABOVE

21A1. A Battery..... **\$0.08**
21A18. B Battery..... **1.71**
12A1341. Battery Connector.. **.12**

VEEDER-ROOT COUNTERS



TRIP CYCLOMETERS

① Registers 000 to 999 in steps of 1/10 revolution, in other words, 10 numerals register for each complete revolution of the cam. Attractive Chrome housing size 1 3/4 x 3/4 x 1/8". Cam is 1 3/8" long. No. 18A987. Special, Each.. **95c**

REVOLUTIONS COUNTER

② Reads up to 999. Resets to zero quickly with thumb operated knurled disc at one end. Designed for direct connection to rotating device. Shaft has 1/8" coupling attached. Numbers are white against black background. Overall size 2 3/4" long, 1 1/4" square. No. 17A346. **95c**

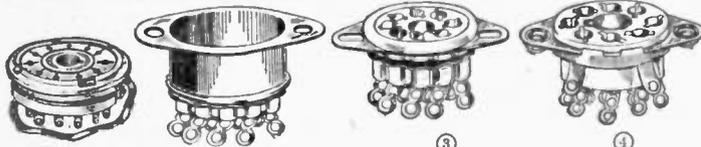
Big Savings on Sockets and Connectors

BAKELITE SOCKETS



- ① **OCTAL MICA FILLED BAKELITE.** Mounts directly to chassis or panels in 1/8" hole. Complete with retainer rings.
No. 17A396. **6c** Lots of **5c**
Special, Each. 10. Each.
- ② **OCTAL BAKELITE SOCKET** with steel mtg. plate molded in so it cannot vibrate. Quality make. Mounts in 1 1/16" hole, 1 5/16" mtg. centers.
No. 17A206. **6c** Lots of **4c**
Special, Each. 10. Each.
- ③ **4-PRONG.** Mounts in 1 1/8" hole, has 1 1/2" mounting centers, otherwise as above.
No. 18A406. **6c** Lots of **4c**
Special, Each. 10. Each.
- ④ **5-PRONG.** Otherwise as above.
No. 18A405. **6c** Lots of **4c**
Special, Each. 10. Each.
- ⑤ **OCTAL BAKELITE SOCKET.** Saddle type mounting from either above or below chassis. Mounts in 1 1/16" hole. Mtg. centers 1 5/16".
No. 18A835. **6c** Lots of **4c**
Special, Each. 10. Each.
- ⑥ **OCTAL.** Mounts in 1 3/32" hole, 1 1/2" mtg. centers, otherwise as above.
No. 18A407. **6c** Lots of **4c**
Special, Each. 10. Each.
- ⑦ **7-PIN MINIATURE,** top mount saddle type. Molded bakelite. Phosphor bronze contacts. Mounts in 5/8" dia. hole, 7/8" mtg. centers. Has center shield. For all 7-pin miniature tubes.
No. 15A1122. **7c** Lots of **6c**
Special, Each. 10. Each.

WELL KNOWN QUALITY MAKE CERAMIC SOCKETS



- ① **Octal 8-Prong.** Mounts in 1 1/8" hole directly to chassis or panels with retainer ring furnished.
No. 18A833. **10c** Lots of **8c**
Special, Each. 10. Each.
- ② **OCTAL 8-PRONG WITH SLOTTED MOUNTING PLATE.** Mounting centers 1 1/2" to 1 7/8". Mounts in 1 1/4" hole.
No. 18A832. **15c** Lots of **13c**
Special, Each. 10. Each.
- ③ **4-PRONG,** otherwise as above.
No. 18A831. **14c** Lots of **14c**
Special, Each. 10. Each.
- ④ **SADDLE MOUNTING TYPE.** Octal 8-Prong. Mounting centers 1 1/2" mounts in 1 3/16" hole. Equipped with 4-36 stop nuts and grounding lugs.
No. 17A378. **8c** Lots of **6c**
Special, Each. 10. Each.

4-PRONG HIGH VOLTAGE SAFETY SOCKET



For 2x2 rect. and other tubes with base diameter of 1.156". Widely used in TV. and Photo Flash equip. Socket set at bottom of a deep molded bakelite shell. Steel mtg. plate molded into shell. Mtg. holes on 1 7/8" centers. Mounts from above or below in 1 1/2" hole. List Price, \$1.50.
No. 17A357. **Special, Each. 29c**



BAKELITE WAFER SOCKETS

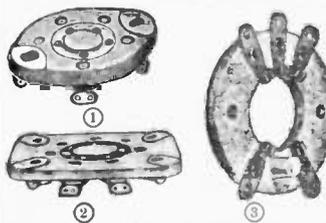
- 6-prong, regular, 1 1/2" mtg. centers.
No. 18A1081. **3c** 10 Lots. **2c**
Each. Each.
- 7-prong, miniature, 7/8" mounting centers with center shield.
No. 18A1083. **4c** 10 Lots. **3c**
Each. Each.

Shielded Connector Plug



- 7-Contact female Amphenol type 78-PM75—fits 86-PM75 or similar male plugs. 12" wire leads already attached.
No. 18A1080. **Special, Each. 5c**
Type 86-PM75 Amphenol male plug to fit above—from our regular stock—less wire leads.
No. 12A75. **EACH. 19c**

Ceramic Wafer Sockets



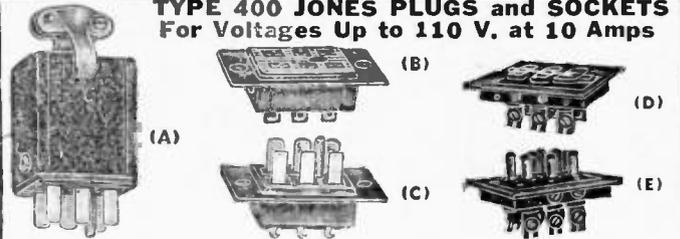
- ① **ISOLANTITE LOW LOSS**
Well known make. Cadmium-plate phosphor bronze contacts. Recessed. Mounts against metal without arcing.
Stk. No. Prongs Each
18A161. 4 12c
17A429. 6 12c
17A435. 8 Octal 14c
- ② **JOHNSON 7 PRONG**
Steatite. For 829B, 832, 836, etc. Type 247, Cad. plated contacts. Finest construction.
No. 18A829. **SPECIAL, EACH. 29c**
- ③ **ACORN TYPE**
Very Low Loss.
No. 18A830. **SPECIAL, EACH. 12c**

Low Loss Bakelite CRYSTAL SOCKETS



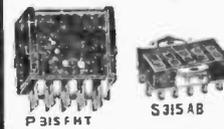
- Well known quality make. Accommodates standard crystal holders with 1/2" pin spacing. Single screw mounting.
No. 18A854. **12c**
Spec. Ea.
- As above except accommodates 2 crystal holders.
No. 17A1038. **Special Each. 18c**

TYPE 400 JONES PLUGS and SOCKETS For Voltages Up to 110 V. at 10 Amps



- (A) and (B) **12 Contact Plug and Socket COMPLETE** (Type P412CCT plug, S412SB socket). Socket with shallow bracket for flush mtg.
No. 18A810. **Complete Assembly. Special, Each. 69c**
- (B) **8 Contact, Chassis mounting type S408AB socket.**
No. 18A1108. **Special, Each. 19c; 10 Lots. Each. 15c**
- (C) **6-Prong Plug.** Type P406SB with shallow bracket for flush mounting. No. 18A814. **Special, Each. 12c**
- (C) **10-Prong.** Type P410SB with shallow bracket for flush mounting. No. 18A815. **Special, Each. 15c**
- (C) **12-Prong Plug.** Type P412SB with shallow bracket for flush mounting. No. 18A816. **Special, Each. 18c**
- FOR 5000 VOLTS AT 25 AMPS PER CONTACT**
- (D) **6 Contact, Type S506SB socket with shallow bracket.**
No. 18A818. **Special, Each. 59c**
- (E) **6 Contact, Type P506SB plug with shallow bracket.**
No. 18A819. **Special, Each. 49c**

TYPE 300 15 CONTACT JONES PLUGS & SOCKETS



- (Type P-315-FHT) Plug with flared hole in top of cap.
No. 18A940. **SPECIAL, EACH. 35c**
- (Type S-315-AB) Socket with angle bracket for chassis mounting.
No. 18A943. **SPECIAL, EACH. 30c**

JONES PLUGS & SOCKETS ASSEMBLIES

① EIGHT PRONG ASSEMBLY

- Eight prong chassis type plug, type P-308-AB and type S-308-CCT socket.
No. 17A386. **COMPLETE ASSEMBLY. 39c**

② CHASSIS MOUNTING PLUG

- Popular on many types of gear. 6 Contacts.
No. 18A956. **SPECIAL, EACH. 20c**

③ 6 CONTACT SOCKET

- For use with above.
No. 12A346. **EACH. 42c**

FOR "MOTOROLA" POLICE RADIOS

- 4 Prong plug with positions other than those found in regular plug of this type. Also fits other special equip. A hard to find item.
No. 17A395. **SPECIAL, EACH 59c** Lots of **50c**

2-CONDUCTOR CONNECTORS



- Molded bakelite. 2-hole receptacle and 2-prong plug. Used on record changers, phono motors of anywhere where a separable 2-contact connection is desired. Female part with 6" wire leads. No. 18A106. **SPECIAL, EACH. 19c**

AC RECEPTACLE

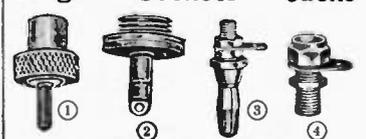


- Bakelite body with removable steel mtg. plate. Mounts in 1 1/16" dia. hole. 1 1/8" mtg. centers. Has screw terminals.
No. 15A1154. **12c** 10 Lots. **10c**
Special, Each. Each.

FOR BC 348 RECEIVERS

- Type P1-Q130A.
An 8 contact socket with cable clamp fitting.
18A998. **Spec., Ea. 49c**

Plugs — Sockets — Jacks



JONES TYPE 101 SOCKETS and PLUGS

- A low loss plug and socket ideal for high frequency connections. Brass, chrome finish, silver contacts, ceramic insulated.
- ① Plug—3/8" sleeve. **40c**
No. 18A807. **SPECIAL, EACH. 40c**
- ② Socket. **30c**
No. 18A808. **SPECIAL, EACH. 30c**
- GIANT PLUG and JACK SET**
③ and ④. Plug 1 3/16" long—Jack is 7/8" and fits 3/8" hole.
No. 12A1400. **Per Pair. 19c**
④ No. 18A843. **Jack Only. 8c**

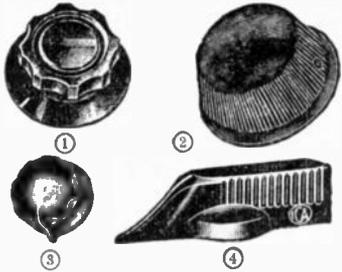
AC RECEPTACLE



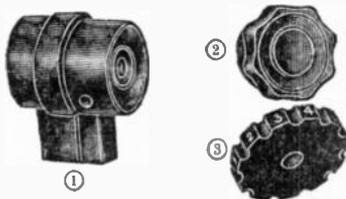
- Standard steel mounting plate molded into bakelite body. Mounts in 1 3/16" chassis hole; two 5/32" screw hole on 1 1/2" centers.
No. 17A394. **15c** Lots of **13c**
Special, Each. 10. Each.

Take Time, Check every item FOR TERRIFIC VALUES

BAKELITE KNOBS



- ① 1 1/2" BLACK BAKELITE with 1 1/2" dia. skirt, brass bushed for 1/4" shaft. No. 18B144 Special, Each **16c** Lots of 10 Each **14c**
- ② BLACK TAPERED, 1 3/4" dia. at top and 2 3/8" at base. Brass bushed for 1/4" shaft, with set screw No. 18A521. SPECIAL, EACH... **20c**
- No. 18A522. Like above, 1 3/8" dia. at top, 2" at base for 3/16" shaft. SPECIAL, EACH... **15c**
- ③ E'ZEE GRIP POINTER KNOB, 1 1/2" at base. Metal bushed for 1/4" shaft. Polished black bakelite. Complete with set screw. No. 17A279. Special, Each **15c** Lots of 10 Each **13c**
- Black satin finish, 1" dia. at base. Otherwise as above. No. 17B445. Special, Each **12c** Lots of 10 Each **10c**
- ④ POINTER KNOBS. Pointer filled in white. Available in sizes and colors as listed. Complete with set screws. For 1/4" shaft.
- | Stk. No. | Length | Color | Each | 10 For |
|----------|--------|-------|------|--------|
| 15A1118 | 2 1/4" | Black | 7c | 50c |
| 15A1117 | 1 1/2" | Black | 6c | 40c |
| 15A1119 | 1 1/4" | Brown | 8c | 40c |



- ① LEVER KNOB. For coils, switches or contactors requiring a sturdy knob with plenty leverage. Has brass insert for 1/4" shaft and 2 set screws. 1" dia. x 1 1/4" deep with lever extension 3/8" wide x 1/2" long. Made of black polished bakelite. No. 17A452. Special, Each **15c** Lots of 10 Each **12c**
- ② ALL PURPOSE bakelite knob. 1 1/8" dia. Brass bushed for 1/4" shaft. With set screws. No. 18A223. Special, Each **10c** Lots of 10 Each **9c**
- ③ INDICATOR KNOB. Marked 1 to 9. Black bakelite 1 1/2" dia. has metal hub for 2 set screws. For 1/4" shaft. No. 17A280. Special, Each **5c** Lots of 10 Each **4c**

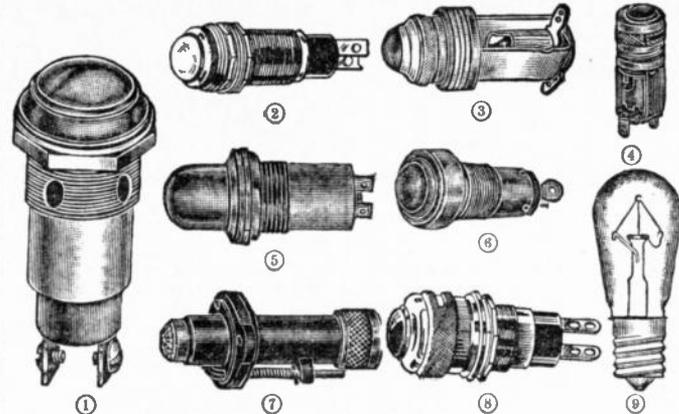


- ① BAKELITE KNOB. 1" dia., black. For 1/4" shaft with set screw. Shank, 3/4" diameter x 3/4" long. Overall length, 1 1/4". No. 18A222. Special, Each **15c** Lots of 10 Each **12c**
- ② BAR KNOB. Black bakelite for 1/4" shafts, brass insert. 1 3/8" long. No. 17A362. Special, Each **15c** Lots of 10 Each **12c**

KNOB ASSORTMENT

Contains 10 quality bakelite knobs such as used on Amplifiers, Transmitters, Etc. All fit 1/4" shafts and are complete with set screws. The kind that usually cost you up to 25c each. No. 17B679. Spec. Per Assmt. of **10 For 65c**

PANEL LIGHT ASSEMBLIES



At Ridiculously Low Prices

- Bulbs accessible from front on all models shown. Fig. ① uses 110-Volt type S6 lamp Fig. ②, Fig. ③ uses 110-volt type NE45 neon bulb. All others use any regular T3 1/4 miniature bayonet base single contact bulb.
- ① 110 V., fully enclosed, porcelain and brass nickel plated. Underwriters approved. For single 1" hole mounting, any thickness panel. Over-all length 2 1/2". Lens 1" dia. Uses Fig. 9 Lamp illustrated. No. 18A180. Red Lens. Special, Each... **60c** Lots of 10 Each **55c**
- 17A338. As above with variable dimmer. Red Lens. Special, Each... **65c** Lots of 10 Each **60c**
- ② For 110-volt Neon Lamp Type NE45. Clear plastic lens. Fits 3/4" hole in panels up to 3/4" thick, overall length 2". Gun metal finish. 18A1102. Special, Each... **50c** Lots of 10 Each **45c**
- NE45 Neon Lamps for above. 16A145. Special, Each... **39c** Lots of 10 Each **36c**
- ③ A very popular type. Supplied with two fibre washers to adjust to various panel thickness up to 1/4". Extends 1 1/8" behind panel. Has 1/2" plain red jewel. 18A528. Special, Each... **25c** Lots of 10 Each **20c**
- ④ Requires only 5/8" panel hole. Extends back 1 1/2". Lens assembly removable at front and so arranged that brilliance of light coming thru lens can be varied. 18A886. Amber Lens. 17A449. Yellow Lens. Ea., Your Choice... **25c** Lots of 10 Each **20c**
- ⑤ Full view type. Plastic hood gives visibility from all sides. Suitable for Neon NE51 bulb or standard T3 1/4 miniature bayonet base S. C. lamp. For various panel thickness up to 3/8". Very compact, fully enclosed bulb. 12A666. Special, Ea. **69c** Lots of 10 Each **67c**
- ⑥ An especially attractive assembly fully enclosing the bulb. Very compact yet suitable for panels up to 1/4" thick. Has 1/2" red jewel. Holder on swivel to allow variation of light intensity. 17A281. Special, Ea. **15c** Lots of 10 Each **12c**
- ⑦ Made of bakelite, mounts on front of panel with screws and extends back 2". Facefed red lens pulls forward on springs and swings out of place for front removal of bulb. 18A193. Special, Ea. **15c** Lots of 10 Each **12c**
- ⑧ Shutter type, intensity of light can be varied by turning knurl nut. Mounts in 1 1/16" hole, bulb can be removed from front. For bayonet base miniature bulbs. Red lens. 17A366. Special, Ea. **45c** Lots of 10 Each **35c**
- ⑨ Bulb, 110-volt, 6-watt S6 cand. base for Fig. ① and any other similar indicators, etc. 16A168. Special, Ea. **18c** Lots of 10 Each **16c**

10 Assorted PILOT LIGHT ASSEMBLIES

Contains 10 assemblies some from above and others. An Outstanding Value! No. 18A14. Per Assortment of **TEN 95c**

NEON R.F. INDICATOR



Consists of 1/25-watt Neon Lamp and series resistor assembled inside bakelite fibre sleeve 2 1/2" long. Bakelite knurled knob at one end, brass contact at other end. Won't detune circuits like ordinary neon lamps. Can also be operated from 110-volt AC or DC. Originally designed for use as blown fuse indicator. Made by LaMar at a cost many times in excess of price we show. No. 18A1060. Special, Each... **8c** 10 and Over. Each... **5c**

NEON PILOT LITE



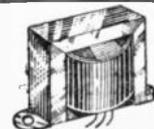
No. 17A794. Plastic enclosed 1/10-watt bulb for 110-volt AC or DC. Mounting centers, 1 1/2". Each... **19c**

MIKE PLUG and JACK COMBINATION



Consists of 1 JK33A jack and 1 PL68 plug. No. 18A977. Special for Both... **29c**

PUSH PULL OUTPUT



Pri: 10,000 ohms C.T. Sec: 3.2 ohms. Power rating 4 watts. No. 13A264. Special, Each... **65c** 10 For... **\$4.95**

NATIONAL

"Velvet Vernier" Dial Mechanism. Identical to that used on the popular A C N Dial.



No. 18A525. Special Each... **95c**

VERNIER DIAL MARKERS

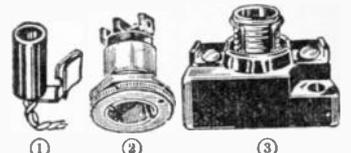
Allows logging to one tenth of one dial division. Easy to mount on any type panel. 18A518 For 180° Dials. 18A519 For 270° dials. CHOICE EACH... **10c**

NEON LAMPS



- ① NE 15-1/25 WATT Handy for many needs. Only 1 1/8" long x 1/4". For any voltage above 90-volt DC or 65-volt AC at .3 ma. Require current limiting resistance .2 meg. for 105 to 125-volt, .5 meg. for 210 to 250-volt. Has single contact bayonet base. No. 16A149. Each **9c** For. **80c**
- No. 12A1150. Socket for Above. **10c**
- ② NEON 1-WATT LAMPS G.E. Type NE30. 1-watt with medium screw base to fit standard sockets. Ideal for night light or R.F. indicator. New, in original G.E. packing, 10 to a box. Reg. Net Price, Box of 10, \$3.60. No. 18A1056. Special, Per Box of TEN... **\$1.80**
- ③ PLASTIC BEZEL Clear plastic convex lens in friction spring mounting holder 3/8" diameter. Handy for many needs. No. 17A348. SPECIAL, EACH. **10c**

PILOT LAMP SOCKETS



- ① For Candelabra Screw base lamps such as (Fig. 9) on this page. Bakelite with bracket for mounting in any position. Wire leads attached. No. 17A799. Special, Each... **15c** 10 Lots. Each... **13c**
- ② For Min. bayonet single contact bulbs, otherwise as above. No. 18A186. Special, Each... **15c** 10 Lots. Each... **13c**
- ③ For Candelabra double contact bayonet base lamps. Has metal instead of bakelite shell. No. 18A388. Special, Each... **15c** 10 Lots. Each... **13c**
- ④ Through panel mounting for candelabra bayonet base double contact bulbs with mounting nut and washer. No. 17A337. Special, Each... **25c** 10 Lots. Each... **23c**
- ⑤ Base or wall mounting type for candelabra screw base lamps. Made of black bakelite. No. 18A238. Special, Each... **25c** 10 Lots. Each... **23c**

DIAL LOCK



Easy to mount in single hole. Positive action, does not alter dial setting. No. 18A526. Special, Each... **18c**

Whopping BARGAINS in WIRE and CABLE

SENSATIONAL VALUES in



1000 Ft. Assortment

ALL OF IT IS HIGH GRADE QUALITY WIRE

The Biggest Buy in Wire we have ever offered. Consist of size 22 to 16, both solid and stranded, with various types of insulation. Ideal for hook-ups, lead-in and all-purpose needs. Supplied in bundles of 10 100-foot coils.

No. 3A37. Per 1000-Ft. Lot **\$4.95**

500-FOOT ASSORTMENT

Contains some of above and other popular types.

No. 2A23. Per 500-Ft. Lot **\$2.95**

200-FOOT ASSORTMENT

Contains short lengths as well as 25-foot coils of various type wire, suitable for all-purpose needs.

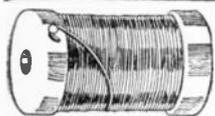
No. 3A28. Per 200-Ft. Lot **\$1.45**

SIZE 22 SOLID TWISTED PAIR



Size 22 solid copper conductor Vinylite insulation. Ideal for intercoms, door bells and for general hook-up needs. Supplied in 50-foot coils.

No. 3A106. 10 Lots. **39c** Each... **30c**



"BUSS" WIRE

SIZE 20, BARE COPPER, TINNED. It's the ideal size for coils, wiring, antenna wire and many other uses—and a Bargain too. 1/4-lb. (75 feet) on handy wood spool.

No. 18A1065. PER SPOOL... **15c**
10 SPOOLS FOR... **\$1.25**

Phosphor Bronze Cable



16 fine strands braided over line core. Fine for dial cable, concealed aeri-als, etc.

No. 2B25. Per 100-Ft. Coil... **49c**

ANTENNA INSULATOR KIT



Contains a 4" ceramic insulator, 15 feet of treated rope and a steel fitting for securing rope. OK for permanent or temporary receiving or transmitting antennas.

No. 22A25. Per Kit... **39c**

SHIELDED WIRE AT CRAZY LOW PRICES



Needed for many applications. Size 20, stranded tinned conductor with vinylite insulation, cotton braid and overall tinned copper shield. Single Conductor.

No. 2A84. Per 100 Ft., ONLY... **\$1.45**
Per 500-Foot Coil... **\$5.95**

With overall cotton Braid. Otherwise as above.

No. 3A94. 50-Ft. Coil... **95c**
Per 100-Ft. in Bulk... **\$1.65**

THREE CONDUCTOR SHIELDED CABLE



Consists of 3 size 20 stranded tinned conductors vinylite insulation, color-coded cotton braid and tinned copper shield overall. For any use requiring 2 or 3 conductor shielded cable.

2A83. **\$1.95** Per 50 ft. ... **\$3.45** 100 ft.

ANJC 48 WIRE

Priced Ridiculously Low!



Consists of stranded tinned wires with vinylite insulation and overall glossy lacquered braid. Priced at about 1/2 regular market. Available in bulk reels of 5,000 feet. C.E. and other quality makes.

No. 2A34. Size 22. Per 1,000 Feet... **\$3.65**

HIGH VOLTAGE CABLE

7 MM, ignition type. Ideal for high voltage connections in power supplies, Xmitters, etc. Supplied in length approx. 9 ft. long.

No. 3B31. Special, Each... **18c**

TINNED COPPER SHIELDING

Expands to nearly double its original width reducing length about 25%.

18B100. 3/16" dia. 50-ft. Coil... **65c**

No. 18B101. 1/8" Diameter. Per 50-ft. Coil... **50c**

ANTENNA FEEDER SUPPORT

White porcelain 1 1/2" high, 1 1/4" dia., hole diameter 3/8". Tapped for and supplied with 10-32 screw for mounting.

No. 17A391. Lots of Special, Each **8c** 10. Each **6c**

No. 18A1106. 3" high. Otherwise as above. Lots of Special, Each **12c** 10. Each **10c**

Aerial Kit BARGAIN!

CONTENTS: 100 ft. stranded tinned aerial wire, 25 ft. lead-in wire, 2 antenna insulators, 1 ground clamp.

No. 3A16. Special, Per Kit **49c**

8-FOOT HEAVY DUTY REPLACEMENT CORD



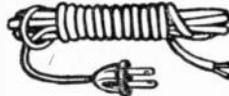
Size No. 18. Type S1 round, rubber sheathed, Underwriters Approved. Cord with rubber plug.

Handy for a multitude of needs—Refrigerators, Washers, Motors, etc.

No. 4A64. 10 Lots. **45c** Each... **42c** Special, Each... **6-FOOT CORD**

Otherwise as above. No. 3A127. 10 Lots. **33c** Each... **29c** Special, Each

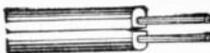
6-FOOT AC CORD



Underwriters' Approved. Rubber sheathed size 18 cord with rubber plug. There's a big replacement demand.

No. 3A96. 10 For. **22c** For. **\$1.65** Each

PARALLEL CORD



Standard #18/2 conductor brown rubber parallel cord—the kind you use every day. U/L Approved.

2A28X. 500 Ft. **\$1.95** For... **\$8.25** 100 Ft.

SHIELDED PHONO LEADS

Extra flexible shielded single conductor wire for replacement in record players and changers. Length, approximately 26".

No. 17A399. 6 lengths for... **29c**

No. 14A781. Same, except 72" long. SPECIAL, EACH... **19c** 10 Lots. Each... **16c**

OHMITE 20 WATT 10,000 Ohm resistor. Vitreous enameled, Size 3/8" dia., 2" long.

No. 18A1120, Special Each... **15c** 10 Lots, Each... **12c**

OHMITE 20 WATT 10,000 Ohm resistor. Vitreous enameled, Size 3/8" dia., 2" long.

No. 18A1120, Special Each... **15c** 10 Lots, Each... **12c**

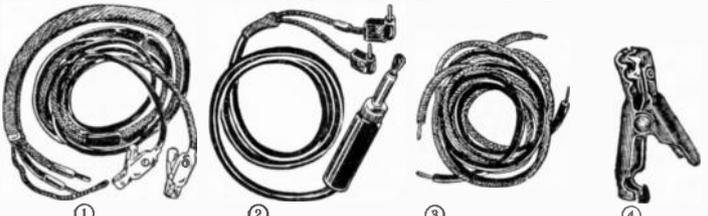
OHMITE 20 WATT 10,000 Ohm resistor. Vitreous enameled, Size 3/8" dia., 2" long.

No. 18A1120, Special Each... **15c** 10 Lots, Each... **12c**

OHMITE 20 WATT 10,000 Ohm resistor. Vitreous enameled, Size 3/8" dia., 2" long.

No. 18A1120, Special Each... **15c** 10 Lots, Each... **12c**

TEST LEADS and TEST CLIPS



TWO CONDUCTOR TEST CORD

(1) Approx. 65 inches long. Very flexible size 18 stranded wire with black and red braid covering. Has pin tips one end and piercing spring clips like Fig. 4 at other end. Brand New.

No. 17B647. SPECIAL EACH... **45c**

HEAVY DUTY LEADS

(2) Equipped with heavy duty standard phone plug, easy grip Weston type phone tips, flexible leads with overall rubber jacket. Overall length 5 ft.

No. 17A388. A Steal at... **65c**

TEST LEAD WIRE

(3) Heavy duty, 10,000 volts. Non-kinking-flexible. Consist of tinned stranded copper wire with heavy wall of live rubber insulation. Paired red and black, 4-ft. long lead.

No. 15A2035. PER PAIR... **29c**

W.E. TEST CLIP

(4) Type TL137 the one so widely used on telephone test sets. Jaw spread 3/4" with pin to pierce insulation. Very strong spring.

No. 17A453. Special, Each... **10c** Six For **45c**

APPLIANCE CORD SETS AT BIG SAVINGS!



3000-Cycle good quality cord set. Fits standard irons and appliances. 7 ft. long No. 18 conductors with durable attachment cap and plug. A good 75c seller.

No. 3A98. Special, Each... **31c** Lots of 10. Ea. **28c**

DE LUXE CORD SET

30,000-Cycle top quality. Extremely flexible for rugged use. Fits all standard irons and appliances. 7-foot long No. 16 conductors with rubber attachment plug and trouble-free heater plug. Retail for \$1.35.

No. 3A97. Special, Each... **65c** Lots of 10. Ea. **59c**

MIDGET CORD SET

Coffee Maker and small appliance cord set. 6-foot long No. 18 heater cord with rubber attachment plug cap and midget heater plug to fit waffle irons, 3-lb. irons, etc.

No. 18A944. Special, Each... **31c** Lots of 10. Ea. **28c**

3-OUTLET EXTENSION CORD



Underwriters' approved Brown rubber parallel cord with bakelite plugs.

No. 3A99. 6-Ft., Each... **29c** 10 Lots. Each... **26c**

No. 3A100. 12-Ft., Each... **39c** 10 Lots. Each... **35c**

ANTENNA LOOP

Replaces antenna coil on most any type set. Good pick-up and selectivity.

No. 20B15. Special, Each... **24c**

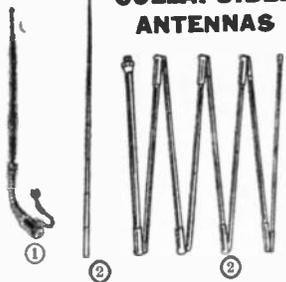
CERAMIC INSULATOR

For transmitting or receiving antennas. 3/4" square x 5 1/2" long of brown ceramic.

No. 18A961. Special, Each... **10c**

Every Item Here A Sensational Value!

COLLAPSIBLE ANTENNAS



GOOSENECK TYPE (2 Section)

① Ideal for UHF portable transmitters and receivers. Made of 1/8" dia. brass tubing mounted to a sturdy flexible base which permits adjustment to any angle after mounting. Overall length 34" collapses in center. Has threaded 1/4" mounting stud in base and attached connection for grounding. Finished in olive drab. Type AN130-B. No. 22A27. **10 Lots. 59c Each. 49c Special, Each**

FOLDING WHIP ANTENNA

② 10 1/2 Feet extended and only 17" collapsed. "Just it" for equipment that has to be carried around. Original equipment with SCR300 Walkie-Talkie. Consist of 8 tapered sections of brass tubing, held firmly upright by a powerful spring housed in base and braided stainless steel cable extending through the entire length of antenna. Base has 7/16" long threaded rod for mounting purpose. Dia. at base 5/16". Takes only a few seconds to extend or collapse. Finished in olive drab. No. 22A24. **65c Special, Each**

HOUSE MAST ANTENNA

Extends Up to 12 Ft.

Eliminates overhead wires. Easy to install. Mounts to vent pipe, roof, cornice, window frame, gable, etc. 4 section nickel plated rod, extends to 12 foot. Includes all attaching clamps, lead-in wire, lightning arrestor and ground wire. List Price \$8.95.

No. 38A21X. **\$2.95 Special, Each**



ANTENNA WIRE



100-FOOT COILS

Stranded aerial wire. 3 strands copper tinned, 4 strands monel metal. Greater tensile strength—will not sag. Rustless and stainless. Made to government specifications. **20c No. 3A85. Special. 12 COILS FOR \$1.88**

ANTENNA HANKS

20 feet extra flexible stranded copper plastic insulated wire on fibre card. **14c No. 19A29. 10 Lots. 12c EACH**

CRAZY SALE on AN Connectors



Consist of Amphenol, Cannon and Harwood. All priced at a mere fraction of regular price.

Fig. ① Type AN 3100	Each
Size 165-45	20c
Fig. ② Type AN 3102	
125-65	15c
18-25	15c
18-55	20c
18-65	20c
18-85	30c
18-16S	20c
20-45	20c
22-4P	20c
22-5S	25c
44-2S	90c
Fig. ③ Type AN 3106	
125-3S	20c
145-1S	30c
145-2S	25c
165-4P	25c
18-1S	40c
18-2P	25c
18-2S	35c
18-5S	30c
18-5P	30c
18-6P	30c
18-16P	30c
20-4P	35c
22-5P	40c
44-2P	70c
Fig. ④ Type AN 3108	
28-19S	35c
28-19P	33c
22-4S	25c
Fig. ⑤ Type AN 3108	
28-19P	35c
28-19S	40c

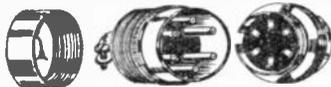
Low Prices on Mike Cable Connectors



Single contact, brass chrome plated. Contact made by tightening of coupling ring. **Each**

- ① 14A320, Female Cable Type... **24c**
- ② 14A319, Male Cable Type... **21c**
- ③ 14A321, Male Chassis Type... **15c**

HEAVY-DUTY AMPHENOL CONNECTORS



6-Prong Complete Sets Cable Connector and Chassis Unit. Chassis or panel section mounts in 1/4" hole in any material thickness up to 1/2". Has lock and spacer washer and hex nut. Cable section has cable clamp grip built in. For cable up to 7/16" dia. Threaded locking ring keeps connections tight. Terminals of bakelite inner units are numbered for quick wiring. Fully enclosed in cadmium plated heavy brass shell.

No. 18A381. Set of female cable unit and male chassis unit.

No. 17A792. Set of male cable unit and female chassis unit.

CHOICE either above sets... 65c

AMPHENOL MIKE CABLE CONNECTOR SET



3-Contact for Cable up to 1/4" diameter. Furnished in sets as illustrated. Cable and chassis sections, complete with coupling ring, mounting ring, lock washer, etc.

No. 18A382. Regular Net. 97c. **45c Special, Per Set**

RG/8u COAX CABLE

BRAND NEW 50 FOOT COILS Complete with Connectors. Stock No. 4A65. ONLY \$3.88

Yes Sir it's the popular genuine RG/8u Coax Cable so much in demand and on which the surplus is just about gone. Brand New, factory assembled with standard 83-1SP (PL259) connector at each end. Coils can be connected together with type 83-1J connectors.

15 FOOT LENGTHS

RG/8u as above with 83-1SP (PL 259) connector factory assembled to each end. **No. 4A66, SPECIAL, PER 15 Foot Length... 95c**

CONSTANT IMPEDANCE CO-AX CONNECTORS



(A) Weatherproof, for RG-8, 9 and 10u Cables.

(A) UG21/u Plug. List Value \$5.11. No. 17A368. **100 Lots. 50c EACH. 35c EACH**

(B) UG22/u Panel Jack. List Value \$4.16. 18A1069. **100 Lots. 40c EACH. 30c EACH**

(C) Angle Type UG27/u Adapter. One end fits above plug, other end fits above jack. List Price Value \$9.27. 18A1070. **100 Lots. 60c EACH. 45c EACH**

Sold in Pairs at Crazy Give Away Price. No. 18A1071. 1 UG21/u Plug and 1 UG22/u Panel Jack. List Price Value, \$9.27. **80c Per Pair**

COAXIAL CABLE

TYPE RG/8u. Brand New. Made to Jan-C-17 A.N. specs. **\$5.95 No. 2A163. Per 100 Feet.**

1,000 Feet and Over. \$55.00

Per 1,000 Feet

No. 2A170. 62-ohm cable, like above except without the Vinyl outer covering. Consists of 7 strands No. 22 bare copper wire encased in Copalene with overall copper braided shield. No. 2A170. **\$2.50 Per 100 Feet**

RG59/u-73 OHM CO-AX CABLE

Top quality—Fresh, New—Not War Surplus.

No. 4A68. **5c 100 \$4.45 Per Ft. Fr. \$41.50 1,000 Ft.**

RG29/u-53.5 OHM CO-AX CABLE

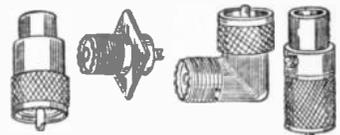
Easy to handle, only .116" O.D. 28 mmfd. per ft. Popular for shielded audio and R.F. circuits also for mike cable in fixed installations. Odd Lengths, 25 to 100 ft. Specify length desired and we will supply length closest to footage you order. **No. 3B6. PER FOOT... 2c**

Continuous Lengths, 100 feet and over. **\$2.95 No. 2A169. Per 100 Feet.**

300 OHM TWIN TRANSMISSION LINE

Top quality with polyethylene dielectric of full thickness edge to edge design. **\$1.19 No. 4A67. Per 100 Ft. \$10.49 1,000 Ft.**

Coax Cable Connectors



Strk. No.	Type	Price Each	100 Lots, Ea.
18A806.	83-1SP (PL259)	30c	25c
18A805.	83-1R (SO239)	35c	33c
17B185.	83-1AP (M359)	25c	23c
17A462.	83-1SPN (PL259A)	30c	25c

83-1J (PL-258) CONNECTOR

Junction for use with fittings above and for coupling lengths of RG/8u having 83-1SP plugs attached.

No. 17B193. **\$1.14 NET EACH**

TYPE 83-1H HOOD

UG-106/U Receptacle hood. No. 17A347. **9c Special, Each**



83-1R CABLE UNIT



Consists of 1 83-1R chassis connector and hood with 18" length of RG8/U cable attached. A convenient size for connection of coax circuits inside the chassis.

No. 3B39. **45c Special, Each. 10 Lots. 40c Each**

BELIEVE IT OR NOT! 50c PER DOZEN FOR PORTABLE ANTENNAS



Roll it up to carry everywhere. Hangs anywhere from attached clip. Attaches to set with single wire. Made of flexible metal foil attractively bound and covered. Gives better signal pick-up than ordinary hook antennas. Handy to take along to improve portable set reception in the car, hotels, outdoors, etc. Size, 10x11 1/2". 12-ft. flexible insulated wire attached... **this and the alligator clip above are worth the price we ask for the complete antenna.**

No. 5B140. **Per Dozen... 50c**

DEALERS! SERVICEMEN! A swell giveaway item to promote good will. Cost you less than a nickel each—the retail value must have been around \$1.00.

Remember... the B-A reputation for honest, dependable and friendly dealings protect your every purchase.

Sensational Bargains in Quality Headphones

THE FINEST IN HEADPHONES

MADE TO AIR CORPS, ARMY & NAVY SPECIFICATIONS
ALL BRAND NEW — In Original Packing — at Terrific Savings!



8000 OHM TYPE HS23

① High impedance, extremely sensitive. Alnico Magnets in molded bakelite cases, adjustable terminals. Headband fully adjustable leather covered, spring steel, 12" cord with PL54 plug attached at side out of way. Jack and rubber cord supplied to extend length to 7 feet. Removable rubber ear cushions. An extremely light weight pair of quality phones (weighs only 9 oz).

No. 17A37. Pair Complete **\$2.45**

600 OHM TYPE HS33

② Identical to Type HS23 except 600 ohm impedance, flat response; preferred for many applications. Complete with headband, cord, plug and cushions as illustrated Fig. 1.

No. 22A26. Complete. **\$1.95**
Per Pair.....

600 OHM HS33 (Less Headband)

③ Identical to above, less headband extension cord and cushions.

No. 18A1011. Per Pair..... **65c**

TRIMM COMMERCIALS AT A FRACTION OF REGULAR PRICE

④ 600 OHM IMPEDANCE. Sensitive, Rugged, practically unbreakable yet extremely light weight. Black bakelite caps and shells only 2 1/8" diameter x 3/4" thick. Forged magnet of best grade Cobalt steel. Fabric covered wire headband with spring lock and adjusting clamp. 5 ft. special moisture proof cord. Recommended for monitoring service. Regular list at \$14.50 and Net at \$8.70.

No. 17A413X. B-A Special. **\$2.95**
While They Last.....

RUBBER EAR CUSHIONS

⑤ Comfortable, sponge rubber front. Exact fit for HS23, HS33 and HS38 type receivers.

No. 18A1009. EACH..... **15c**

THE POPULAR TYPE "HS16"

⑥ 600 Ohm impedance, flat response. Extremely sensitive. Quality molded black bakelite caps and shells, Chrome steel magnets, standard concealed terminals. Headband of Bronze spring wire, covered with textile webbing. Has sturdy thumb screw adjustment on sturdy yokes. Cord is moisture proof rubber insulated cotton braid covered. 6 feet long with standard pin tips.

No. 5A169X. **\$1.45**
Per Pair.....

TYPE HS30 MIDGET HEADSET

⑦ Highly sensitive. 8000 ohm. Very compact, light weight, and equipped with ear fitting rubber cushions designed to shut out outside noises. Phone units are precision built and small, similar to those used on hearing aids. Metal headband can be shaped to fit contour of head. Complete as shown with Y-shaped, flexible, rubber covered head-set cord, spring clip clothing fastener, high impedance transformer and 6 ft. 2 conductor rubber covered extension with PL55 plug. Converts to low impedance by removing transformer.

No. 17A420. Per Pair..... **\$1.59**

10 Lots. Each..... **\$1.29**

HS30 (Low Impedance)

⑧ Supplied as above, except LESS high impedance transformer, extension cord and plug.

No. 14A684. Special, Each **\$1.19**

MATCHING TRANSFORMER

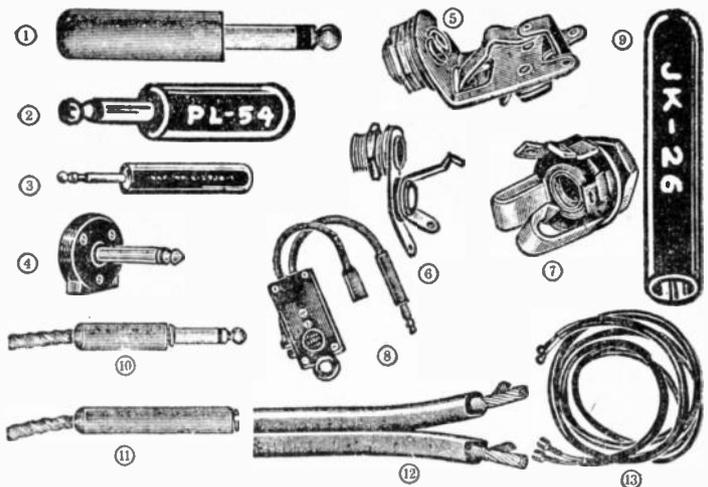
⑨ Converts Low Impedance Phones to high impedance 8000 ohms. For types such as HS30, HS33, HS16 and others. Has screw terminals for direct connection inside transformer. Furnished with 6-ft. rubber cord and PL55 plug.

No. 14A685. 10 Lots. **50c** EACH..... **45c**

⑩ As above with 5" cord and PL54 plug.

No. 4A46. EACH..... **25c**

PHONE & MIKE PLUG, JACKS & CORDS



PL55 PLUGS

① Fits all standard Jacks. Quality built to "take it" for hard use. Tenite shell 1000 V. insulation overall length 2 13/16".

No. 17A262. **39c** 10 Lots. **37c**
EACH.....

PL54 PLUGS

② Fits exactly the JK26 Jack. Handy for making up extension cords.

No. 17A383. **12c** 10 Lots. **10c**
EACH.....

PL68 PLUG

③ 3 contact mike plug. Fits JK33 Jacks.

No. 18A666. **19c** 10 Lots. **17c**
EACH.....

FLAT PHONE PLUG

④ 1 1/16" dia., 1/4" thick. Eliminates objection of protruding plug. Cord tips held tightly by screws. For all standard jacks.

No. 18A844. **29c** 10 Lots. **27c**
SPEC., EA.....

CLOSED or OPEN CIRCUIT JR. JACK

⑤ Short type closed circuit jack. Can be used for open circuit. Fits all standard phone plugs.

No. 18A838. **19c** 10 Lots. **17c**
EACH.....

MIDGET OPEN CIRCUIT JACK

⑥ Mounts in 3/8" hole on panels up to 1/4" thick. Ground connection third lug forms part of frame.

No. 18A840. **12c** 10 Lots. **10c**
EACH.....

JK33 MIKE JACK

⑦ Fits WE No. 109 and Army Nos. PL46, PL68 and PL168 mike plugs.

No. 18A839. **12c** 10 Lots. **10c**
EACH.....

CORD & SWITCH ASSEMBLY

⑧ Has DPST press to talk switch enclosed in handy bakelite case easy to operate in palm of hand. Has cord with socket for connection to plug as on throat mike and 5-ft. rubber covered mike cable with PL68 plug attached.

No. 18A885. **45c** 10 Lots. **40c**
EACH.....

JK26 JACK

⑨ "Just it" for making speaker or phone extension cords. Fits exactly PL54 plugs or makes suitable contact on PL55 and other standard phone plugs.

No. 17A380. **13c** 10 Lots. **11c**
EACH.....

PL55 PLUG WITH CORD

⑩ 6-foot, long wearing rubber phone cord and a PL55 plug.

No. 17A263. **40c** 10 Lots. **38c**
EACH.....

PL68 PLUG WITH CORD

⑪ 6-foot durable 3 cond. rubber mike cable assembled to PL68 mike plug.

No. 18A841. **35c** 10 Lots. **33c**
EACH.....

JK26 JACK WITH CORD

⑫ 6-foot long wearing rubber phone cord and a JK26 Jack. "Just it" as extension for Army phones, that have short cord and PL54 plug.

No. 17A265. **25c** 10 Lots. **18c**
EACH.....

TINSEL PHONE CORD

⑬ Tinned tinsel conductor, cotton covered and over all rubber. Very flexible. Fine for long phone and speaker extensions.

No. 2A92. 25-ft. coil..... **35c**

In bulk, 100 ft. and over..... **95c**

Per 100 ft.....

6 1/2-FT. PHONE and SPEAKER EXTENSION CORDS

⑭ Type CD605, Two conductor tinsel wire, rubber insulated and overall rubber covered. Extremely flexible with lugs and terminals as illustrated. Ideal for extension phone and speaker cords, etc. Finest quality made to AN specs. Terminals exactly fit PL55, PL54, JK26, etc. plugs and jacks. 6 1/2 ft. long.

No. 17B648. **16c** 10 Lots. **14c**
Spec., Each.....

6-FT. MIKE CORD

⑮ Durable spiral wound rubber made to army specs. 3 cond. mike cord.

No. 18A842. **25c** 10 Lots. **23c**
EACH.....

TELEGRAPH KEYS

Finest quality, made to Army specs. at a cost many times our price. Get several while available at such crazy low prices.

① TYPE J37

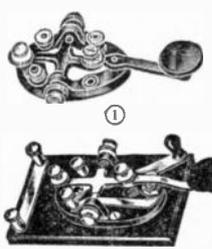
1/8" silver contacts, frame of solid bakelite, phosphor bronze key lever, spring steel lever spring, brass hardware.

No. 17A414. A Terrific Value..... **49c**

② TYPE J38

Jumper strip with binding posts mounted on bakelite base 4 3/4 x 3" with key. Has binding post connections and circuit closing switch. 1/16" solid silver keying contacts. All metal parts cadmium plated. Is an excellent key for saunder and buzzer telegraph systems, as it is equipped with two sets of binding posts. One set mounted on a jumper strip and the other set mounted on the key.

No. 17A38. SPECIAL, EACH..... **69c**



① TYPE T17B, 200 OHM HAND MIKE. Has press to talk switch in handle. Sturdy good looking bakelite case. Has 5-ft. rubber cord with PL68 plug. Can be connected to most radio sets for home entertainment and ideal for PA mobile and amateur needs. Brand New, in original packing.

No. 18A368. **\$1.59** 10 Lots. **\$1.45**
EACH.....

② THROAT MIKE. Moulded rubber throat piece which snaps to neck strap. Works into any 200 ohm impedance input circuit. Ideal for UHF mobile and amateur equipment.

No. 17A39. EACH..... **35c** 10 Lots. **30c**

③ CARBON MIKE BUTTONS. As used in Throat mike. A swell gadget for experimenters on detectophones, mikes, etc. Picks up noise or speech from vibrations.

No. 17A40. EACH..... **10c** 10 Lots. **7c**
EACH.....

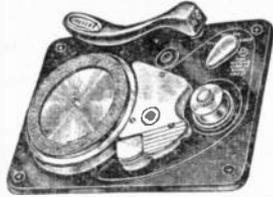
Hot Shot Special Values!

AT LESS THAN ONE-HALF PRICE WIRE RECORDER and RECORD PLAYER MECHANISM

The identical St. George essential mechanism for Wire Recording and Record Playing as used in many leading makes of Radio and Wire Recorder combinations. Adaptable to most any Radio or Amplifier. For recording up to 1 hour on standard wire, also plays back and erases. Included in the mechanism is a 78 RPM motor and turntable for playing standard disc records or to re-record on wire. Single knob controls all functions. Has automatic shutoff at end of recording.

Furnished as illustrated, except less pick-up (any standard crystal pick-up mounts easily). Mounting size, 9x13", 2" above, 4" below. Oscillator coil and diagram for constructing amplifier and erase circuit are included. A B-A Special Purchase brings them to you at Less than Half the Regular Net Price. For 115-Volt 50/60-Cycle AC. Shipping weight, 15 lbs.

No. 30B7. SPECIAL EACH..... **\$22.95**



TWO-POST SEEBURG MODEL "L"

\$42.00 LIST VALUE
RECORD CHANGER, ONLY..... \$14.95

HERE IS THE FINEST IN CHANGERS AT A PRICE USUALLY TERMED "A BARGAIN" EVEN FOR ORDINARY ONES. HAS EVERY WORTHWHILE FEATURE THAT MORE THAN JUSTIFIES THE ORIGINAL \$42.00 LIST PRICE AND \$28.00 NET PRICE.



FEATURES:

- Latest "LT" Astatic Cartridge with 3/4-oz. needle pressure and full range 50/10,000 cps. reproduction.
- Two-Post design holds records perfectly flat—easy to load and unload—no spindle to break or enlarge record holes.
- Gear driven mechanism throughout, quiet and positive acting.
- Automatic shut-off after last record.
- Heavy Duty fan cooled motor with 93/4" flocked turn-table.
- Mounts easily with 4 solid studs and cushion springs. Base dimensions 14 1/4" square; extends 2 3/4" below mounting, 4 1/2" above. Finish in attractive brown Hammertone enamel and chrome plated posts.
- Supplied with AC cord and shielded phono lead and plug wired ready to use.
- "T" type Astatic needle included.

Plays Twelve 12" or Fourteen 10" standard 78 RPM records with automatic shut-off after last record. Single knob control for Start-Manual-Off-Automatic and reject.

For 110-Volt, 60-Cycle AC. Shipping Weight, 16 lbs.
No. 31A250. Special, Each. While They Last..... **\$14.95**

THREE-POST SEEBURG DELUXE "INTERMIX" MODEL "M"

Here is the "Last Word" in record changers—was available only to manufacturers of expensive Combinations (the \$500 and up class). Equipped with the famous Astatic QT3M crystal cartridge and precious metal replaceable needle. Plays 12 standard 78 RPM 10" and 12" records, all one size or intermixed. Has every quality deluxe feature. Base dimensions 14 1/4" square—extends 2 3/4" below and 6" above mounting. Complete with AC cord, phono lead and pin plug wired ready to use for 110-volt, 60-cycle. Shipping weight, 20 lbs. It's a Terrific Bargain!

No. 35A1000. While They Last..... **\$27.95**

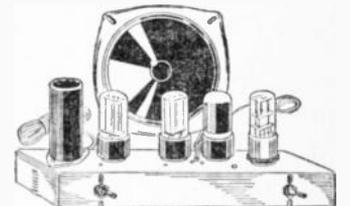
FOUR-TUBE PHONO AMPLIFIER and SPEAKER

Wired and Complete
Ready to Use. **\$9.95**
No. 4A63—Only.....

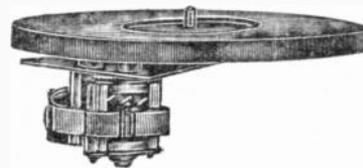
4 Tubes with tone and volume control, completely wired with "plug-in" connectors for speaker and phono output. The speaker is a heavy duty 6" PM with output transformer and plug ready to connect to amplifier.

Tubes included: 2 35Z5, 1 12SQ7, 1 35L6. Voltage doubler rectifier allows greater audio power output. "Just it" to make a record player with either of above changers, Motor and pick-up combination below or any crystal phono pick-up. Chassis size 12" long x 4 1/2" wide x 2 1/2" deep. Complete with tubes and speaker as illustrated.

No. 4A63. While They Last, ONLY..... **\$9.95**



MOTOR AND PICK-UP COMBINATION



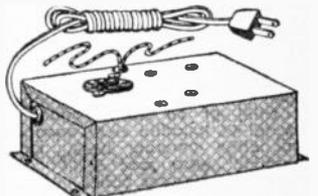
Standard 78 RPM Motor with three-point rubber cushion suspension and heavy 9" rim drive turntable, rubber tired idler. Easy to mount, extends only 2 1/2" below motor board. Furnished with an extra idler tire. Operates on 110 Volts AC. The pick-up is latest crystal type, 1 1/2-oz. needle pressure which alone usually sells Net at almost what we ask for both motor and pick-up.

No. 31A98. Motor and Pick-Up. A Steal at Only..... **\$2.99**

WIRELESS PHONO-OSCILLATOR

Add it to your present single record player or record changer or build your own wireless player using this unit and any phono motor and pick-up. Plays records through any radio without connecting wires. Tunes in like a radio station and is adjustable to any clear spot on your radio dial between 900 and 1600 KC.

Small enough to mount inside most portable players. Size 6" long, 3" wide, 1 1/2" high. Tube extends 2 3/4" above unit. Operates on 110-volt AC-DC. Complete with type 117L7 tube. Stock No. 17A345. SPECIAL, While They Last. ONLY..... **\$3.95**



SPECIAL PURCHASE G.E. VARIABLE RELUCTANCE No. RPX-010 PHONO CARTRIDGE ALMOST 1/2 NET PRICE!

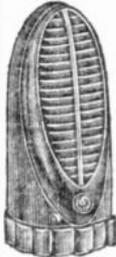


The original type DL1RM6C with permanent sapphire needle. Thousands were sold at \$4.68 net. Now while a limited quantity last. No. 17A819. Special, Each... **\$2.95**

PRE-AMPLIFIER PARTS KIT

MAKES PHONO PRE-AMP. FOR GENERAL ELECTRIC CARTRIDGES. All the resistors, condensers, 6SC7 tube and socket, small hardware and a punched chassis for making up the pre-amplifier necessary for G.E. variable reluctance phono cartridges. Supplied with circuit diagram. 17A822. Unwired Kit. Special, Each..... **\$2.49**

PRICE CUT IN HALF SHURE VERSATEX MICROPHONE

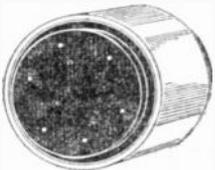


THE VERSATILE CRYSTAL MICROPHONE

Can be used "as is" on a desk, on a floor stand or in your hand. Voice response is ideal for Hams, paging systems, home recording, PA, etc. The crystal cartridge is moisture-proofed and mounted in rubber. An RF filter is incorporated to prevent crystal burn-out. Case is rich maroon-colored plastic. Output level, —53 db. Supplied with 7 feet shielded mike cable attached. List Price, \$11.50. Thousands were sold at the Regular Net Price of \$6.76. NOW a Special B-A Purchase Brings them to You—Brand New—At Half the Regular Net Price.

No. 20A657. While They Last, Each..... **\$3.38**

MIDGET DYNAMIC MIKE AND PHONO UNIT



Western Electric MC253A; 1 1/4" dia. x 5/8" thick—with screw terminals on back for handy connections. For use as a midget phono unit, pillow speaker, etc. connect to voice coil circuit of radio or amplifier. For use as a midget dynamic Mike, connect thru ordinary carbon Mike transformer to input of audio circuit of radio or amplifier. Originally built for military use and cost many times the price we show. Brand New. No. 18A401. SPECIAL, EACH **89c**

\$3.00 VALUE..... 50c RADIO-PHONO SWITCH and CONNECTOR ASSEMBLY

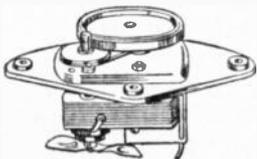


Complete switching and plug-in connector unit for attaching record players to radio. Consists of shielded Radio-Phono switch, Phono Jack and AC receptacle all wired and assembled on brackets that can be adapted to practically any mounting. Circuit diagram of assembly included.

No. 18A1079. Special, Each..... **50c**
10 Lots. Each..... **45c**

110-VOLT AC MOTOR

Just the thing for hobbyists, experimenters, etc. Self starting shaded pole induction motor designed originally for many top make record changers and is an exact replacement. Equally suited to use on electronic controls, switches, animated displays or for any purpose requiring a small high quality AC motor. Equipped with cooling fan for long periods of operation. Self aligning graphite bronze oil-less bearings for trouble-free operation. Equipped with 2" diameter rubber tired friction idler turning at 360 R.P.M. Idler may be easily removed for operation of equipment direct from motor shaft at a speed of about 3400 R.P.M. Motor shaft is 7/32" diameter, extending 5/16" above top bearing. Motor and idler are mounted on rigid pressed steel plate 5 1/8" long, 3 1/2" wide. Mounting plate is equipped with shock mounts. Motor extends 2" below top of mounting board, 1" above. Operates directly from 110-volt, 60-cycle line. No. 20B3. Priced far below production cost. EACH..... **\$1.49** 10 Lots. Each..... **\$1.19**



Bargains - IN OFTEN NEEDED HARDWARE

BRASS TERMINAL LUGS



Best quality brass tinned lugs for all types of radio and repair work.

No.	Type	Lgth.	Hole	Each	Per 100
19A1079	1	1 1/8"	8-10	1c	60c
19A1080	2	1 3/8"	8-10	2c	95c
19A1081	3	1 1/2"	10	1c	30c
19A1082	4	1 3/4"	8-10	1c	50c

Assortment of 100 lugs as above and others.

No. 19A1069, Per Asst. **45c**

BIG VALUES in TINNED SHAKEPROOF LUGS

Hole No.	Stock No.	Pkg. 100	Pkg. 500	Pkg. 1000
#4	18A371	.30	\$.95	\$1.65
#6	17B673	.30	.95	1.65
#8	17B682	.35	1.10	1.85
#10	17B683	.35	1.10	1.85

BARRIER TYPE TERMINAL ON BAKELITE



Type 2-142. Two terminal. Size 2 1/8 x 1 1/4 x 5/8" with 8-32 binder head screws.

No. 18A821.	15c	Lots of 10.	12c
Special, Each			
Type 5-142. Five terminal. Size 3 3/4 x 1 1/4 x 5/8", otherwise as above.			
No. 18A1092.	25c	Lots of 10.	20c
Special, Each			
Type 4-140 Four terminal. Size 2 1/8 x 3/4 x 3/8" with 4-40 binder head screws.			
No. 18A1103.	15c	Lots of 10.	12c
Each			

TERMINAL STRIPS



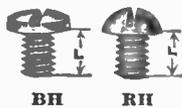
① Screw Type Terminal Strips			
2-Screw, marked A-G.			
No. 18A1084.	3c	10 Lots.	2 1/2c
Each			
2-Screw, marked FM Dipole.			
No. 18A1085.	3c	10 Lots.	2 1/2c
Each			
4-Screw, marked 1-2-3-4.			
No. 18A1086.	5c	10 Lots.	4c
Each			
5-Screw, not marked.			
No. 18A1087.	8c	10 Lots.	7c
Each			
6-Screw, not marked.			
No. 15A1115.	15c	10 Lots.	12c
Special, Each			
Assortment of 10. Includes some of above and others.			
No. 17A820. PER ASST.			35c
② Lug Type Terminal Strips			
No. 18A1088	2 Lugs	1c	7c
No. 18A1089	3 Lugs	2c	15c
No. 18A1090	4 Lugs	3c	25c
Assortment of 25. Includes some of above and others.			
No. 18A9. PER ASST.			35c

INSULATED SOLDER TERMINAL STRIP



Has total of 18 heavy solder lugs mounted on bakelite strip, with insulating strip covering back. Length 7 3/4 x 9 1/16" wide and 3/32" thick. Has three mounting holes.

No. 18A400.	10c	Lots of 10.	7c
Special, Each			



MACHINE SCREWS AT BARGAIN PRICES

BH, designates Binder Head; RH, Round Head and FH, Flat Head. Top quality Steel machine screws. Nickel or Cadmium Plated, Our Choice.

Size	2-56	Size	8-32	Size	10-32
------	------	------	------	------	-------

Lgth. No.	Round Head	Lgth. No.	Round Head	Lgth. No.	Round Head
1/8"	19A701	3/8"	19A870	1 1/8"	19A766
1/4"	19A702	1/2"	19A751	1 1/4"	19A768
3/8"	19A703	3/4"	19A743	1 3/8"	19A878
1/2"	19A704	1"	19A744	1 1/2"	19A770
5/8"	19A705	1 1/8"	19A746	1 3/4"	19A1028
3/4"	19A706	1 1/4"	19A748		
1"	19A707	1 1/2"	19A750		
1 1/8"	19A708				
1 1/4"	19A709				
1 1/2"	19A710				

500 For	15c	500 For	60c
FOR		FOR	

Size	4-40	Round Head	Ch'ce Above	Size	10-24
1/8"	19A705	1/8"	19A705	1/2"	19A889
1/4"	19A707	1/4"	19A707	3/8"	19A889
3/8"	19A854	3/8"	19A854	1/2"	19A889
1/2"	19A855	1/2"	19A855	3/4"	19A889

500 For	15c	500 For	37c
FOR		FOR	

Size	6-32	Round Head	Ch'ce Above	Size	1/4-20
1/8"	19A860	1/8"	19A860	1/2"	19A889
1/4"	19A861	1/4"	19A861	3/8"	19A889
3/8"	19A737	3/8"	19A737	1/2"	19A889
1/2"	19A738	1/2"	19A738	3/4"	19A889
5/8"	19A864	5/8"	19A864		
1"	19A740	1"	19A740		
1 1/8"	19A1032	1 1/8"	19A1032		
1 1/4"	19A764	1 1/4"	19A764		
1 1/2"	19A767	1 1/2"	19A767		
1 3/4"	19A879	1 3/4"	19A879		
1 7/8"	19A881	1 7/8"	19A881		
2"	19A882	2"	19A882		
2 1/8"	19A773	2 1/8"	19A773		
2 1/4"	19A776	2 1/4"	19A776		
2 3/8"	19A777	2 3/8"	19A777		
2 1/2"	19A777	2 1/2"	19A777		

500 For	32c	500 For	42c
FOR		FOR	

Size	10-32	Round Head	Ch'ce Above	Size	5/16-18
1/8"	19A753	1/8"	19A753	1/2"	19A894
1/4"	19A754	1/4"	19A754	3/8"	19A894
3/8"	19A758	3/8"	19A758	1/2"	19A894
1/2"	19A759	1/2"	19A759	3/4"	19A894

500 For	1.57	500 For	35c
FOR		FOR	

500 For	1.78	500 For	65c
FOR		FOR	

500 For	1.95	500 For	1.81
FOR		FOR	

Size	2-56	6-32	8-32	10-32	
1/8"	19A850	1/8"	19A850	1/8"	19A850
1/4"	19A717	1/4"	19A717	1/4"	19A717
3/8"	19A719	3/8"	19A719	3/8"	19A719
1/2"	19A722	1/2"	19A722	1/2"	19A722
5/8"	19A725	5/8"	19A725	5/8"	19A725
1"	19A743X	1"	19A743X	1"	19A743X
1 1/8"	19A868	1 1/8"	19A868	1 1/8"	19A868
1 1/4"	19A747	1 1/4"	19A747	1 1/4"	19A747
1 1/2"	19A749	1 1/2"	19A749	1 1/2"	19A749
1 3/4"	19A752	1 3/4"	19A752	1 3/4"	19A752
2"	19A755	2"	19A755	2"	19A755
2 1/8"	19A757	2 1/8"	19A757	2 1/8"	19A757
2 1/4"	19A760	2 1/4"	19A760	2 1/4"	19A760
2 3/8"	19A765	2 3/8"	19A765	2 3/8"	19A765
2 1/2"	19A769	2 1/2"	19A769	2 1/2"	19A769
2 3/4"	19A770X	2 3/4"	19A770X	2 3/4"	19A770X
3"	19A772	3"	19A772	3"	19A772

500 For	99c
FOR	

Size	2-56	6-32	8-32	10-32	
1/8"	19A850	1/8"	19A850	1/8"	19A850
1/4"	19A717	1/4"	19A717	1/4"	19A717
3/8"	19A719	3/8"	19A719	3/8"	19A719
1/2"	19A722	1/2"	19A722	1/2"	19A722
5/8"	19A725	5/8"	19A725	5/8"	19A725
1"	19A743X	1"	19A743X	1"	19A743X
1 1/8"	19A868	1 1/8"	19A868	1 1/8"	19A868
1 1/4"	19A747	1 1/4"	19A747	1 1/4"	19A747
1 1/2"	19A749	1 1/2"	19A749	1 1/2"	19A749
1 3/4"	19A752	1 3/4"	19A752	1 3/4"	19A752
2"	19A755	2"	19A755	2"	19A755
2 1/8"	19A757	2 1/8"	19A757	2 1/8"	19A757
2 1/4"	19A760	2 1/4"	19A760	2 1/4"	19A760
2 3/8"	19A765	2 3/8"	19A765	2 3/8"	19A765
2 1/2"	19A769	2 1/2"	19A769	2 1/2"	19A769
2 3/4"	19A770X	2 3/4"	19A770X	2 3/4"	19A770X
3"	19A772	3"	19A772	3"	19A772

500 For	1.57	500 For	35c
FOR		FOR	

500 For	1.78	500 For	65c
FOR		FOR	

500 For	1.95	500 For	1.81
FOR		FOR	



Hexagon Nuts

Many popular sizes at a saving over regular prices. Plated Finish.

For Screw	O.D. Size	Stock No.	Per 100	Per 500
2-56	1/8"	19A1026	28c	\$1.19
4-40	1/4"	19A789	32c	1.36
6-32	3/8"	19A792	36c	1.53
8-32	1/2"	19A794	40c	1.70
10-32	5/8"	19A897	44c	1.87
10-24	3/8"	19A1219	44c	1.87

500 For	1.87
FOR	

For Screw	O.D. Size	Stock No.	Per 100	Per 500
1/4-20	3/8"	19A798	84c	\$3.80
1/4-20	1/2"	19A799	84c	3.80
1/4-28	1/2"	19A800	45c	1.90
1/8-24	1/2"	19A899	45c	1.90

500 For	1.81
FOR	

For Screw	O.D. Size	Stock No.	Per 100	Per 500
4-36	1/4"	19A1083	25	100
6-32	3/8"	19A841	25	100
10-24	3/8"	19A843	25	100
1/4-28	1/8"	19A844	25	100

500 For	1.50
FOR	

For Screw	O.D. Size	Stock No.	Per 100	Per 500
10-32	3/8"	19A840	25c	80c

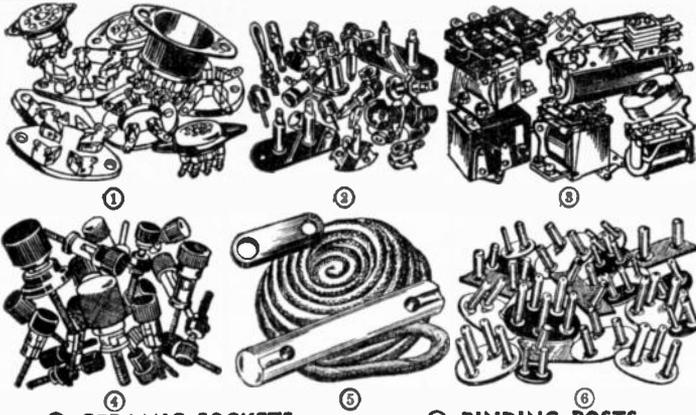
For Screw	O.D. Size	Stock No.	Per 100	Per 500
19A900	#2	10c	\$0.40	
19A905	#6	12c	.50	
19A907	#8	15c	.60	
19A1041	#10	20c	.80	
19A911	#6	20c	.80	

For Screw	O.D. Size	Stock No.	Per 100	Per 500
19A813	#6	25c	.95	
19A1038	#8	25c	.95	
19A1039	#10	25c	.95	
19A816	1/4"	25c	.95	
19A817	1/2"	25c	.95	
19A819	1/2"	25c	.95	

For Screw	O.D. Size	Stock No.	Per 100	Per 500
19A919	#4	35c	1.45	
19A920</				

KITS - ASSORTMENTS

For The Radio Shop



① CERAMIC SOCKETS
10 assorted types with the greater portion octals complete with mounting plates. Would cost at least \$2.50 if bought regularly.
No. 18A1006. Per Asst. **95c**

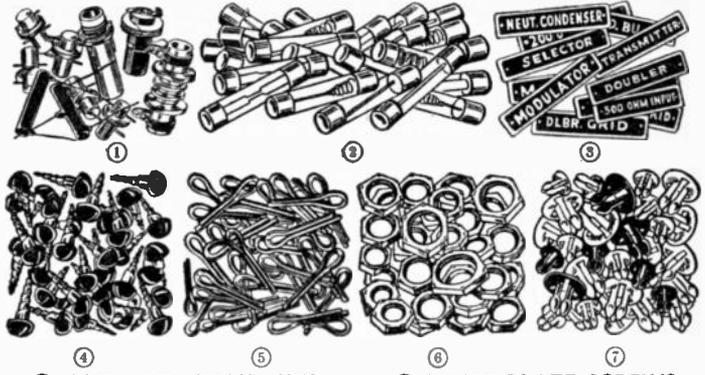
② JACKS, PLUGS, ETC.
25 assorted. Included are banana and phone tip jacks and plugs of sizes in popular demand. You Save Plenty on This Assortment.
No. 18A1005. Per Asst. **95c**

③ RELAYS and RELAY PARTS
An assortment that provides unlimited experimental fun. Consists of 5 various relays, an extra relay coil and extra contact points.
No. 18A2036. Per Asst. **\$1.95**

④ BINDING POSTS
25 assorted. High grade Metal and Bakelite Posts of Eby and other quality makes in types that regularly sell to 25c each and that you will have many occasions to have use for.
No. 18A1004. Per Asst. **95c**

⑤ ANTENNA INSULATOR KIT
Contains a 4" ceramic insulator, 15 feet of treated rope and a steel fitting for securing rope. OK for permanent or temporary receiving or transmitting antennas.
No. 22A25. Per Kit. **39c**

⑥ BATTERY TERMINALS
Kit includes 50 assorted plugs. All the popular types.
No. 18A24. Per Kit. **\$2.93**



① COIL AND CHOKE KIT
10 assorted miscellaneous Coils and RF Chokes. An outstanding value.
No. 17A387. Per Kit. **95c**

② TYPE 3AG FUSES
25 assorted 3AG fuses of most popular sizes.
No. 18A966. Per Asst. **45c**

③ TYPE 4AG FUSES
100 assorted 4AG fuses of very useful sizes.
No. 18A785. Per Asst. **\$1.95**

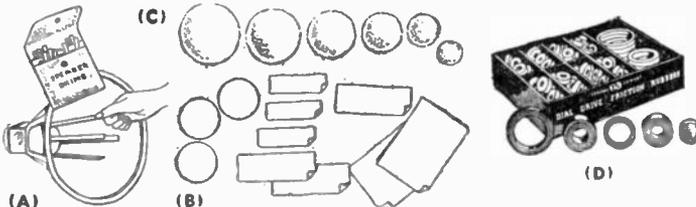
④ NAME PLATES
10 assorted. Made of Brass, Nickel-plated Finish. Letters are raised and etched on Black Satin background. Size 1 1/2"x7/16". Pkg. of 10 assorted markings (as already made up).
No. 15A1120. ONLY. **25c**

⑤ NAME PLATE SCREWS
30 assorted small sizes of Escutcheon and Name Plate screws.
No. 18A19. Per Asst. **24c**

⑥ COTTER PINS
60 assorted. Replacement Cotter Pins for Radio, Electrical and Mechanical work.
No. 16A566. Per Asst. **24c**

⑦ MOUNTING NUTS
15 assorted mounting nuts for Volume Controls, Switches, Etc.
No. 19A979. Per Asst. **24c**

⑧ SNAP-IN TRIMOUNTS
30 assorted. Handy for use in place of screws to fasten dials, built-in aerials, and other parts.
No. 18A5. Per Asst. **24c**

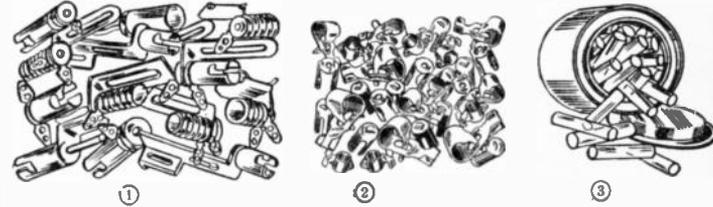


(A) SPEAKER SHIMS
Kit of 16 assorted Swedish Steel Shims, very flexible — a permanent tool, packed in handy case.
No. 11A158. Per Kit. **41c**

(B) SPEAKER CONE PATCHES
12 assorted patches. A quick means of patching speaker cones. Made of specially fabricated material and adhesive which forms a permanent bond.
No. 16A430. Per Asst. **24c**

(C) VOICE COIL DUST FELTS
25 assorted. Felt disc same as used on speaker voice coils to keep dust out. Can be glued on any speaker.
No. 16A567. Per Asst. **24c**

(D) RADIO & PHONO DRIVES
Kit of 25 assorted popular rubber friction drives for all popular models.
No. 18A70. Per Kit. **88c**

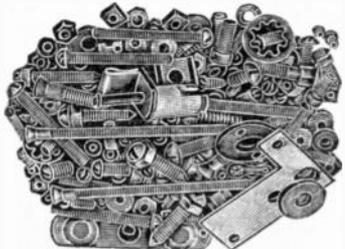


① PILOT SOCKETS
10 assorted dial light sockets in various popular types.
No. 18A1. Per Asst. **45c**

② GRID AND PLATE CAPS
25 assorted Grid and Plate Caps in popular Transmitting and Receiving types.
No. 18A205. Per Asst. **30c**

③ PLASTIC INSULATION
Approximately 50 pieces, in handy metal container. 1" lengths of flexible synthetic tubing for wire splices and insulating lug shanks or wire at soldered connections, etc.
No. 17A375. SPECIAL, PER CAN. ONLY. **18c**

Look! at This Bargain

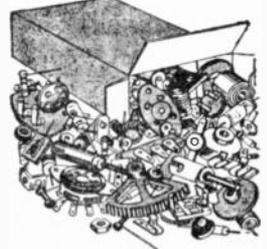


500 PIECES HARDWARE 95c
Contains quite a wide variety of screws, nuts, washers, grommets and miscellaneous radio and general purpose hardware and fittings. A very handy collection to have around for anyone who does tinkering or repairing of any nature.
No. 3A66. Asst. of 500 pieces. **95c**



Phone Set Screws 97c
18A343. 10 Asst.
Assortment of 10 most popular sizes.

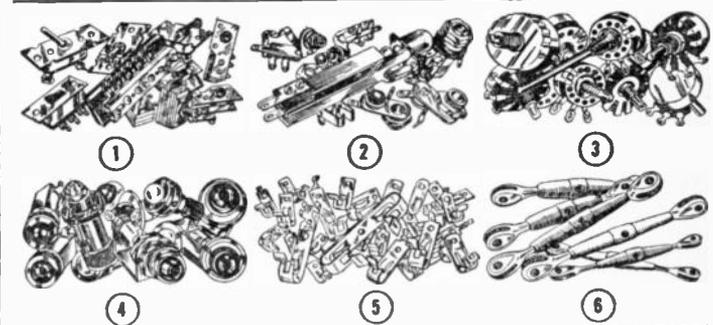
"SWEEP UP" Assortment



Approx. 50 pieces of odds and ends of condensers, resistors and misc. parts as used in factory production lines. All of it is good usable stuff — and the price is cheap so you will get your money's worth.
No. 3A71. Sweep-up Asst. **50c**

SPAGHETTI ASSORTED 15c
A neat bundle of 24 pieces, each 9" long, varnished high grade tubing in assorted popular sizes.
No. 18A69. Per Asst. **15c**

PLASTIC TUBING 95c
100 Feet in 25-ft. coils of 4 popular sizes.
No. 3B45. Per Asst. **95c**



① SWITCHES 95c
10 assorted—toggle, push-button and slide type switches.
No. 16A935. Per Asst. ONLY. **95c**

② JACKS 95c
10 assorted long and short type frames, both open and closed circuits.
No. 18A937. Per Asst. ONLY. **95c**

③ VOLUME CONTROLS 95c
10 assorted of quality makes. Your Money's Worth.
No. 18A934. Per Asst. ONLY. **95c**

④ PANEL LIGHT ASSEMBLIES 95c
10 assorted, a variety of colors. All for standard base panel bulbs.
No. 18A14. Per Asst. ONLY. **95c**

⑤ FAHNESTOCK CLIPS 19c
25 assorted of various sizes and types.
No. 17A267. Per Asst. ONLY. **19c**

⑥ TURN-BUCKLES 95c
6 assorted in pairs. Fine quality. Brass barrels — high tensile strength steel forks and eye.
No. 18A936. Per Asst. ONLY. **95c**

BULB REMOVER 24c
Rubber tool for removing practically every type pilot bulb from places awkward to your fingers.
No. 12A399. Each. **24c**

Needed Little Things

HANDY HARDWARE ASSORTMENTS in GLASS JARS



MACHINE SCREWS

100, cadmium and nickel plated steel and brass screws in most popularly used sizes in round, flat, oval and binder heads. An assortment that is handy for all purpose needs. In handy glass jars.

No. 19A961. Per Asst. **38c**

100, 6-32 machine screws, assorted heads, length and finishes, in handy glass jar.

No. 19A1055. Per Asst. **44c**

No. 19A1086. As above except all 8-32 machine screws.

Per Asst. of 100. **47c**

No. 19A1087. As above except all 10-32 machine screws.

Per Asst. of 100. **55c**

HEXAGON NUTS

100, steel and brass nickel and cadmium plated to fit screws contained in screw assortment at left. All in handy glass jar.

No. 19A962. Per Asst. **47c**

WASHERS

100, metal, cadmium and nickel plated plain, various types shake-proof, fibre, bakelite and lock type in sizes that go with screws at left. All in handy glass jars.

19A963. Per Asst. **25c**

SOLDERING LUGS

100, assorted various types and sizes, handy for anyone who does any soldering with wire.

19A964. In glass Jar. **30c**

HOLE PLUGS — RIVETS — EYELETS — CABLE CLAMPS



SNAP BUTTON HOLE PLUGS

100 assorted of most useful sizes, metal button with spring flanges.

No. 18A10. Per Asst. **24c**

RIVETS — EYELETS

55 assorted in sizes and types needed in Radio Work.

No. 18A6. Per Asst. **24c**

CABLE CLAMPS

50 assorted of metal and bakelite, various sizes.

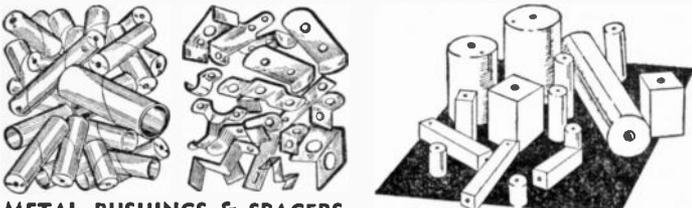
No. 19A1073. Per Asst. **45c**

CABLE CLAMPS — FUSE CLIPS

25 assorted brackets, cable clamps, and fuse clips. Very Handy.

No. 19A1065. Per Asst. **25c**

BUSHINGS — SPACERS — BRACKETS — COIL FORMS — STAND-OFF INSULATORS



METAL BUSHINGS & SPACERS

25 assorted metal bushings and spacers, some are tapped for 6-32 and 8-32 machine screws, others are plain. Handy for countless needs.

No. 18A20. Per Asst. **39c**

MOUNTING BRACKETS

25 assorted of many types and sizes straight and angle mounting brackets. Handy for a wide variety of mtg. needs.

No. 18A7. Special, Per Asst. **35c**

STAND-OFF INSULATORS

25 assorted, finest grade ceramic insulators. A variety of sizes square and round tapped for machine screws, also included are several sizes of Steatite bushings.

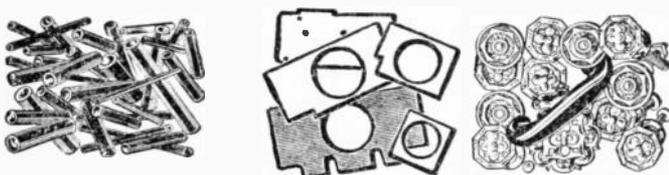
No. 19A978. Per Asst. **50c**

COIL FORMS

25 assorted paper forms from 1 1/4 to 3 1/4" long and 7/16 to 3/4" dia. Wind your own coils.

No. 17A289. Per Asst. **25c**

BAKELITE STRIPS — BAFFLES — DRAWER PULLS



BAKELITE & FIBRE

Approx. 50 pieces. Tubing and solid rod—various dia. Make your own insulating washers, bushings, spacers, screwdrivers, etc.

No. 18B202. Special, Per Asst. **39c**

DRAWER PULLS & HANDLES

12 assorted styles and shapes and finishes. Ideal for replacement of those broken or lost handles. All very good values.

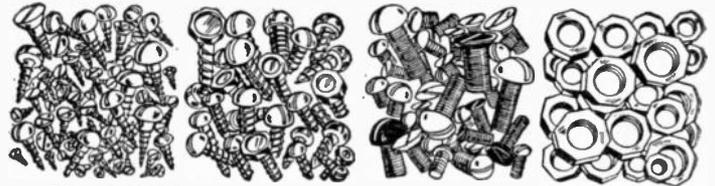
No. 19A1066. Per Asst. **65c**

BAFFLES — CABINET BACKS — ETC.

15 assorted pieces, cabinet backs, baffles, and miscellaneous handy items. No. 3A18. SPECIAL. PER ASSORTMENT, ONLY. **35c**

IN HANDY ASSORTMENTS

POPULAR MISCELLANEOUS HARDWARE



BRASS WOOD SCREWS

1/4-lb. pkg. approx. 200 pieces. Assorted of most popular diameter and lengths.

No. 19A969. Special, Per Pkg. **52c**

TAP SCREWS

100 assorted, regular self-tapping screws in popular sizes.

No. 19A953. Per Pkg. **50c**

MACHINE SCREWS

100 assorted of many types and sizes, a most handy pkg. in any shop.

No. 19A973. Special, Per Asst. **32c**

SET SCREWS

50 assorted headless and with heads for knobs and other uses.

No. 19A971. Per Pkg. **25c**

HEXAGON NUTS

100 assorted 4/36, 6/32, 8/32 and other popular sizes.

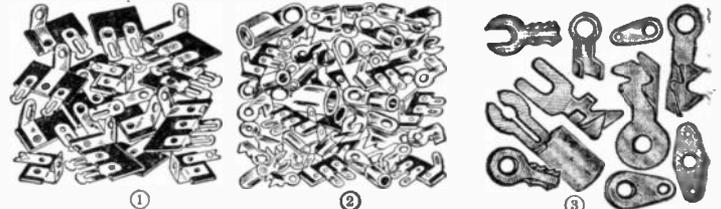
No. 19A974. Per Pkg. **41c**

ORNAMENTAL HEAD SCREWS

15 assorted of 6/32, various lengths, statuary bronze with rosette heads.

No. 19A980. Special, Per Asst. **24c**

TERMINALS — CONNECTORS — LUGS — CABLE CLAMPS



① TERMINAL STRIPS

25 assorted terminal strips with lugs attached. Always needed in Radio Work.

No. 18A9. Special, Per Asst. **35c**

② TERMINALS & CONNECTORS

100 assorted of solderless type that can also be soldered.

No. 18A25. Per Asst. **49c**

③ LUGS & TERMINALS

100 assorted terminals and lugs as illustrated. A very handy asst.

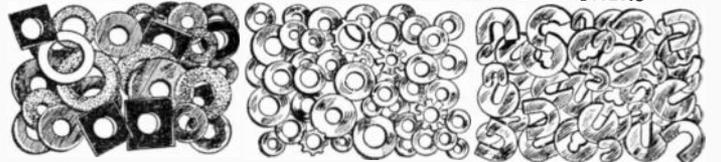
No. 19A1069. Special, Per Asst. **45c**

LUGS & CABLE CLAMPS

100 assorted in varied types and sizes. Included are cable clamps and small clips, etc.

No. 18A8. Per Asst. **35c**

BAKELITE, FIBRE, VELLUTEX and METAL WASHERS



BAKELITE — FIBRE WASHERS

100 assorted bakelite and fibre plain and shoulder washers, spacers, etc. Many varied types.

No. 19A975. Per Asst. **39c**

FIBRE WASHERS

100 assorted, FLAT and EXTRUDED type fibre washers.

No. 19A966. Per Asst. **45c**

FLAT BAKELITE and FIBRE

100 assorted FLAT BAKELITE and FIBRE washers.

No. 19A967. Per Asst. **45c**

VELLUTEX INSULATING

100 assorted, hole sizes 6, 8, and 10. Very handy insulating washers.

No. 19A977. Special, Per Asst. **25c**

METAL WASHERS

100 assorted many sizes; flat, shake-proof, split washers, etc. Plated finish.

No. 19A968. Per Asst. **15c**

"C" WASHERS

50 assorted. Handy for servicing volume controls, etc.

No. 19A965. Per Asst. **24c**

GROMMETS — CHASSIS MOUNTS — BUMPERS



RUBBER GROMMETS, CHASSIS MOUNTS AND BUMPERS

50 assorted rubber items so often needed in Radio and Electrical Work. Included are sponge rubber blocks, washers for floating condensers, etc.

No. 19A976. Per Asst. **60c**

GUM RUBBER GROMMETS

15 assorted of various dia. Gum Rubber Grommets.

No. 18A22. Per Asst. **24c**

RUBBER MOUNTS

20 assorted of various dia. and thickness. For use any place cushioning is desired against vibration.

No. 18A23. Per Asst. **39c**

PLAIN RUBBER GROMMETS

15 assorted of various diameter plain rubber grommets.

No. 18A21. Per Asst. **24c**

SCREW TYPE TERMINAL STRIPS

10 Assorted of Two, Four and Five terminals.

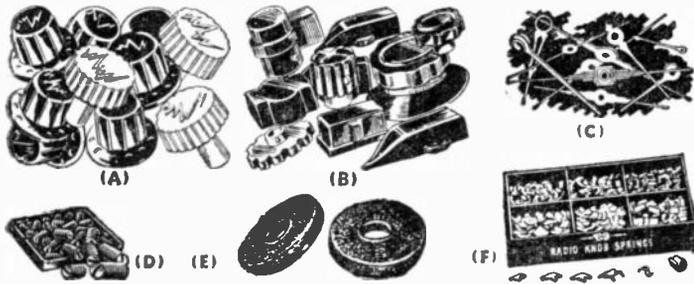
No. 17A820. Special, Per Asst. **35c**

B-A Handy-Popular

ASSORTMENTS

BUY THESE ASSORTMENTS WITH CONFIDENCE . . . EVERY PIECE BRAND NEW — PERFECT! B-A quantity purchases bring them to you at worth while savings. In many instances the value of one piece alone is worth more than the price shown for the complete assortment. EVERY ONE AN OUTSTANDING VALUE!

KNOBBS — DIAL POINTERS — ACCESSORIES



(A) BAKELITE KNOBS
20 Assorted, Brown, Black and Ivory knobs, push-on type to fit standard 1/4" knurled shafts as used on most makes of sets.
No. 17A286. Per Asst. of 10... **39c**
25 Assorted includes types as above and others.
No. 18A850. Per Asst. of 25... **79c**

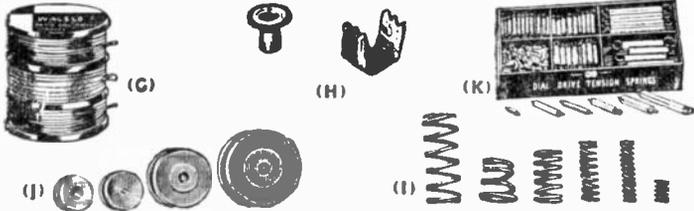
(B) KNOBS FOR AMPLIFIERS, TRANSMITTERS, ETC.
Contains 10 quality Bakelite knobs such as used on Amplifiers, Transmitters, etc. All fit 1/4" shafts and are complete with set screws, the kind that usually cost you up to 25c each.
No. 17B679.
Per Asst. of 10... **65c**

(C) DIAL POINTERS
10 Assorted pointers for replacement needs on many makes of sets.
No. 12A1171. Per Asst. of 10... **50c**

(D) SET SCREWS FOR KNOBS
25 Assorted of various lengths of 6-32, 8-32 and 10-32 screws. Handy for replacements on radio sets, etc.
No. 18A3.
Per Asst. of 25... **65c**

(E) KNOB FELTS
50 Felts as used behind radio knobs on all the latest sets.
No. 18A2. Per Env. of 45... **24c**

(F) PUSH-ON KNOB SPRINGS
35 Assorted of the most popular types. A handy kit for any shop.
No. 18A4. Per Kit of 35... **50c**



(G) ASSORTED CABLE SPOOL
A sectioned spool containing 15 feet each of the three most popular types dial cable.
No. 11A71. Per Spool... **\$1.47**

(H) CABLE CLAMPS, EYELETS
60 Assorted. Same as used on ready made dial cables. Make up your own cable and belts
No. 11A72. Per Assortment... **24c**

(I) DIAL CABLE CLIPS
Envelope of 50 clips (ONLY). For use on all types of Dial Drive Cord assemblies. Make up your own special cords with these clips.
17A1009. Env. of 50 Clips... **24c**

(J) COMPRESSION SPRINGS
Assortment of 20. For use on dials, push-button tuners, phono motors, etc.
No. 17A1010.
Per Assortment of 20... **24c**

(J) BRASS DIAL PULLEYS
Kit of 6 Assorted Idler dial pulleys, several sizes included.
No. 17A1011. Per Assortment... **24c**

(J) FIBRE DIAL PULLEYS
Kit of 10 Assorted Idler dial pulleys, several sizes included.
No. 11A80. Per Assortment... **24c**

(J) ALUMINUM DIAL PULLEYS
Kit of 10 Assorted Idler dial pulleys. Precision made, distortion free—non-warping. Handy for replacements.
No. 15A1116.
Per Assortment... **19c**

(K) DIAL DRIVE SPRINGS
Kit of 25. Contains 6 sizes to take care of any dial job.
No. 11A77. Kit of 25... **70c**
11A78. Pkg. of 10 assorted springs of various sizes... **24c**
11A79. Pkg. of 10 assorted small dial springs... **24c**

LOOK! at this "RED-HOT" BARGAIN CARBON BRUSH ASSORTMENT

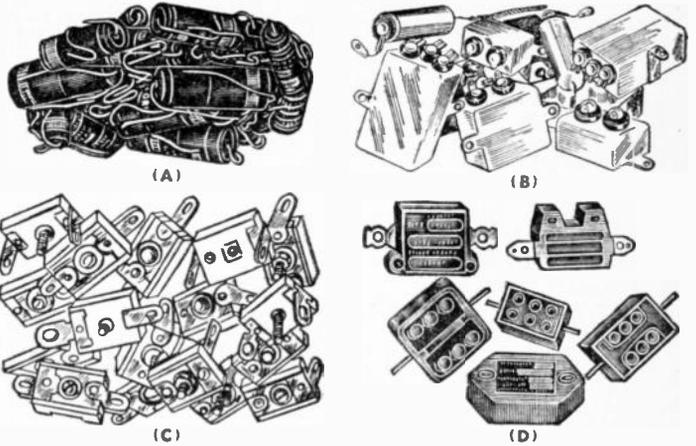


50 ASSORTED of various sizes and shapes, some with springs and others with leads as illustrated. There is a brush for almost any job or if need be brushes can be easily altered to fit.

No repair or serviceman should be without this handy assortment. Truly An Outstanding Value!

No. 19A1068. Special Per Assortment... **65c**

HANDY CONDENSER ASSORTMENTS

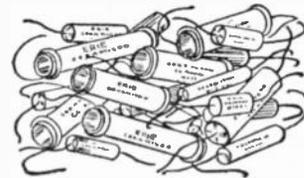


(A) TUBULAR CONDENSERS
A handy assortment of 25 paper tubular condensers in good useable capacities and voltages, quality standard makes.
No. 18A203. 25 Asst. ONLY. **99c**
Kit of 25 Paper Tubulars, 5 each .01, .02, .05, .1, .5 mfd., all 600 volt.
No. 21T3999.
SPECIAL PER KIT... **\$2.85**

(B) OIL FILLED CONDENSERS
10 Assorted popular capacities, tubular and bath-tub types.
No. 18A968. Per Asst. of 10... **95c**

(C) TRIMMER CONDENSERS
25 Assorted quality ceramic trimmer condensers popular capacities. Regular cost up to 20c each. You can afford to have several assortments, even if the use is only occasional.
No. 18A156. PER ASST. ONLY. **65c**

(D) MICA CONDENSERS
TEN, Assorted top quality makes, including high voltage transmitting types. One or Two in the assortment at regular prices would cost as much as the assortment of 10.
No. 18A633. Per Asst. ONLY... **75c**



CERAMIC CONDENSERS

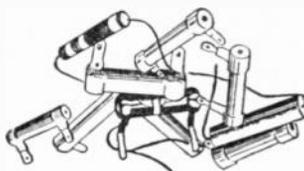
KIT OF 10 fixed condensers now so popular. Assorted capacities, minimum voltage 500 Volt DC both zero and negative temperature coefficients. The use of any one will pay for the entire lot. AT THIS PRICE YOU CAN AFFORD TO BUY SEVERAL.
No. 17A376.
PER ASSORTMENT OF 10 ONLY **39c**

KIT OF TEN MOLDED PAPER CONDENSERS



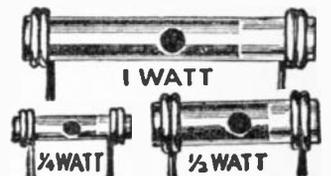
Bakelite molded wax impregnated with pig tail leads. Standard RMA color coded. Excellent, dependable substitutes for mica or paper tubular condensers. KIT OF 10 POPULAR CAPACITIES AND VOLTAGES. **75c**
No. 18A827. SPECIAL PER KIT...

SAVE ON THESE RESISTOR KITS



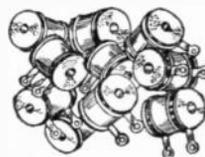
WIRE WOUND RESISTORS

10 Watt, wire wound resistors handy for service and other needs. All quality makes in good useable capacities with lugs or pigtail leads.
No. 18A801. A REAL BUY. **95c**
Assortment of TEN...

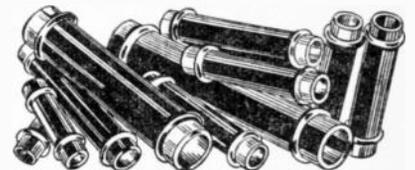


NON-INSULATED CARBON RESISTORS

100 Assorted. (25 1-watt, 25 1/2-watt and 50 1/4-watt.)
18A71. Box of 100... **\$1.45**
200 Assorted. Good sizes in 1/4, 1/2, 1 and 2-watt.
18A73. Box of 200... **\$2.45**
FREE. Handy Color Code Chart with each of the assortments listed.



PRECISION RESISTORS
10 ASSORTED IRC and Shallcross wire wound precision resistors, accurate within 2%. A variety of capacities. Any One Resistor is usually priced what we ask for the TEN.
No. 17A379. Per Asst. ONLY **\$1.95**

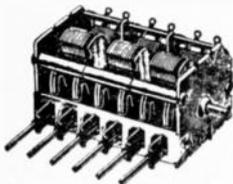


WIRE WOUND RESISTORS FERRULE TYPE

Contains TEN Wire Wound Ferrule Type Resistors in popular capacities. Ideal for experimenters, Etc.
No. 18A93.
Special, Per Asst. of TEN... **79c**

HERE—on the next page—the next and the next are hundreds of good reasons why thrifty buyers go so strong for B-A.

"AM"—"FM" VARIABLE



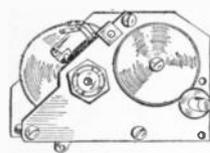
3-gang, push-button type. Each "AM" section Max. Cap. 420 Mmf., Min. 13.5 Mmf. Each "FM" section Max. Cap. 15 Mmf., Min. 6 Mmf. Push-button selection for 6 stations—can be removed. Shaft 1/4" dia., 5/8" long. Shipping weight, 3 lbs. No. 3A144. Each..... **59c**

JOHNSON 12C130 Neutralizing Condenser



12 max.—6 min. m.mfd. 13,000 V. 3 plates. 500 spacing. Micolex end plate with 3 mtg. holes, 1/4" shaft, 3/4" long. Panel mtg. spoce 5 1/2 x 4 3/4 x 2 3/8". No. 3B29, Special Each..... **\$1.95**

GEAR DRIVE MECHANISM



Frankly, we don't know what it's for, but it contains some beautiful gears, etc. Has lots of possibilities for the "gimmick" minded. We guarantee you will get your money's worth or we will refund. No. 19B852. Each..... **35c**

24-IN. REMOTE CONTROL SHAFT AND CASING



For auto radios or experimental applications. Sturdy, flexible with shaft end fittings for standard 1/4" shaft couplers. Ideal as front panel control of phono amplifiers, tuners, transmitter antenna coupling links, etc. No. 19B1046. 25c 10 Lots. 22c Each.....

BRONZE NAME PLATES



Modernistic design, rectangular shape 1 1/4" wide, 1 1/2" high. "OFF-ON-VOLUME" No. 15A1123. "BASS-TREBLE-TONE" No. 15A1124. CHOICE, EACH **12c**

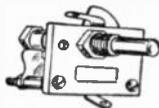
4-FT. AUTO ANTENNA LEAD OR EXTENSION



Top grade cable, shielded and vinylite jacket overall. With standard antenna plugs attached each end. No. 18A412. 35c 10 Lots. 29c Each.....

Every item is new . . . perfect. The B-A reputation for honest, dependable and friendly dealings protect your every purchase.

CARDWELL VARIABLE MIDGET CONDENSERS



CHOICE, EACH..... **29c**

Ceramic insulation; panel mtg. with 1/4" shafts of suitable length. No. 19B762 2-3.5 19B761 2-5 18A1111 3-16

DUAL MIDGET VARIABLE



No. 17B173. 29c 10 Lots. 23c Each.....

Each section has fixed capacity of 80 Mmf. and a variable capacity of 40 Mmf. Screw-driver adjusted.

AT LESS THAN ONE-HALF REGULAR PRICE

2-WATT NEON 2 1/2-WATT ARGON BULBS



S14 Med. screw base fits standard sockets. 110-volt AC or DC. Popular as RF indicators and are "tops" as nite lights. Long lasting, low current consumption. Buy them at less than one-half regular net cost. No. 20A201. 2-WATT NEON. Redish Glow. 25c Per Box of 10. \$1.95 20A202. 2 1/2-WATT ARGON. Purple Glow. 23c Per Box of 10. \$1.85

TAPPED RESISTOR



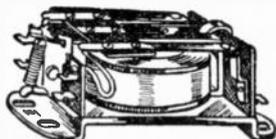
Vitreous enameled wire wound with two separate sections, 100 ohms at 7 watts and 750 ohms at 5 watts, tapped at 350 ohms. No. 17A275. Special, Each... **50c**

LOCKING CLAMPS



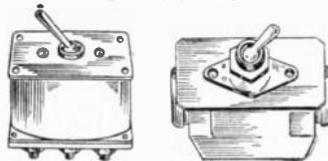
Plated Steel Band with integral locking device and mounting bracket. For holding tubes and other cylindrical components securely in place. The universal bracket makes it adaptable for many applications. For 1 1/8" dia. tubes or components. No. 18A590. Each..... **10c**

RELAY BARGAIN!



TWO Pole Single Throw normally open. Has 10 ampere contacts. Coil voltage 24V. D.C. Resistance 265 ohms. Easily rewound. Size 1 3/8 x 1 1/2 x 2 1/2" long. Leach type 1024. No. 17B661. SPECIAL EACH..... **49c**

HEAVY DUTY TOGGLE SWITCHES



① CH Type 8782K6 S.P.D.T. Rating 175 amps. at 24 volts DC, therefore at least 75 amps. at 110-volt AC. Ideal as main power switch on lighting panels, motors, Ham rigs, etc. Mounting plate size 2x3 1/4" with 1 1/2" mounting centers, overall depth 3" including heavy screw terminals. A Husky Switch with 1 1/2" bat handle. Metal encased, bakelite insulation. No. 18A1110. **\$1.95**

② CH S.P.S.T. Bakelite enclosed bat handle toggle. Rated at 20 amps. 250 volts AC or 1 HP motors. Standard single hole panel mount. Body size, 2 5/8 x 1 1/16 x 1 1/4". No. 18A1107. Each..... **\$1.45**

③ CH S.P.S.T. Bakelite enclosed bat handle toggle. Rated at 20 amps. 250 volts AC or 1 HP motors. Standard single hole panel mount. Body size, 2 5/8 x 1 1/16 x 1 1/4". No. 18A1107. Each..... **\$1.25**

G.E. SWITCHETTE

Type B3, S.P.S. T., norm. open. Snap action momentary switch for limited space applications. Size only 1 1/4 x 1/2" of black bakelite. Operates by snap action of built-in spring return button. Contacts of pure silver. No. 18A951. Special, Each..... **39c**

Type C3, D.P.S.T. 10 Lots 35c No. 18A952. Ea. 40c Each.....

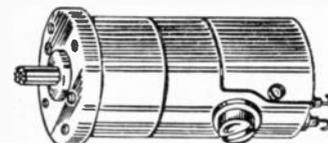
PUSH-BUTTON SWITCH

Normally open, spring return, insulated from shell, bakelite button. Panel mounting in 5/8" diameter hole up to 1/4" thick. No. 18B103 15c 10 Lots. 12c Each.....

METAL CLAD MICRO SWITCH

Sealed Housing Type Y Z 2-7RNT2 Norm. Open. For use where equipment is washed frequently or switches operate in oil or dust laden air. Has Q type plunger with molded bellows seal of synthetic rubber that withstand millions of flexures. No. 19B790. Special, Each **\$1.15** 10 LOTS. **95c** Each.....

BARGAIN! MIDGET ELECTRIC MOTOR THE SLICKEST LITTLE MOTOR WE'VE SEEN YET!



Operates on 12-volt DC, 1.4 amps. Speed 5600 RPM. Shunt wound. Supplied with simple instructions for conversion to 40-volt AC or 110-volt AC. Case is bright aluminum alloy, size 4 1/4" long overall, 1 3/4" diameter. Has splined (gear toothed) shaft 1/4" diameter extending 1/2". Made by John Oster Mfg. Co., type B-9-2 for government use. Original cost of probably over \$10.00. No. 3A134. While They Last **\$1.49** No. 17A478. 6 Mfd. Condenser required for operation of motor on 110-volt AC. Each..... **85c**

CRYSTAL MIKE
Well known make. Frequency response 30/6000 cps.; good bass response. High output; 52 db. Complete with 7 ft. cable. Base is removable. An outstanding BUY!
No. 20A873. At Only. **\$5.45**

JK24 JACK
Circuit Opening, long frame type—fits PL55 and all standard phone plugs. Has 9/16" shank, mounts with 6-32 diameter Machine Screw. No. 15A2055. 12c 10 Lots. 10c Special, Each.....

DOUBLE PHONE PLUG



A two-way phone plug. Will accommodate 2 sets of headphone tips or lugs. Fits all standard jacks. Handle is molded bakelite. Metal parts are nickel plated brass. No. 17A793. 25c 10 Lots. 23c Special, Each.....

SHIELDED MIDGET PHONE PLUG
Has screw-on nickel plated barrel. Plug is provided with handy solder lugs. Barrel length 3/4 x 1/2" diameter. Fits all standard jacks. No. 19B620. A "Buy" at Each..... **25c** 10 Lots. **23c** Each.....

HEAVY DUTY PHONE PLUG
Just it for Labs. and uses where a high voltage rugged plug is required. Heavy all brass construction well insulated. Comes with screw-on spring cord strain protector. Regularly worth several times the price we quote. Fits all standard jacks. No. 18A409. 95c 10 Lots. 85c Each.....

W.E. HEADBAND AND DOUBLE PHONE CORD
Western Electric Headband No. D-141421 leatherette covered on spring steel, fully adjustable with thumb screw locks. An ideal replacement for phones of 1 3/4" diameter receivers. No. 17A824. 75c 10 Lots. 60c Each.....

DOUBLE PHONE CORD No. 584, 4 ft. 3" long, is of top quality. Fits phones with pin terminals including HS23, HS33, etc., thus converting those types to standard cord. No. 18A1109. 65c 10 Lots. 55c Each.....

LEAD-IN BOWL
1 5/8" hole. For lead-in purposes at high voltages. No. 18A175. Each. **5c**

THE POPULAR TYPE HS30 TINY 8000-OHM HEADPHONES

Highly sensitive. Very compact, light weight, and equipped with ear fitting rubber cushions designed to shut out outside noises. Phone units are precision built and small, similar to those used on hearing aids. Metal headband can be shaped to comfortably fit contour of head. Furnished complete as shown with Y-shaped, flexible, rubber-covered head-set cord, spring clip clothing fastener, high impedance transformer and 6-ft. 2 conductor rubber covered extension with PL55 plug. Priced at a small fraction of original government cost. Every one brand new.



No. 17A420. Per Pair... **\$1.59**

HEADPHONE ASSEMBLY

Type ANBH1 receivers as used on the popular type HS33 and HS38 military phones and exact replacements for broken or defective units that occur in those widely used phones. Assembly consists of two receivers attached to cord (can be removed) and PL54 phone plug. Brand New.

No. 18A1011. Per Assembly... **65c**
10 LOTS. **50c**
Per Assembly.....

Matching TRANSFORMER 6-Ft. Cord and PL55 Plug

Transformer converts to Hi-impedance (8000-ohm) phones such as HS30, HS33, HS38, HS16 and others. Can also be used as a carbon mike transformer. Supplied with rubber phone cord and PL55 plug alone worth the price we ask for all. Brand New.

No. 14A685. Complete. Each **50c**
10 LOTS. **45c**

TYPE HS16 PHONES

A value! At the price we show. Adjustable head band and stand-ard 6-foot cord, use with above transformer for a truly hi-impedance extra sensitive all purpose set of phones. Brand New.

No. 5A169X. Per Set... **\$1.45**

6 1/2-FOOT PHONE CORD

Tinsel two-conductor, flexible, rubber covered. Extremely rugged and long wearing. Made to government specifications.

No. 17B648. A Buy! **16c**
Each... **14c**

JK33 MIKE JACK

Fits WE No. 109 and Army Nos. PL46, PL68 and PL168 mike plugs.

No. 18A839. **12c**
Each... **10c**
10 LOTS.

HANDY PARTS JARS

2 oz. glass, size 2" dia. x 1 3/4" high. Metal screw lids.

No. 3A24. **85c**
Per Doz.....
Carton of 48... **\$2.50**

CENTER OFF

S.P.D.T. TOGGLE SWITCH



CH Type AN-3022-1B. Rated at 35 amps at 24-volt and 5 amps at 125-volt. Mounting centers 1 13/16" on mounting plate 3/4 x 2 1/16".
No. 18A29. **30c** Lots of **28c**
Special, Each. 10. Ea.

D.P.D.T. CENTER-OFF TOGGLE SWITCH

C.H. — rated 20/30 amp. at 125 volts AC. Has mtg. plate size 1 1/2 x 2 1/16" with 13/16" mtg. centers.
No. 17A797. A Buy! **85c**
Each... **75c**

C.H. MOMENTARY CONTACT SWITCH

Normally Off... "ON" when lever is held down, spring return to "OFF" when released. Rating 5 amps. at 125-volt AC. Mounting plate 3/4 x 2 1/16", mtg. ctrs. 1 13/16".
No. 18A27. **15c** 10 Lots. **12c**
Each... 10. Ea.

FLEXIBLE NECK FLASHLIGHT

Water, Vapor, Shock — Most Everything Proof. 13" steel neck, flexes to any position for getting into dark spots—bulb encased against breakage. Case of sturdy bakelite. Cost government around \$5.00. Uses two standard battery cells and bulb. Bulb included, less batteries.
No. 16A402. Brand New. Each **95c**

LOOK! ONLY \$2.95

G.E. Variable Reluctance Pick-Up

- Exceptional High Fidelity
- Permanent Sapphire Stylus
- Long Life—Low Record Wear

The identical Type DLIRM6C, with permanent sapphire needle pick-up of which thousands were sold at \$4.68 Net Each.
No. 17A819. Brand New. **\$2.95**
Perfect. While They Last **\$24.95**
10 For.....

MIDGET SENSITIVE RELAYS

2 MA. S.P. S.T. 6500-ohm coil, size overall 1 3/8 x 1 3/16 x 1". Ideal for use in plate circuit or photo cell work.
No. 19A27. **95c** Lots of **85c**
Each... 10. Ea.
24-VOLT AC OR 6-VOLT DC
One contact S.P.D.T., another S.P.S.T. intermittent duty. Can also be used on 6-volt DC continuous duty. Size overall, 1 3/8 x 1 5/8 x 1".
No. 19A28. **85c** Lots of **75c**
Each... 10. Ea.

AMPLIFIER CHASSIS

Punched and drilled for several tubes, power transformer, filter condenser, etc. Extra heavy welded construction. Size 12 1/4 x 7 1/2 x 1 1/8" deep.
No. 3B77. Special, Each... **65c**

STEATITE SOCKETS

With slotted mounting plate to mount on 1/2" to 1 7/8" centers.
4-PRONG
No. 18A831. **14c** Lots of **12c**
Each... 10. Each
OCTAL
No. 18A832. **15c** Lots of **13c**
Each... 10. Each
Octal Less Plate. Supplied with mounting ring, otherwise as above.
No. 18A833. **10c** Lots of **8c**
Each... 10. Each..

OUTDOOR SPEAKER

Jensen NF300 Speech-Master. 10 watts; VC imp. 12 ohms. Extremely rugged, built to withstand shock and vibration. Over-rides wind and high background noise. Accentuates speech frequencies, can be used as talk-back mike in intercoms. Alnico V magnet, molded phenolic diaphragm. Enclosed in metal case with protective front screen, 6 7/16" dia. x 2 1/8" deep. Has flange rim for panel mounting if desired. Weight, 3 3/4 lbs.
No. 36A85. A Buy! At Only **\$9.95**

78 RPM MOTOR

Supplied with 9" rim drive turntable. For 110-Volt AC.
No. 31A67. A Steal. Each **\$1.29**

AIRPLANE SIGNAL FLASHING BULBS

G.E. 1038—12.8-VOLT
Double contact, Bayonet base, 3-amp. DC.
No. 18A199. **\$1.50**
Per Box of 10.
G.E. 1047—26-VOLT
Single contact, Bayonet base, 2.7-amp. DC.
No. 18A200. **\$1.50**
Per Box of 10.
G.E. 12-16 VOLT 15 C.P.
Double contact candelabra base.
No. 17B663. **\$1.50**
Special, Per Carton of 10...

100 MMFD. MIDGET VARIABLES

No. 18B511. What a Steal! **TEN for \$1.95**
Ceramic insulated, finest quality, BRAND NEW Padder condensers adaptable for a wide variety of uses. Mounts behind panel with 6-32 screws. Screw-driver adjustment at panel front.
Remember... the B-A reputation for honest, dependable and friendly dealings protect your every purchase.

PORTABLE KIT-VISE

Stronger than a Wrench. Just as handy. Advanced type jaws spring open instantly to 2 1/4". Pipe jaws will hold pipe or rod from 1/4" to 1 1/2". V-type jaws will hold wire upright or horizontal. Fits anywhere... on top, at side, or beneath work bench... handy for the tool kit, weight less than 3 lbs.—but its sturdiness will surprise you. Regularly a \$2.80 Value!
No. 16A530. Special, Each... **95c**

MARKER BEACON RECEIVER

Type BC-1023A. Consists of four tubes, 6SQ7, 6U6GT, 6SC7 and 12SH7. Adjustable 16,000 ohm, S.P.D.T. relay, etc. Assembly slides out of a neat aluminum cabinet, overall size 3 1/2 x 5 3/8 x 5 3/8". Will receive modulated signals on 75 MC band. Variable tuning for coverage of 62-80 MC without circuit changes. For 12 to 14-volt DC. Can be adapted to radio control for various devices, for taxi receivers, to open garage doors, etc., or for the parts and cabinet alone it is an outstanding value! Brand New in original factory packing.
No. 36A64. Special, Each **\$3.95**

SMALL PARTS CABINET

A sturdily built bass wood cabinet ideal for storage of hardware, resistors, condensers and other small parts. Has 6 drawers with 4 compartments each. Overall size 9x7x5 5/8". Polished Varnish finish.
No. 36A8. Net Each... **\$3.45**

STEEL STOCK CABINET

Ideal steel drawer type cabinet for radio parts, etc. Made so cabinets can be stacked on top of each other. Size, 13 1/2" long, 6" wide, 4" high.
No. 36A51. **\$1.29**
Each.....

HANDY CARBON MIKE

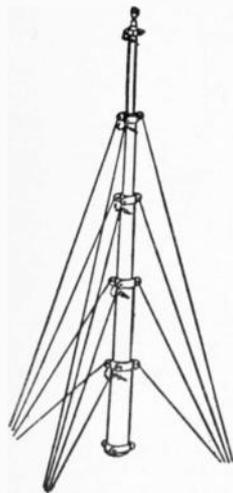
Has press-to-talk switch in rubber-covered flexible cord 4 1/2 ft. long, complete with plug.
No. 17A419. Every One Brand New. **SPECIAL, 95c**
EACH.....

INSULATED SPIN HEX NUT DRIVER

5/8" diameter, 6" long. 1/4" hex socket with long hollow shaft. Attached pocket clips. Shock-proof and break-proof.
No. 11A139. NET EACH... **59c**

MORE THRIFTY BUYS

41-FOOT TELESCOPING STEEL MAST



5 Sections, Collapses to 9 1/2 Ft. Extremely Sturdy. Bottom section outside dia. is 2 3/8" x 9 ft. high and the four succeeding sections are each 8 ft. high tapering to 1" dia. for top section. Top of each section is equipped with 3 hole guy wire rings. Sections extend easily and are held in position by heavy cross pins included.

Ideal and strong enough for TV antennas, amateur beams, flag poles, flood lights, etc. Top section can be removed for inserting standard TV mast assembly (up to 1 1/4" O.D.) as supplied with most TV antenna kits.

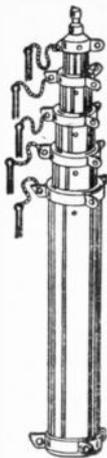
Built to Gov't Specs. B2 at a cost far in excess of our price so here truly is an exceptional buy on a real rugged mast. Brand New. No. 2A500. Shpg. Wt. 39 lbs.

While They Last, Special Each..... **\$24.88**

STRANDED GUY WIRE

6 strands No. 20 galvanized steel. Suitable for antenna masts and towers. (about 500 ft.) required for above mast.

No. 2A33, Supplied in 100 Ft. Coils. Per Coil..... **98c**



94-INCH TELESCOPING ANTENNA ELEMENT

Three sections—collapses to 40". Made of weatherproofed aluminum alloy tubing. Diameter, 1/2" at base, 1/4" at tip. Can be used to make up TV or amateur beams. Also fine for vertical "whip" type antennas.

No. 38B27. Special, Each..... **95c**

LOTS OF 6. Each..... **85c**



ANTENNA FEEDER SUPPORT

White porcelain, 3" high. 1 1/4" dia., hole dia. 3/8". Tapped for and supplied with 10-32 screw for mounting.

No. 18A1106. Special, Each..... **12c**

Lots of 10. Each..... **10c**

No. 17A391. 1 1/2" high. Otherwise as above.

Special, Each..... **8c**

LOTS OF 10. Each..... **6c**

MICRO SWITCHES RIDICULOUS LOW PRICES!

Type YZR31 S.P.S.T. Normally open.

No. 18A168. Each **45c**

10 Lots. Each..... **35c**

Type BZR5 as above.

S.P.D.T. No. 18A994. Each..... **50c**

10 Lots. Each..... **40c**



AMATEUR CRYSTAL KIT

Kit contains 3 Crystal Blanks approx. 50 to 10 KC. below fundamental freq. of 7,000 KC, can be ground to 7,000 KC or over (with abrasive included) to any desired freq. in amateur band. Fundamental freq. can be doubled and redoubled to become operative at 14 or 28 MC. or up. Included are Two holders complete with regular electrodes and springs and 2 additional sets of electrodes and 1 bag of abrasive. Instructions included.

No. 17A305. SPECIAL, PER KIT..... **79c**



FLEXIBLE PLASTIC TUBING at CRAZY LOW PRICES!

Handy for a variety of insulating needs . . . for wire, solder lugs, etc. Extremely flexible, resistance to abrasion, cold and heat. High dielectric strength.

100-FOOT ASSORTMENT ONLY **95c**

Consists of 4 25-foot coils; 2 coils .118" ID, 1 coil .106" ID, and 1 coil .148" ID. You would usually pay more for one coil than we ask for the four.

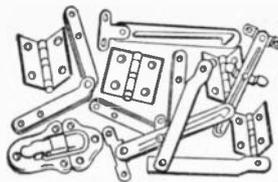
Stock No. 3B45. SPECIAL PER 100-FOOT ASSORTMENT..... **95c**

300-FOOT ASSORTMENT ONLY **\$1.95**

Consists of above and several other popular sizes. A value that would usually cost at least SIX TIMES this ridiculous LOW PRICE.

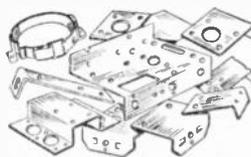
Stock No. 3B46. SPECIAL PER 300-FOOT ASST. ONLY..... **\$1.95**

CABINET HARDWARE ASSORTMENT



10 assorted pieces of hinges, cabinet lid supports and snap catch fasteners. Very handy for repairing or building carrying cases and cabinets. No. 19B1021. PER ASST..... **35c**

METAL MTG. BRACKETS and FASTENERS



10 assorted pieces, very handy for numerous mounting needs. No. 18A410. Special, Per Asst. **29c**

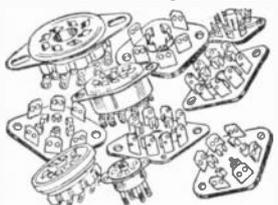
999-PIECE HARDWARE ASSORTMENT



Every Piece Clean, Bright and New. Contains machine screws, nuts, washers, solder lugs, rivets, self-tapping screws, etc., etc.—All good, useable types and sizes for which you will have need time and time again!

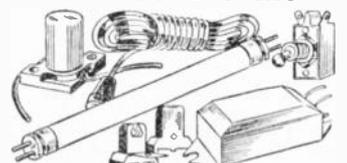
No. 3A36. Per Asst. **99c**

SOCKET ASSORTMENT



10 assorted, wafer, octal and miniature sockets. A Real Good Value. No. 18A111. PER ASSORTMENT..... **29c**

8-WATT FLUORESCENT KIT



All the electrical parts for constructing an 8-watt fluorescent light for closets, cabinets, special built-ins in kitchens, etc., or for illuminating pictures or backlighting displays. Dozens of uses will suggest themselves to you. Kit contains lamp, ballast, lamp sockets, starter, AC switch and 6-ft. cord and plug. With wiring instructions. Operates on 115-volt AC. No. 20B1. Per Kit..... **\$1.95**

Remember . . . the B-A reputation for honest, dependable and friendly dealings protect your every purchase.

PHONO JACK, PLUG and LEAD ASSORTMENT



Here are items that are almost in daily demand in servicing phono connections. Here is what you get for only 50c: 6 plugs, 2 jacks, and 2 26" flexible shielded leads. No. 16A547. Per Pkg. ONLY **50c**

ANTENNA HARDWARE FOR AUTO AERIALS



A handy and complete kit of parts, hardware, etc., for use with all makes of aerials having 5/16" dia. tubing.

STRAIGHT SIDE COWL MOUNTING No. 11A160. List Price \$1.25. Complete Kit, Each..... **73c**

SLOPING COWL MOUNTING No. 15A2032. List Price \$1.25. Complete Kit, Each..... **73c**

PUSH BACK WIRE ASSORTMENT



6 assorted plugs with attached wire leads, very useful in radio work. No. 20B2. Per Asst. of SIX..... **49c**

PUSH BACK WIRE ASSORTMENTS

Top quality, tinned copper with double cotton serve, wax finish, easy to push back. 150 Feet (Six 25-Ft. coils, each of different color in each assortment.)

No. 22B22. 22-Gauge, Solid. Per Asst. of 150 Ft..... **88c**

No. 22B23. 20-Gauge, Solid. Per Asst. of 150 Ft..... **94c**

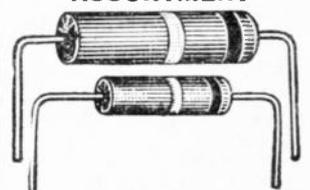
No. 22B28. 20-Gauge, Stranded. Per Asst. of 150 Ft..... **99c**

50-FT. COILS PUSH BACK WIRE

No. 18B35. 18-Gauge, Solid. (Color Black.) 50-Ft. Coil... **39c**

No. 18B30. 18-Gauge, Stranded. (Color Yellow.) 50-Ft. Coil **43c**

INSULATED RESISTOR ASSORTMENT



Contains all most popular capacities. 100 assorted, 50 each 1/2 and 1 watt.

18A74. Per Assortment **\$1.95**

100 assorted, 50—1/2 watt, 25—1 watt, 25—2 watt.

18A75. Per Assortment **\$2.25**

200 assorted, 100—1/2 watt, 75—1 watt, 25—2 watt.

18A786. Per Assortment **\$3.95**

FREE — Handy Color Code Chart with each of the above assts.

PRICE CUT IN HALF ON AUTO ANTENNAS!

Noiseless!
Rattleproof!
RUSTPROOF!
Admiralty Brass
Triple Chrome
Plated!

Bakelite insulators, shim contacts on telescopic joints, tapered on ends to prevent moisture and dust from entering tubes. With 33" low-loss cables with shielded loom.

Priced as low or lower than others of inferior materials and workmanship.

SOLD ONLY in packages of 5 (cannot be assorted).

No. 38A30. 3 Section Telescopic. Extends 20" to 65".

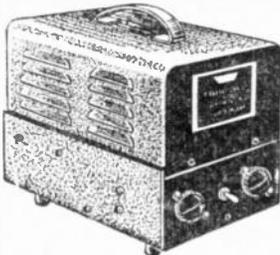
Package of 5 **\$6.95**

No. 38A29. 3 Section Telescopic. Extends 31" to 96".

Package of 5 **\$8.95**



32/110-VOLT CONVERTER Operates Standard 110-Volt AC Appliances From 32-Volt Farm Power Plants



Converts 32-volt DC to 110 volts 60-cycle AC. Continuous load capacity up to 100 watts, but has considerable overload capacity for electric starting, etc.

Easy to Use. Has two outlet sockets. Converter turns on or off automatically with appliance — no separate switching required.

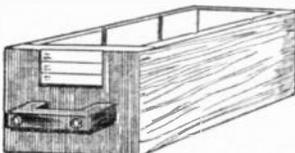
Dependable, Trouble-free. With the extra vibrator included, this unit gives 2,000 hours of trouble-free operation. Durable blue-gray enamel finish.

A TERRIFIC VALUE! Converter List Value \$59.95 plus a \$12.50 extra replacement vibrator. Total list value, \$72.45.

No. 32B41. While They Last. ONLY **\$16.95**

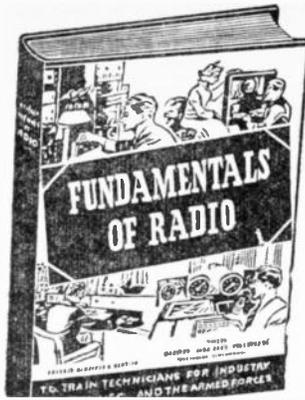
(Can be used with radios by adding proper filtering.)

A "BUY" IN STOCK DRAWERS



12" long x 5 1/4" wide x 4 1/4" high outside dimensions. Made of 1/2" kiln dried No. 1 clear pine sides and ends with 3-ply plywood bottom routed in. Weldwood glue construction. Bolted sturdy handles. Slotted for 3 1/4 x 1 1/2" card labels. Slotted inside for two dividers (not included), making two 4" and one 2 3/4" compartments. The real "McCoy" for building up stock racks to suit individual needs. Could not be built for less than at least \$1.00 each. Slightly used, but still a Hot Buy.

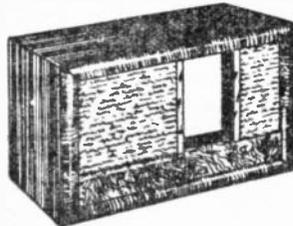
No. 4A69. 10 Lots. **50c**
Each. **59c**



Written by Six Distinguished Radio Experts. Edited by Wm. L. Everett. In thoroughness this book is outstanding. With no previous radio experience or knowledge one can obtain a thorough grounding in radio principles. Has over 300 working diagrams and step-by-step instructions by six of the country's greatest radio experts. Covers everything one needs to know about basic radio communications (400 pages). Handbook style. Complete one-volume course. Regularly sells for \$5.00.

No. 16A50. At 1/2 Price. **\$2.50**

HANDSOME WALNUT CABINET



Priced at a fraction of cost to make. Size, 20" wide, 13 3/4" high, 9" deep. Sturdy construction, ornamental brass strip escutcheon panel. Shipping weight, 14 lbs.

No. 4A505. EACH **\$1.59**

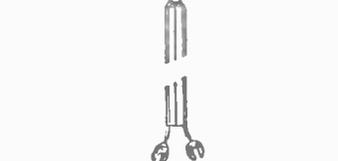
110-VOLT AC RELAY Leach Type 1127 D.P.D.T.



Coil operates on 115-volt, 50/60 - cycle AC. Ruggedly built for industrial use and highly recommended for transmitter control. Has 3/16" silver contacts. All circuits are insulated from metal frame. Operates quietly. Will follow keying. Coil resistance 530 ohms. Overall size, 9 9/16 x 1 1/2 x 1 3/8" high.

No. 18B828. Special. Each. **\$1.39**

FLEXIBLE FM ANTENNA AT A GIVE AWAY PRICE



Made of heavy 300-ohm Twin Lead for use indoors, under rug, around moulding, back of console cabinet or outdoors. Completely assembled and extra 10-ft. of twin lead included. No. 3B1.

SPECIAL, EACH **79c**

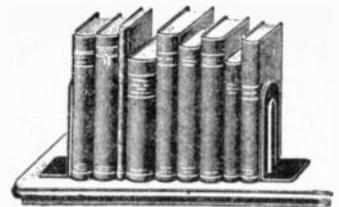
MIDGET BOX TYPE 8 MFD. 450-Volt Working DRY ELECTROLYTICS



Cardboard carton type dry electrolytic. Mounting flanges have slotted holes to fit various spacings. Mount flat, upright or will stack. Size 2 1/2 x 1 1/8 x 3/4"

No. 15A267. Each. **19c**

HANDY BOOK SUPPORTS



Perfect for the work bench, ham shack, or office. Keeps books and records in orderly out-of-the-way fashion. Made of springy steel, black enamel finish. Size, 4 3/4 x 5 1/2".

No. 16A458. Per Set of 2. **30c**

MALLORY 5th EDITION RADIO SERVICE ENCYCLOPEDIA



Just a few copies left. Over 450 pages of good usable information on 27,000 sets.

No. 16A26. WHILE THEY LAST. **69c**

OHMS LAW CALCULATOR



Answers any Ohm's Law problem with one setting. Finds volts, amps, and watts. Resistance range 0 to 10 meg-ohms. Has scales on both sides. Simple to operate.

No. 16A44. Each. **10c**



1700 Answers to Your Hardest Problems

1178 Illustrations
1000 Pages
130 Tables
105 Graphs
GET THE ANSWERS NOW

No. 16A14. \$6.00 VALUE **\$2.95**

ANTENNA WEIGHT



2 lbs., with stainless steel braided 11" cord attached on spring core. Originally used on trailing wire antennas.

3A120. Spec. Each **39c**

6-VOLT AC MOTOR

"Oster" Type BU254 Model 1B75. 60-cycle 6 volts AC continuous duty. Fractional HP. 5700 RPM counter clock-wise rotation. 1.5 inch - oz torque. Size, 1 3/4" diameter x 2 1/2" long. Shaft, 1/4 x 3/4" long. Wire leads 7" long. Shipping weight, 1 1/2 "bs.

No. 19B791. EACH. **\$2.45**

BAKELITE SOCKETS



Well known quality make. Sturdy bakelite molded together with a steel mtg. plate so it cannot vibrate or come loose.

Mount in 1 1/8" holes.

No. 17A206	Octal	Mtg. Centers
No. 18A406	4-Prong	1 1/2"
No. 18A405	5-Prong	1 1/2"
CHOICE, EACH		1 1/2"

Lots of 10. Each **4c**

USED HS23 PHONES

The most popular 8000-ohm hi-impedance military phone. We don't ordinarily stock used items but a special purchase lot was misrepresented to us — so we have them and can't eat 'em. Tested for defects.



No. 22B40. A Good Buy! **\$1.19**
Per Set.

CONSOLE LOOP ANTENNA

Attractively designed, sturdy constructed of 1 1/2" wide, 1/2" pine. Size 9 x 15" and wound with 12 turns. Pri. 1 turn. Sec. 11 turns. Size 20 bare tinned copper wire, terminating to terminal strip with 4 screw connections. Dowel pins top and bottom for rotary use. Mitered construction.



No. 5B133. Lots of **50c**
A Buy at Only **59c** 10. Each

ALIGNMENT TOOL SET

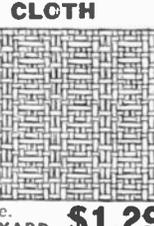


4 TOOLS IN ONE
When closed, is fountain pen size. Has 1/4" and 5/16" nut wrenches, small blade screwdriver, and a full size screwdriver. Made of finest bone-fibre. Has metal ends for longer wear.

No. 11A156. Per Set. **59c**

GRILLE CLOTH

Top quality. Beige fabric will harmonize with all cabinet designs. Buy it now, while you can, at 1/3 of regular cost. Always needed in servicing. 48" wide.



No. 18A413. PER YARD. **\$1.29**

LEATHERETTE

Top grade, attractive cocoa brown. 54" wide.



No. 21A999. PER YARD **\$1.95**

JONES SOCKET

8-prong, chassis mtg. type S408AB.



No. 18A1108. Each. **19c**
10 Lots. Each. **15c**

SLUG TUNED FORM

7/16" diameter x 2 3/4" overall long. Polystyrene.

No. 18A1105. Each. **10c** 10 Lots. Each. **8c**

STANCOR "Telematch"

Eliminates TV antenna impedance mismatch, gives startling results with indoor antenna. Minimizes ghosts, reduces interference. Easy to install. \$7.95 List Value.

No. 19B92. Now Spec. Ea. **\$1.95**

BLINKER LIGHTS

Blinks at 5-second intervals for a period of 4 years. Consists of portable wood case, size 8x5x4", with two 67 1/2 volt batteries and neon bulb. "Just it" for boats, camps, construction jobs, or any need where warning signal is desired. For outdoor or indoor use. Brand New War Surplus at a mere fraction of original cost. Limited Quantity. They come "blinking" — complete "ready to use."

No. 3B7.
Special Each..... **\$1.97**



G.E. 5 MFD. 600 VOLT OIL FILLED CONDENSER

Hermetically sealed in rectangular metal cans size 3 7/8x2 1/2x1". Stand-off insulator terminals add 1 1/4" to its height. G.E. Pyralol type 23FS-C3. No. 18A435

Each..... **85c**
10 Lots..... **78c**



SAVE ON SOCKETS

Mounts directly to chassis or panel in 1 1/8" hole. With retainer ring.

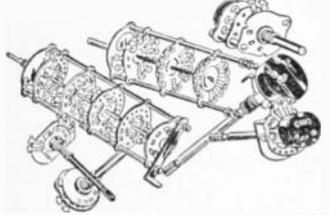
Octal Bakelite 17A396
Each..... **6c**
Lots of 10, Each..... **5c**
Octal Steatite 18A833
Each..... **10c**
Lots of 10, Each..... **8c**



ROTARY SWITCHES

Assortment of Six—any one of which is worth more than the price of the lot. Anyone experimenting or building will find good use for all.

No. 18A436.
Per Assort. of Six..... **99c**



ELECTRIC CHIMES

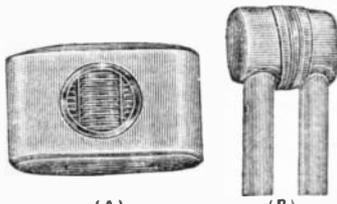
Well known make. Separate tone from front and back door or may be used on front door only. Operate with standard door bell transformer or 8 dry cells.

(A) Streamline, stunning CHROME Louver and trim strips over gleaming baked white enamel finish. Easy to install in restricted spaces, size 6 3/4x4 1/2x2 1/4"
No. 33A201X.
While They Last. Each..... **\$1.85**

(B) In white enamel with CHROME tubes and trim. Size 12 3/4" high, 6 7/8" wide, 2 3/8" deep. Weight, 3 lbs. No. 33A203X.
While They Last. Each..... **\$3.75**

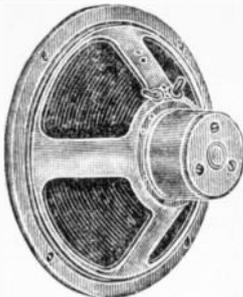
CHIME OR DOOR BELL TRANSFORMERS

Reduces 110-125 volt 60-cycle AC current to 10 volts for operating most any door chime or bell. U/L approved.
No. 20A71X.
SPECIAL, EACH..... **95c**



SPEAKER VALUES

HERE TRULY ARE SMASH VALUES IN TOP QUALITY SPEAKERS



MAGNAVOX 12" PM—Alnico 3. 21 oz. magnet. Will handle 15 watts easily.
No. 30A122. Special. Each **\$4.95**

OXFORD 12" EXTRA HEAVY DUTY PM
22 oz. Alnico V. ring magnet, curve-liner molded high fidelity cone... ruggedly built to take up to 35 watts. Bright aluminum finish. Priced at less than 1/2 regular net price. Shpg. wt. 12 lbs.
No. 32A57. **\$12.95** 2 **\$25.00**
Special Each For

HANDY 6-IN-1 UTILITY TOOL

Ball Pein Hammer and 4 Screwdrivers Combined in one Compact Tool. Knurled hollow handle of ball pein hammer holds four complete screwdrivers with blade sizes of 1/4" to 3/8". Tools are of hardened steel, and handles of solid brass. Overall length 8 1/2".
No. 16A853. Complete Only... **59c**



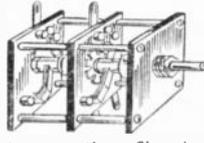
9-PIECE VEST POCKET SOCKET SET

Consists of 7 sockets 1/4 to 3/8". Handle and Metal Rack.
No. 18A397. Special, Each... **39c**



SHALLCROSS SELECTOR SWITCH

Two-gang, 6-Position, 2 1/4" square bakelite plates, solid silver contacts and arm, isolated shaft 1 1/4" long, single hole mounting. Size behind panel 3 1/4x2 1/2".
No. 17A373.
Special, Each..... **\$1.95**



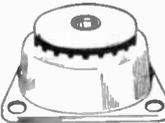
25 MMFD 10,000 V. CONDENSER

Rated for high RF currents. Useful in many RF applications such as antenna loading. Tank circuit shunts to get 80 meter tanks to 160, and as a substitute in many cases for vacuum condensers. A most recent application is as plate to ground or grid to ground harmonic by-pass for elimination of TVI in transmitter circuits. C.D. Type PL341-62C, metal can 2" dia. 2" H., ceramic insulated binding post terminals.
No. 18A1114. **69c** 10 Lots **59c**
A Value! Each For



SHOCKMOUNTS

U. S. Rubber. 2 3/8" sq., .257 center hole, mtg. surface at top 1 3/8" dia. .196" corner holes on 1 1/8" centers.
18A836. **15c** 100 Lots **10c**
Spec., Each For



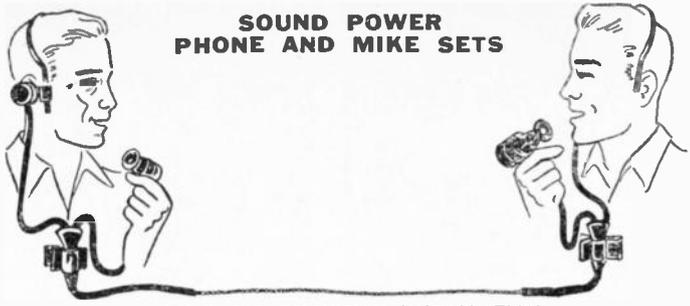
SOUND POWER PHONE AND MIKE SETS

IDEAL FOR TELEVISION INSTALLATION

Provides a two way phone system, powered by the sound of the voice... requires no batteries or other source of power. Portable, compact, light... low in price.

"Just it" for communication between roof and television set for proper alignment of antenna to set... an effective two-way phone system for many uses... good volume up to 1 mile.

Consists of Two Pairs, the celebrated type HS30 head sets—one of the ear pieces easily slips off the head band for use as "mike". Wired ready to use, except for simple connection with length 2 conductor wire desired. Each set has shirt clip for added convenience.
No. 22B41. Two Pair HS30 and 50 foot coil twisted pair wire..... **\$3.48**



Speed-X Code Practice Set

Consists of a constant frequency adjustable buzzer and a standard hand key with 1/8" silver contacts, all on brown bakelite base 4x6".
No. 17A6. Your Cost... **\$2.65**



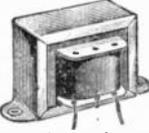
TOP MAKES DRY ELECTROLYTICS

20 Mfd.-350 W. V., 425 V. Peak Solar Minicap. Size 7/8x2 5/8".
No. 18A1118. **29c** 10 Lots **25c**
Each... Each...
40 Mfd.-350 W. V. Aerovox. Size 1x3". Has mtg. strap.
No. 18A1117. **29c** 10 Lots **25c**
Each... Each...
25 Mfd.-25 V. CD Blue Beaver. Size 3/8x1 1/2".
No. 18A1119. **16c** 10 Lots **12c**
Each... Each...



FILTER CHOKES

10 Hy. 65 Ma.
27 1/2" mtg. centers. A Buy!
No. 18A1121 **59c** 10 Lots **49c**
Spec. Each... Each...
6 Hy. 50 Ma.
No. 19B730 **49c** 10 Lots **39c**
Spec. Each... Each...



COLUMBIA CHROMIUM PHONO NEEDLES

Precision made, shadow-graphed for perfect reproduction especially on 78 RPM automatic changers. Each plays over 25 sides with minimum record wear.
No. 19B731.
Per Card of SIX..... **25c**



MICRO SWITCHES

Type YZ3RQIT. Push button plunger, normally open, operating pressure 7 to 9 oz. Single hole panel mounting.
No. 18A235. **65c** 10 Lots **60c**
Each... Each...



BATTERY ELECTROLYTE

Sulphuric acid solution of proper specific gravity for all types of wet cell storage batteries. Pint bottle—can be shipped by express only.
No. 5B141. **25c** Thirty **\$5.95**
Spec. Each. For...

200 WATT SOLDERING IRON

Top quality make, fully guaranteed. 5/8" dia. screw-in tip. Overall size 12" weighs 22 oz. Regularly \$9.25 List and \$6.48 net value. Complete with stand, 6 ft. cord and plug.
No. 17B427.
A Steal, EACH..... **\$3.24**



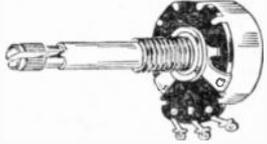
SENSITIVE RELAY

Telephone type D.P.D.T. Solid gold contacts, positively corrosion proof. Sturdy construction, top quality. 12000 ohm coil, armature gap fully adjustable. Closes at 3 1/2 Ma. drops out at 2 Ma. Size overall 5x1 3/4x1".
No. 19B763 **88c** 10 Lots **75c**
A Value! Ea. Each...



VOLUME CONTROLS 1/2 Meg., No Switch

1" dia. top make with split knurled shaft 1 1/2" from bushing.
No. 19A1208. **18c** 10 Lots **16c**
Each... Each...



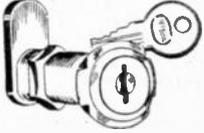
COAX CONNECTOR ADAPTORS

Type 83-168 adapts RG59, 62 and 71/u cable for 83-15P connector.
No. 18B148. **13c** Lots of **11c**
Each... 10, Each
Type 83-185 adapts RG29, 55 and 58/u cable for 83-15P connector.
No. 18B149. **13c** Lots of **11c**
Each... 10, Each



CABINET LOCK

Top quality, sturdily built. Threaded stud for use on wooden or metal cabinets up to 3/4" thick. Handsome chrome plated front. Complete with key and necessary hardware.
No. 19B1018. **29c** Lots of **25c**
Each... 10, Each



SPECIAL PURCHASE Sale of Top Make TEST INSTRUMENTS

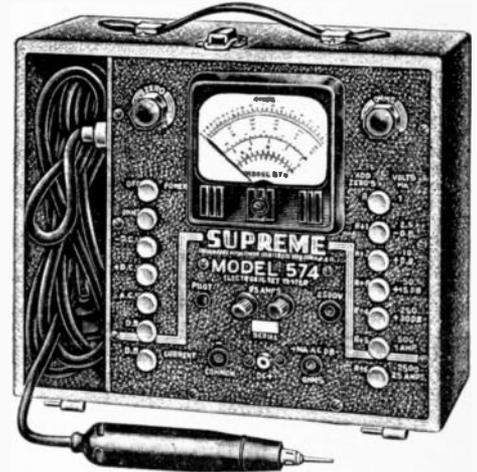
**SUPREME MODEL 574 . . . REGULAR PRICE, \$72.50.
COMPLETE ELECTRONIC MULTIMETER.**

- HAS ALL VOLTS, CURRENT, OHMS, RANGES
- 9006 DIODE PROBE
- 4-INCH METER WITH REVERSE SWITCH

WHILE
THEY
LAST, NOW...

\$43.88

Model 574 Electronic (Vacuum Tube) Multimeter and Set Tester is a completely modern Set Tester, indispensable to the Serviceman for accurate measurements in high impedance circuits as encountered in FM, Television, High Fidelity Audio, and the measurement of AC voltages in the RF spectrum up to 100 mc with negligible frequency error! DC input impedances of 40 meg. maximum to 20 meg. minimum for DC volts ranges of 0, 1, 2.5, 50, 250, 500, 2500 volts. AC input impedances at 60 cycles, 9 mmf.—10 Megohms to provide V.T. ranges of 0, 1, 2.5, 10, 50, 250 AC volts with newest type hand-fitting H.F. Diode Probe. AC impedances are 100 mc—20,000 ohms. Low frequency (standard) DC Volts measurements in ranges of 0, 1, 2.5, 10, 50, 250, 500, 2500 volts by use of standard test leads. Resistance Ranges of 1/1000/10,000/100,000 Ohms, and 0, 1, 10, 100, 1,000 Megohms! DB Ranges of —20 to 0 to +15, +15 to +30, +30 to +45 db. Current Ranges of 0, 1, 10, 50, 250 DC M.A. and 0, 1, 10 DC Amps. The completely modern and stable V.T. circuit of Model 574 assures negligible error due to line voltage fluctuations up to 10% and requires practically no shift in Zero setting when changing ranges. Push-button selectors for all ranges and functions and clearly etched steel panel in white on gray wrinkle enamel finish. Steel cabinet is 5x9 1/2x12"; weight, 16 lbs. Complete with easily followed operating instructions, Diode H.F. Probe, high quality standard test leads and AC cord and plug; for use on 100/133-volt, 60-cycle AC current. Schools, Industrials, Servicemen and Experimenters really "HIT THE JACKPOT ON A WHALE OF A VALUE" on Model 574 at this price!



Stock No. 3586. "SUPREME" MODEL 574 Electronic Set Tester.

(Regular \$72.50 Net.) WHILE THEY LAST, NET.....

\$43.88

PORTABLE TUBE and BATTERY TESTER

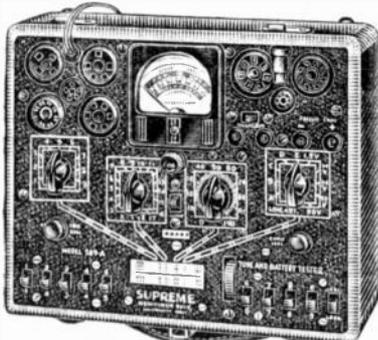
SUPREME MODEL 589A.

WELL WORTH THE \$54.85 HUNDREDS PAID.....

\$39.88

ROLLER TUBE CHART
RUGGED 3" METER

Practically Obsolescence Proof—tests ALL tubes, including nine-pin miniatures—has "Floating Filament" circuit providing voltages from 3/4 to full line voltage! Supplies correct plate loads on all tube tests for "honest" selection of "Good" and "Bad" tubes on English Reading meter scale. Neon inter-element leakage tests and open circuit tests. Noise test jacks for headphone check of noisy connections, etc. Battery tests for "A" and "B" batteries of 1.5, 4.5, 6.0, 45 and 90-volt types—all tests under "RMA recommended loads with direct "Good", "Bad" readings on meter scale! Attractive leather handled luggage type case with slip-hinge cover. Size, 11 1/8x8 7/8x5 3/8"; weight, 10 lbs. For use on 100/133 volts, 60 cycles AC current.



No. 35A11. "SUPREME" MODEL 589A Portable Tube Tester.

While They Last at NET EACH.....

\$39.88

SAVE 40%!

SUPREME MODEL 592.

DUAL SENSITIVITY V.O.M.A.

\$34.88

DOUBLE METER SENSITIVITY—25,000 and 1,000 OHMS-PER-VOLT ON DC. ANY meter range or function obtained in a second! Depress ONE button on left side of panel for "function" and ONE button on right side of panel for desired range. ONLY ONE PAIR OF PIN JACKS FOR 43 RANGES. Separate heavy duty binding posts for 14 amp. range. LEAKAGE CHECK of all paper and mica condensers on 50-Meg. resistance range. NO SAFETY SWITCH TO HOLD DOWN ON AC—special circuit minimizes burn-outs. Copper oxide rectifier GUARANTEED, same as any other part. "DB" conversion chart furnished for readings on any line of known impedance.



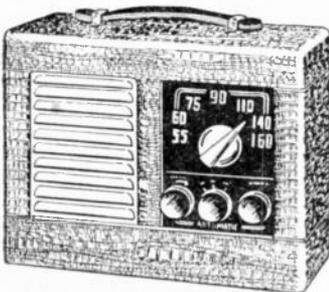
DC VOLTS: (25,000 or 1,000 Ohms per Volt); 1, 3 1/2, 7, 35, 140, 350, 700, 1400. AC VOLTS: 7, 35, 140, 350, 700, 1400. OHMS: 500, 5,000, 50,000, 500,000. 5 Meg., 50 Meg. WITH internal batteries. DC CURRENT: 0, 7, 35, 140, 350 MA; 0, 14 Amps. DECIBELS: —0 to +46. OUTPUT: 0, 7, 35, 140, 350, 700, 1400. NO CONDENSER REQUIRED. In modern steel cabinet size 9 1/16x6 3/4x5 3/8". Weight, 9 lbs. Complete with instructions and Registration Card. Regular Net Price, \$54.85.

No. 35A15. "SUPREME" Model 592 Set Tester.

WHILE THEY LAST, NET EACH.....

\$34.88

AUTOMATIC HEAVY DUTY 3 WAY



PORTABLE RADIO
RECHARGES ITS OWN DRY BATTERIES

A rugged, full size Superhet portable built to accommodate batteries large enough to give long and trouble-free service. Has the space also to accommodate a large improved type PM Speaker for clear natural tone.

Gives 7-tube performance with four tubes, two of which are dual purpose plus lifetime Selenium rectifier. The patented built-in Porta Loop assures increased pick-up and improved reception. Operates from AC or DC electric current or long life type batteries (1

6-volt ER747 and 2 45-volt ER482 or equal available everywhere). The batteries are kept operative longer than normal by the built-in Rejuvenator.

The Cabinet is a pleasingly proportioned and sturdy wood case with a simulated alligator leatherette covering and unusually attractive easy vision two-tone dial and speaker grille. Stitched leather handle. Automatic volume control. An ideal town or country set attractive for indoors and plenty rugged for any knockabout use.

Size, 12 3/8" long, 9 3/4" high, 4 3/4" deep. Weight with batteries 14 lbs. Less Batteries, 6 1/2 lbs.

No. 36B56. List Less Batteries, \$39.95. NET EACH.....

\$29.95

Set of Batteries—1 ER747 and 2 ER482. PER SET.....

\$4.98

JACKSON MODEL 615 POCKET MULTIMETER

An excellent general purpose instrument, compact in size but unusually complete in ranges. Rotary switch RANGE SELECTION. Three-inch square type HIGH QUALITY METER with jeweled bearings.

RANGES—Two-ohm ranges: 0/1000, 0/500,000. ● Five AC Volt ranges: 0/10, 100, 200, 500, 2,000. ● Five DC Volt ranges: 0/5, 50, 100, 250, 1,000. ● Four DC M.A. ranges: 0/1, 5, 50, 250. ● High voltage DC range: 0/2,500. Instrument supplied with self contained battery, less test leads.

JACKSON Model 615. Reg. Price, \$24.95. SPECIAL, EACH.....

\$14.95



SAVE \$ \$ \$ ON STANDARD MULTIMETERS

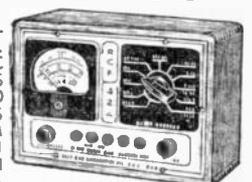
ALL PURPOSE AC-DC V.O.M.A.

"RCP" MODEL 424-A. 26 RANGES AND FUNCTIONS! 0-1000 AC & DC VOLTS, 0-1000 M.A. 0-10 MEG. WITH INTERNAL BATTERIES. 5-DC VOLTS RANGES FROM 0-2.5 to 1000 VOLTS 4-AC VOLTS RANGES FROM 0-10 to 1000 VOLTS. 4-RESISTANCE RANGES FROM 500 OHMS TO 10 MEGOHMS 4-DC MA RANGES FROM 0-10 to 1000 M.A. 4-DECIBEL RANGES FROM —10 to +55 D.B. CALIBRATED FOR 500 OHM LINE IMPEDANCE. *2500 O.P.V. METER MOVEMENT—1% TOLERANCE SHUNTS & MULTIPLIERS. OAK CASE 7 1/2x5 3/4x3 3/4"; WITH BATTERIES; WT. 2 LBS.

Regular Net Price, \$29.50.

Stock No. 37T1023. "RCP" Model 424A. YOUR COST.....

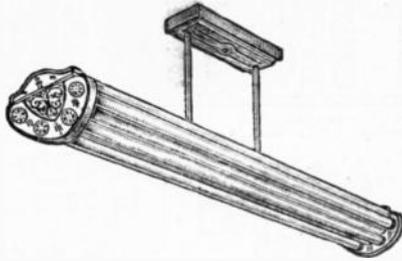
\$21.50



Quality Fluorescent Lighting Equipment

ROYAL DeLuxe Glass-End Units for 48" 40-Watt Lamps

Modernize at low cost with the ultimate in fluorescent lighting beauty—cut costs for power as compared with incandescent lighting of equal efficiency! Available in 2-lamp or 4-lamp models in either semi-flush ceiling or full pendant style with body of fixture 36" below ceiling. U/L Approved, built of heavy steel in gleaming white enamel finish—all electrical components of highest quality. **Cast Glass End Pieces** glow softly with light from lamps and hide otherwise "ugly" sockets and lamp ends! Highest lighting efficiency assured by design of reflector for even spread of light over a wide area! **High Power Factor** ballasts; all fixture bodies are 49" long overall. Completely wired, ready and easy to hang to any 110-volt AC ceiling outlet. All prices below are for fixtures complete with Daylight or 4500° White lamps.

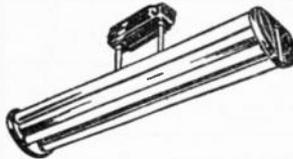


Stock No.	For Lamps	Type of Fixture	Weight	Net Each	3 at Each
50A217.	2 40-Watt	Ceiling Type	26 lbs.	\$14.77	\$13.91
50A218.	2 40-Watt	36" Pendant	27 lbs.	15.52	14.61
50A219.	4 40-Watt	Ceiling Type	30 lbs.	24.44	22.92
50A220.	4 40-Watt	36" Pendant	31 lbs.	25.19	23.82

(All the above may be assorted to obtain quantity prices.)

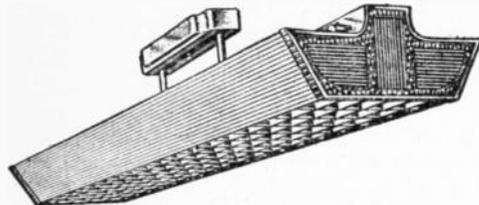
"BUDGETEER"—MODERN LIGHTING AT LOW COST!

Designed for 2 or 4 40-Watt 48" lamps in choice of flush ceiling or 36" pendant types. These fine fixtures are U/L Approved, have top quality electrical components, bodies of heavy gauge steel; finished in super-hard baked white enamel. Reflectors provide a wide and even distribution of eye-ease light. Heavy steel end trim pieces are stamped in pleasing and decorative design hide unsightly lamp holders. All fixtures are 49 1/2" long overall. Pendant types hang 36" from ceiling to bottom of fixture. Ceiling types mount flush with ceiling, extend only 7 1/2" from ceiling face. Wired, with hangers for quick, easy installation to any 110-volt AC ceiling outlet. Complete with choice of Daylight or 4500° white lamps. Average weight, each, 22 lbs.



No.	For Lamps	Type of Fixture	Weight	Net Each	3 at Each
50A96.	4 40-Watt	36" Pendant, With Lamps...	27 lbs.	\$22.19	\$20.82
50A97.	2 40-Watt	36" Pendant, With Lamps...	27 lbs.	14.87	13.91
50A98.	4 40-Watt	Ceiling, With Lamps...	30 lbs.	20.69	19.42
50A99.	2 40-Watt	Ceiling, With Lamps...	26 lbs.	13.37	12.71

LOUVERED FLUORESCENT FOR BEST LIGHTING!



Modernly styled and handsomely proportioned, the new Airliner not only adds to the beauty of the room in which it is installed—it provides the best and most efficient no-glare, even distribution of light possible! Side glass diffusing panels of "Corning" Albalight glass eliminate glare from lamps and diffuse light, usually wasted, over a wide area of working space; egg crate type bottom Louvers provide the best possible spread of efficient, soft fluorescent light—electrically baked-on White Enamel finish of fixture body reflects all the light—wastes none! Cast Aluminum end pieces, canopy and stems are highly burnished to a silver finish. Bottom Louvers are of heavy steel, finished white enamel for highest lighting distribution efficiency. All component parts, ballasts, etc., are of best quality. Underwriter's Approved, and entire fixture is Union Made. Easily installed and maintained, shipped complete with Daylight or 4500° White Lamps. High Power Factor. All Pendant units are 36" from ceiling to bottom of fixture.

Stock No.	For Lamps	Size	Weight	Net Each	3 at Each
50A209.	4 40-Watt	49 1/2 x 16 1/2 x 6"	45 lbs.	\$33.44	\$31.32
50A210.	2 40-Watt	49 1/2 x 9 1/2 x 6"	30 lbs.	22.72	21.76

"AIRLINER" PENDANT TYPE FLUORESCENT FIXTURES

Identical to above illustrated Pendant type fixture, except does not have stems and ceiling canopy, ready to hang complete with Daylight or White Lamps.

No.	For Lamps	Size	Weight	Net Each	3 at Each
50A212.	"Airliner" 4 40-Watt Ceiling Fixture..			\$31.94	\$29.92
50A213.	"Airliner" 2 40-Watt Ceiling Fixture..			21.22	19.86

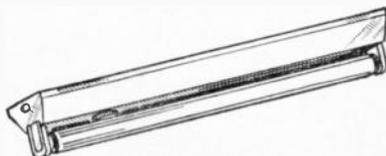
(Note: Ceiling and Pendant Fixtures may be assorted for quantity price.)

RED HOT BARGAIN!

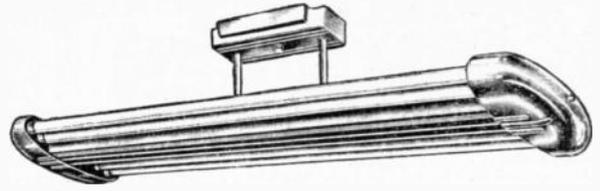
DECORATIVE STRIP LIGHT!

Gold Medal Quality, product of nationally known Manufacturer! Pleasing beveled edge design, entire body of extra heavy steel, finished entirely in Super-White Baked Enamel! White lamp sockets. This fine strip is 18" long, 3 1/4" wide at back, 2" wide at face, 3 1/4" deep overall with lamp installed. Easily installed to any 110-volt AC wall or ceiling outlet. Packed complete with white lamp. Weight, 4 lbs.

No. 32A45. RED HOT BARGAIN!
15-Watt Strip Light. Net Each..... \$2.95 FOR \$15.95



"FUTURIST"—Gorgeous Lighting—Moderate Cost!



THE FUTURIST ADMINISTRATOR (as shown above) combines modern beauty and efficient light distribution—uses 4 40-watt, 48" lamps, all exposed, in a fixture of unusual streamlined beauty—adaptable to any use or location where good lighting is a necessity! Heavy gauge steel body for strength, with aluminum channel enabling a beautiful Two-Tone finish of electrically baked super-white enamel with satin polished aluminum striping—graceful end pieces of highly polished satin aluminum. Pendant style units have ceiling canopy in white with polished metal tubes. Size, 54 1/2" long, 16" wide, body is 3 3/8" deep; pendant style hangs 36" from ceiling; ceiling type mounts direct against ceiling surface. U/L Approved, finest electrical components. Supplied complete and ready to install with choice of Daylight or 4500° white lamps. Weight, 33 lbs.

No.	For Lamps	Type of Fixture	Weight	Net Each	3 at Each
50A94.	"Futurist" 4 40-Watt Pendant.....			\$25.72	\$24.11
50A95.	"Futurist" 4 40-Watt Ceiling.....			24.11	22.87

New! 3-LAMP SUPER CEILING (Krypton Gas Tubes)

THE LATEST IN FLUORESCENT! Provides MORE light at LESS cost for power—uses THREE of the NEW 25-WATT Krypton Gas Filled lamps, each equalling the light output of standard 40-watt white fluorescent lamp! Ideal for HOME, STORE, SCHOOL and many other uses, a single 3-lamp fixture provides floods of easy-on-the-eyes light over an area of 80 sq. ft.! U/L Approved, body quality constructed of heavy steel, scientific designed reflector finished in super-white baked enamel. Satin polished aluminum end pieces provide neat decorative effect. Supplied complete with three 25-watt lamps, ready to install. Mounts flush to ceiling. Size, 33 1/2" long, 4" wide, 6" deep. Weight, 17 lbs.



No.	For Lamps	Type of Fixture	Weight	Net Each	3 at Each
50A92.	Triple Lamp Super-Ceiling			\$12.75	\$11.90

DOUBLE LAMP SUPER-CEILING UNIT

Identical to 3-lamp unit described above. Supplied with TWO Krypton Gas filled 25-watt lamps. Same size as listed above. Weight, 15 lbs.

No.	For Lamps	Type of Fixture	Weight	Net Each	3 at Each
50A93.	Double Lamp Super-Ceiling			\$10.45	\$9.75

STREAMLINE FLUORESCENT STRIP LIGHTS



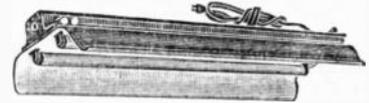
Refreshingly new low-cost, all-purpose Fluorescent Strip Lighting Units in SINGLE and TWO-LAMP styles for EITHER 20-watt or 40-watt lamps. Durable steel bodies with removable back plates for easy installation to any standard 110-volt AC ceiling outlet—simply screw plate to ceiling or outlet box, make connections, and slip on the trim, neat streamline cover! Finished overall in high-bake super-white enamel—design engineered to provide shadowless light over a large area. May be installed in groups end-to-end or side-by-side, or combination of both for ultra modern and efficient lighting of large rooms. Size of one-lamp units is 4 1/2" wide, two-lamp units, 6 1/2" wide; 20-watt units are 25" long, 40-watt is 49" long; all types are 2 1/2" deep. All styles are U/L Approved. 40-watt two-lamp type is high power factor. Weights, complete with lamps, Single-20, 5 lbs; Double-20, 7 lbs; Single-40, 10 lbs; Double-40, 16 lbs. Supplied with lamps.

Stk. No.	Lamps	Net Each	3@Each	Stk. No.	Lamps	Net Each	3@Each
31A212	ONE	\$3.57	\$3.34	31A214	ONE	\$ 6.61	\$ 6.20
31A213	TWO	5.56	6.20	31A215	TWO	12.82	12.02

PLUG-IN REFLECTOR UNITS — EASY TO INSTALL!

B-A SUPER VALUES

"Double Forty" Industrial Unit—TWO 40-watt lamps easily equal 150 to 200 watts of incandescent light—easily installed anywhere! Heavy steel reflector quickly removable by thumb screws for access to Underwriter's Approved, high power factor Ballasts and Sockets. Baked White Enamel reflector, gray exterior, is 51" long, 11" wide—overall height, 5 1/2". Hangers at both ends of top channel, and knock-outs in channel allow hanging by chains, wire or pipe; knockouts in ends for switches. Supplied complete with 4500° White or Daylight lamps and 6-ft. cord and plug (cord not attached). Weight, 21 lbs.



No.	For Lamps	Type of Fixture	Weight	Net Each	3 at Each
31A201.	"Double Forty" Unit.			\$11.47	\$10.81

SUPER VALUE "DOUBLE TWENTY" Plug-In Fluorescent Fixture—Same type fixture as Double Forty above EXCEPT uses TWO 20-watt lamps; comes complete with 6-ft. AC cord and plug attached, ready to hang up and plug-in ANYWHERE! Size, 25 1/4 x 9 1/4 x 3 3/4" high, wt., 11 lbs. U/L Approved Ballasts and Components. Complete with TWO Daylight or White Lamps.

No.	For Lamps	Type of Fixture	Weight	Net Each	3 at Each
30A60.	"Double Twenty" Unit.			\$7.08	\$6.61

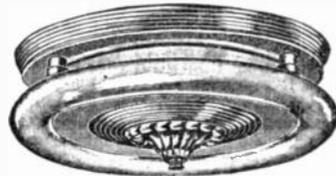
Modern Fluorescent Fixtures at New Low Prices!

PLEASE NEW CIRCLINE UNITS AT LOWER PRICES!



The newest in gorgeous fluorescent lighting — a pair of "Circlarc" lamps (1/2-circle), each 16 watts, blended into a beautiful modern design fixture of spun aluminum, with finish of mirror polished aluminum and hi-bake pure white enamel. Decorative cast support arms hold ornamental lace design glass. Overall size is 14" dia. x 5" high; wt., 9 lbs. Easily in-outlet. Complete with two 16-watt "Circlarc" lamps.

No. 31B202. "ALLURE" Circlarc Unit. Complete. Net Each..... **\$13.50** 3 at **\$12.60** Each



Efficient, attractive for most any room in home or office! Furnished complete with new 32-watt Circline lamp; lamp mounts in striking circular housing of high polished spun aluminum with white enamel reflecting surface; trimmed by crystal glass ornament. Installs easily flush with ceiling to any standard AC outlet. Size, 12" diameter, 5" deep; wt., 10 lbs.

No. 31B203. CIRCLINE Fluorescent Unit. Complete with Lamp. Net Each..... **\$8.25** 3 at **\$7.70** Each

DECORATIVE GLASS SHIELDED "TWO-TWENTY" The "20th Century" Universal Ceiling Unit



efficiency WITHOUT GLARE! A super-efficient lighting unit, for use in HOMES, Offices—Salesrooms; provides glareless light equal to at least 150 watts of incandescent lamps! Underwriter's Approved construction throughout; heavy steel body with reflecting surfaces finished in gleaming white synthetic enamel, lamp holders securely braced and correctly spaced—lamps don't fall out or refuse to light! Frieze decorated Glass Panels are easily removed for cleaning, are held in place by polished Chrome Plated end pieces! Complete with fittings for quick, easy installation to any 110-volt A.C. ceiling outlet. 24 1/2" long, 6 1/2" wide, 5 1/2" high; wt. 8 lbs. Complete with TWO 20-watt fluorescent lamps. "Flush" Mounting type.

No. 31A208. The "Twentieth Century" DeLuxe Fluorescent Unit. Net Each..... **\$7.09** 3 at **\$6.68** Each

ATTRACTIVE CAST GLASS ENDS ON THIS "TRIPLE-TWENTY" — QUALITY AT A LOW PRICE!



of heavy gauge steel with body finished in hi-bake gleaming white enamel. 50% more light than from usual 2-lamp 20-watt fluorescent fixtures with practically no increase in size of fixture! Underwriter's Approved construction throughout. Size, 24 1/2" long, 4 1/2" wide, 4" deep. Complete with THREE 20-watt Daylight or White lamps; wt., 8 1/2 lbs.

No. 31B204. "Triple-Twenty" Economy Unit. Net Each..... **\$7.25** 3 at **\$6.99** Each

"GERM-KILLER" GERMICIDAL UNIT

Effectively kills air-borne bacteria and other micro-organisms by transmission of Germicidal Lamp germ killing radiation through air currents traveled by these germs! Deodorizes—removes unpleasant odors by creation of Ozone in the air. Special design of mirror-finished aluminum reflector assures maximum distribution of Germicidal Rays for germ killing and deodorization, yet is so constructed as to not endanger occupants of room by direct exposure to the lamp. Germodor should be installed 6 1/2 to 7 ft. above floor and preferably over doors or windows—one 15-watt unit to each 125 sq. ft. of floor area. A "must" for all Public Rooms—a big help in the home! Hangs on wall, plugs in anywhere! Size 3 3/4" wide, 5 3/4" high; 19 1/8" long for 15-watt, wt., 5 lbs.; 37 1/8" long for 30-watt; wt., 8 lbs. Exterior finish in beautiful Baked Bronze. Complete with Germicidal Lamp, 11 ft. cord and plug, and "On-Off" switch.

No. 31B205. 15-Watt "Germodor". Net Each **\$11.95** 3 at **\$10.99** Each

No. 31B200. 30-Watt "Germodor". Net Each **\$16.79** 3 at **\$15.99** Each

FOR PRICES OF FLUORESCENT FIXTURES, LESS LAMPS: Deduct from "Complete" prices shown, the following amounts PER LAMP—45c for each 15-watt lamp; 55c for each 20 or 30-watt lamp; 75c for each 40-watt lamp. (Choice of Daylight or White lamps supplied with all fixtures priced "with lamps.")

Fluorescent DE LUXE GLASS END "DOUBLE TWENTY" UNITS In Choice of Permanent Ceiling or "Adapter" Types



SENSATIONALLY PRICED!

(A) "Fitter Adapter" type—Instantly installed to ANY 4" standard shade holder; no wiring of any kind to do! (B) Permanent mounting type—for easy installation DIRECT to outlet box or wires in ceiling of room; canopy of fixture covers wire connections and outlet box. "SOFT-GLOW" CAST GLASS END PIECES "dress up" fixture. Quality construction throughout—U/L APPROVED components, heavy steel body, baked snow-white enamel for maximum light output. TWO 20-WATT LAMPS will FLOOD the average kitchen or other room with shadowless light. Size 24 1/2" long, 4 1/2" wide, 4" high. COMPLETE WITH LAMPS. List Price, \$11.70. Weight, 9 lbs.

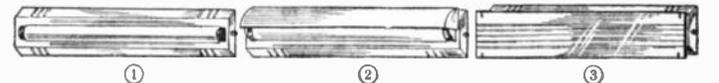
(A) DE LUXE 4" ADAPTER TYPE PLUG-IN UNIT. For ANY 4" Shade Holder. No. 30A57. With Lamps. Net Each..... **\$5.45** 3 at **\$5.16** Each

(B) DE LUXE CEILING TYPE UNIT. (Fits any ceiling electrical outlet.) For Permanent installation to ANY Outlet. No. 30A116. With Lamps. Net Each..... **\$5.45** 3 at **\$5.16** Each

B-A "JACK-POT" LESS BARGAIN SPECIAL LAMPS..... 6 FOR \$23.95

(Nos. 30A57 and 30A116 May Be Assorted at Above Prices)

HI-QUALITY CHROME BRACKETS—LOWER PRICES!



In three beautiful styles for modern side-wall, over mirror, or ceiling lighting in Bathrooms, Kitchens, Rumpus-rooms, Beauty Parlors, or Wall Brackets for any location! U/L approved for standard 18" 15-watt fluorescent lamps. Easily installed to any 110-volt AC ceiling or sidewall outlet! Overall size is 19 1/2" long, 3 1/2" wide at back, extend 3" from wall; all have turn-knob switch and are available with or without Plug-In Convenience Outlet as listed below. Shipping weight, with lamp, 3 pounds.

① 15-Watt Chrome Plated Bracket, with On-Off Switch and 15-Watt Lamp. No. 31A209. No Convenience Outlet. Net Each.. **\$3.36** 3 at **\$3.13** Each

② 15-Watt Chrome Bracket WITH Adjustable Reflector, Switch and Lamp. No. 31A210. No Convenience Outlet. Net Each.. **\$4.18** 3 at **\$3.94** Each

③ 15-Watt Chrome Bracket, Etched Glass Panel, Cpt. with Switch and Lamp. No. 31A211. No Convenience Outlet. Net Each.. **\$4.18** 3 at **\$3.94** Each

No. 31B19. With Convenience Outlet. Net Each.. **\$3.58** 3 at **\$3.19** Each

No. 31B20. With Convenience Outlet. Net Each.. **\$4.45** 3 at **\$4.15** Each

No. 31B21. With Convenience Outlet. Net Each.. **\$4.45** 3 at **\$4.15** Each

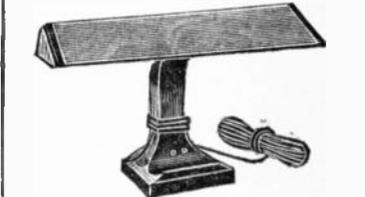
FLUORESCENT BED LAMP



"Starlight" streamlined fluorescent Bed Lamp in gorgeous Ivory or Walnut plastic — cool burning 8-watt fluorescent lamp directs a FLOOD of good reading light at just the right angle for comfortable and safe reading in bed! Brackets adjust to fit ANY type of bed. Handy push switch on bottom of unit, 7 1/2 ft. cord and plug. 15" long, 2" high. Weight, 3 lbs. Complete with lamp, ready to use.

IVORY Stk. No. 32A216. Net Each **\$4.47**

Fluorescent Desk Lamp



Streamline "Litemaster" Kool-Lite Desk Lamp. One-piece cast base and standard supports heavy steel shade 18x3 1/4" — uses 15-watt Daylight or White lamp to flood a large desk with eye-easy light! 11" high overall. Base 5x5 3/4". Has On-Off Switch. Baked bronze finish; 8 ft. cord. Complete with lamp; weight, 7 lbs.

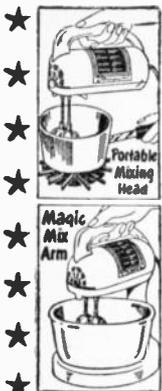
Stock No. 32A32. Net Each.. **\$5.85** 6 at **\$5.45** Each



With automatic "Sure-Lock"—stops and stays securely in any position; instantly adjusts "at-a-touch" for light in any direction! Die-cast construction guaranteed against breakage for life of lamp! Shade 18 1/2x4 1/2"; lower arm, 18" long, upper arm, 13" long. Durable brown Polymerin enamel finish. Automatic Off-On switch. With lamps, 8-ft. cord; adjustable clamp. Wt. 9 lbs.

No. 32B31. Magic Arm Desk Lamp. Net Each..... **\$11.95** 3 at **\$11.25** Each

TWO 15-WATT LAMPS Clamps, Screws to any Desk!



DORMEYER MODEL 4200

'POWER-CHEF'

MIXER - GRINDER - JUICER



★ THE ONLY COMPLETE "FOOD-FIXER". Completely eliminates costly power take-off attachments—ready in an instant to grind meats, raw or cooked, vegetables, etc., by merely slipping grinder attachment into Dormeyer's special built-in drive; Jiffy-Juicer plugs into same drive to get all the rich "C" vitamins from citrus fruits! Beats, Mixes, Stirs, Folds, Creams, Whips foods at recipe tested speeds indicated in Dormeyer Electric-Mix Recipe Book. DIAL OPERATED 10-SPEED MIXER has automatic motor regulator—maintains even mixing speed—steady power at all mixing speeds! Automatic beater release operates at a touch of the finger-tip control under the mixer handle! Power head and beaters instantly removable from base for on-stove mixing or beating, or use anywhere in the kitchen! Motor mount permits moving of beaters from center to sides of the two opal glass mixing bowls supplied. Ball bearing bowl turntable revolves without hand help. Streamlined, lightweight, beautifully finished to harmonize with any kitchen! Complete as shown above. Weight, 21 lbs. List Price, \$39.95.

No. 30B55. DORMEYER MODEL 4200 Mixer, Juicer, Grinder. NET EACH..... **\$29.39** 3 AT EACH **\$27.29**

DOMINION DE LUXE AUTOMATIC WAFFLE IRON

Makes man-size (full 7 1/2" grids) waffles to any desired degree of brownness without guess-work or opening iron to see if waffle is done—merely set Automatic Regulator at Light, Medium, or Dark, as desired, and each and every waffle comes out perfectly baked! Full size 7 1/2" grids are of silvery finished cast aluminum—completely stick-proof! Automatic indicator light glows when iron is connected to current, goes out when proper baking temperature is reached, and glows again when waffle is perfectly done! Nickel Chrome element distributes heat evenly over entire grid surface. Modern design steel case is heavily Chrome Plated, has hidden, no-mar feet. Walnut finished handles, cord set. For 110/125-volt, 25/150-cycle AC current only. Weight, 6 lbs. List Price, \$10.95.



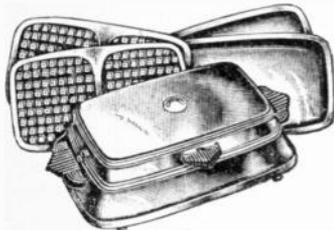
No. 31A99. Dominion Model 1315 Automatic Waffle Iron. NET EACH..... **\$7.88** 3 AT EACH **\$7.16**

DOMINION HEAT INDICATOR WAFFLE IRON

Identical in appearance to Model 1301 shown above EXCEPT is equipped with heat indicator (flush with top of iron) instead of automatic control. Bakes 7 1/2" waffle. Complete with cord set. Weight, 6 lbs. List Price, \$8.95.

No. 31B86. Dominion Model 1314 Waffle Baker. NET EACH..... **\$6.44** 3 AT EACH **\$5.85**

COMBINATION WAFFLE IRON and SANDWICH GRILL



THE FAMOUS "FOSTORIA"

Twin Waffle Mold and Sandwich Toaster! DOUBLE DUTY! DOUBLE VALUE! Heat Indicator Twin Waffle Baker bakes TWO WAFFLES, each 5x5 3/4" and both perfectly "done" in a matter of minutes. Cast Aluminum waffle molds are heated quickly and evenly by the heavy duty 750-watt heating elements in BOTH the cover and base of this fine home appliance! Waffle grids are quickly interchanged for heavy steel Sandwich Grills for

toasting delicious cheese or other combination sandwiches. Heat Indicator tells proper temperatures and indicates when grids are ready for use. Waffle and sandwich grids are interchanged easily by means of knurled screws at each end of frame. Highly Chrome Plated heavy steel housing has new air-cooled bakelite handles, no burned fingers! Bakelite feet guard against scorched table tops. SIZES, Sandwich Grills, 10 5/8 x 6 3/8"; Waffle Grids, each waffle, 5x5 3/4"; overall size 13 1/2" long, 9" wide, 3 3/4" high; wt., 6 lbs. Complete with cord set. For 115-125 volt AC or DC current. Model 351. List Price, \$11.20.

Stock No. 30B52. "Fostoria" Waffle-Sandwich Maker. Each..... **\$8.40** 3 at Each **\$7.46**

SUPER VALUE 2-SLICE TOASTER

Toasts 2 big slices of bread—tipping door down turns toast! Modernly designed in heavy steel with all-over Chrome plated finish, has always cool plastic handles. 400-watt Nichrome ribbon element wound on genuine mica. 7 1/4" high, 8 7/8" long. Less Cord set. Weight, 2 1/2 lbs.



20A808. **\$2.85** 6 at Each **\$2.47**

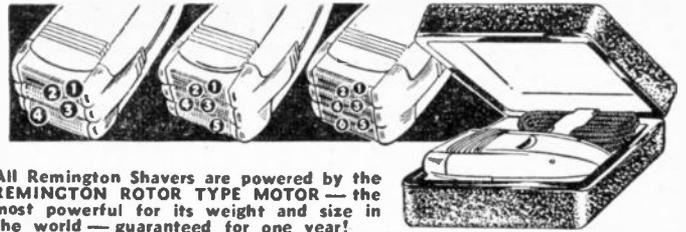


DOMINION AUTOMATIC ELECTRIC IRON

Weights only 4 lbs. Set the dial at Rayon, Silk, Wool, Linen or High, and an even temperature is automatically maintained at desired setting! Polished aluminum alloy sole plate is heated by 1000-watt Nickel-Chrome element. Easy-grip Plastic Handle and strain-relief attached cord and plug. Chrome Plated. Weight, 4 1/2 lbs.

20A807. **\$5.23** 3 at Each **\$4.75**

"REMINGTON" ELECTRIC SHAVERS



All Remington Shavers are powered by the REMINGTON ROTOR TYPE MOTOR—the most powerful for its weight and size in the world—guaranteed for one year! Use-tested and proven satisfactory by thousands of men. "Remington" Shavers cut heavy or light beards with equal ease—take long hairs, short hairs or stubble in their stride—they have no equal in electric shavers for shaving around sideburns and mustaches!

REMINGTON FOURSOME. Combines a Blue Streak twin head with two of the standard round heads that made Remington Shavers famous—a combination that handles the toughest beard with speed and comfort. AC/DC. Model 78.

No. 20A127. List \$19.50. NET..... **\$13.65**

REMINGTON FIVE. Two Blue Streak twin heads plus one of the standard round heads—a combination of five heads that romp through a wiry beard in less time than it takes to tell about it. AC/DC. Model 578.

No. 20A165. List \$21.50. NET..... **\$15.05**

CONTOUR SIX. Improved Blue Streak twin shaving heads on a contour. 240 cutting blades Diamond-Honed to a keen edge. All whisker openings always in contact with your beard. Precision features no other shaving instrument can offer you! AC/DC. Model 648.

No. 20B644. List \$23.50. NET EACH..... **\$16.45**



Toastswell

The finest in Automatic Toasters! Makes perfect toast—from the first slice to any desired degree of brownness by merely setting the Color Selector to dark, light, or in-between shade desired. Split-second Super-Silent Clock Thermostat Control guarantees fully automatic action WITHOUT the "ticking" noise found in other types of automatic toasters! Time control lengthens toasting time when toaster is cold, shortens it when toaster is hot; makes every piece of toast identical in

color and crispness! Does not require pre-heating! "Toastswell" POPS the toast out when finished—cuts off the current automatically! Unsurpassed in beauty, performance and dependability. Toastswell is streamlined with case finished in highly polished SUPER-CHROME plate with black bakelite trim and handles. Size, 7" high, 6 1/4" wide, 11 1/2" long; complete with attached heavy duty cord. Operates only on 110-125 volt, 60 cycle AC current; 860 watts. List Price, \$18.95. Weight, 6 lbs.

No. 32B30. "TOASTSWELL" AUTOMATIC TOASTER. NET EACH..... **\$13.97** 3 AT EACH **\$13.26**

"POPEX" ELECTRIC CORN POPPER



THE DELUXE "POPEX"—Pops fluffy, tender, crisp French Fried Pop Corn in a jiffy—no guess work—no stirring—no shaking; merely put the measuring cup (supplied) full of corn in the popper with the cooking oil, set the popper on the hot plate, and watch it pop through the crystal clear, heat resisting glass cover. Popper is made of heavy spun aluminum, finished to a high polish—Hot Plate, 660-watt heavy duty type, has flat top surface, new plastic feet, is entirely separate from popper utensil—may be used for any other cooking purpose! Kettle capacity, 2 1/4 qts. Size, 8 3/4" diameter at base, 10" overall height. List Price, \$7.30. Operates on 110/125 Volts AC-DC. Weight, 5 lbs.

No. 32B27. "POPEX" CORN POPPER. Complete with Attached Cord. NET EACH.. **\$5.77** 3 AT EACH **\$5.51**

EVERHOT DE LUXE MODEL 900 AUTOMATIC ELECTRIC ROASTER



- ★ FULL MEAL ELECTRIC COOKING!
- ★ 18 QUARTS LIQUID CAPACITY!
- ★ BAKES A 20-POUND TURKEY!
- ★ 16x11x5 1/2" COOKING WELL!
- ★ OBSERVATION WINDOW IN LID!
- ★ TURN-A-KNOB COVER LIFTER!
- ★ ROLLER CHART COOKING GUIDE!
- ★ ROASTS, BAKES, BOILS, SIMMERS!

Plugs into any 115-volt, 60-cycle AC outlet to provide care-free automatic temperature controlled electric cooking! 3-Piece "Glass-Bake" pan set included with roaster provides large open pan for meat and two covered dishes for vegetables—pan set may be removed and large turkey or other fowl or meat placed on steel lift-rack. Heavy aluminum alloy cover acts as self-baster, has self-adjusting steam escape; turn-a-knob lifter opens, closes and locks cover.

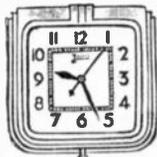
Extra heavy steel body with removable, extra large cooking well with acid resisting porcelain enamel finish. Drum type heating elements in sides and bottom—Glass Wool insulation! Exterior baked white enamel, chrome trim, gray enamel band around bottom. Complete with 48-page Cook Book, Glass-Bake Pan Set, heavy duty cord and plug. Consumes 1320 watts. Size, 21x15 1/2 x 12 1/2" overall. Weight, 43 lbs. List Price, \$44.95.

No. 30A74-2. EVERHOT MODEL 900 DE LUXE ROASTER. NET EACH..... **\$29.95**

Sessions ELECTRIC CLOCKS

"Sessions" Self-Starting Electric Clock mechanisms are fool-proof, long life—quiet; contain only one-half the number of moving parts used in other "makes". FEDERAL EXCISE TAX.—All prices quoted below are DEALER NET PRICES—all purchasers are required by Federal Law to remit 20% of the LIST PRICE of all clocks purchased to the Internal Revenue Department of the U. S. Government. We do NOT collect the tax!

(Allow Minimum of 2 Lbs. Per Clock for Shipping Weight.)
SESSIONS Wall Clocks for Kitchen, Den, Office, Store



"A"



"B"



"C"



"D"

(A) Model 386W. White Plastic wall clock has 5" square dial and convenient bottom set knob. Size, 7x7 1/2". List, \$4.75.
No. 33A223. MODEL 386W. Net Each..... \$3.42 Each \$3.11

(B) Model 339W. White Plastic case "TEAPOT" Kitchen Wall Clock; 4" banded dial; bottom set knob. Size, 8 1/2" wide, 7" high. List, \$4.95.
No. 33A205. MODEL 339W. Net Each..... \$3.60 Each \$3.28

(C) Chrome Wall Clock. For kitchen, bath or small office. 7 3/4" diameter Chrome Plated steel case; 5" raised numeral metal dial and sweep second hand. Famous Sessions Demountable Motor movement with handy bottom set knob. List price, \$5.95.
No. 33A109. Model 471W Chrome Wall Clock. Net Each..... \$4.24 6 at \$3.85

(D) Old Copper Wall Clock. Gleaming copper overall finish for the modern Kitchen, Den or Office. 7 3/4" diameter, 5" metal dial with black numerals on copper-colored band. List price, \$5.95.
No. 33A110. Model 481W Copper Wall Clock. Net Each..... \$4.24 6 at \$3.85

(E) 17" Round Wall Clock. For Office, Store, School. Molded black plastic case, 14" diameter face, sweep second hand, black and gilt numerals, bottom set knob. List price, \$13.95. Weight, 6 lbs.
No. 33A224. Model 438W Office Wall Clock. Net Each..... \$9.44 3 at \$8.58

"CATNAPPER" ALARMS—Desk, Den, Mantel Clocks



(A)



(B)



(C)



(D)

(A) Popular CATNAPPER Electric Alarm, Luminous Dial and Hands. Correct electric time as dependable as your electric power, together with soft-toned bell alarm (not a buzzer)! Pleasing Ivory molded plastic case 7 3/8" wide, 4 1/2" high; has 3 1/2" metal dial. List price, \$5.95.
No. 33A225L. Catnapper Luminous Dial Electric Alarm. Net Each..... \$4.24 6 at \$3.85

(B) Catnapper Electric Alarm, Plain Dial. Model 451A; identical to No. 33A225L, except less luminous feature. List price, \$4.95.
No. 33A225. Catnapper Alarm Clock, Model 451A. Net Each..... \$3.64 6 at \$3.31

(C) Mantel or Boudoir Electric Clock (No alarm). Identical to alarm models in appearance and size. Limited stock on hand. List, \$4.60.
No. 33A215. Model 451W. B-A Special Closeout Price. Net Each \$2.75

(D) DeLuxe Wood Case Electric Alarm, Luminous Dial and Hands. A beauty in Mahogany finished case with contrasting fluted decoration around base. 4 1/4" wide, 4 3/4" high; 3 1/2" metal dial. List price, \$8.95.
No. 33A107. Model 477AL DeLuxe Electric Alarm. Net Each..... \$6.17 6 at \$5.61

(E) Pleasing Mahogany Finish Desk or Mantel Clock. A beautiful clock with large 4" metal dial and standard Sessions self-starting demountable motor. Wood case is 8 1/4" wide, 4 3/4" high. List price, \$6.25.
No. 33A108. Model 470W Wood Case Mantel Clock. Net Each..... \$4.36 6 at \$3.96

(F) Nautical Pilot Wheel Desk Clock. In elegant mahogany finish case with polished brass spindles; self-starting electric movement with large 4" metal dial having contrasting outlined numerals and sweep second hand. A "natural" for Den, Desk, Office or Recreation Room. List price, \$10.00.
No. 33A214. Model 456W Nautical Desk Clock. Net Each..... \$6.94 3 at \$6.44



RUBBER PICTAIL SOCKET. Completely weatherproof. Ideal for test lamp socket or outdoor decorative lighting. Std. base.
No. 20A203. 16c
 Each.....
 10 For.....\$1.40

BAKELITE RECEPTACLE. Std. base "clear" receptacle—mounts anywhere for test sockets or decorative lighting.
No. 16A176. 14c
 Each.....
 10 For.....\$1.20



NITE-GUIDE. Plug-in Nite Light. Bakelite, 3 1/2" high; uses 7-watt lamp—plugs into any wall receptacle. Removable shade and switch. Complete.
No. 20A205. 32c
 Each.....



PLUG-IN FLASHER. Bakelite, U/L approved. Flashes lamps to 100 watts at 14 to 16 flashes a minute. Fits any receptacle.
No. 20A206. 23c
 Each.....
 10 For.....\$2.10

SYLVANIA ELECTRIC

FLUORESCENT LAMPS



"WARMTONE"

FLUORESCENT LAMPS

Exclusive with Sylvania— at last a fluorescent lamp that gives more light of a color that is warm, soft and flattering; definitely not a "freakish" light.

Sylvania "Warmtone" Fluorescent Lamps

Stock No.	WATTS	Bulb	List Each	3@ Each	6@ Each	24@ Each
20B675	15	T 8-18"	\$0.79	\$0.89	\$0.84	\$0.58
20B745	20	T12-24"	.94	.82	.77	.89
34A5	40	T12-48"	1.21	1.05	.99	.88

"Daylight" and "4500° White" Fluorescent Lamps

All prices include Federal Excise Tax.

DAY-LIGHT	4500° WHITE	Lamp Watts	Lamp Type	List Each	3 at Each	6 at Each	24 at Each
20A676	20A677	6	T-5	\$0.83	\$0.72	\$0.68	\$0.61
20A678	20A679	8	T-5	.94	.82	.77	.69
20A680	20A681	14	T-12	.83	.72	.68	.61
20A682	20A683	15	T-8	.68	.60	.56	.50
20A684	20A685	15	T-12	.83	.72	.68	.61
20A686	20A687	20	T-12	.83	.72	.68	.61
34A1	34A2	30	T-8	.83	.72	.68	.61
34A3	34A4	40	T-12	1.10	.95	.90	.80

"SYLVANIA" GERMICIDAL LAMPS



NOT designed or suitable for lighting, these lamps emit ULTRA-VIOLET RAYS for killing airborne or surface germs; the BEST for use and replacement in ANY type or make of Germicidal Fixture; or will operate in ANY fluorescent fixture designed for 15 or 30-watt lamps. CARE must be taken to protect eyes and skin from continuous direct exposure to these lamps!

Stock No.	Lamp Type	Lamp Watts	Lamp Size	List Price	Net Each	6 at Each	24 at Each
34A11	"B"	15	18"-T8	\$4.50	\$3.82	\$3.48	\$3.15
34A12	"B"	30	36"-T8	6.75	5.74	5.40	4.73

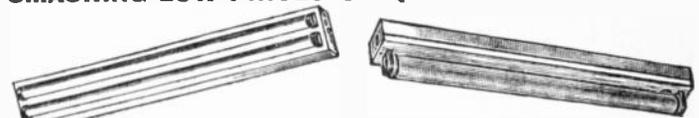
"SYLVANIA" FLUORESCENT STARTER SWITCHES



"Sylvania" SPEED CLOSTAT Fluorescent Lamp Starters—the finest available for dependable, FAST STARTING and long life!

Cat. No.	"FS" Type	For Lamp	Net Each	10 at Each	50 at Each
20A68	FS-2	15 or 20 watt)	21c	18c	16c
20A69	FS-4	30 or 40 watt)			
20A70	FS-6	100 watt T-17	70c	62c	53c

SMASHING LOW PRICES ON QUALITY STRIP LIGHTS



The low cost "answer" to many lighting problems. These quality Fluorescent Strip Lights are available in SINGLE LAMP types for 15, 20, 30 and 40-Watt Lamps (illustrated at right above); and in a 2-LAMP unit as shown at left above. Featuring U/L Approved components throughout, every strip is constructed of heavy gauge steel with removable cover for easy installation to any 110-volt AC ceiling or wall outlet. May be easily mounted in continuous rows. Finished in durable super-white baked enamel. All single lamp types are 2 3/4" wide and 2" high; lengths are: 15-watt, 18 1/2"; 20-watt, 24 1/2"; 30-watt, 36 1/2"; 40-watt, 48 1/2". Shipped completely wired, with choice of Daylight or White lamps.

Stk. No.	For Lamp	Weight	Net Each	3@ Each
31A15	15-Watt, 18"	4 lbs.	\$2.70	\$2.52
31A16	20-Watt, 24"	5 lbs.	2.82	2.64
31A206	30-Watt, 36"	8 lbs.	4.57	4.25
31A207	40-Watt, 48"	10 lbs.	4.80	4.47

TWO-LAMP FLUORESCENT STRIP

Shown at left above, uses TWO 40-watt lamps providing good light over an 80 sq. ft. area! Heavy steel channel, U/L Approved components; High Power Factor. Size, 49" long, 5 1/8" wide, 4 3/4" deep. Weight, 14 lbs. Has vented sides, knockouts for in-line installation; finished in baked super-white enamel. Ready to install with choice of Daylight or White lamps.

No. 31A216. "Double-Forty" Fluorescent Strip. Net Each..... \$10.42 3 at \$9.85

Flexible Arm Desk Lamp

12" flexible arm to permit adjustment of Parabola shade to any position! Brass push-button socket and 7-inch shade take up to 75-watt lamp. Wt. 4 lbs. Weighted, felt covered base. 6' cord and plug. Shade removable for use with "Heat" Lamps!
32A20, Ea.\$2.15
6 at \$1.90
 Each..



Outdoor Floodlight Bracket

WEATHER-PROOF Cadmium plated OUTLET-BOX type bracket for ANY Reflector, Projector, or Heat Lamp. Adjustable to direct beam of light in ANY direction. May be fastened direct to 4" outlet box, or by screws to any surface. All steel; porcelain socket. Base 4 1/8" diameter. Weight, 1 1/2 lbs. (Less Lamp).
No. 20A99. \$1.93
 Each.....
6 at \$1.77
 Ea..



Electrical Supplies for Household and Repair Needs

ATTACHMENT PLUG CAPS, BASES, MULTIPLE CURRENT TAPS



- ① No. 20A84. PULL CHAIN CURRENT TAP... Each, 29c; 10 @ Each, 26c
- ② No. 20A85. 3-WAY CURRENT TAP... Each, 17c; 10 @ Each, 15c
- ③ No. 20A121. ANGLE TWO-WAY SOCKET... Each, 15c; 10 @ Each, 13c
- ④ No. 20A92. PLUG-IN "TRIO TAP"... Each, 10c; 10 @ Each, 8c
- ⑤ No. 20A122. CORD TYPE "TRIO TAP"... Each, 12c; 10 @ Each, 10c
- ⑥ No. 20A30. BASEBOARD CURRENT TAP... Each, 14c; 10 @ Each, 12c
- ⑦ No. 20A28. BAKELITE HANDLE CAP... Each, 8c; 25 @ Each, 6c
- ⑧ No. 20A91. RUBBER HANDLE CAP... Each, 9c; 25 @ Each, 7c
- ⑨ No. 20A29. FLAT BAKELITE HANDLE CAP... Each, 8c; 25 @ Each, 6c
- ⑩ No. 20A27. BROWN BAKELITE PONY CAP... Each, 7c; 25 @ Each, 5c
- ⑪ No. 20A87. ATTACHMENT PLUG BASE... Each, 7c; 25 @ Each, 5c

APPROVED HEATING ELEMENTS AND IRON PLUGS



- ① No. 20A89. SWITCH TYPE BAKELITE PLUG. For Appliances and irons. Net Each... 28c; 10 @ Each, 25c
- ② No. 20A82. Genuine "C-H" SCREWLESS PLUG. Black molded, no screws. Net Each... 14c; 10 @ Each, 12c
- ③ No. 20A118. COFFEE-MAKER and 3-Lb. IRON PLUG. Net Each... 10c; 10 @ Each, 8c
- ④ No. 20A108. Standard Screw Base 1000-WATT HEATER ELEMENT. Net Each... 67c; 5 @ Each, 62c
- ⑤ No. 20A86. "FITSALL" ELEMENT. "FITSALL" Genuine Nickel-Chrome IRON ELEMENT. For ALL 6-lb. irons using mica type element. Net Each... 45c; 10 @ Each, 40c
- ⑥ No. 20A111. TOASTER ELEMENT. 600-Watt Nickel-Chrome Wire Replacement Element, 5/32" diameter coiled wire type for TOASTERS and small appliances. Net Each... 15c; 10 @ Each, 12c
- ⑦ No. 20A119. HOT PLATE ELEMENT. 600-Watt Nickel-Chrome Wire Replacement Element, 7/32" diameter coiled wire type for HOT PLATES. Net Each... 19c; 10 @ Each, 16c

CONNECTORS, SWITCHES, BELL BUTTONS, FUSES TAPE



- ① No. 20A32. S. P. TOGGLE SURFACE SWITCH. Bakelite cover with slotted porcelain base. Net Each... 22c; 10 @ Each, 20c
- ② No. 20A31. FEED-THRU CORD SWITCH. Indicating toggle type "push-thru" action. Brown bakelite. Net Each... 22c; 10 @ Each, 20c
- ③ No. 20A90. 2-PIECE CORD CONNECTOR. Net Each. 21c; 10 @ Each, 18c
- ④ No. 20A123. 1 3/4" SQUARE PUSH-BUTTON. Each... 15c; 10 @ Each, 13c
- ⑤ No. 20A33. 5/8" Dia. DEEP PEARL PUSH-BUTTON. Heavy duty type for desks, door bells, or chimes. Net Each... 30c; 10 @ Each, 27c
- ⑥ No. 20A95. INSULATED STAPLES. 100 to Box. Per Box... 15c
- ⑦ "BUSS" CLEAR WINDOW PLUG FUSES. Packed 5 to handy carton. No. 20A54. 6-Amp. No. 20A56. 15-Amp. No. 20A58. 25-Amp. No. 20A55. 10-Amp. No. 20A57. 20-Amp. No. 20A59. 30-Amp. CHOICE OF ABOVE. Carton of 5 Fuses... 30c; 20 Cartons for \$4.95
- ⑧ "BUSS" 250-VOLT CARTRIDGE FUSES. Packed 10 to a carton. No. 20A60. 6-Amp. No. 20A62. 15-Amp. No. 20A61. 10-Amp. No. 20A63. 30-Amp. CHOICE OF ABOVE. Net Each... 10c; Carton of 10 Fuses for 85c
- ⑨ No. 20A64. 60-Amp. Cartridge Fuses. Net Each... 15c; 10 for \$1.25
- ⑩ No. 20A65. FRICTION TAPE. 1/2-lb. roll. Net Per Roll... 35c
- ⑪ No. 20A66. RUBBER TAPE. 1/2-lb. roll. Net Per Roll... 35c

APPROVED APPLIANCE-EXTENSION-REPAIR CORDS



- ① #16 Approved Heater or Iron Cord. Each conductor 65 strands #34 wire; abrasion proof outer braid, rated 3M cycle. No. 2A30... 25 Ft. for \$1.25; 100 Ft. for \$3.95; 250 Ft. for \$8.50
- ② #16 Approved Rubber Covered Super-Service Cord. Heavy duty type, 2-conductor. No. 2A27... 25 Ft. for \$1.35; 100 Ft. for \$4.50; 250 Ft. for \$9.50
- ③ #18 Type SJ Approved Rubber Covered Super-Service Cord. 2-conductor. No. 2A26... 25 Ft. for \$0.95; 100 Ft. for \$3.25; 250 Ft. for \$7.50
- ④ #18 Approved Rubber Parallel Lamp Cord, Type POSJ. 2-conductor. No. 2A28... 25 Ft. for \$0.50; 100 Ft. for \$1.75; 500 Ft. for \$7.95
- ⑤ 6 1/2-Ft. #18 Rubber Parallel Repair Cord. Stripped ends & rubber AC plug. No. 20A120. All-Purpose AC Replacement Cord. Each, 23c; 10 @ Each, 20c
- ⑥ 10-Ft. #16 Super-Service Repair Cord. Stripped ends, rubber AC plug. No. 20A11. Refrigerator & Small Motor Replacement Cord. Net Each... 78c; 15 @ Each, 72c

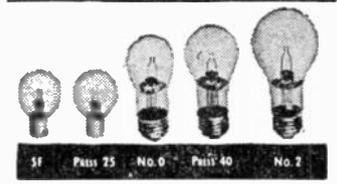
SYLVANIA "FIRST IN FLASH!" Formerly WABASH

SYLVANIA (formerly WABASH) SUPER-FLASH LAMPS comparison to "G.E." and Westinghouse types:

Sylvania "SF" same as G.E. Type SM. Sylvania "Press-25" same as G.E. #5. Sylvania "No. 0" same as G.E. #11. Sylvania "Press-40", no G.E. equivalent, rates between G.E. #11 and #22. Sylvania "No. 2" same as G.E. #22. All prices quoted include Excise Tax.

Stk. No.	Lamp Type	Base Type	Ctn. Quantity	Per Ctn.	6 Ctns. @ Ea.
20A194	"SF"	Min. Bayonet	10-lamps	\$1.47	\$1.32
20A195	"Press-25"	Min. Bayonet	10-lamps	1.39	1.25
20A196	"No. 0"	Std. Med. Scr.	10-lamps	1.47	1.32
20A197	"Press-40"	Std. Med. Scr.	8-lamps	1.25	1.12
20A198	"No. 2"	Std. Med. Scr.	6-lamps	1.00	.91

SUPERFLASH



Shipping weights: Allow 2 lbs. for each carton; 7 lbs. for 6 cartons, packed.

BLUE SUPER-FLASH FLASH BULBS, for "Daylight" color film, indoors or outdoors, eliminates necessity for use of corrective filters.

20A199	*25B (Blue)	Min. Bayonet	10-lamps	\$1.76	\$1.58
20A200	*40B (Blue)	Std. Med. Scr.	8-lamps	1.56	1.40

(Note: *25B is blue equivalent of Press-25; 40B of Press-40.)

SYLVANIA-WABASH SUPERFLOOD LAMPS

The following listed Superflood lamps are rated identical to G.E. and Westinghouse lamps of the same types as to light output and use. Type R-2 Reflector-Flood does not require the use of any type of reflector—screws into any standard light socket. Blue Superflood Lamps permit use of color film, Daylight type, without use of any filters.



No. 20A802. Type 1 Superflood	6-lamps, \$0.94	12-lamps, \$1.68
No. 20A803. Type 2 Superflood	6-lamps, 1.76	12-lamps, 3.16
No. 20A804. Type R-2 Reflector-Flood	2-lamps, 2.06	6-lamps, 5.52

BLUE SYLVANIA-WABASH SUPERFLOOD LAMPS
 No. 20A805. Type B-1 (Blue) Superflood... 6 for \$1.76; 12 for \$3.16
 No. 20A806. Type B-2 (Blue) Superflood... 6 for 3.51; 12 for 6.30

Shipping weights: Allow 2 lbs. for each 6 of types 1 and 2 Superflood lamps packed; allow 3 lbs. for 2 type R-2; 10 lbs. for 6 type R-2 lamps.

Outdoor Reflector Lamps

"SYLVANIA" PAR-38 Weatherproof Spot or Floodlamp for OUTDOOR USE. 150-WATT. Built-in silvered reflector; skirted standard screw base. 120 volt.



Infra-Red "Heat Lamps"

For 115-volt AC or DC in any standard light socket. Provides instant, penetrating heat for treatment of aches, pains, sprains; dries paint, heats small rooms, dries films, thaws frozen pipes, cold motors, heats brooders, dries clothes! Type R-40; 250-watts, 120-volt.

No. 20A115. 88c 12 @ 77c
 Net Each... 88c Each.

SYLVANIA LAMPS FOR GENERAL LIGHTING NEEDS

The New Sylvania HANDY-4 packages of 4 lamps—25, 40 or 60 watt. All sizes may (in pkgs. of 4 lamps) be assorted to obtain quantity prices.

No. 20B689. 25-Watt, 120-Volt	Per Pkg. of 4 Lamps	45c
No. 20B690. 40-Watt, 120-Volt	15 Pkgs. of 4 Lamps.	Per Pkg. 40c
No. 20B691. 60-Watt, 120-Volt	30 Pkgs. of 4 Lamps.	Per Pkg. 38c

"SYLVANIA" 15, 75, 100, 150, 200 WATT LAMPS. Packed 6 to a carton. 120-volt; Standard Medium Screw Base. All prices include excise tax.

Stock No.	Watts	Finish	List Price Each	6 Lamps FOR	60 Lamps FOR	120 Lamps FOR
20A693	15	Inside Fr.	13c	.64	6.00	11.52
20A116	75	Inside Fr.	17c	.84	7.95	15.00
20A694	100	Inside Fr.	17c	.84	7.95	15.00
20A695	150	Inside Fr.	22c	1.08	9.60	
20A696	200	Inside Fr.	30c	1.48		(24 Lamps, \$5.28)

SYLVANIA THREE-LITE LAMPS. 125-Volt. Medium and Mogul Bases.

No. 20B117. 50, 100, 150 Watts. 3-contact Med. screw base... 33c 30c
 No. 20A699. 100, 200, 300 Watts. 3-contact Mogul screw base... 54c 48c



MOTOR BRUSH AND SPRING REPAIR KIT

Over 100 Pieces. Carbon brushes, springs, wicks; for most household fractional horsepower motors.

No. 20A25. Complete Kit. NET EACH... \$3.25

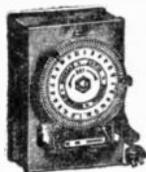
"FIX-ALL" APPLIANCE REPAIR KIT

Terminal Replacements for most any make of Electric Iron and many Toasters; Grills, etc.! No "dead" parts!



No. 20A24. "Fix-All" Repair Kit. NET EACH... \$3.25

Time Switches—PHOTO RELAYS



TORK PORTABLE ELECTRIC TIME SWITCH FOR HOME USE

A plug-in all electric, automatic device for control of radios, lights, fans, washers, cookers, defrosting refrigerators, etc. Turns "ON" at any present time and turns "OFF" after operating 45 minutes minimum or up to 23 hours and 15 minutes maximum. Operating time can be varied by 15 minute steps. Cycle repeats every 24 hours if desired. Powered by a self-starting synchronous 115 V. 60 cycle clock. Has 24 hour dial with easily set switching mechanism plus a manual switch to operate independent of clock. Supplied with AC cord and built-in receptacle to furnish power to device being controlled. Max. capacity of switch, 660 watts. Underwriters Lab. approved. In steel case, 5 1/4 x 3 1/4 x 3". Wt. 3 lbs. List Price \$12.00.

No. 20A209. Tork Model 918. YOUR COST, EACH..... **\$8.40**

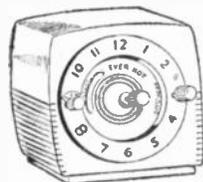
TORK MODEL 191 TIME SWITCH FOR PERMANENT INSTALLATIONS



Turns anything electrical "ON" and "OFF" daily. Designed to be wired permanently into electrical circuit. Operating features identical to model 918 above, except switch rating is 2000 watts lighting load, 2300 watts heating load or one H.P. motor load. Housed in 18 ga. steel case with door. Size 5x9x4" deep. Wt. 5 lbs. U.L. approved. For 115 V. 60 cy. AC. List Price \$13.00.

No. 20A210. YOUR COST, EACH..... **\$9.10**

EVERHOT TIMER-CLOCK



Dependable self-starting electric clock plus automatic "ON-OFF" control for electric appliances to 1650 watts! Automatically turns current "ON" and "OFF" for periods of 15 minutes to 5 1/2 hours—or "OFF" only if desired up to 11 3/4 hours. Clock continues to operate after mechanism switches "OFF", but timing cycle will not repeat until reset. Has manual control switch. Cord, 6 ft., U.L. approved. Plug-in outlet on rear. Clock case is white plastic, 5x4 1/2 x 2 1/8". Escutcheon is chrome finished with red numerals. For 115 V. 60 cy. AC. (Purchasers must remit 20% of \$10.95 list price to U. S. Dept. of Internal Revenue for Federal Tax.)

No. 20A208. EACH..... **\$8.86** Lots of 2, Each..... **\$7.91**

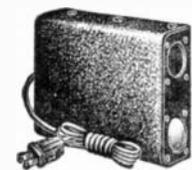
SESSIONS "SWITCHCLOX"



A famous Sessions self-starting electric clock plus an automatic "switcher" to turn on electric appliances, radio or lights at any pre-set time—and in case you forget, turns the current "OFF" after 1 1/2 hours. Ivory plastic 4 1/2" wide, 3 3/4" high; dark metal contrasting dial with ivory hands and numerals. (Purchasers must remit 20% of \$4.95 list price to U. S. Dept. of Internal Revenue for Federal Tax.)

No. 33A115. EACH..... **\$3.60** Lots of 6, Each..... **\$3.28**

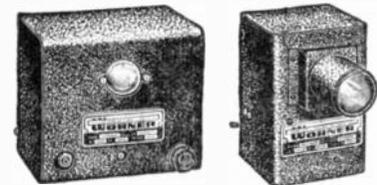
WORNER PHOTO-CELL RELAYS FOTOELECTRIC ANNOUNCER



Designed to project a beam of light across entrance to a building, office, home, etc. Breaking of this beam by person entering, operates built-in relay and supplies 6-volt AC to NuTone chime furnished with unit. The light source and photocell equipment are mounted in crackle finished metal case, with mirror for reflecting light back into photo-cell window when placed up to 10 ft. from unit. Size 10 3/4 x 7 1/2 x 2 3/4". Operates on 115-volt 60-cycle AC.

No. Stock No. 36A15. Model 61 Announcer. With Chime. Net Each..... **\$18.38**

INDUSTRIAL PHOTO-CELL RELAY



For use in countless commercial and domestic applications where the interruption of a beam of light sets the relay into operation. Engineered for long dependable service.

MODEL 62-R PHOTO-CELL AMPLIFIERS. Completely assembled and ready to operate at any distance up to 75 ft. from light source. Unit contains a SPDT control relay rated at 4 amps. Capable of operating up to 300

times a minute. Recommended for such applications as counting and sorting large objects, limit controls, start and stop operations, light density, fire detection, and opening doors, as well as sentinel duty at windows, entrances, etc. For 110-volt, 60-cy. AC, 35 watts. Metal case, 7x6 1/4 x 4 1/2". **\$42.63**

Stock No. 37A71. NET EACH. **MODEL 62-L LIGHT SOURCE.** Companion unit for Model 62-R amplifier. Contains a special 2,000-hour lamp and optical system and a 6-volt step-down transformer. For 110-volt AC. Metal case, 7x6 1/4 x 4 1/4". Stock No. 37A72. NET EACH..... **\$13.23**

MALLORY GRID BIAS CELLS AND MOUNTINGS.

Especially for biasing first audio in high gain amplifiers. Supplies 1-volt plus or minus 10%. Circuit identical to "C" battery. No. 12A1139. 1 -Volt Cell. **27c** No. 12A1140. 1 1/4 -Volt Cell. Choice..... **27c** No. 12A1141. CB11A—Mounting for Single Cell **9c**

TELEVISION FIELD STRENGTH METER



A MUST for any serviceman or installer! Location survey easily accomplished without the expense of complete TV receiver installation, reducing actual work to a one man operation. Eliminates guess work in determining type of antenna required at a given location.

FEATURES:

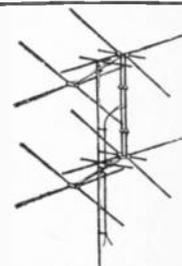
- Measures actual TV station signal strength.
- Orientation of Antennas can be accomplished precisely and quickly.
- May be used to compare efficiency of various antenna combinations.
- Television receiver radiation from local oscillator may be checked.
- May be used to accurately check efficiency of TV Boosters.

Technical Specifications: 12 Channel High Gain Continuous Tuning Front End; 1-6J6 RF, 1-6J6 Osc. 1-6J6 Mixer, 1-6AK5 1st IF, 1-6AU6 2nd IF, 1-1N34 (Meter Rect.) 2nd Det., 1-6AU6 Audio Amp. for Earphone use; 6" dia. Signal Indicator calibrated in relative microvolts 50-30000; self contained 115 V. 60 cy. AC power supply; panel mounted earphone jack. Cabinet is heavy gauge steel, battleship grey finished. Size 8x12x10" high. Wt. 25 lbs. Approved Electronic Inst. Corp. Model A460. **\$79.50** No. 35C8. NET EACH.....

NEW! ICA BI-CON TV ANTENNA

For fringe area all-channel reception. Uses separate reflectors for the high and low bands plus the popular "X" type construction for each bay. Spacing between the two bays is 1/2 wave for greatest gain. Impedance remains constant over the entire TV range, allowing use of any type transmission line with very low standing wave regardless of channel being received. Constructed of 1/2" aluminum tubing with rigid aluminum castings for clamping elements. Furnished with all hardware in place for quick, easy assembly. With phasing bars, less mast, and lead in.

No. 38A105. NET EACH..... **\$16.55**



NO BRUSH • NO MESS • NO MIXING JUST PRESS A BUTTON AND SPRAY! SEVEN COLORS TO CHOOSE FROM

Spray-O-Namel
A popular color



A 12 oz. can, almost a pint, of ready-to-use enamel with a built-in spray that works like an Aerosol bomb! One can covers approx. 150 sq. ft. of smooth surface. For hundreds of daily uses—in the repair shop, at home, for the hobbyist, auto owner, professional or amateur builder. With easy-to-follow directions on every can.

Stock No.	Color	Per Can
18A450	Chrome Aluminum	\$1.28
18A451	White	1.34
18A452	Black	1.34
18A453	Chinese Red	1.34
18A454	Garden Green	1.34
18A455	Canary Yellow	1.34
18A456	Light Blue	1.34

ALUMINUM BOXES—INTERLOCKING TYPE

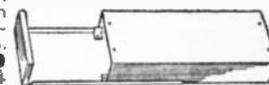
Size is just right for Geiger counters and numerous other electronic devices. Shaped for easy punching and drilling and assemblies with just two screws. Finish is natural aluminum.



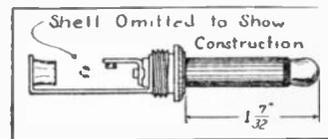
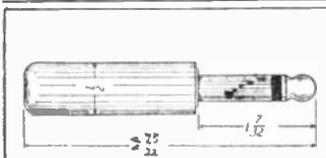
3A153—Size 3" long, 4" wide, 5" high. Ea. 70c
3A154—Size 6" long, 4" wide, 5" high. Ea. 79c

ALUMINUM BOXES—SLIDECOVER TYPE

Especially adapted for rack panel construction where the chassis carries tubes and parts in horizontal position. Very popular with Broadcast stations, custom builders and amateurs.



No. 5A182—Size 3 1/2 x 1 3/2 x 2 5/8". Each **\$2.79**
No. 5A183—Size 5 1/8 x 1 3/2 x 2 5/8". Each **3.04**
No. 5A184—Size 3 x 1 7/2 x 2 5/8". Each **2.90**



NEW! PJ055 PHONE PLUG

Replaces the old type PL55 plug. Made to Govt. Spec. BM-120 of compression molded bakelite to withstand high temperature and high voltage. No. 18B155 (illustrated at left above)..... Each **39c**

SHIELDED MIN-A-PLUG

Developed especially for shielded mike cable, etc. Shield solders firmly in place. Standard 1/4 construction. Bright nickel shell 1/2" dia., 1 5/8" long. No. 18B154 (illustrated at right above)..... NET EACH **47c**

MERIX ANTI-STATIC



Removes crackling noise caused by static and also dust-attraction on vinylite or other plastic records. Also used on TV magnifier lens to stop dust attraction. To apply, simply wipe it on with a lintless cloth.

No. 11B265. 4 Oz. Size, EACH..... **47c**

AMPHENOL TV TUBE BASE AND STRAP

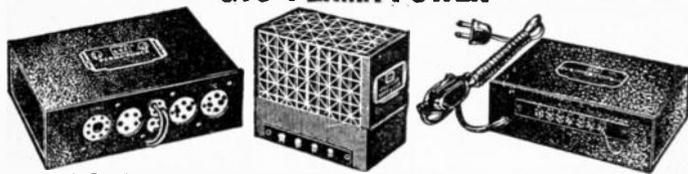
For mounting the new 16 inch picture tubes. Consists of polystyrene base, phenolic impregnated holding strap, adjustable to allow for size difference of tubes and rubber mounting cushions to absorb shock.



No. 35A107. Net Each..... **\$4.29**

INVERTERS, ELIMINATORS, CHARGERS & ACCESSORIES

GTC PERMA-POWER



MODEL A

MODEL B

MODEL E

Model A. A simple, plug-in unit to convert 1 1/2 volt battery sets for all electric operation from 110 V., 60 cycle AC lines. It has universal sockets to accommodate any radio and its small size will also fit most portables. Sufficient "A" and "B" power is supplied for 4 to 6 tube sets, 1 1/2 volts "A" at 350 MA and 90 volts "B" at 13 MA. The advanced design provides instant starting hum-free radio reception and trouble-free operation for many years. Complete with instructions. Size 2 1/8 x 4 1/2 x 6 3/4". Wt. 4 lbs. Supplied with AC line cord and plug.

Stock No. 36A11. NET EACH..... \$8.79

Model B. Converts 6 volt radios for all electric operation on 110 V., 60 cycles AC lines. The newly designed unit has two isolated 6 volt sources, one for the vibrator and one for the filament circuit of the radio, completely eliminating interference caused by the vibrator. Each 6-volt source provides 1 1/2 amperes, a total of 3 amps when connected in parallel. There are no tubes to replace and it will give years of trouble-free service. Size 3 5/8 x 6 1/8 x 5 1/2 inches. Wt. 7 lbs. Supplied with AC line cord and plug.

Stock No. 36A12. NET PRICE..... \$11.73

Model E. For converting 2 volt battery radios to operate on 110 V. 60 cycle AC lines. Has terminals for 2 V. "A" at 3/4 amp. and 135 V. "B" at 25 MA tapped at 112 V., 90 V. and 67 V. Fits into radio battery compartment. Size 2 1/4 x 4 7/8 x 6 13/16". Supplied with AC cord, plug and switch. Wt. 4 lbs.

Stock No. 37A34 NET EACH..... \$11.02

MALLORY 6 AND 12 VOLT TAPER TYPE BATTERY CHARGERS



With trouble-free dry disc rectifiers and auto type fuse to protect the charger from improper connection to battery, and from serious overloads. Charges at maximum rate at start, decreasing as battery becomes fully charged. May also be used for electroplating, toy and model train operation, loud speaker fields, coin machines, and other applications requiring low voltage D.C.

Type MMF-12 Filter can be added to 6 volt models where well-filtered DC is required. **Type** to be added to all models. All are equipped with 6 ft. AC line cord and 6 ft. battery cable with clips. For use on 115 V. 60 cycle AC.

FOR 6 VOLT BATTERY

Type 6AC4. Max. charging rate 4 amps, tapers to 2 amps. Size 4 7/16 x 7 3/8 x 3 5/16" deep. Less ammeter.

Stock No. 33A26. Your Cost. Each..... \$9.77

Type 6AC6. (Illustrated) Max. charging rate 6 amps, tapers to 4 amps. Size 6 x 8 x 4 1/4" deep. With Light Indicator.

Stock No. 33A27. Your Cost. Each..... \$13.03

Type 6AC10. Max. charging rate 10 amps, tapers to 7 amps. Size 6 3/8 x 10 3/8 x 5 1/2" deep. With ammeter.

Stock No. 33A90. Your Cost. Each..... \$18.26

FOR 12 VOLT BATTERY

Type 12AC5. Max. charging rate 5 amps, tapers to 3 amps. Size 6 3/8 x 10 3/8 x 5 1/2" deep. With ammeter.

Stock No. 33A28. Your Cost..... \$23.49

CHARGER ACCESSORIES

Type R652 Dash Receptacle. Universal Clamp-on connector for installation in Car. Special plug and cord furnished for connection to charger. Makes connection to battery extremely fast and simple

Stock No. 33A91. YOUR COST..... \$1.18

Type R655 Plug-in Adapter. Special plug to fit cigar lighter dash receptacle. Makes positive contact to battery circuit and requires no wiring changes or additions in car.

Stock No. 14A768. YOUR COST..... \$1.18

Type MMF-12 Filter. Capacity rating 12,000 mfd at 10 V. DC. For use with all chargers above except type 12AC5 or on any other DC source not exceeding 10 V. Converts charger to DC power pack for testing radios, etc.

Stock No. 37A35. YOUR COST..... \$9.31

VARIABLE VOLTAGE REGULATORS



Especially recommended for use on radios in areas where line voltage is high or varies considerably. Helps prevent tube and parts failure due to overload. Also useful for controlling soldering iron heat or light intensity. Plugs into power outlet ahead of load. Equipped with cord receptacle and voltage adjuster.

Type 211 for equipment rated up to 65 watts. Adjustable, 5 positions.

Stock No. 17A1185. YOUR COST..... \$1.76

Type 211B for equipment rated up to 150 watts. Adjustable, 8 positions.

Stock No. 17A1186. YOUR COST..... \$2.94

MALLORY ULTRA-COMPACT RECTIFIERS



Only 9/16" diameter, and 7/8" overall height including terminals. **Type 1B4R.** Replacement in Porta-Power, Electro and similar 1 1/2-volt units.

No. 14A634. NET EACH..... \$1.34

Type 1B8R. Like above, except has 8 junctions instead of 4. Maximum AC volts (115 line or equivalent) 7.2 at no load, 6.44 operating. Maximum intermittent DC amps, 5.

No. 14A632. NET EACH..... \$1.60

ATR "A" BATTERY ELIMINATORS

Delivers direct current for testing and demonstrating auto radios and other 6 V. DC electrical apparatus, relays and motors. Operates from 105-125 volt 50-60 cycle AC. Noiseless and interference free. Dry disc selenium rectifiers assure long life and trouble free service. Units may be hooked in parallel or series to obtain higher current or voltage. Gray wrinkle cabinets have rubber feet and 6 ft. cord and plug.

Model 610-ELIB. Rated 6 volt 10 amperes. Has voltmeter and 8 step control for exact voltage setting, wing nut output terminals off-on switch and fuse. Size 6 1/2 x 9 1/8 x 8 1/2". Weight, 22 lbs.

Stock No. 32A285. NET EACH..... \$31.75

Model 620C-ELIP. (Illus.) Heavy duty dual purpose unit, rated 6 volts at 18 amperes or 12 volts at 9 amperes. Has output voltmeter and ammeter with 8 step voltage control. Dual rectifiers provide dependable trouble free service. Size, 6 1/2 x 12 7/8 x 8 1/2". Weight, 33 lbs.

Stock No. 32A286. NET EACH..... \$48.80



ATR RADIO INVERTERS

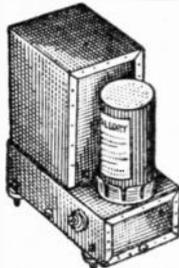


Specially designed for operating AC radios, public address systems, television sets, intercoms and similar electronic equipment in DC districts, on ships, trains, planes, etc. Radio frequency interference is completely suppressed. Equipped with four-point voltage regulators and special long life plug-in inverter vibrator. Input cord on 6 V. and 12 V. types equipped with battery clips. Efficiency greater than 5%. Recommended load power factor 80% or greater. In attractively finished grey-wrinkle metal cabinets size RSC 8 3/8 x 9 x 5 1/4". Wt. 19 lbs.

Size RHC 6 1/2 x 11 1/8 x 8 1/2". Wt. 30 lbs. Output voltage of all models is 110 V. AC, 60 cycles.

Stock No.	DC V. INPUT	OUTPUT WATTAGE INTERMITTENT	CONTINUOUS	ATR TYPE NO.	NET EACH
32A277	6	85	75	6RSC	\$29.37
32A278	12	125	100	12RSC	29.37
32A279	32	150	100	32RSC	29.37
32A280	32	200	180	32B-RHC	46.75
32A281	110	250	150	110-RSC	29.37

Mallory "Vibrapak" Portable Power



Dependable and inexpensive plate voltage for portable and mobile equipment. The ideal plate voltage where electric power is not available. Delivers up to 300 volts at 100 M.A. of easily filtered rectified D.C. Output variable in 4 steps of 25 volts each, controlled by switch connected to various transformer taps. Maximum efficiency is obtained for all load conditions. Small in size—easily mounted.

Models 551, 552 and C556 are self rectifying. Tube rectifiers supplied with all others.

*High Output Type, VP555 supplies 200 ma., VP557, 150 ma. All others 100 ma.

Stock No.	Type	Input Volts	Nominal Output Voltage	Your Cost
33A29	VP551	6.3	125-150-175-200	\$12.94
33A30	VP552	6.3	225-250-275-300	15.44
33A31	VP553	6.3	125-150-175-200	14.41
33A32	VP554H	6.3	225-250-275-300	16.91
33A33	VP555H*	6.3	300	30.58
33A34	VP557*	6.3	400	30.58
33A35	VP655*	12.6	225-250-275-300	18.91
33A36	VPF558	32	225-250-275-300	18.38
33A37	VF223		Single Unit Filter	4.70

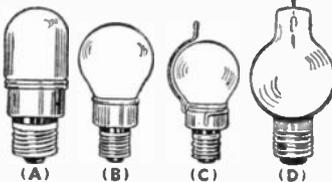
Mallory Filtered Vibrapak

Completely Filtered Type VP540, complete "B" power unit for any electronic device operating on 250 V. D.C. with 60 ma. drain; powered from 6 V. storage battery. Ideal for auto, marine and airplane broadcast or short wave receivers and for mobile police receivers. Self rectifying. Size 7 1/2 x 4 x 5 1/8"

33A38. YOUR COST, Each..... \$17.64

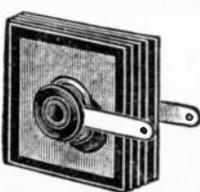
GENUINE G.E. TUNGAR BULBS

For replacement in battery chargers and DC power supplies. With thoriated tungsten filaments and gas filled for long, efficient life.



No.	Type	Fig.	Amps	Each
37A37	289881	A	0.5	\$2.94
37A38	12X825	B	2	3.31
37A39	206501	C	2	3.31
37A40	20X672	B	5	4.41
37A41	189048	D	6	3.67
37A42	189049	D	6	3.67
37A43	217283	D	15	7.35

MIDGET SELENIUM RECTIFIERS



For 115-Volt, 75 to 250 MA maximum. An advanced selenium disc type rectifier with aluminum fins. It starts instantly, runs cool, and has long life. Especially recommended for rectifier replacement in 115-volt AC/DC radios and amplifiers. May also be used in a simple bias supply.

Stk. No.	MA Max.	Size	Net Each	6@Each
14A506	75	1 x 1 x 1 1/8"	\$0.78	\$0.74
15A635	100	1 x 1 x 1 1/8"	.96	.90
15A507	150	1 1/2 x 1 1/2 x 1 1/8"	1.14	1.04
15A508	200	1 1/2 x 1 1/2 x 1 1/8"	1.30	1.27
19A253	250	1 1/2 x 1 1/4 x 1 1/8"	1.53	1.44

Pict-O-Graph KITS

Designed for increasing knowledge of electronics by actual construction of useful apparatus. Kits can be assembled successfully without previous radio experience, and without the use of technical diagrams and symbols. Each kit is furnished with "Pict-O-Graph" charts taken from actual photos of working models, plus detailed step-by-step instructions and all necessary parts including tubes, but less wire and solder. Highly recommended for school class use.



ONE-TUBE AC-DC RADIO KIT (FIG. A)

Tunes regular broadcast stations and will operate one or two pairs of headphones. Plugs into 110-volt AC-DC socket. With 6SL7 tube.

No. 37A62. T-10 KIT, Less Headphones. Your Cost. **\$5.83**

TWO-TUBE AC-DC RADIO KIT (FIG. B)

An excellent set for the beginner or for early instruction in radio classes. Permeability iron core assembly eliminates variable condenser and antenna coil. Supplied with two dual purpose 6SL7 tubes. Dial is calibrated for broadcast band. Set will operate several pairs of headphones.

No. 37A63. RT-20 KIT, Less Headphones. Your Cost. **\$7.79**

FIVE-TUBE AC-DC SUPERHET RADIO KIT (FIG. C)

Well engineered for high selectivity and sensitivity. Employs a loop antenna. When properly assembled, only minor adjustments, without service instruments, are required for peak performance. Tunes 540 KC-1600 KC. Complete with tubes and PM speaker, less cabinet.

No. 37A64. S-500 KIT. Your Cost. **\$13.67**

FIVE-TUBE TWO-BAND RADIO KIT (FIG. C)

A superhet having high selectivity on both short wave and broadcast bands (6.9 MC to 17 MC, 540 KC to 1600 KC), using beam power output and employing loop antenna for broadcast reception. Kit supplied complete with speaker, tubes, all necessary coils, loop, etc. Only minor adjustments to peak unit for maximum performance.

No. 37A97. MODEL S-520 TWO-BAND KIT. **\$14.65**

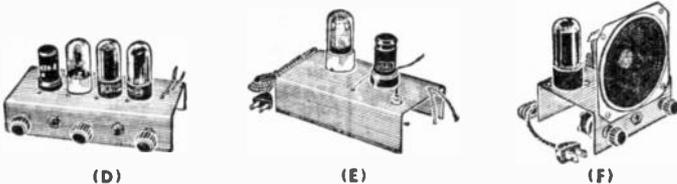
BLACK PLASTIC CABINET. Fits above superhet radios, Models S-500 and S-520. Size, 9 1/2 x 5 1/2 x 6" high.

No. 37A65. Your Cost. **\$1.91**

NEW 4-IN-1 RADIO KIT

An electronic kit combining in a single instrument an amplifier, code practice oscillator, radio receiver and miniature radio transmitter. The "Quadracual" Q-5 kit is ideal for school or home. 5 tubes are employed as follows: 35Z5 rect.; 50L6 output; 12SL7 as amp.; 12SK7 det.; and the 12SA7 as osc. for broadcast transmission. Complete with tubes. Alnico 5" PM Speaker, and all necessary parts including instructions and diagrams.

No. 37A101. Quadracual Q-5 KIT. YOUR COST. **\$19.11**



FOUR-TUBE AC-DC AMPLIFIER KIT (FIG. D)

Will play a crystal phono pickup or microphone clearly and with plenty volume through a loud speaker. Fine for electric phono amplifier. Equipped with tone control and separate volume controls for mike and phono. Supplied with 12SJ7, 12SQ7, 50L6 and 35Z5 tubes. Less speaker.

No. 37A66. AM-40 KIT. Your Cost. **\$8.77**

WIRELESS PHONO OSCILLATOR KIT (FIG. E)

Works with any radio and crystal phono pickup to play records without actual wire connections to radio. Effective over a distance of 100 ft. With 6SA7 and 6SK7 tubes. Plugs into 110-volt AC or DC socket.

No. 37A67. PH-20 KIT. Your Cost. **\$4.70**

CODE PRACTICE OSCILLATOR KIT (FIG. F)

Produces clear rich tone through its own speaker. Will also operate headphones, either singly or in large numbers for class room use. Equipped with volume control and tone control to vary note from low to high (600 to 1500 cycles). For use on 110-volt AC or DC. Supplied with 117L7 tube and PM dynamic speaker, less headphones.

No. 37A68. CP-12 KIT. Your Cost. **\$7.79**

CRYSTAL RADIO KIT

Kit includes fully wound tuning slide-coil, crystal detector and "cat's whisker". A screwdriver is all you need to assemble this kit. No soldering. Complete with instructions.

No. 17A825. KIT CX-1. Your Cost. **88c**

CRYSTAL RADIO KIT

A practical beginners kit complete with tested crystal base, coil form and simple instructions. Easily assembled without a soldering iron. Reception is clear, set easy to tune. Less headphones and antenna.

20B105. Model 102. NET EACH **\$1.15**

PEANUT TUBE RADIO KIT

A complete one-tube tuner and amplifier ready to assemble, only a screwdriver needed. Lucite coil form and base. Battery operated. Simple instructions and 1L4 tube supplied. Short antenna needed.

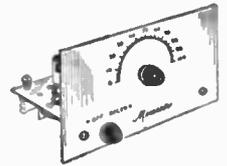
No. 20B110. Model 200. Less Headphones and Batteries. NET EACH. **\$2.32**

Batteries for above. 1-21A5 @ **50c**; 1-21A8 @ **\$1.48**

KITS, CABINETS, PHOTO-CELLS

MEISSNER RADIO KITS

Meissner kits are designed for the beginner so that he can obtain the basic principles of radio by assembling his own set. All kits supplied with tubes, detailed pictorial diagrams, simplified schematic, wire, hardware, and solder.



MODEL 2BK BATTERY TRAINER KIT

A regenerative battery operated kit with pentode output stage, using one each 1T4 and 3V4 tubes. Batteries required: 4 1/2-volt "A" (21A15 @ 57c each) and 90-volt "B" (2-21A19 45-volt @ \$1.51 each). Size, 7 3/4 x 4 1/4" deep. Weight, 2 lbs.

No. 37A102. 2BK KIT, WITH BROADCAST COIL AND TUBES, LESS BATTERIES AND HEADPHONES. NET. **\$9.11**

EXTRA PLUG-IN COILS FOR 2BK AND 3BK KITS

No. 17B1106. Coil for 1.4 to 4.5 MC.
No. 17B1116. Coil for 3.5 to 8 MC.
No. 17A1191. Coil for 7.9 to 18 MC.
No. 17A1192. Coil for 15 to 34 MC.

YOUR CHOICE, EACH. **50c**

MODEL 3BK AC-DC TRAINER KIT

A three-tube regenerative circuit kit using one type 6BJ6 and two 50B5 tubes. A "dandy" for the experimenter or student as a starter! AC powered designed for plug-in coils 540 KC to 34 MC. Shipped with coil for broadcast band. Size, 7 3/4 x 4 1/4 x 4 1/2" deep. Weight 1 3/4 lbs. See additional coils above.

No. 37A103. 3BK, Less Headphones. NET. **\$10.88**

PHILMORE RADIO CRYSTAL KIT

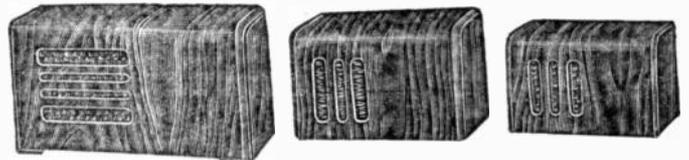
Complete in every detail including headphone. Bakelite base, crystal, holder, "cat's whisker", support, and all necessary hardware are supplied. This "Supertone Kit" with simple easy to follow construction information is ideal for the student or experimenter. Provides clear reception for local stations.

No. 20A810. Model 7001A. NET EACH. **\$1.95**

MURDOCK. The last word in headphones. Designed for lightness and scientifically fitted for comfortable wear at long periods of time. Easy adjustment, leather covered band, nickel plated guides, pin tip plugs and flexible 6 ft. tinsel cord create an ideal 10,000-ohm impedance headphone.

No. 17B732. MODEL 111. NET. **\$4.12**

RADIO CABINETS FOR EXPERIMENTAL AND REPLACEMENT USE



Left above—Waterfall front, fine looking blank cabinet for radio chassis with 7 to 10 tubes. Reinforced dovetail construction with glued corner braces. INSIDE DIMENSIONS: 13 3/4" long, 6 1/4" deep, 7 3/8" high; overall size, 15 1/4" long, 6 1/4" wide, 8 1/8" high. Shaded WALNUT finish

No. 3A21. LARGE SIZE RADIO CABINET. NET EACH. **\$3.59**

Center above—Blank, WALNUT finish radio cabinet for 5 to 6 tube chassis. INSIDE DIMENSIONS: 10 1/8" long, 5 1/8" deep, 6 3/8" high; OUTSIDE: 10 7/8" long, 5 1/8" wide, 7" high.

No. 3A20. MEDIUM SIZE RADIO CABINET. NET EACH. **\$2.68**

Right above—WALNUT finish blank front radio cabinet for 4-tube chassis. INSIDE DIMENSIONS: 8 3/8" long, 4 1/4" deep, 5 1/2" high; OUTSIDE: 9" long, 4 1/4" wide, 6" high.

No. 3A19. SMALL SIZE RADIO CABINET. NET EACH. **\$2.15**

WORNER PHOTO-CELL EQUIPMENT

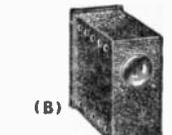
MODEL 69 PHOTO-ELECTRIC KIT (Fig. A). Practical experimental equipment designed for teachers, students and hobbyists. Complete instructions, diagrams and parts are supplied for easy assembly of an AC operated photo cell amplifier that will actuate a control relay merely through a change of light intensity. Kit includes photo cell and S.P.D.T. relay having contacts rated at 2 amps. Black wrinkle finish. Size, 5 1/8 x 5 1/4 x 2".

No. 37A69. NET EACH. **\$9.85**



MODEL 39 LIGHT SOURCE KIT (Fig. B). Assembles easily into a companion unit for Model 69 Kit. Contains a special 50-watt bulb and an optical system to project a beam 25 feet. With cord and plug. Black wrinkle finish. Size, 4 5/8 x 4 3/4 x 2 1/2".

No. 37A70. NET EACH. **\$5.88**



HI-POWER PHONO OSCILLATOR

Special LOOP, fed by 2-TUBE AMPLIFIER, supplies plenty of power for ANY phono pick-up! Record player can be as far as 100 FEET from radio (impossible with other phono oscillators); wide frequency range of 1000 to 1700 KC allows tuning radio set out of broadcast band for clear record music. Compact size, 4 x 2 3/4 x 4"; requires 50L6 and 35Z5 tubes; 110 volt A.C.-D.C.; Less Tubes.

No. 17A409. "Loop Caster." Each **\$5.83**

HOW TO BUILD CONSTRUCTION MANUAL

Containing information on Theory, Design and construction of AM, FM, TV, Phono Pickups, Amplifiers, Speakers, Disc Recorders, etc. Charts, schematics and wiring diagrams fully illustrated.

No. 16B362. NET. **\$1.00**



Headphones - Kits - Crystal Sets - etc

TRIMM HEADSETS



TRIMM "FEATHERWEIGHTS"

World famous as a quality headset. Weighs only 4 1/2 ozs. 5 ft. moisture-proof, wear-resisting cord and adjustable nickel plated steel head band. Bakelite shell and cap. Magnet of highest quality 36% cobalt steel alloy. Pole pieces of finest magnetic iron. Coils especially impregnated. A custom built phone throughout.

No. 17A20. 4000-ohm for general purpose use. **\$5.88**
 No. 17A21. 24000-ohm for short wave work, amateurs, etc. **\$5.88**
 Per Pair.....

TRIMM "PROFESSIONALS"

For general radio communication use. Forged magnet of chrome steel, impregnated coils, 5 ft. moisture-proof, wear-resisting cord, entirely concealed terminals. Fabric covered wire headband. Bakelite cap and shells.

No. 17A23. 4000 ohms. **\$2.94**
 Per Pair.....

TRIMM "ACME"

A superior headset in the light weight, low price field. Cap and shell of molded bakelite, chrome steel magnets, weighs only 6 ozs. complete with two units. 4 1/2 ft. cord and metal headband.

17A25. Double Headset. **\$1.62**
 2000 ohms DC resistance...
 17A26. Single Headset. **97c**
 1000 ohms DC resistance.....

GROUP HEARING AID COMPONENTS

TRIMM FEATHERWEIGHT Lorgnette Type Phone



Small, Light. Hearing unit only 2 1/8" dia. x 3/4" thick. Weighs only 1 1/2 oz. but durably constructed of black plastic material. Hi-impedance 2000 ohms, DC resistance 2000 ohms. Ideal for large installations using 500 ohm lines. With 6-ft. cord.

No. 14A784. **\$4.41**
 Net Each.....

TRIMM OUTLET BOX With Volume Control



Combines in a single unit volume control phone jack and terminal strip for incoming circuit. Brown wrinkle finish, 3 3/4 x 2 1/8". Control is 10,000 ohms for use with above phones.

No. 14A782. **\$2.36**
 Net Each.....

TRIMM PHONE PLUG

Flat type non-protruding. Body of black plastic. Set screw recessed openings for pin tips with stay cord anchorage. Fits standard phone jacks.

No. 14A783. Net Each..... **38c**

"Supertone" Crystal Set



A well constructed set presenting an unusual value for the price. Reception is clear, easy to tune and with the special glass enclosed crystal and detector its sensitivity is assured for a long time. Entire assembly mounted in attractive bakelite case.

No. 17A336. Net Each... **\$1.26**

1N34 CRYSTAL DIODE

Fixed crystal detector much superior to ordinary crystals.

No. 12A450. Net Each... **\$1.35**

WHEELER SOUND-POWERED HANDSET

No Batteries—No Power Supply Needed

Has remarkable speech fidelity. Operates over two conductor or single wire ground return circuit. 12 handsets can be used in multiple for group conversation.

Ideal for Television installers, Linesmen, construction workers, etc., or for home use. Durably constructed of molded black phenolic, with 3 1/2-ft. rubber cable and rubber insulated clips for quick connection to line for satisfactory operation for over 20 miles.

No. 37A50. Brand New—NOT WAR SURPLUS. YOUR COST EACH..... **\$8.57**



"TELEX" AIDS to BETTER HEARING



(A) NEW . . . IMPROVED HIGH FIDELITY PILLOW SPEAKER

For Private Radio Listening

Listen in comfort without disturbing others with the new improved Telex miniature pillow speaker. Ideal for the home, the hospital, the hotel, or anywhere private radio listening is desired—either in bed, or in a chair. Extremely small in size, compact, weighs only 1.1 ozs. Can be attached to any radio or public amplifying system. Its higher sensitivity, wider frequency range, and greater output provide clear reproduction through upholstery or pillow. Pressure does not affect its sensitivity or frequency response. Durably constructed. Size, 2 1/4" dia., 1 1/16" thick. Comes with 5-ft. cord, standard phone plug and hook up instructions. List Price, \$10.95.

No. 19A194. EACH..... **\$6.44**

(B) STETHOSCOPE TYPE MONOSET HEADSET

For Comfortable Hearing

The New Modern Under-chin Headphone. You wear it under the chin instead of over the head. More comfort—less cumbersome than the older style headband types. Featherweight: Only 1.2 oz. No ear fatigue. Excellent fidelity. Clear, natural reception of sound. Covers every application where headphones are needed. Made of tough, durable tenite plastic with removable clear plastic eartips. Supplied complete with 5-ft. cord and phone plug. Impedance 2000 ohms.

No. 19A195. (2568) List, \$12.40. NET PAIR..... **\$7.29**

WITH VOLUME CONTROL

Control mounted in cord. Ideal for use in group hearing systems or other applications where more than one Monoset is used on the same line.

No. 19A196. (2841) List Price, \$16.40. NET PAIR..... **\$9.64**

(C) SENSATIONAL NEW . . . TELEX TWINSET

Nothing Touches the Ear

Something new and different. An extremely lightweight (1.6 oz.) headset that gives perfect listening comfort. Eliminates headachy ear pressure-listening fatigue. Twinset receivers rest lightly at the temples—no heavy, sweaty ear cups cover the ear. Adjustable tubular sound arm mounted on a locking ball-and-socket-joint pipes the sound into the ear—blocks out background noise completely. If preferred ear tips may float a fraction of an inch from the ear. Magnetic receivers have excellent sensitivity with high-fidelity reproduction. Of rugged construction. All major parts are of durable tenite plastic and bright nickel. Headband is of nickel steel wire encased in flexible plastic. No "Y" cord to worry with—single 5-ft. cord plugs into either receiver. List Price, \$15.00.

No. 17A42. 1000-Ohm Impedance. EACH..... **\$8.82**

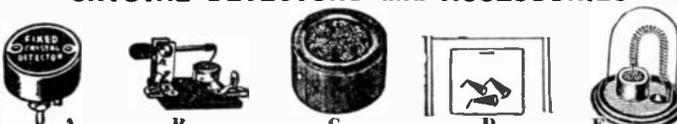
(D) NEW . . . TELEX EARSET

The Modern Earphone That Slips Onto the Ear

A single phone earset that's convenient and comfortable to wear. Weighs only 1/2-oz.—small enough to fit into a vest pocket. Plastic frame slips onto either ear holding earset securely in place. Other ear is free for conversation, phone calls, etc. Has excellent sensitivity and fidelity. Single cord connection gives user complete freedom of movement. Supplied complete with 5-ft. cord and standard phone plug. List Price, \$10.50.

No. 17A43. 2000-Ohm Impedance. EACH..... **\$6.17**

CRYSTAL DETECTORS and ACCESSORIES



(A) No. 17A143. Fixed Crystal Detector. Will give renewed action to reflex or crystal sets. Meter tested for sensitivity, and permanently fixed. Made to withstand high voltage.

Compact, in bakelite case. Net Each..... **48c**

(B) No. 17A44. Open Type Crystal Detector. Universal joint on swivel arm provides quick accurate adjustment on any point of crystal. (Less Crystal.) Net Each..... **12c**

(C) No. 12A1401. Super Sensitive Crystals. Made from finest galena ore. Net Each..... **7c; 10 for..... 63c**

(D) No. 17A144. Spring Cat Whiskers. Universal for all crystal sets. Best Quality. Per Pkg. of Three..... **9c 10 Pkgs. for..... 80c**

(E) No. 17A145. Glass Enclosed Crystal Detector. A very high-grade dust-proof glass encased detector. Complete with super-sensitive crystal. Easily adjusted. Net Each..... **30c**

BRANDES HEADSETS



BRANDES SUPERIOR

A favorite for years. Ruggedly built, outside terminal type, with metal cases and bakelite caps. Diaphragm diameter 2 1/8". Has double coils, two in each receiver; adjustable flexible metal split headband. 4 1/2 ft. cord. Magnets of high retentivity are 1/4" square. Resistance 2000 ohms per pair.

No. 17A27. **\$2.03**
 Per Pair.....

BRANDES ADMIRAL

Similar to above, but with terminals inside case. Have metal cases, bakelite caps, double coil magnets. Sturdy and light weight.

No. 17A28. 2000 ohms... **\$2.13**

17B198. 5000 ohms..... **\$3.22**

CANNON BALL "DIXIE"

A good quality phone at a low price. Cases are metal with bakelite caps. Diaphragm diameter 2 1/16". Double coils, two in each unit; magnets of heavy bar magnet steel 1/4" square. 4 1/2 ft. cords.

No. 17A29. 2000-ohm. Pair **\$1.73**

BRUSH CRYSTAL PHONES

Type A. high impedance, response 60 to 10,000 cycles. Light in weight, 6 oz., very sensitive to weak signals. Ideal for measuring work, etc. Molded plastic case, shaped for maximum comfort.

17A30. Double Headset **\$7.06**

Pair... **\$7.06**

17A31. Single with cord and headband. Each... **\$3.79**



HEADPHONE CORDS

Copper tinsel inner conductor covered with closely woven cotton braid. Single cord 4 feet, double 4 1/2 feet.

No. 17A32. Single cord, pin tips one end, spade tips other **29c**

No. 17A33. Double cord, tips on both ends..... **39c**

No. 17A34. Double cord, tips on one end, spade lugs other **39c**

RUBBER PHONE CUSHIONS

Designed for comfort and to fit most any make of headphone. Widely used by airlines.

17A35. PER PAIR **65c**



3-IN-1 TUNER



As an Antenna Tuner, it increases signal strength. As a Wave Trap, it separates interfering stations. As an Aerial Eliminator, it makes out-door aerials unnecessary. Easy to install.

No. 17A205. **59c**
 Your Cost, Each.....

LITTLE WONDER CRYSTAL SET

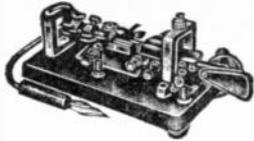


Small in size, but big in results. Will receive stations within 25 miles when used with suitable aerial and headphones.

No. 17A45. Net Each..... **97c**

Code Keys * SENDERS * and Oscillators

VIBROPLEX TRANSMITTING KEYS For Speed and Perfection



The "ORIGINAL"

For all types of communications work where speed and perfect Morse are essential. Single lever. Two pairs of contact points; one for dots, the other for dashes. Easy to adjust. Has unlimited sending possibilities. Comes complete with cord and wedge. Weight, 3 lbs. 8 oz.

DELUXE — Polished chromium top parts and base, red knobs, with jeweled movement.

No. 17A823. Each... **\$19.50**

STANDARD — Polished chromium top parts with black base.

No. 17A18. Each... **\$15.95**



The "CHAMPION"

A low price key for the amateur or professional radio operator. Has exceptional sending qualities — clarity, speed, sending ease. Black crystal finish, metal base with bright finished parts. Wt., 3 lbs 8 oz.

No. 17A19. EACH... **\$9.95**

CARRYING CASE

For Keys, etc. Exactly fit Vibroplex. Push lined case, finished in black morocco. Reinforced covers. Flexible leather handle. Has lock and key. Inside dimensions 6 3/4" L., 3 3/4" W., 4 1/4" high.

No. 17A36. Each... **\$5.50**

AMATEUR HI-SPEED KEY



Model 515 — Steel Base, 6 1/4 x 3 3/8". Die cast frame finished in baked black wrinkle enamel, hardware chrome plated. Heavy brass connector strips, adjustable weight and trunnion screws. Two sets 1/8" silver contacts, circuit closing switch and two adjustable paddles. Wt., 3 lbs.

No. 17B11. Each... **\$7.35**

Cord and Plug for Above. **88c**

No. 17A17. Each... **\$8.80**

GARDNER AUTOMATIC TAPE SENDER MODEL "S"

Deluxe compact automatic tape sender. Has silent 110-volt AC motor providing variable speed from 4 to 60 words per minute. Only 3 controls; motor switch, contact switch and speed control. Terminals for oscillator or buzzer. With 10 rolls double perforated tape (20 practice lessons) 5 1/2 x 4 1/2 x 6". Weight, 4 lbs.

No. 17A17. EACH... **\$23.52**

LINGUAPHONE Code Lesson Records For International Morse Code



Learn code this easy way at your own convenience. Slow or fast on your phono as you progress. Operates on any phono or record player.

Includes text book and 5 double faced 10" discs in album. No. 17A13. Per Set... **\$9.80**

The Popular J37 SENDING KEY at a Fraction of Its Regular Value! Heavy Duty!

1/8" silver contacts, frame of solid bakelite, phosphor bronze key lever, spring steel lever spring, brass hardware.

No. 17A414. A Terrific Value **49c**

Signal High Freq. Buzzer

Adjustable with standard resistance of two ohms. Finish of black crystallized lacquer.

17A7. Type R60. Each... **\$1.32**

POPULAR ARRL BOOKS FOR THE RADIO AMATEUR

RADIO AMATEUR HANDBOOK

Latest Edition—Has universal acceptance among amateurs, technicians and operators. Priceless information gathered on all phases of amateur radio. Presented in an easy-to-understand manner to give the amateur facts for getting the most out of designing and using his equipment. Also includes data on the latest equipment, ultra high frequencies, station operation standards.

No. 16A58. NET EACH... **\$2.00**

HOW TO BECOME A RADIO AMATEUR. Covers fundamentals, code, construction of transmitters, receivers, etc.

No. 16A62. EACH... **25c**

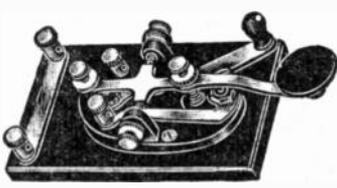
RADIO AMATEURS' LICENSE MANUAL. Tells how to secure amateur license. Contains F.C.C. rules and regulations. Covers probable questions for class A, B or C license examinations.

No. 16A60. EACH... **25c**

No. 16A59. EACH... **50c**

For Other ARRL and Amateur Books See Page 80

CODE PRACTICE KEY A Terrific Value!



A top quality (\$5.00 List Value) Code practice key, priced at a fraction of original cost. Mounted on bakelite base, 1 1/4 x 4 3/4 x 3". Binding post and contacts insulated with bakelite washers. Fully adjustable, well balanced operating lever. Has positive contact shorting spring. Contacts are of high grade tungsten securely fastened to eliminate any chance of becoming loose in operation. Ideal for keying amateur transmitters.

No. 17A38. Every One BRAND NEW in Original Factory Cartons. **69c** Special, Each... **69c**

Extra Key Knobs

12A1. Navy type knobs, Ea... **18c**
12A2. Standard knobs, Ea... **12c**
12A3. Paddle for high speed keys... **15c**

Signal R68 Practice Set



Designed for those who want a well made instrument to learn the code. Set consists of a key and high frequency buzzer mounted on a mahogany finished wood base equipped with binding posts. The code is printed on a plate and fastened to the base between the key and buzzer. Buzzer is adjustable.

No. 17A5. YOUR COST **\$3.82**

No. 21A9. 4 1/2-Volt Battery. **38c**

For use with above. EACH... **38c**

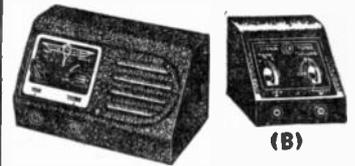


CODE PRACTICE SET

Consists of a top quality key and a Signal high frequency adjustable buzzer mounted on a bakelite base, equipped with binding posts ready for quick and simple connection to the 4 1/2-volt battery included. It's complete ready to use.

No. 5A145. EACH... **\$2.95**

ICA SIGNA-TONE CODE PRACTICE OSCILLATORS



(A)

An audio oscillator with 3 output frequencies and variable volume control. Produces signal like that of commercial CW station. For use as (1) Code Practice Set—with facilities for keys and phones for multiple code instruction; (2) Keying Monitor—will follow "bug" at all speeds; (3) Modulation Signal—for adjusting the modulation level of a transmitter; (4) Signal Tracer—locates defects when fed into audio stage of amplifier. For 110 volts AC or DC.

(A) DELUXE MODEL. With built-in speaker and tube. Cabinet size, 8 x 4 1/4 x 4 1/2". Wt., 3 1/2 lbs.

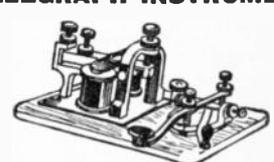
No. 17A14. EACH... **\$11.76**

(B) All the features of above but less speaker. With tube. Size, 4 1/2 x 4 x 4".

Weight, 2 3/4 lbs.

No. 20B61. EACH... **\$8.82**

SIGNAL TELEGRAPH INSTRUMENT



Sounder and Key — On private and short lines learners will find this instrument easy to handle. Clear, distinct tone. Bar frame and key base, black enamel, bridge is brass, sounding bar is aluminum with steel sounder plate. Key lever nickel plated. Mounted on mahogany finish wood base.

No. 17A8. NET EACH... **\$5.62**

FOUR ONLY—FOR USE WITH ANY KEY

Designed for tone quality and instant action. All adjustments simple and accurate. Bar frame is black enamel, aluminum sounding bar, brass bridge, and steel sounder plate. Mahogany finished wood base with binding posts.

17A9. **\$3.75** 17A10. **\$3.93**

4-Ohm 20-Ohm

NEW! "MICRO-VOX"

WIRELESS MICROPHONE TRANSMITS THROUGH ANY RADIO No Wires to Connect



A miniature radio station. The life of a party. Broadcasts over any radio within 75 ft. and there's no troublesome wires to connect. It's self-contained — ready to operate. Merely tune radio to clear channel then tune knob on "Micro-Vox" to same channel. Has hundreds of uses — such as a PA System, Paging System, Baby Listener, Detectophone, Practical Jokes, Mystery Voice, Etc. Simple to operate. Complete with tube and batteries. List Price, \$6.95.

No. 37B49. NET EACH... **\$4.63**

"MICRO-VOX" SOUND EFFECTS SET

For use with above. Consists of 15 studio sound effect devices for making realistic sounds plus sound effects manual. List Price, \$3.95.

No. 37B5. NET EACH... **\$2.63**

MON-KEY ELECTRONIC MONITOR AND SENDING KEY

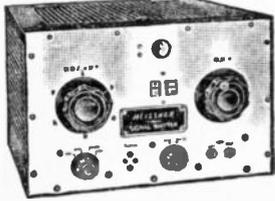


Flawless CW—Smooth, rhythmic as a tape. Electro-timed Key automatically makes dashes — as well as dots — spaced in proportion to their length. Simple to Operate — A pleasure to read. Features: • Automatic dots and dashes. • Dashes equal to 3 dots in duration. • Speed approximately 8 to 45 words per minute. • Speed changed instantly with new dial setting. • No weights to adjust. • 3 Tubes — 2 12AU7, 1 35W4. • Built-in monitor with volume controls. • Operation, 115-volt AC or DC. Has transparent plastic cover over key mechanism. Size, 11 x 4 1/2 x 4" high. Black wrinkle finish. Weight, 6 lbs. **\$29.95**

TIME PROVEN AMATEUR STATION EQUIPMENT

MEISSNER IMPROVED SIGNAL SHIFTER

AVAILABLE IN
KIT FORM
OR WIRED



An extremely stable variable frequency exciter with band switching, accomplished by a 6-position shielded coil turret. A front panel crystal socket has 1/2" or 3/4" pin spacing. Power output is in

excess of 6 watts on all bands. Keying can be accomplished either in the oscillator or amplifier circuits. Uses 6V6GT osc., 807 amplifier and doubler and a 6C5 tuning eye for visual check of overall operation. Power supply is separate, but mounts within cabinet with RF unit, and uses 2 5Y3 Rectifiers and a VR150 regulator. Cabinet is grey wrinkle enamel, 13 13/16x13 1/4x8 3/4" high. Power supply operates from 110-volt, 60-cycle AC.

Meissner Signal Shifter Kit including every part to build a complete shifter; power supply, detailed instructions, coils for 80, 40, 20, 15 and 11-10 meter bands, and all tubes. **Nothing else to buy.**

No. 34A160. Meissner 10-1207 Shifter Kit..... **\$64.75**

Meissner EX Signal Shifter wired ready for operation, less power supply and coil strips. Complete with tubes and instructions. **\$66.50**

No. 30B147. Meissner EX Signal Shifter. NET EACH..... **\$13.00**

Model EP Power Supply for above; with tubes. **\$13.00**

No. 36A27. NET EACH..... **\$4.00**

No. 36C26. 160 Meter Coil Strip No. 36A31. 15 Meter Coil Strip CHOICE, EACH

No. 36A28. 80 Meter Coil Strip No. 36A32. 10 Meter Coil Strip

No. 36A29. 40 Meter Coil Strip No. 36A33. 6 Meter Coil Strip

No. 36A30. 20 Meter Coil Strip **\$4.00**

FMX MEISSNER PHASE MODULATOR (Fig. B)

For use with EX Signal Shifter. Fits in the cabinet in place of power supply which then becomes remotely located and supplies power for both units. Phase modulator tubes are 6J57, 6SG7 and VR150. These combined units make a very inexpensive NBFM or CW transmitter and will drive higher power final up to a kilowatt.

No. 34A161. FMX Phase Modulator. Complete, Less Tubes... **\$15.00**

STANCOR TRANSMITTERS



① 125-watt C.W. Kit with band switching exciter covering 3.5-30 MC in six bands completely self contained, features ease of construction, panel selection of six crystal frequencies, separate 350 and 1000 volt power supplies, exciter keying, meter switching and adj. link output coil.

AM or FM modulation may be added. Uses 6V6 osc., 6L6 buffer-doubler, choice of triode output such as 811 or 5514, 5Y3GT and 5R4GY rectifiers. Terminals for antenna, key, remote stand-by switch, and AM modulator. Kit includes cabinet, detailed instruction manual, and all components, except the milliammeter, 5 tubes, amplifier tank coils, and crystals. Tank coils required are B&W-BVL type. Size, 14 1/16x13 3/16x9" high for operation on 105/120-volt, 60-cycle AC. Weight, 55 lbs.

No. 31A231. Stancor ST202-A Kit as described. NET EACH... **\$92.80**

② Mobile Transmitter Model ST203-A. A 25-watt crystal controlled phone transmitter 27 to 32 MC, designed for your car or fixed station operation. Requires 400/500 DC volts at 200 MA and 6 volts AC or DC at 2.8 amps, which can be supplied from dynamotor, vibrator power supply or regular AC supply. Uses 6V6 osc. working from 7 MC crystals, 2E26 class C amp., 6J5 grounded grid speech amp. and P.P. 6V6 Modulators. Press-to-talk Mike switch operates the unit. Osc. amp., and antenna controls are on front panel as well as antenna jacks, mike and meter jacks with meter and crystal switch, allowing choice of two crystals. Size, 8 5/8" wide, 7 3/8" high, 6 3/4" deep. Weight, 9 1/4 lbs. Has base mounting clip fasteners. Less tubes and crystals. **\$44.70**

No. 36A81. ST203-A. KIT ONLY..... **\$58.90**

No. 36A82. ST203-A. FACTORY WIRED..... **\$58.90**

60-WATT TRANSMITTER — TELVAR T60-2

PHONE OR CW—10 TO 80 METERS

A trans. using plug-in coils, 6L6G regen. crystal osc., 2 6L6Gs in the final amp. operating as a push-push doubler requiring no neutralization. Audio line-up includes 6SN7GT cascaded speech amp., 6SN7GT phase inverter and 2 6L6Gs PP class AB modulators. Any crystal or high impedance mike may be used. Two power supplies, using 5U4G rectifiers. Has built-in antenna change-over relay, meter switching, front panel crystal socket, power plug for battery or vibra-pack operation, and send-receive switch. Neat gray wrinkle finished cabinet 17x11x9" high. For 115-V., 60-Cy. AC.



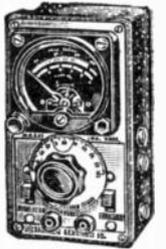
Stock No. 32A6. T-60-2 Transmitter with Tubes and Coils **\$150.00**

No. 33A78. 80 Meter Coil Set. No. 33A80. 20 Meter Coil Set. **\$5.50**

No. 33A79. 40 Meter Coil Set. Net Each **\$5.50**

SIMPSON HAM WAVEMETER AND MODULATION INDICATOR

Accurate Wavemeter covering all ham bands. 0-100 micro-ammeter resonance indicator. Coils for 10, 20, 40, 80 meters and flexible antenna operating as quarter wave length for 144, 235, 420 MC. Extremely sensitive field strength meter calibrated to obtain accurate antenna adjustment and as a monitor for transmitted signal. Has push-button for increasing sensitivity. Percentage Modulation indicator calibrated 0-110%. 2x2 1/2x5 1/4" completely shielded aluminum case.



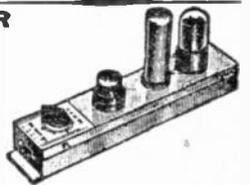
No. 35A92. Model 380 with 4 coils and Flexible Antenna. YOUR COST..... **\$37.09**

No. 35A93. Leatherette Covered Hinged Lid Case, compartmented for instrument and coils. **\$6.61**

EACH..... **\$6.61**

ELECTRO-VOICE SPEECH CLIPPER

Clips the tops and bottoms from speech frequencies above a pre-set level. Adds to intelligence of speech transmission especially when QRM and QRN are high. Attenuates side bands above 3000 cps. holding modulation at 100%. Connects between hi-impedance mike and amplifier input. Complete with 6SC7 and 6H6 tubes on aluminum chassis 10 1/4x2 1/4x1 1/2". Requires 150 volts at 5 MA and 6.3 volts at .6 amperes. NET



No. 16A459. E. V. Model 1000..... **\$14.41**

GONSET RECEIVER CONVERTERS

MODEL 3-30 MOBILE CONVERTER. Continuous coverage 3-30 MC. Has good Amateur band spread, high sensitivity, 4 RF low drain tubes. Size 5 1/4x3 1/2x5 1/4". Wt. 2 lbs. **\$39.95**

No. 33A73. Net Each..... **\$39.95**

NEW MODEL for 1.6-4 MC. Ideal for Amateur, Police, Marine and aircraft, with good band spread and high sensitivity. Attaches to any home or car radio. Size 5 1/4x3 1/2x5 1/4". Wt. 2 lbs. **\$39.95**

No. 33B92. Net Each..... **\$39.95**

10-11 Meter Converter Model 10-11. Gives unexcelled results for mobile or fixed use when connected to broadcast, communications or auto receiver. Fine for converting BC348. Two 6AK5, 6C4 and OB2 supplied. Band spread 8-1 ratio. Weight 2 lbs.

No. 33A59. Model 10-11 Converter. NET EACH..... **\$39.95**

Clipper Noise Silencer, aids in reduction of all types of interference, especially recommended for mobile receivers. Size, 2x4x1 1/2". **\$8.25**

No. 33A60. Clipper with instructions and Cable..... **\$8.25**

TRIPLETT ABSORPTION FREQUENCY METER

COVERS 80-10 METERS BAND SWITCHING



A highly sensitive instrument with built-in indicating meter and germanium crystal rectifier. Enables positive identification of resonant frequency of transmitter stages. Makes a handy phone monitor. Size including coil 7 1/2x2 1/2x2 1/4". No. 19A264. Model 3256 Frequency Meter..... **\$15.93**

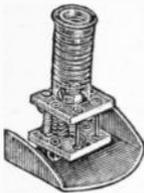
THE BUD "GIMIX"



For RF identification and signal monitoring. Can be used as an absorption wavemeter covering 80, 40, 20, 15 and 10 meter bands; as a phone monitor, field strength meter, neutralizing indicator and carrier shift indicator. Has built-in resonance indicator and jack for headphone or meter. Size 6x2x2 3/4". No. 17A565. Your Cost... **\$8.13**

MILLEN MIDGET ABSORPTION FREQ. METERS

To check harmonics, parasitics, tank tuning, etc. An easy way to determine the resonant frequency of doubler multiplier circuits all the way up to the UHF range. Calibrated directly in frequency.



Stock No.	Millen No.	Range	Net Each
17A764	90605	3 to 10 MC	\$4.50
17A765	90606	9 to 23 MC	4.50
17A766	90607	23 to 60 MC	4.50
17A767	90608	50 to 140 MC	4.50

Complete set of four Frequency Meters in carrying case. No. 17A763. Millen No. 90600. **\$18.00**

MILLEN 90800 EXCITER

Famous 50-watt exciter-transmitter using plug-in coils for 80 to 10 meters. Assembled on 3 1/2" rack panel, using 6L6G tritret osc. and 807 output. Requires power supply of 250 MA, 500 to 700 volts DC, 45-volt bias, and 6.3 volts at 1.8 amp. Supplied with set of 3 coils. When ordering state band in which your crystal operates and band in which output is desired. No. 33A61. 90800 Exciter. Less tubes, crystal and power supply. YOUR COST..... **\$42.50**

Additional Coils Available—Osc. Cathode @ 90c each and Osc. or Buffer Plate @ \$1.25 each. Specify frequency desired.

MILLEN HIGH FREQUENCY R.F. AMPLIFIER

No. 90811 Amplifier provides 75 watts output on 20, 10, 6 and 2 meters. Uses 829B or 3E29 tube and plug-in coils. Complete with 10-meter coils, less tubes. **\$33.00**

No. 34A169. NET EACH..... **\$33.00**

Coil Sets consisting of one each grid and plate coil.

Stk. No. Band Stk. No. Band PER SET

34A170 20 34A172 6 **\$3.60**

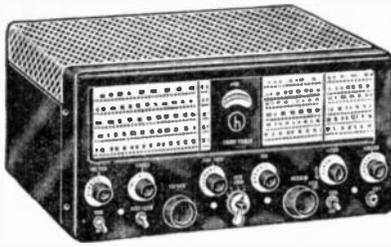
34A171 10 34A173 2

MILLEN 90651 GRID DIP METER

A compact, completely self contained grid dip meter with transformer "AC" power supply, covering frequencies from 1.5 MC to 270 MC in seven bands. Most common usage is as an oscillating frequency meter to determine resonant frequencies of de-energized tuned circuits, as well as checking all types of circuits. Common uses are alignment of tuned circuits; neutralization; locating parasitics; measurement of inductance and capacity; antenna resonant frequency; and tuning of beam antennas. Size 7x3 3/8x3 3/16". Weight, 3 1/2 lbs. Complete 7 inductors, rack and tube. No. 35A96. Model 90651 Grid Dip Meter..... **\$55.00**

Leading Latest COMMUNICATION RECEIVERS

LATEST AND BEST HALLICRAFTERS



MODEL SX-71. Communications Receiver — double conversion (2075 and 455 KC) for superior ham band performance!
Features: Extra sensitivity and stability, definitely superior image rejection (better than 300-1 at 28 MC), with double super-het circuit, plus built-in noise limiter and balanced detector stages for noise free NBFM reception. Extra wide dials for main and band spread tuning. One RF, 2 conversion, and 4 IF stages create a terrific value communications receiver for Amateur and short wave lengths.

Controls: 5 Range Band Selector for 538 KC to 35 MC and 46-56 MC. Dial calibrated for 80, 40, 20, 10 and 6 meter bands. BFO pitch, 3-position selectivity, Xtal phasing, Tone, AF gain, RF gain, and Receive-Send switch on front panel with 5 meter adjustment in rear.

External Connections: Doublet or single wire antenna, 500-ohm speaker output, phone jack, socket for external battery power supply. Connections for remote control.

12 tubes plus voltage regulator and rectifier: 6BA6 R-F amp., 6C4 Osc., 6AU6 Mixer, 6BE6 2nd Conv., 3 6SK7 I.F. Amps., 6SH7 1-F Amp., 6H6 ANL and Delayed AVC., 6SC7 BFO and A-F Amp., 6AL5 Det., 6K6GT Output, VR150 Reg., and 5Y3GT Rect.

No. 30C118. HALLICRAFTERS MODEL SX-71. NET..... \$179.50

MODEL "SX-42." An excellent receiver designed for the discriminating amateur or short wave listener. Frequency coverage from 540 KC to 110 MC. FM reception from 27 to 110 MC. Panel finished in gray, top is satin chrome and swings open on piano hinge. Lettering is light gray, red and green; remainder of cabinet satin black. Dials are light green, indirectly illuminated. Uses 14 tubes, plus rectifier: 2 6AG5 RF amplifiers, 7F8 converter, 6SG7 1st IF amp., 6SK7 2nd IF amp., 6H6 rectifier and noise limiter, 7H7 1st FM limiter amp., 7R7 2nd FM limiter amp., 6H6 FM discriminator, 6SL7 audio inverter, 2 6V6 audio output, 7A4 BFO and FM tuning meter amp., VR-150 voltage regulator, 5U4G rectifier. For operation on 105/125-volt, 50/60 cycles AC. 20" wide, 10 1/4" high, 18" deep. Weight, 52 lbs.

No. 30A139. SX-42, Less Speaker. EACH..... \$275.00

No. 32A268. B-42 Tilt Base for SX-42. EACH..... \$7.50



Model SX-43. Everything the ham asks for in a medium price receiver! 540 KC to 55 MC continuous coverage with NBFM and FM above 44 MC. High image rejection, good signal to noise ratio and audio frequency flat from 70 to 8000 cps.

Tubes: 6BA6 RF, 7F8 Converter-Oscillator, 6SG7 1st IF, 6SH7 2nd IF and 2nd Converter, 6SH7 3rd IF, 6H6 AM Det. and Noise Limiter, 6AL5 FM Det., 6SQ7AF, 6J5 BFO or 2nd Converter-Oscillator, 6V6 Audio Output, 5Y3 Rectifier.

The cabinet is steel finished in rich satin gray. Panel lettering light gray with red and green markings. Dimensions 18 1/2 x 12 x 8 7/8" high. Weight, 45 lbs. Supplied with tubes.

No. 31A232. SX-43 Receiver. Less Speaker..... \$159.50

MODEL R-42. Speaker designed for use with above receivers. Bass reflex type gray metal cabinet. 500-ohm Size, 17" wide, 11 3/4" high, 12 1/2" deep. Weight, 20 lbs.

No. 30A140. YOUR COST..... \$34.50

6x9" PM SPEAKER in metal cabinet designed for use with above receivers. Size, 18 1/2" wide, 8 1/2" high, 9 1/2" deep.

No. 32A15. Model R-44. Gray for SX-42 and SX-43. YOUR CHOICE... \$24.50

MODEL S-53. Frequency range, 540 KC to 54.5 MC in 5 bands. Uses 2 MC IF; accurately calibrated, slide rule dial; full bandspread control, noise limiter circuit; iron-core IFs; built-in PM speaker. Phone jack and connection for Phono Pickup in rear.

Uses 8 Tubes: 1 6C4 Osc., 1 6BA6 Mixer, 1 6BA6 1st IF Amp., 1 6BA6 2nd IF Amp., 1 6H6 Det., AVC, ANL, 1 6SC7 BFO and 1st Audio, 1 6K6GT Audio Output, 1 5Y3 Rectifier.
Beautiful steel cabinet in satin black with chrome trim. 12 7/8" wide, 6 7/8" high, 7 7/8" deep. Operates from 105/125 volts, 50/60 cycles AC. Wt., 23 lbs.

No. 32A52. HALLICRAFTERS MODEL S-53. COMPLETE WITH TUBES. NET EACH..... \$69.95

MODEL S-40A. Tuning range: 540 KC to 43 MC in 4 bands. Bandsread accurately calibrated, automatic noise limiter separate RF and AF gain controls, 3-position tone control, PM speaker inside cabinet. Steel cabinet finished in rich satin black.

9 Tubes: 6SG7 RF, 6SA7 converter, 2 6SK7 IF's, 6SQ7 2nd det., 1st audio, 6F6G audio output, 6H6 AVC, noise limiter, 6J5GT BFO, 80 rectifier. Cabinet is finished in rich satin black. Overall size, 18 1/2" long, 9" high, 11" deep. For operation on 105/125 volts, 50/60 cycle AC. Weight, 33 lbs.

No. 30A91. Model S-40A with Tubes. Your Cost. EACH.... \$79.95

MODEL S-38A. Frequency range of 540 KC to 32 MC. New and improved. BFO and bandsread tuning. PM speaker mounted inside cabinet. Jacks for phones. Steel cabinet in satin black, 12 7/8" long x 7 3/8" high x 8 7/8" deep. Weight, 16 lbs. For 105 to 125 volts AC or DC; also 220 to 200 volts AC or DC with line cord below. 4 tubes plus rectifier. Wt. 15 lbs.

No. 30A89. Model S-38A with Tubes. YOUR COST..... \$39.95

No. 17A740. 220-Volt Adapter Line Cord. NET..... \$2.00

POPULAR "NATIONAL" RECEIVERS

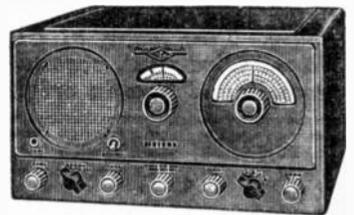
MODEL "NC57". 540 KC to 55 MC. Continuously over 5 bands. (Includes 6 meter amateur band.) Calibrated main and band spread dials with built-in 5" PM speaker.

Tubes: 1 6SG7 RF, 1 6SB7Y conv., 2 6SG7 IFs, 1 6H6 ANL, 2nd det., AVC, 1 6SN7GT 1st audio and BFO, 1 6V6GT audio output, 1 VR150, and 1 5Y3GT rectifier.

Cabinet: Size, 16 1/2 x 8 3/4 x 11 3/4", smooth gray enamel, translucent dials. For 105/125 volts, 50/60 cycles AC. Weight, 31 lbs.

No. 31A238. Your Cost. Each..... \$89.50

No. 31A247. SM-57 Plug in "S" Meter. NET EACH..... \$14.95



MODEL NC-183. Designed for the discriminating amateur. Two tuned RF stages Tunes 540 KC to 31 MC, plus the 48 to 56 MC band. Calibrated band spread for 6, 10-11, 20, 40 and 80 meter bands.

Tubes: 2 6SG7 RF, 1 6SA7 det., 1 6J5 osc., 2 6SG7 IFs, 1 6H6 2nd det., 1 6SJ7 BFO, 1 6AC7 AVC amp., 1 6H6 noise limiter, 1 6SJ7 AF, 1 6J5 phase inverter, 2 6V6GT audio output, 1 VR150 and 1 5U4G rectifier. 50/60 cycle AC. Steel gray cabinet, 19 3/4 x 10 1/8 x 15"; chrome trim. Weight, 56 lbs. **Less Speaker.**

No. 31A237. National NC-183 with 14 Tubes. YOUR COST \$268.00

No. 31A240. Model NC-183TS Table Matching Speaker for NC-183. NET EACH..... \$14.00

Narrow band FM adapter Model NFM83 for NC-183 receiver, connects to socket in receiver.

No. 31A239. YOUR COST, EACH..... \$16.95

MODEL NC-173. Popular with Amateurs and S.W.L.'s. Frequency range 540 KC to 31 MC; 48-56 MC. Calibrated band spread for 6, 10-11, 20, 40 and 80 meters.

Tubes: 3 6SG7 RF amp., 1st and 2nd IF Amplifier; 6SA7 1st det., 6J5 HF oscillator; 2 6H6 2nd detector, AVC and noise limiter; 6AC7 AVC amplifier, 2 6SJ7 BFO and 1st audio; 6V6GT audio output; 0D3/VR150 voltage regulator and 5Y3GT rectifier.

Operates from 110/120 or 220/240 volts 50/60-cycle AC. Has rear battery plug for mobile-portable use. Size, 19 3/4 x 10 1/8 x 12 1/2", gray finish. Weight, 46 lbs.

No. 30A158. With Tubes, Less Speaker. YOUR COST..... \$189.50

No. 30A159. NC-173TS Speaker for Above. With Matching Case..... \$10.00

No. 31A243. Narrow Band FM Adapter NFM73. Same circuit as NFM83 described above. YOUR COST, EACH..... \$17.95

National Model NC-33. 500 KC to 35 MC in four bands. Separate main and band spread tuning. Features noise limiter, band selector, CW-phone switch.

Tubes: 12SA7 converter, 12SG7 IF amp., 12H6 2nd det.-AVC noise limiter, 12SL7GT 1st audio and beat oscillator, 35L6GT audio output, 35Z5GT rectifier. Cabinet finished in durable gun-metal gray enamel, chrome trim and translucent dials. Size, 16 9/16 x 8 3/4 x 8 1/2". Operates from 110-volt AC/DC. Weight, 23 lbs.

No. 31A245. Complete with Tubes and Built-in 5" PM Speaker. EACH..... \$57.50

National Model HFS. Ultra high frequency special design covers 27 MC to 250 MC in six bands including 1 1/4, 2, 6, 10 and 11 meter. CW, AM or FM. Terminals from 10.7 MC IF channel permits use as converter.

Tubes: 6AK5 1st det., 9002 osc., 6J5 converter output, 6SG7 IF, 6SK7 2nd det., 6J5 1st audio, and 6V6GT audio output. A 5" PM speaker is built in. Has phone jack, ant. trimmer, linear calibration chart, standby and receiver converter switch on panel. Finished in smooth gray enamel. Size, 16 9/16 x 8 3/4 x 8 1/2". Supplied with tubes and coils, less power supply (see below). Weight, 25 lbs.

No. 31A241. YOUR COST, EACH..... \$142.00

Model 5886 Power Supply for 115-230 Volts 50-60 Cycles AC. \$22.43

No. 31A242. EACH..... \$22.43

Model 6865, 6-Volt DC Vibrator Power Pack. \$34.16

No. 31A244. EACH..... \$34.16

HRO-7T—With tubes, 110-volt AC power supply, type MCR 8" PM speaker in cabinet to match set and 4 coils covering 1.7 to 30 mc. \$324.86

No. 30B72-4. YOUR COST..... \$324.86

NC-2-40DT—With Tubes. \$236.25

No. 50A254..... \$236.25

No. 50A255. Matching Speaker for Above. Type NC-2TS..... \$16.44

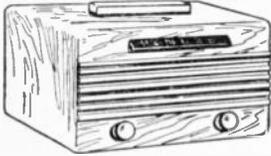
B-A Co. can supply most communications receivers and as they are released we will have them. Write us for full information on any type of receiver and full details will be forwarded to you. "SEND US YOUR ORDER."

Close Out Sale! ODDS AND ENDS RADIOS, CHANGERS, RECORD PLAYERS

From Regular B-A stocks or small lot special purchase. Two pages of Big Savings but small quantities. Give first, second and third choices. Every item Brand New in original Factory Packing.

CHECK THESE TERRIFIC VALUES! IN HANDSOME RADIOS

Adequate in size for sturdy chassis and layout of components to give top performance, depth of tone and cabinet design for any room in the home or far all around use, anywhere 110-volt AC-DC electric current is available.



Superhets with 5 tubes, plus rectifier—Two tubes are dual purpose giving 7-tube performance. Has RF stage for increased sensitivity and Beam Power Output for good volume at low distortion level. Loop antenna built-in with provision for external aerial. Edge lighted slide rule dials and full 5" Alnico V PM Speakers. All are priced far below regular and subject to Prior Sale. Give First and Second Choice.



GAROD MODEL 6A1 (Top). Gorgeous Catalin Cabinet of mottled ivory with "Pull-up" carrying handle. Overall cabinet size, 11 1/4" long, x 7 1/2" deep x 7" high. No. 36B40. List Price was \$39.95. Special, Net Each. . . **\$19.88**



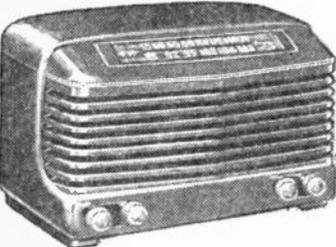
GAROD MODEL 6A2 (Center). Pleasing hand rubbed walnut veneer wood cabinet with a striking contrast of ivory grille and knobs. Overall size, 13" long x 6 1/4" deep x 7 3/4" high. No. 36B46. List Price was \$44.95. Special, Net Each. . . **\$21.88**



AIR KING A625 (Bottom). Smart two-tone polystyrene cabinet with louver top and grille. Overall size, 12 3/4" long x 7 1/2" deep x 8" high. No. 31B87. List Price was \$29.95. Special, Net Each. . . **\$16.88**

RADIOS ARE MOST SAFELY SHIPPED VIA EXPRESS

CONSOLE TONE and PERFORMANCE OLYMPIC FM-AM SUPERHET



Cabinet is a sleek streamlined beauty in Modern manner in lustrous grained walnut plastic, size 14 3/4" long, 9" high, 7 5/8" deep.

Circuit: Combines Superhet and Super-regenerative principles. A.V.C., full range tone control and inverse audio feed-back for elimination of distortion. Tubes: 12AT7, 12SA7, 12SK7, 12SQ7, 35Z5. Audio power output 1.5 and 2 watts.

Tuning Range: Standard AM broadcast 535-1720 kilocycles, FM Broadcast 88-108 mc.

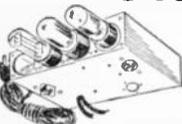
Speaker: Improved full response 6" PM with Alnico magnet gives full rich tone.

Antenna: Two separate built-in antennas provide excellent reception on either AM or FM in good average locations. For poor locations provision is made to connect additional antenna as required.

Dial: Large, full vision slide rule type with clear easily read numerals. Controls consist of tuning, volume, AM-FM switch, ON-OFF and full range tone control. Operates on 105/125-volt AC or DC.

No. 31B12. An Outstanding Value. Net Each. . . **\$34.95**

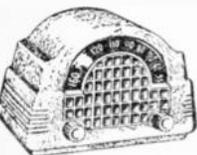
3-TUBE PHONO AMPLIFIER



Works with any crystal pickup. Compact for mounting at side, front or underneath motor board. Completely assembled and wired with output transformer, speaker leads and AC cord. Has socket connections for phono motor and remote location of control and switch.

Supplied complete with tubes (12SJ7, 35Z5GT, 50L6GT), plugs and volume control with switch together with simple diagram. Overall size (tubes included), 7 1/4 x 6 1/4 x 1 1/2". No. 5A181. Shipping Weight, 3 lbs. A Great Value! SPECIAL. **\$4.95**

BELMONT BATTERY RADIO



This handsome four-tube battery-operated radio designed for use in areas beyond power lines provides exceptional performance with low operating expense. Direct-view dial covering broadcast band, 540-1600 KC. Permeability tuning insures splendid reception. Automatic volume control sharply reduces fading. Attractive polished walnut plastic cabinet. Size 9 1/4 x 6 1/4 x 5 3/4". Uses Standard 1 1/2-90 V. AB Battery Pack ER758 or Equivalent.

No. 36A65. Less Battery SPECIAL, EACH. . . **\$17.95**
No. 1A6. ER758 1000 Hour Battery Pack. EACH. . . **\$5.51**

GAROD RADIO-PHONO COMBINATION

WITH AUTOMATIC RECORD CHANGER

FOR 78 RPM RECORDS

ONLY..... **\$39.97**



THINK OF IT—A full size quality built Radio PLUS a Record Player that plays automatically TEN 12" or TWELVE 10" records with lid closed.

THE CABINET will convince you that this is NOT the usual low priced phono-radio combination. It's a Beauty . . . in smart streamlined design with rounded corners . . . solidly built, warp-proof walnut veneers . . . Hand rubbed to bring out the beautiful grain.

THE RADIO: A standard trouble-free superhet with these popular tubes—12SA7, 12SQ7, 14A7, 50L6 and 35Z5, is assembled on full size chassis with heavy duty components. A large PM dynamic speaker assures quality reproduction of both radio and records. Antenna is built in.

THE PHONO: Simple and foolproof quick and smooth record changer of latest design plays ten 12" or twelve 10" records automatically with lid closed. Lightweight crystal pick-up and quiet starting motor.

Easy to read and attractive radio tuning dial and controls including full range tone control. All are accessible without raising the lid.

Operates on 105-125 Volts, 60-Cycle AC only. Cabinet size is 20 1/4" wide, 15 1/2" deep and 12 3/4" high. Shipping weight, 40 lbs.

YOU WILL APPRECIATE THE VALUE! Was \$119.50 Seller. **\$39.97**
Stock No. 31A217. While They Last, EACH. . .

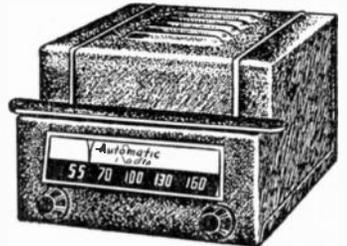
A TERRIFIC AUTO RADIO VALUE!

Fits Any Car . . . quickly installed. Four-tube plus rectifier Superhet with two dual-purpose tubes gives 7-tube performance.

Compact, light weight, installs easily into any car or truck with six-volt storage battery . . . low battery drain. PM dynamic speaker built in. Beam power tube assures maximum undistorted power output.

Single unit construction; simple universal mounting. Full vision slide rule dial. Automatic volume control. Well finished Blue Silver Enamel metal case, size 10 1/2 x 6 1/4 x 4 1/2". Weight, 10 lbs.

No. 36B57. SPECIAL, NET EACH. . . **\$24.97**



RADIO-PHONO COMBINATION

PLAYS ALL RECORDS

Radio is advanced type Superhet with 1-12SA7GT, 1-12SQ7GT, 1-35Z5 tubes—two of which are dual purpose to give 5 tube performance. Features large slide rule dial, automatic volume control and Alnico V PM speaker.

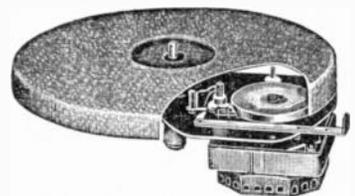
Phono has light weight crystal pick-up to play all records, all speeds 78, 33 1/3 or 45 RPM . . . 7, 10 or 12" records. Simple to switch speeds.

Cabinet—attractive modern design walnut finished wood with lid cover. Size 12 1/4 x 10 x 7 3/4", shpg. wt. 12 lbs. For 110-125 V., 60 cycle AC. Underwriters Lab. tested. No. 32A58. Complete with 2 long life needles. Net Each. . . **\$31.88**



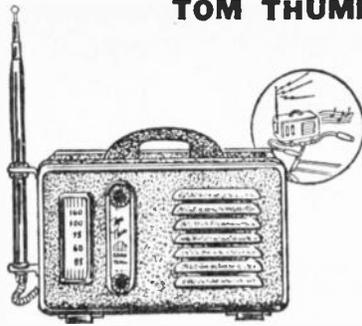
DE LUXE DUAL SPEED TURNTABLE

For playing EITHER the new "LP" long playing, or standard 78 RPM records! Features heavy-duty 4-pole motor and external push-pull speed control lever to engage idler wheel with 2-diameter shaft to obtain speeds of either 33 1/3 or 78 RPM! Delicate balancing of entire assembly assures uniform speed at all times—assures low rumble factor and minimum "wow"! Extra power to handle varying record and pickup loads at constant speeds. Mounting plate is 6" long, 5 5/8" wide, motor extends 2 5/8" below mounting board. Complete with 10" turntable; for 110-volt, 60-cycle AC. No. 34A167. SPECIAL, EACH. . . **\$7.95**



TOM THUMB ALL-PURPOSE RADIO

- TELESCOPIC ANTENNA ● SUPERHET
- POWERFUL RECEPTION
- BEAUTIFULLY FINISHED METAL CASE



A Small Powerful battery operated portable Superhet that may be used as a personal set at home, a portable when on the go—or with the simple theft proof brackets that are provided it can be mounted to the handle bars of bikes, scooters, motor bikes, etc.

The removable telescopic antenna (collapses from 31 to 10 inches) provides unusual "pick-up" for whatever use may be chosen for this novel little radio.

Housed in sturdy metal cabinet, smartly styled in attractive Hammertone finish with edge lighted vernier tuning slide rule dial.

Extremely Compact, only 7 1/4 x 4 1/4 x 3 1/2" ... Light, weighs only 3 lbs. 3 ozs.—thus is ideally suited for travelers to pack in their luggage.

Made to give trouble-free service with these efficient tubes: 1R5, 1V4, 1S5, 3S4. An Alnico V PM Speaker assures "big set" tone quality. Operates with 2 inexpensive flashlight cells and the standard 67 1/2-volt "B" battery easily available anywhere.

No. 37A75. List Price, \$24.95.

Net Each. SPECIAL (Less Batteries)

SET OF BATTERIES

\$15.97

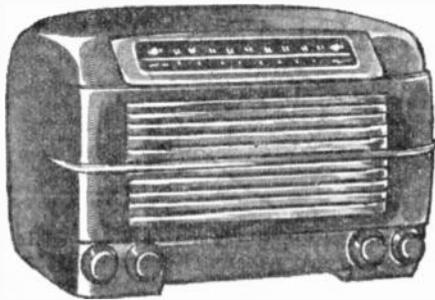
\$1.89

OLYMPIC Hi-Power—TUNES BROADCAST & SHORT WAVE

A TRULY QUALITY RADIO

An amazingly powerful and efficient receiver that is truly in a class by itself. Gives full console performance — thanks to Olympic's exclusive "true-base" feature which reproduces the full audible tonal range. 5 tubes plus rectifier AC Superheterodyne with tuned RF stage and three-gang tuning condenser. Powerful specially constructed electrodynamic 6x9" oval speaker, full-range tone control, 5 watts power output. Built in "Hyper Q" antenna includes shortwave loop video-phono connection for use with record players or with converter unit for FM and television sound.

Tuning Ranges: Standard Broadcast 535-1700 KC (175-550 meters). International Shortwave 5.6-18.2 MC (17-53 meters). This receiver will operate satisfactorily in locations remote from broadcast stations. Ideal for use overseas. In beautifully



casting stations where many sets will not receive any signals. Operates on 110/125-volt 60-cycle AC current.

No. 34A159. WHILE THEY LAST! EACH

\$31.95

THREE-WAY PORTABLE RADIO

COMPLETE READY TO PLAY. ONLY

\$16.88

A BEAUTY! A BIG VALUE!

Operates From Batteries or From AC or DC Electric Current

Sturdy Luggage style cabinet, covered in two-tone simulated leather with molded plastic front, the tuning controls, dial and knobs countersunk and in contrasting colors—a very attractive effect.

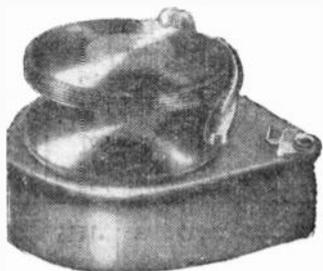
Compact—light, 9 1/2 x 7 x 5 1/2", weight only 6 1/2 lbs. with batteries. A "Honey" as a personal radio in areas not too distant from broadcast stations.

Operates from self-contained batteries, 5 standard flashlight cells for "A" and 2 ER type 455 or equivalent 45-volt "B" batteries or from AC/DC electric current. A Superhet with supersensitive 4" Alnico PM Speaker. Multi-function tubes: 1R5, 1S5, 1U4, 3V4 and Selenium rectifier. "High Q" loop antenna built in.

No. 36B58. Complete with Batteries. Ready to Play.

NET EACH

\$16.88



SEEBURG AUTOMATIC RECORD CHANGER

1/2 WHOLESALE PRICE!

Make Any Radio an Automatic Combination

Model "S" Seeburg. Sturdy, single-post changer with its modern styling—smart, shield shaped base. Light weight tone arm. Automatic shut-off after last record is played. Recessed turntable. Strong, quiet motor assures constant turntable speed.

Play twelve 10" or ten 12" records. May also be set for manual play. Shock mounted center spindle for minimum center hole wear of records—record load stacked in horizontal position.

Walnut finish wood base, size 12 1/2 x 14 1/8". Complete ready to plug into 105/125-volt AC line, with shielded wire and plug to connect to radio. For 10" and 12" 78 RPM standard records.

AN OUTSTANDING VALUE!

List Price, \$44.25. Regular Net Price, \$29.50.

No. 40A102. WHILE THEY LAST!

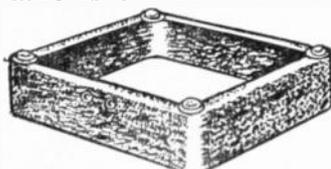
\$14.75

DUAL SPEED. For 78 or

33 1/3 RPM records.

No. 31B222. Each.. **\$24.95**

METAL CHANGER BASE



Brown crackle finish steel. Attractively designed, rounded corners. Overall size, 11 1/4 x 12 1/2 x 2 1/4". Mounting space, 10 x 11". Exactly fits Detrola Model 650 and similar changers.

No. 31A64. SPECIAL, EACH

95c

4-TUBE PHONO AMPLIFIER

Complete with tubes and heavy duty 6" PM Speaker. Furnished completely assembled and wired with tone and volume control and "plug-in" connections for speaker and phono output. Speaker has output transformer and plug ready to connect to amplifier.

Tubes Included: 2 3Z5, 1 12SQ7, 1 35L6. Voltage doubler rectifier makes possible the 4 watts output. Size, 12" long, 4 1/2" wide, 2 1/2" deep. Shipping weight, 5 lbs.

No. 4A63. A Whopping Value... **\$9.95**

OLYMPIC PERSONAL GEM

COAT POCKET SIZE

Weight Only 3 1/2 Lbs.



Exquisite in its cabinet of beautiful maroon Polystyrene plastic and when open a lovely gold face with exact tuning slide rule dial. Extra small, compact, only 8 1/2 x 5 1/2 x 4 5/16". (Coat pocket size). Light, weighs only 3 1/2 lbs.

Plays anywhere from self contained batteries (1 No. 950 A and 1 No. 467 B) and built-in "Hi-Q" loop antenna. A flip of the lid open turns it "on"; close the lid and it is automatically "off".

Sturdy with watch-like craftsmanship. A superhet using high efficiency miniature battery tubes 1R5 converter, 1U4 IF Amplifier, 1U5 Detector, 1st AF and AVC, 3S4 Power output. Iron Core IF Coils and Iron Core Oscillator Coil. A 3 1/2" Alnico 5 PM speaker (unusual for a set so small and compact) is assurance of tone to please the most critical.

Yes, here is a masterpiece of design, style, quality and Value in a battery operated "Personal".

No. 31A80.

EACH (Less Batteries)

Battery Kit (1 No. 950 and 1 No. 467) ..

No. 31A81. Carrying Case, Luggage tan, simulated leather, adjustable strap....

\$17.88

\$1.79

\$2.88

RECORD CHANGER

ONLY

\$9.50



Popular Make Changer. Sturdy and dependable. Light weight tone arm and crystal pick-up. Simple trouble-free mechanism.

Plays ten 12" or twelve 10" 78 RPM standard records. Flocked 9" turntable. Base is 11 1/2 x 13", mounting size 10 x 11 5/8", 2 1/4" below and 5" above.

No. 40A1000. Limited Quantity.

A BUY AT ONLY

\$9.50

RECORD CHANGER-AMPLIFIER CABINET

For record changer and phono-amplifier or radio set chassis.

Inside measures 14 1/2 x 14 1/2" with space 3 1/8" below and 5 1/4" above motor board with lid closed. Baffled and grilled for a 5" or 6" speaker—the other cutout can be covered with grille cloth. An extremely handsome and sturdy top quality cabinet in hand rubbed mahogany. Originally made for an expensive Phono-Radio and cost to make several times our price. It's a great value well worth a little work to alter it to your needs.

Overall size, 16 3/4" wide, 15 3/4" deep, 10 3/4" high. Shipping weight, 17 1/2 lbs.

No. 32A288. SPECIAL, EACH

\$6.88



YOU GET FASTER SERVICE FROM B-A IN THE HEART OF AMERICA



HOW TO ORDER

- Use our order blank where possible—it will help us process your order more speedily. Additional blanks are yours for the asking.
- Print your name and complete address legibly with typewriter, ink, or black pencil.
- List the items you want—only one to a line. Write down exact stock numbers and prices as in our catalog. Show size, color, resistance, etc., in the description. Give second and third choices on scarce items.
- Specify how we should ship—Parcel Post, Air Parcel Post, Air Express, Express, or Freight—by checking one of the squares. Estimate shipping weights not given and use the Parcel Post Rate Chart and Zone Map to estimate amount of postage. Express and Freight charges are collected on delivery unless there is no agent in your town. For your protection, all shipments are insured.
- Total your order, add sufficient to cover postage and insurance. Any unused amount will be refunded at once by Bank Check.
- Parcel Post Insurance: Parcel Post C.O.D. charges include insurance. Paid Parcel Post shipments are insured in a reliable company at LESS than Government rates, guaranteeing safe delivery of shipment.
- Use a separate sheet of paper for inquiry or correspondence not related to order.



PARCEL POST ZONE MAP

The arrow on the map indicates the location of Kansas City, the home of B. A. Note that it is in the exact "Heart of America", close to everywhere. Kansas City rates high as a railroad center—there are plenty of fast trains in every direction. Our central location, our adequate stocks, our long experience in mail order routine—these are the reasons for faster service from B. A.

PRICES AND TERMS

OUR PRICES are net F.O.B. Kansas City, Missouri. All discounts, including 2% for cash, have been deducted from catalog prices. 2% freight allowance on orders \$100.00 or over.

All merchandise is sold at prices in effect on date of shipment, and all prices quoted in our catalogs and flyers are subject to change without notice.

PRICE REDUCTIONS. Your order will be shipped at the lowest prevailing price at time of shipment. We advise you of increases over 20% before making shipment of items involved.

OUR TERMS are cash with order on ALL orders for \$5.00 or less; OR we will ship C.O.D. on orders over \$5.00 when deposit of 25% accompanies such orders. Remittance IN FULL with your order SAVES you costly C.O.D. charges and expedites your order.

Government, State and Industrial purchase orders are handled on the usual payment plan.

FOREIGN ORDERS: See special sheet included in export catalog or contact our export department for details on shipments to your country.

MISSOURI CUSTOMERS add 2% State Sales Tax to ALL items for your own use. Please give your Tax Registration Number on items purchased for resale.

HOW TO SEND MONEY

It is safest to remit by Post Office or Express Money Order, Bank Draft or Check. Avoid sending coin or currency, but, if necessary, register your letter. Use Western Union for rush money orders. Small amounts will be accepted in 3c stamps. You can avoid C.O.D. charges even when you do not know the approximate amount to remit, by sending your signed blank check for us to fill in the exact amount. You may write across the bottom to limit the check to some figure which you know will be sufficient. Your invoice, mailed immediately after shipment, shows the exact amount your check was made payable for. Your money is handled at B.A. by bonded employees. For business references, we refer you to Dun and Bradstreet, Mercantile Bank and Trust Co. of Kansas City, Mo., or Commercial National Bank of Kansas City, Kansas.

RETURNS—ADJUSTMENTS

Your complete satisfaction is our goal, and you can depend on us for prompt adjustment in case of error, defective merchandise, etc. Please write us first before returning anything, and always be sure to send along all order papers or correspondence necessary to substantiate your claims. Damages in transit. Obtain a damage report from the delivering carrier and include it with your order papers and letter to us.

FREIGHT SHIPMENTS

Where rapid delivery is not essential and merchandise selected weighs approximately 100 pounds or over, Freight shipment is recommended. See your agent for rates. Do not remit Freight charges if you have a local agent.

FOR URGENT RUSH SHIPMENT, wire or phone. Local and long distance phone number Baltimore 1155. Salesmen on duty 8:15 A.M. to 5:30 P.M. during week, Saturday 8:30 A.M. to 12:30 P.M.

AIR AND RAIL PARCEL POST SHIPMENTS

BE SURE TO INCLUDE ENOUGH POSTAGE — EXCESS IS REFUNDED

The table below and Zone Map above will help you estimate Parcel Post charges. For packages under 8 ounces, allow 2¢ for each 2 ounces, any Zone. The Post Office figures fractions over as a full pound. Example: A package weighing 5 lbs., 2 oz. is figured as 6 lbs.

INSURANCE rates on shipments via Parcel Post are: 5¢ up to \$5.00 value, 8¢ from \$5.01 to \$10.00, 12¢ from \$10.01 to \$25.00, 18¢ from \$25.01 to \$50.00, 25¢ from \$50.01 to \$100.00, 40¢ from \$100.01 to \$150.00, and 50¢ for \$150.01 to \$200.00 value. A part of the fee on Parcel Post C.O.D. shipments is for insurance.

NEW AIR PARCEL POST RATES are shown in light face type. Regular Parcel Post in bold face. On all Air shipments to U. S. territories, Alaska, Hawaii, etc., and to APO or FPO addresses rate is 80¢ per lb.

Weight in Pounds	Zones 1 & 2		Zone 3		Zone 4		Zone 5		Zone 6		Zone 7		Zone 8	
	Up to 150 Miles	150 to 300 Miles	150 to 300 Miles	300 to 600 Miles	300 to 600 Miles	600 to 1000 Miles	600 to 1000 Miles	1000 to 1400 Miles	1000 to 1400 Miles	1400 to 1800 Miles	1400 to 1800 Miles	Over 1800 Miles	Over 1800 Miles	Over 1800 Miles
1	.12	.55	.13	.60	.14	.65	.15	.70	.16	.75	.17	.75	.18	.80
2	.15	.59	.16	.68	.19	.79	.21	.94	.24	1.08	.27	1.20	.30	1.45
3	.17	.63	.19	.76	.23	.93	.27	1.18	.31	1.41	.36	1.65	.41	2.10
4	.19	.67	.22	.84	.28	1.07	.33	1.42	.39	1.74	.46	2.10	.53	2.75
5	.21	.71	.25	.92	.32	1.21	.39	1.66	.46	2.07	.55	2.55	.64	3.40
6	.23	.75	.28	1.00	.37	1.35	.45	1.90	.54	2.40	.65	3.00	.76	4.05
7	.25	.79	.31	1.08	.41	1.49	.51	2.14	.61	2.73	.74	3.45	.87	4.70
8	.27	.83	.34	1.16	.46	1.63	.57	2.38	.69	3.06	.84	3.90	.99	5.35
9	.29	.87	.37	1.24	.50	1.77	.63	2.62	.76	3.39	.93	4.35	1.10	6.00
10	.31	.91	.40	1.32	.55	1.91	.69	2.86	.84	3.72	1.03	4.80	1.22	6.65
11	.33	.95	.43	1.40	.59	2.05	.75	3.10	.91	4.05	1.12	5.25	1.33	7.30
12	.35	.99	.46	1.48	.63	2.19	.80	3.34	.98	4.38	1.21	5.70	1.44	7.95
13	.37	1.03	.49	1.56	.68	2.33	.86	3.58	1.06	4.71	1.31	6.15	1.56	8.60
14	.39	1.07	.52	1.64	.72	2.47	.91	3.82	1.13	5.04	1.40	6.60	1.67	9.25
15	.41	1.11	.54	1.72	.76	2.61	.97	4.06	1.20	5.37	1.49	7.05	1.78	9.90
16	.43	1.15	.57	1.80	.80	2.75	1.02	4.30	1.27	5.70	1.58	7.50	1.89	10.55
17	.45	1.19	.60	1.88	.85	2.89	1.08	4.54	1.35	6.03	1.68	7.95	2.01	11.20
18	.47	1.23	.63	1.96	.89	3.03	1.13	4.78	1.42	6.36	1.77	8.40	2.12	11.85
19	.49	1.27	.66	2.04	.93	3.17	1.19	5.02	1.49	6.69	1.86	8.85	2.23	12.50
20	.51	1.31	.68	2.12	.97	3.31	1.24	5.26	1.56	7.02	1.95	9.30	2.34	13.15
For each additional pound add	.02	.04	.03	.08	.04½	.14	.05½	.24	.07½	.33	.09½	.45	.11½	.65

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To assure safe arrival, all test equipment, amplifiers, radios, fluorescent fixtures and fragile or bulky merchandise will be shipped by express. IF THERE IS NO EXPRESS AGENT IN YOUR TOWN SPECIFY SHIPPING POINT. Shipments are made collect for charges. All express is insured as follows: No charges under \$50.00 value, 10¢ for values of \$50.00 to \$150.00 and 10¢ for each additional \$100.00 value or part thereof. See Rate Table below which includes Federal Tax.

Weight of Pkg.	DISTANCE IN MILES FROM KANSAS CITY						
	100	200	300	400	500	600	1000
5 lbs.	\$0.98	\$0.99	\$1.06	\$1.07	\$1.08	\$1.12	\$1.18
10 lbs.	1.08	1.11	1.25	1.27	1.30	1.36	1.49
15 lbs.	1.17	1.22	1.43	1.47	1.50	1.61	1.80
20 lbs.	1.28	1.35	1.62	1.67	1.71	1.84	2.12
30 lbs.	1.48	1.59	1.99	2.06	2.13	2.33	2.74
40 lbs.	1.68	1.82	2.36	2.45	2.54	2.81	3.36
50 lbs.	1.88	2.06	2.74	2.85	2.97	3.31	3.98
75 lbs.	2.39	2.65	3.67	3.83	4.01	4.51	5.53
100 lbs.	2.89	3.23	4.59	5.03	5.05	5.73	7.09

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The Auto Radio BUY of ALL Times

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84.95

DEALER NET PRICE WAS
56.34

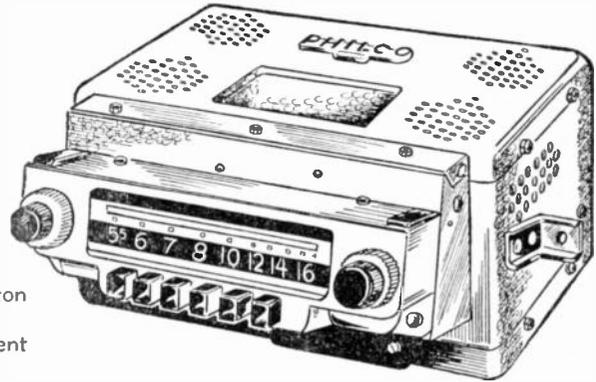
Now WHILE THEY LAST
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PHILCO Model CR-9 - - Custom fits FORDS and MERCURYS
- - also Easily Installed in OTHER Makes Cars and Trucks.

STOCK No. 30B164

BEAUTIFULLY STYLED — POWERFUL
— NOTE THESE DE LUXE FEATURES —

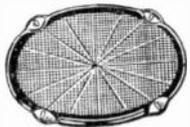
- Six Push Buttons, for Automatic Tuning of five stations and Manual Tuning.
- Powerful Superhet with five super-efficient Miniature Tubes, plus rectifier.
- Philco Tuning System makes station indexing accurate, positive.
- Three-Gang Permeability Tuner on Manual Tuning.
- Stabilized, Permeability I.F. Transformers.
- New Built-in Interference Filtering.
- Continuously Variable Tone Control — Bass Compensation — Automatic Volume Control.
- Permeability tuned Oscillator and Antenna Circuits used on five Push-Button positions.
- Setting of Push Buttons is easily adjusted by merely turning the adjustment screws located under the push-button caps.



Compact chassis is enclosed in protective metal case with shock-cushioned mounting. Control head is an integral part of set.

SEPARATE SPEAKER

6x9" Oval Dynamic Speaker, conceals behind instrument panel grille of car, gives wonderful clarity and richness of tone.

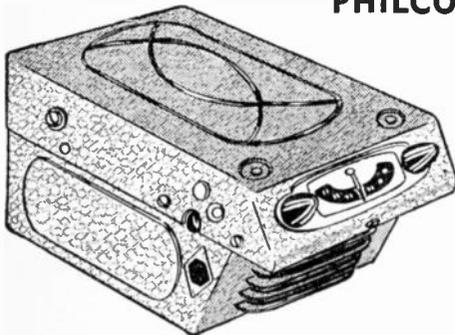


B-A Stock No. 30B164. Philco CR9 Complete with Tubes and Speaker.

Custom Fits instrument panels of 1942, 1946, 1947, 1948 Ford and Mercury Cars as is.
Fits 1949 Ford by purchase of adaptor kit B-A No. 37A118. Net Each, When Purchased with Set.....**\$2.09**
Can be installed in instrument panels of Any Make Car that can provide in its instrument panel an opening size overall 8 1/2" long x 2 5/32" high. Overall depth required behind panel 7 1/2".
Adapts itself for simple under dash mounting in Many Make Trucks. (Speaker can be mounted in simple baffle).
Shipping Weight, 16 lbs. List Price, \$84.95.

Dealer's Price Was Net Each.....**\$56.34** *Now!* WHILE A LIMITED QUANTITY LASTS! SPECIAL NET EACH.....**\$37.88**

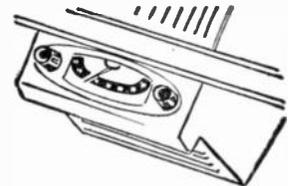
PHILCO Model CR-2—MOST AMAZING VALUE in the LOW PRICE RANGE is this UNDER DASH SUPERHET



Its Delightful, Rich, Clear Tone and Smart Appearance combined with Philco Quality and Exclusive Engineering Features make this Auto Radio the BIGGEST MONEY'S WORTH in the entire field. Complete Ready to Play.

- 5 loktal tubes, plus rectifier
- Built-in Electro Dynamic Speaker
- Built-in Interference Filter
- R.F. stage . . . Stabilized I.F. transformers
- High-gain Iron Core Antenna Coil; Antenna Compensator
- Automatic Volume Control

Housed in Rugged, Compact steel case finished in Silver Gray Hammer-tone Lacquer. Size 4 5/8" high, 5 3/16" wide, 12 1/2" deep. List Price, \$44.50. Shipping weight, 11 lbs.

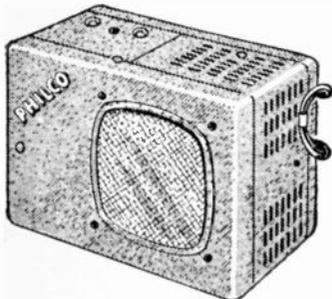


Mounts Neatly and Attractively Under the Instrument Panel of Any Car. Easy to Reach.

PHILCO MODEL CR-2. Stock No. 33B45. **\$33.55** Lots of 6, Each **\$32.55**
DEALERS PRICE. Net Each.....

Model CR-4 SINGLE UNIT SUPERHET

MANUALLY OPERATED — WITH POWERFUL BUILT-IN 6" ELECTRO-DYNAMIC SPEAKER AND NEW WAR-DEVELOPED MINIATURE TUBE CIRCUITS.



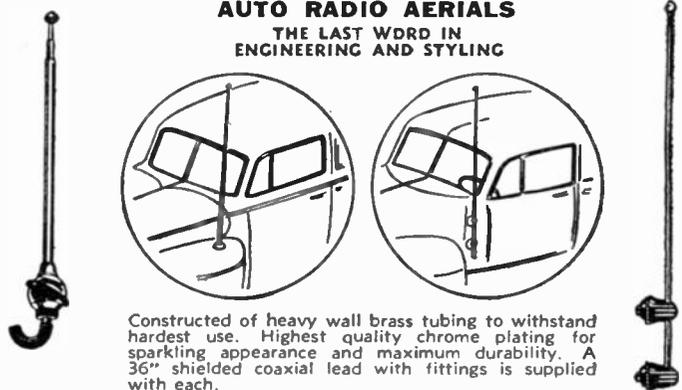
- Powerful Superheterodyne with 5 Tubes, consisting of 4 super-efficient Miniature Tubes, and 1 Beam Power Output Loktal Tube, plus Rectifier.
- Built-in Interference Filter.
- Stabilized Permeability Tuned I.F. and Tuning Circuits.
- Continuously Variable Tone Control-Automatic Volume Control.

You will find no other Auto Radio that can match this set in Tone Quality and Clarity, Power and Overall Performance at this amazing low price. Comes complete with under dash universal control fits any make or model car. Attractive Case Finished in Taupe Brown Hammetone Lacquer. Size, 7 1/32" high, 9 3/4" wide, and 5 1/2" deep. List Price, \$59.95. Shipping weight, 17 lbs.

PHILCO MODEL CR-4. No. 30B68/600M. YOUR COST PER SET. Net Each... **\$43.25**

PHILCO AUTO RADIO AERIALS

THE LAST WORD IN ENGINEERING AND STYLING



LONG DISTANCE SIDE COWL TYPE (ot Right)

For the growing number who want maximum signal strength and station coverage. 4 section, extends to 100". Anti-rattle construction. Dust and moisture proof. The utmost in Auto Aerial efficiency. **\$4.09** 12 Lots. **\$3.58**
Stock No. 38A32. List, \$6.95. Net Each....

FOR TOP COWL or FENDER (at Left)

Especially designed for the new model cars. Installs on cowl or fender, and adjusts from top. Cannot come loose. Philco anti-rattle construction. Telescopes to 56". **\$3.15** 12 Lots. **\$2.86**
Stock No. 38A48. List, \$5.35. Net Each....

More B-A Whopping BARGAINS!

**AC 25 WATT AMPLIFIER
with AUTOMATIC RECORD CHANGER**



Rear Terminals. All connections are made on back for neat and easy installation.



All components select, top quality.

Overproduction from a run made for a nationally famous mail order concern known for top quality at low prices . . . their price was \$99.50.

**B-A Special Purchase
Stock No. 32A56. Net Price Only**

\$57.50

NOTE THESE OUTSTANDING FEATURES

Conservatively rated of 25 watts . . . equal to other makes rated at 30 to 35 watts.

Tubes: two 12SQ7, one 6SJ7, one 6V6GT, two 6L6GA, and 5U4G rectifier.

• Has two mike inputs with separate volume controls. • Two phono inputs with fader type control. • Convenient rear connections for speakers, phono and mike. • Selector switch to properly match instantly any number of speakers up to four. Also has 500 ohm output. • Easily accessible fuse block. • DC current to pre-amp tube heaters providing very low hum level. • Tone control. • Illuminated panel.

Automatic Record Changer of top quality plays ten 12 inch or twelve 10 inch records consecutively.

Steel cabinet very sturdy in attractive gray finish; panel of satin chrome and red knobs. Overall size 14" square, 13" high overall. Shipping Wt. 45 lbs. Operates on 105-115 volts, 60 cycles AC.

Shipped by express only, complete as described above. Speaker plugs are included.

A COMPLETE PA SYSTEM ONLY \$79.38



Consists of the No. 32A56 25 watt amplifier with automatic changer, two RCA 12-inch 15 watt PM dynamic speakers, two 12-inch wall baffles and a Shure "Versatex" crystal mike, complete with 7 ft. shielded cable and connector. The mike can be used on a desk, on a floor stand or held in hand.

No. 40A75. COMPLETE AS ABOVE **\$79.38**

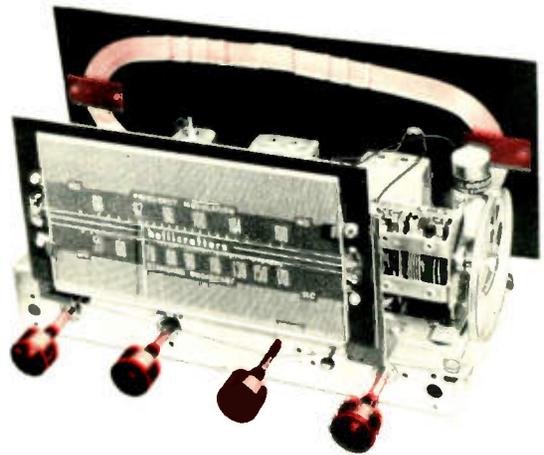
Additional Crystal mike cable. No. 2A101. Per Ft. **5 1/2c**

Rubber sheathed two conductor cord for speaker lines. No. 2A28 **50c** 100 Ft. **\$1.75**

A LUCKY FIND MAKES POSSIBLE THIS REPEAT OF A FORMER BANG-UP SELL-OUT.

Hallicrafters S-59 AM-FM CHASSIS

\$49.50 VALUE While Limited Quantity Lasts! No. 34A19 SPECIAL, EACH. **\$32.95**



Our previous sale of this identical chassis at \$39.95 was a fast sell out . . . hundreds short of the orders we received. We found a concern who still had some . . . our cash offer was tempting . . . so here we "go" again. A truly whopping value . . . but Hurry . . . only a limited quantity available.

Built throughout to Hallicrafters standards of quality. Popular for custom installations or modernizing older receivers.

SPECIFICATIONS: 7 tubes and rectifier—6BE6 oscil-mixer, 6BA6 IF amp., 6BA6 FM IF amp-AM det., 6AL5 FM detector, 6SQ7 1st audio amp., 6K6GT output audio and phase inverter, 6K6GT output audio, 5Y3GT Rectifier. AM coverage 540 to 1600 kc, FM coverage 88 to 108 mc. Audio output 4 watts. Frequency response—60 to 14,000 cycles plus or minus 3 db. Continuously variable tone control. AM sensitivity—50 micro-volts, FM sensitivity—100 micro-volts (30 db signal to noise ratio). Output transformer matches 8 ohm voice coil. Phono connection. Slide rule type dial, escutcheon and knobs. Loop antenna. Overall size 13 1/4" L., 6" D., 5 1/2" H. 105-125 V. 50/60 cycles AC. 60 watts.

Stock No. 34A19. Model S-59 Chassis with Tubes and Loop, Less Speaker. EACH

\$32.95

Any good PM speaker will work with this set . . . the bargain priced coaxials listed below are "super-duper" for it, the high-fidelity wide frequency range of the chassis will be more faithfully reproduced with these wide range coaxial speakers.

SAVE ALMOST ONE-HALF 12-INCH COAXIAL

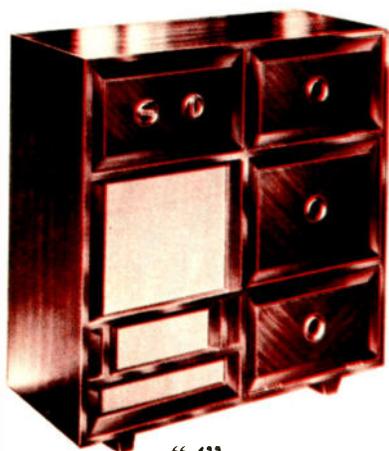
EXTENDED RANGE DUAL SPEAKER SYSTEM!
FOR FM OR AM RADIO, TELEVISION SOUND AND WIDE RANGE RECORD PHONOGRAPHS. QUICK, EASY, MODERNIZING REPLACEMENT OF OLD STYLE SINGLE RANGE SPEAKERS . . .

Ruggedly built of finest materials and equipped with super-efficient molded seamless cone—frequency range of 55 to 12,000 c.p.s. with low frequencies channeled to heavy duty 10-watt "WOOFER" and high frequencies handled by special designed 3 1/2" "TWEETER" speaker. Built-in bridging network allocates proper frequencies to each speaker unit. Easy to install and connect to any Radio or amplifier having standard 8-ohm output by merely connecting 2-wire speaker leads to output of Radio or amplifier. Improved ALNICO-5 Magnet in both "TWEETER" and "WOOFER" speakers. Dustproof voice coils. Size, 12 3/8" diameter x 7 1/4" deep overall. R.M.A. standard mounting holes. Shipping weight, 6 lbs. Stock No. 3188. 12" EXTENDED RANGE DUAL SPEAKER SYSTEM. NET EACH **\$9.95**



15-INCH COAXIAL DUAL SPEAKER SYSTEM
Truly a super-value is this big 15" Extended Range coaxial speaker—15" molded seamless cone "WOOFER" low frequency speaker, ALNICO-5 Magnet with 15-watt audio power handling capacity. Special 5" "TWEETER" high frequency speaker inbuilt cross-over network 8-ohm 1 1/4" voice coil. Overall size, 15 3/8" diameter x 9 1/2" deep. Shipping weight, 12 lbs. The ideal speaker for fine home Radio-Phono, Broadcast Station Monitor, Schools, Auditoriums, etc. Freq. range 55 to 12,000 C.P.S. Stock No. 3189. 15" EXTENDED RANGE COAXIAL SPEAKER SYSTEM. NET EACH **\$17.95**

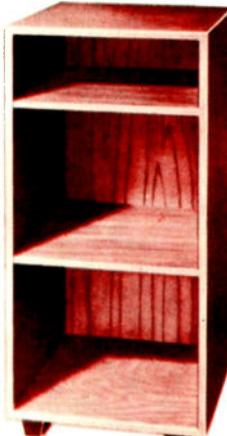
JENSEN CUSTOMODE CABINETS DELUXE QUALITY CABINETRY FOR CUSTOM INSTALLATIONS



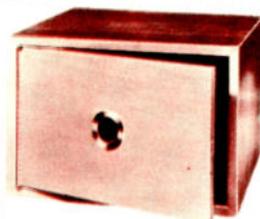
"A"



"B"



"C"



"D"



"E"

THE IMPERIAL CONSOLE "A"

A complete, one piece console cabinet for housing all equipment needed in a custom radio-phono installation. Has bass reflex enclosure for 15" speaker, record changer slideout drawer and 2 compartments with drop-front doors for tuner, amplifier, etc. Dimensions: (inside) record changer drawer 17 1/2" W., 13" H., 18" D.; other compartments, 18" W., 10 1/4" H., 17" D. Bevel treatment and raised-vee-matched selected imported mahogany veneer panels lend a sculptured feeling to the clean lined design. Satin finish brass door pulls provide an attractive color note. Size overall 37 1/2" W., 36" H., 18" D. Shpg. wt. 125 lbs.

No. 40A82 L351 Cordovan Mahogany Choice
No. 40A83 L251 Blonde Mahogany Each **\$189.00**

BASS REFLEX CABINET "B"

Beautifully styled speaker cabinet, designed to achieve the famous Jensen "bass-reflex" performance with 15" speaker. Has four concealed cutouts, any two of which may be used for controls supplied with co-ax speakers. Ideal for separate speaker use as well as basic unit in customode assemblies. Complete with foot assembly. Overall dim: 24" W., 36" H. and 18" D. Shpg. Wt. 70 lbs.

No. 40A73 M351 Cordovan Mahogany Choice
No. 40A12 M251 Blonde Mahogany Each **\$74.48**

GENERAL PURPOSE CABINET "C"

Provides storage for more than 200-12 or 10 inch records in albums. Fully enclosed flush back. Shelf clearance: bottom shelves, 13 1/2", top shelf 6" overall size 36" H., 18" W., 18" D. Shpg. Wt. 40 lbs. Order foot assembly with 14" guide strips when using beside speaker cabinet.

No. 40A86 N304 Cordovan Mahogany Choice
No. 40A87 N204 Blonde Mahogany Each **\$51.00**

SIDE HINGED CABINET "D"

For housing tuners, amplifiers, changers, etc. Plywood veneer sub-panel furnished loose with cleats and screws. I.D.: 10 1/2" H., 16 1/2" W., 17" D. O.D.: 12" H., 18" W., 18" D. Shpg. Wt. 28 lbs. Order foot assembly with 14" guide strips for stack of 3. For recorder changer, order motor board and slide assembly.

No. 40A84 N301 Cordovan Mahogany Choice
No. 40A85 N201 Blonde Mahogany Each **\$28.50**

DROP FRONT CABINET "E"

For larger equipment, communications receivers, television sets, large radio chassis etc. Drop front door, hinged bottom. I.D.: 22 1/2" W., 10" H., 17" D. O. D.: 20 x 12 x 18". Shpg. Wt. 30 lbs. For stack of 3, order foot assembly with 20" guide strips.

No. 40A88 N303 Cordovan Mahogany Choice
No. 40A89 N203 Blonde Mahogany Each **\$38.50**

MOTORBOARD and SLIDE ASSEMBLY (1)

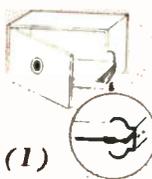
To convert side hinged cabinet "D" to record changer. Plywood motor-board assembled to two ball-bearing metal slides, make "slide-out" for changers. With mfg. screws.

No. 40A94 Cordovan No. 40A95 Blonde Each **\$8.50**

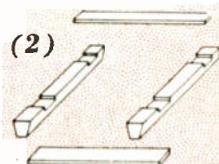
FOOT ASSEMBLIES (2)

Set of 2 solid matching tapered feet and 2 connecting guide strips.

No. 40A90 14" Mahogany **\$3.75**
No. 40A91 14" Blonde Mahogany EACH
No. 40A92 20" Mahogany **\$3.75**
No. 40A93 20" Blonde Mahogany EACH



(1)



(2)



This ensemble comprises cabinet "C" at left, of speaker cabinet "B" and three stacked cabinets "D" at right. From this it is easy to figure out combinations to suit any particular need or taste. A popular combination is as pictured, with addition of cabinet "E" on top of speaker cabinet "B". Write for literature, suggesting many varied combinations using the units listed above.

ESPEY CUSTOM BUILT AM-FM CHASSIS Model 511



A top quality instrument, Low Priced. It brings you the matchless tone quality of high-fidelity noise free FM plus powerful, sharply selective AM reception. Ideal for modernizing old sets and for new custom combinations.

Features: AC Super-het, improved FM circuit, Drift compensated. 12 tubes plus rectifier and electronic tuning indicator — 3 dual purpose tubes for added performance. Treble tone control. 6 gang tuning condenser—AVC. 13 watt (max.) Push-Pull Audio Output. Indirectly Illuminated Slide Rule dial. Smooth flywheel tuning. Antenna for AM and folded dipole for FM with provision for external antenna. Wired for phono operation.

Multi-tap output transformer, 4, 8 and 500 ohms.

Tubes: 1-6BE6, 1-6SG, 1-6SH7, 1-6AL5, 1-6C4, 1-6BE6, 1-6SQ7, 1-7F7, 2-6V6GT, 1-5Y3GT, 1-6U5.

Speaker: 12 inch PM with Alnico V magnet, 25 watts rating.

Supplied ready to operate, with tubes, antennas, speaker and all necessary hardware for mounting in cabinet, including escutcheon. Chassis dimensions: 13 1/2" W., 8 1/2" H., 10" deep. Shpg. Wt. 19 lbs. in 2 cartons.

No. 30B99 Cpte. os above **\$96.00**
NET EACH

TERRIFIC B-A Smash Value HITS!

13 TUBE
High Fidelity
AM-FM
Nationally Known Make
CHASSIS
only **\$59.88**

JENSEN P12SH Extended Range High Fidelity Speaker!



\$18.00 LIST VALUE
JENSEN 12-INCH
EXTENDED H-F RANGE
SPEAKER—PROVIDES
EXCELLENT H-F
PERFORMANCE
UP TO 10,000 CPS.
NO EXTRA COST

Of course the famous maker won't let B-A tell his name—this identical chassis and speaker is in a current model Radio-Phono-TV console combination at \$995.00. Lucky for him, he didn't buy as many combination cabinets as he built up AM-FM radio chassis before he found that people prefer TV and Radio sets in separate units. He switched production to TV sets alone. They sold so fast there was no time or room for the AM-FM chassis he had in excess of combination cabinets. B-A was called. We haggled for a price to give our customers a Really Smacking Value. Here it is!

Even if we can't name the brand here . . . it's one you can depend on—believe us—a name respected Nationally for leadership in quality since radio began. There are things you just can't hide . . . you'll see at a glance, value of at least twice our low price of \$59.88 . . . you'll see a precision built, de-luxe AM-FM chassis of the kind you would expect in a \$995.00 combination.

Check these features and you'll see what we mean:
Full coverage of standard AM and FM broadcast bands from a completely modern circuit, using latest top quality components and 13 tubes, including rectifier as follows: 5-6BA6, 1-12AT7, 1-6AL5, 1-6BE6, 2-6AT6, 2-6V6 and 1-5U4G.

Has 5-section tuning condenser, rubber-mounted; tuned RF stage on both FM and AM; 3-IF stages on FM plus ratio detector. All FM and AM circuits are extremely stable and sensitive. The audio system uses push-pull 6V6 tubes for a full 10 watts of wide-range, undistorted sound.

Controls at front consist of separate Bass and Treble tone, On Off/Volume, Tuning and AM-FM-TV-PHONO selector switch. At the rear are phono connections for TWO record changers or one changer and wire or tape recorder. Also has audio input for a television tuner allowing full use of the high fidelity audio system. Also provided are AC sockets for both record changer and TV tuner plus connections for outdoor AM and FM-TV antennas. Antenna, AC and Audio connections for AM, FM, TV and Phono are switched automatically by the front panel selector switch.

The attractive edge-lighted, glass, slide-rule dial is tilted for modern installation. With slight alteration, dial tilt can be varied to vertical or horizontal position, chassis remaining in normal position. The well-proportioned size plus

the universal mounting feature of the dial make this chassis especially desirable for either custom installation in built-ins or modernizing old sets—ideally suited for the new drawer type mounting. Supplied with bezel trim and matched set of knobs for neat finish to any installation. Chassis size overall 14" wide, 12 3/4" deep, 10" high. Equipped with built-in rubber shock mounts. The AM loop antenna extends 1 1/2" at side, but can be remounted where most desirable.

Jensen 12-inch Extended Range High Fidelity PM Speaker ALSO INCLUDED at NO EXTRA COST. Provides unusually high quality reproduction—No where but at B-A can you get SO MUCH FOR ONLY \$59.88.

For 110 volt, 60 cycle AC operation. 5hpg. Wt. 21 lbs.

No. 34A189-2. Chassis and Jensen Speaker. Each one Brand New in original factory packing.

Complete ready to operate.
SPECIAL EACH

\$59.88

Quantities of course are limited . . . subject to prior sale and we regret any disappointments if there are not enough to go around as has been the case in other B-A Special Purchase Values.

CASCO ELECTROMATIC

POWER TOOL KIT WITH 50 ACCESSORIES

for WORKING GLASS, PLASTIC, WOOD, METAL, ETC.

- POLISHES
- ENGRAVES
- ROUTS
- DRILLS
- BUFFS
- GRINDS
- SAWS
- SANDS
- CUTS

A TOOL OF 1000 USES



Handsomely packaged in a sturdy, lustrous, burgundy plastic chest—keeps power tool and accessories safe and ready for instant use.

Power tool features: Improved Extra Quality Fractional H.P. Motor with built-in static suppressor—runs over 20,000 RPM—AC or DC—110-120 volts. All working parts brought to minute tolerances, assuring trouble free operation and long life.

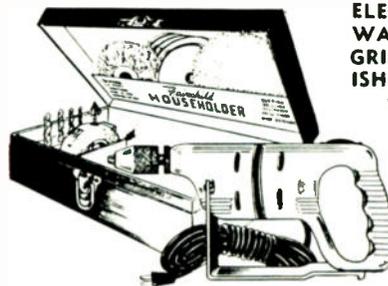
Complete with 50 varied and practical accessories to do any job at home, shop or office.

The Greatest Value Ever Offered in the Power Tool field. A deluxe outfit popularly priced for the Amateur or Professional Craftsman.

\$12.97
\$11.97

No. 32B252, Retail for \$19.95 Wt. 6 lbs.
Dealer's Net Price Each
Lots of 4, Each

FAIRCHILD DRILL and POLISHER KIT



ELECTRICALLY DRILLS . . .
WAXES . . . POLISHES . . .
GRINDS . . . SANDS . . . FIN-
ISHES . . . and hundreds of other
uses in the shop or home.

Kit consists of:
Sturdy Metal Case with attractive grey wrinkle finish and nickel plated snap catch—New Improved Fairchild 1/4" Electric Drill which features a sturdy lacquer finished cast aluminum alloy housing with balanced Saw-grip handle, a quality 1200 RPM, 110 volt AC-DC motor and sturdy 3 jaw chuck—stand to horizontally mount

drill when grinding, etc. . . . Adaptor for attaching accessories to drill
4" sanding and polishing back up disc . . . 6 sanding discs . . . 4 3/4" Lambs-wool polishing bonnet
3" wire scratch brush . . . 4 high speed drills, 1/4, 3/16, 1/8 and 3/32" . . . 3/8" countersink . . . attachment to electrically mix paint. Wt. 8 lbs.

No. 36B50, A GREAT VALUE! Retail for \$26.25
Dealer's Cost \$20.97 2 to 6 **\$19.67** 6 and over, **\$18.37**
Each Each Each
Fairchild Drill Kit—consists of above Metal Case, Drill and 7 high speed twist drills, sizes 1/16 to 1/4" by 3/2nds. Wt. 7 lbs.
No. 16A405, Retail for \$19.95
Dealer's Cost \$15.86 2 to 6 **\$14.97** 6 and over, **\$13.98**
Each Each Each
Fairchild Drill only, Retail for \$15.95. Stock No. 37A32 Wt. 4 lbs.
Dealer's Cost \$12.76 2 to 6 **\$11.87** 6 and over, **\$11.19**
Each Each Each

SEE PAGES 82 to 91 for A WIDE SELECTION OF HANDY TOOLS



The **MEISSNER**
Magistrate
FM-AM
RADIO PHONOGRAPH
 A TRIUMPH in Exquisite Beauty
FAITHFUL TONE
AND ADVANCED
ELECTRONIC
ENGINEERING



A combination of custom quality high-fidelity FM-AM radio reception, plus superb reproduction of all three types of records, the 78, 33 1/3 and 45 RPM. An outstanding musical instrument possessing a wealth of features rarely found in an assembly selling in this price range.

Its beautiful classic georgian cabinet is of rich mahogany. Full closing hinge doors swing back to side of cabinet, out of way when open. Handy pull-out drawer houses the popular GI changer . . . plays automatically all home records—all speeds—all sizes. Large storage space for records, 15 x 15 1/2 x 13".

Meissner factory assembled, utilizes their 9-1093 tuner and amplifier described below. Faithful tone reproduction is assured by the use of a superlative 10" PM Speaker.

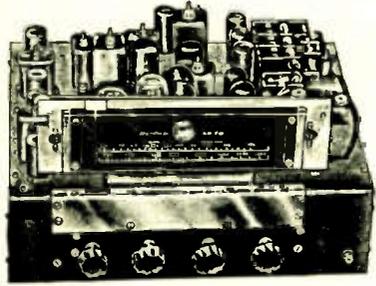
Two built-in antennas are supplied with provision for connecting external AM and FM antennas.

Overall size 35" wide, 34 1/2" high, 18" deep—weighs crated for shipment 136 lbs. For 110 volt 60 cycle AC operation.

B-A Stock No. 40B61 List Price \$405.00.

\$298⁵⁰

NET EACH



MEISSNER Model 9-1093 AM-FM TUNER and AMPLIFIER
INCOMPARABLE IN TONE . . . IN PERFORMANCE

Here is truly, one of the finest AM FM tuners. The Meissner wide-band super-het tuner with amplifier will fill the most exacting requirements for sensitivity and exceptional high fidelity performance. Provides complete coverage of the AM broadcast band of 535 to 1620 KC and full FM coverage from 88 to 108 MC. Attractive slide rule dial is calibrated in KC for AM band and MC for FM band.

Power output is 18 watts at less than 2% harmonic distortion. The audio fidelity is flat within + or - 2 db. from 50 to 15,000 cps. Hum level is 65 db. below full output.

Sensitivity is less than 20 microvolts. Has a two position selectivity control on the AM band Providing high selectivity for distant reception or expanded selectivity for high fidelity reception of local or clear channel stations.

A phono input jack controlled by a front switch is mounted in rear. The circuit is compensated for either magnetic or crystal pick-up. A GE Reluctance Pickup can also be used—a phono pre-amp being incorporated in the circuit. Simply plug-in a 6SC7 tube (not supplied) in socket provided. 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.

Two indoor antennas are supplied, a 12 x 16" noise reducing loop for AM, a 300-ohm folded dipole for FM. Provision is made for connecting external AM and FM antennas.

The amplifier is designed for an 8 to 16 ohm speaker, (not included). Power supply: 105-125 V. 60 cycle AC.

Tubes as follows: three 6SK7, one 6SA7, one 6H6, five 6AG5, one 6C4, two 9001, one 6AL5, two 6J5, one 6SN7GT, two 6L6, one 5Y3G, one 5V4G and one 6U5/6G5.

Tuner mtg. space: 14 1/8" W. x 12 1/4" D. x 8 3/8" H. Amplifier: 7 1/8" W. x 16 1/4" D. x 7" H. (allow clearance above amp. for ventilation). Tuner wt. 18 lbs., Amp. 27 lbs.

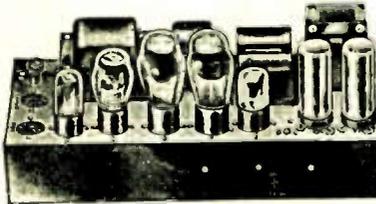
Both Tuner and Amplifier as shown above, is supplied complete with tubes, and all hardware needed to mount chassis units in cabinet. Cabinet and speaker not included.

B-A Stock No. 31A75

List Price \$310.00

Net for Tuner and Amplifier

\$186⁰⁰



MEISSNER Model 9-1091 AM-FM TUNER ONLY

FOR THOSE WHO LIKE EXCEPTIONAL HI-FIDELITY
 Covers 527-1620 KC and 88-108 MC. Response is flat within plus or minus 2 db. from 30 to 15,000 cycles. Separate bass and treble controls. Sensitivity is less than 10 mv. Selectivity for AM may be made either "Broad" or "Sharp". Output is 8 volts at the high impedance terminals and 75 volts at the 500-ohm terminals. Phono input terminals are provided. Any antenna may be used for AM. The FM section is designed for balanced 300-ohm transmission line.

Tubes in AM Section: 9003-RF amp., 6BE6-oscillator-converter, 2 9003 I.F. amp. (456 KC), 6AL5-detector; FM section 6AG5-RF amp., 6C4-oscillator, 6AG5-converter, 3 6AG5-I.F. amp. (10.7 MC), 2 9001-limiters,

1 6AL5 armstrong detector, 2 6C4 audio amp., a 6U5-6G5 tuning indicator and 5Y3GT/G rectifier.

Chassis measures 16 5/8 x 10 1/4" (requires 1 1/4" additional between chassis and panel) with Slide Rule Dial (requires 2 x 7 1/2" opening). Calibrated in KC on AM and in channel numbers (700-300) on FM.

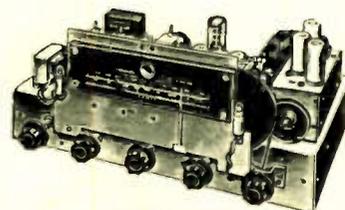
Supplied Complete with Tubes, dial and escutcheon plate. For 105-125 volts 50-60 cycle AC.

No. 31A74

List Price \$245.00.

Your Cost

\$147⁰⁰



MODEL 9-1091